

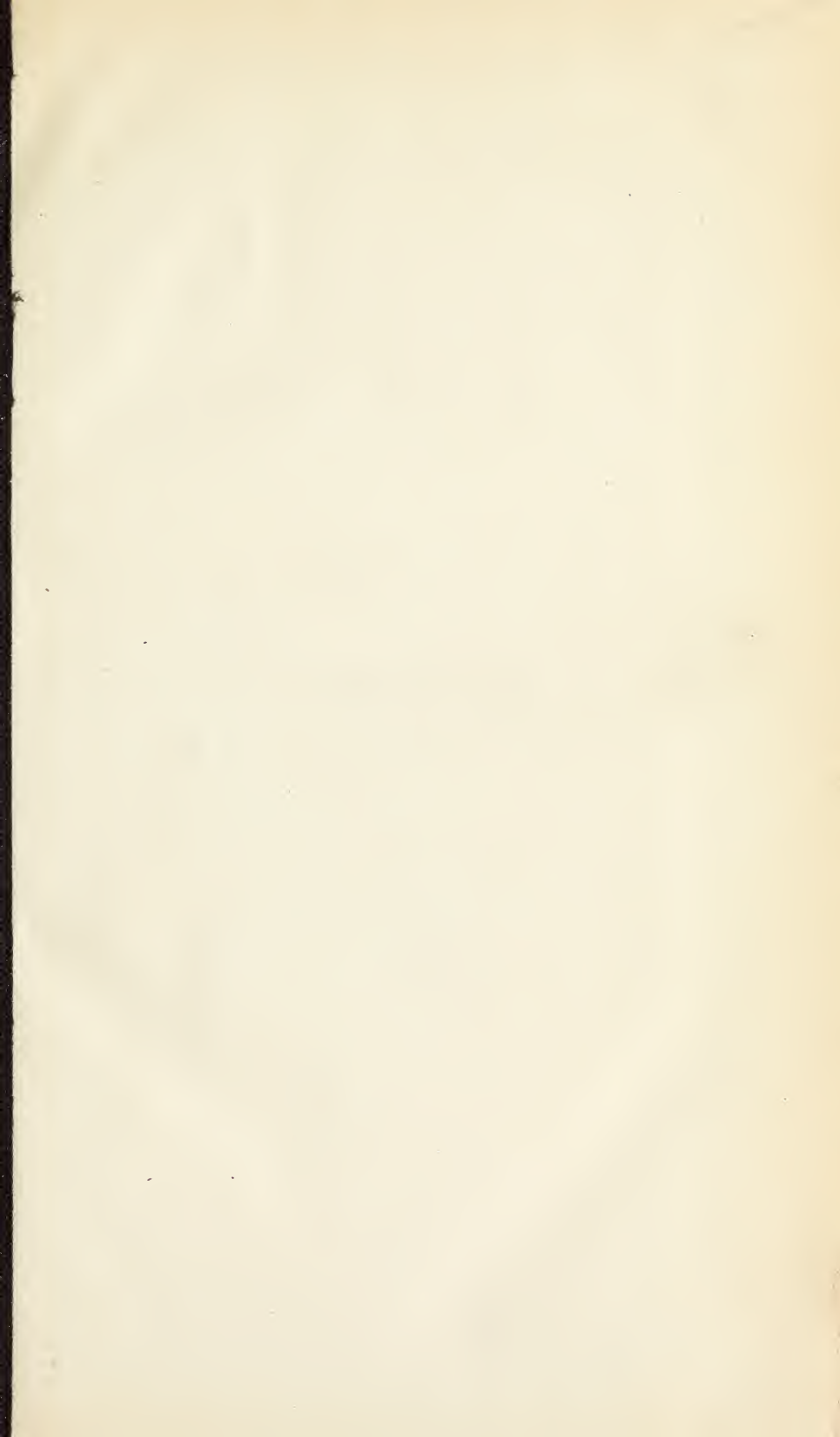


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EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

LETTER

FROM

THE SECRETARY OF AGRICULTURE,

TRANSMITTING

A STATEMENT OF EXPENDITURES IN THAT DEPARTMENT FOR THE YEAR ENDED JUNE 30, 1903.

DECEMBER 1, 1903.—Referred to the Committee on Expenditures in the Department of Agriculture and ordered to be printed.

DEPARTMENT OF AGRICULTURE,  
 OFFICE OF THE SECRETARY,  
 Washington, D. C., November 28, 1903.

SIR: I have the honor to present herewith, in conformity to law, a detailed statement of the expenditures of all appropriations for the Department of Agriculture for the fiscal year ending June 30, 1903, including supplemental accounts to November 15, inclusive.

Very respectfully,

JAMES WILSON,  
 Secretary.

The SPEAKER OF THE HOUSE OF REPRESENTATIVES.

*Expenditures of Department of Agriculture for year ending June 30, 1903.*

SALARIES.

Name.	Amount.	Name.	Amount.
James Wilson	\$8,000.00	Jno. R. Mohler	\$2,500.00
H. Brigham	4,500.00	E. A. de Schweinitz	2,500.00
E. Salmon	4,500.00	Geo. W. Hill	2,500.00
F. Galloway	4,000.00	Overton W. Price	2,500.00
W. Wiley	3,500.00	G. B. Brackett	2,500.00
Wm. Pinchot	3,500.00	W. J. Spillman	2,500.00
John Whitney	3,500.00	F. K. Cameron	2,500.00
John Hyde	3,000.00	F. V. Coville	2,500.00
O. Howard	2,750.00	Jasper Wilson	2,250.00
Hart Merriam	2,750.00	S. D. Fessenden	2,200.00
Robert Woods	2,750.00	R. W. Hickman	2,141.68
L. Evans	2,500.00	A. Zappone	2,000.00
Andrew Geddes	2,500.00	J. B. Bennett	2,000.00
D. Melvin	2,500.00	S. R. Burch	2,000.00
M. Farrington	2,500.00	C. B. Lower	2,000.00
E. Alvord	2,500.00	T. H. Means	2,000.00

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## SALARIES—Continued.

Name.	Amount.	Name.	Amount.
A. G. Rice	\$2,000.00	F. N. Gegory	\$1,400.00
J. A. Arnold	2,000.00	Irvin Frickey	1,400.00
E. C. Schroeder	2,000.00	J. C. I. Evans	1,400.00
O. J. Luebker	2,000.00	C. F. Morris	1,400.00
J. E. Jones	2,000.00	W. S. D. Haines	1,400.00
F. H. Hitchcock	1,875.00	Lillie Sullivan	1,384.60
E. B. Jones	1,856.65	W. H. Osgood	1,377.80
E. E. Ewell	1,805.83	M. McCutchen	1,361.96
C. H. Greathouse	1,800.00	F. P. Veitch	1,334.80
E. D. Yerby	1,800.00	H. R. Smedes	1,300.00
B. D. Stallings	1,800.00	Geo. F. Thompson	1,290.00
R. B. Handy	1,800.00	A. G. Guthridge	1,200.00
T. B. Harrison	1,800.00	Thos. J. Ray	1,200.00
R. E. Smith	1,800.00	Geo. A. Harlow	1,200.00
I. W. Stone	1,800.00	E. H. Stevens	1,200.00
H. H. Gerdes	1,800.00	Virginia Miller	1,200.00
W. L. Hall	1,800.00	M. B. Zimmerman	1,200.00
F. R. Rutter	1,800.00	Alta C. Baldwin	1,200.00
J. A. Clark	1,800.00	C. B. Clark	1,200.00
A. K. Fisher	1,800.00	W. F. Wight	1,200.00
C. L. Shear	1,800.00	B. M. Dodson	1,200.00
V. K. Chesnut	1,800.00	I. J. Nichols	1,200.00
David Griffiths	1,800.00	F. J. P. Cleary	1,200.00
N. E. Dorsey	1,800.00	M. E. Edwards	1,200.00
W. Hieleman	1,800.00	M. E. Thorn	1,200.00
Carlton R. Ball	1,800.00	C. B. Finckle	1,200.00
D. W. Coquillet	1,726.66	M. M. Ingram	1,200.00
Chas. C. Moore, jr	1,700.00	W. M. King	1,200.00
H. J. Washburn	1,656.64	V. K. Wharton	1,200.00
Albert Hassell	1,651.70	W. A. Sherman	1,200.00
J. A. Harvey	1,600.00	Jas. E. Covert	1,200.00
Josephine Brigham	1,600.00	Lena G. Shepherd	1,200.00
W. C. Pennywitt	1,600.00	M. A. S. Colman	1,200.00
A. M. Houseman	1,600.00	Emma B. Hawks	1,200.00
L. F. Harrington	1,600.00	M. G. Champney	1,200.00
Geo. E. King	1,600.00	Arthur H. Howell	1,200.00
C. A. Leith	1,600.00	Ada B. Morrison	1,200.00
C. C. Clark	1,600.00	J. A. Rice	1,200.00
D. W. Stier	1,600.00	Sylvester D. Judd	1,200.00
A. I. Mudd	1,600.00	D. G. Passmore	1,200.00
Ephraim Cornman	1,600.00	Emily C. McDonell	1,200.00
J. A. Emory	1,600.00	E. W. Cathcart	1,200.00
Theo. Pergande	1,600.00	L. J. Smith	1,200.00
Nellie E. Fealy	1,600.00	Wm. E. Taylor	1,200.00
O. F. Jones	1,600.00	Ernest Morsell	1,200.00
J. A. Bonsteel	1,600.00	Otis H. Gates	1,200.00
Chas. H. Seaton	1,600.00	R. F. Johnson	1,200.00
Bertha Burch	1,500.00	A. G. McCall	1,200.00
Henry Oldys	1,500.00	G. N. Coffey	1,200.00
Jos. Abel	1,456.62	Janett Steurt	1,200.00
Jno. S. Buckley	1,456.62	Henry Winckelmann	1,200.00
Jas. M. Pickens	1,448.34	Chas. A. Drake	1,200.00
Harry N. Price	1,400.00	Harry L. Hill	1,200.00
I. S. Pennybacker	1,400.00	G. F. Schwarz	1,200.00
Carrie Du Bois	1,400.00	Edw. Block	1,200.00
F. C. Cox	1,400.00	Chas. L. Kolb	1,200.00
C. E. Donnelly	1,400.00	Jno. Foley	1,200.00
Louise Breedin	1,400.00	A. M. Winfield	1,200.00
Anna Montgomery	1,400.00	Nellie F. Haughton	1,200.00
J. H. Hendrix	1,400.00	Mary A. Marshall	1,200.00
M. F. Stafford	1,400.00	M. H. Mahon	1,200.00
E. G. Ward, jr	1,400.00	T. A. Scott	1,200.00
J. P. M. Haas	1,400.00	Mary E. Fagin	1,200.00
Emma S. Thompson	1,400.00	A. G. Masius	1,178.60
H. N. Tenfel	1,400.00	Anna L. Pierce	1,164.20
Caribel R. Barnett	1,400.00	J. H. Barnes	1,158.06
E. A. Preble	1,400.00	W. Carl Hyatt	1,157.14
W. A. Orton	1,400.00	Mary F. Dent	1,149.47
Mary M. McClure	1,400.00	H. M. Hendrick	1,100.00
Edmund Burk	1,400.00	Geo. W. Baumann	1,089.46
Carrie Harrison	1,400.00	William Collier	1,061.66
W. W. Tracy, jr	1,400.00	J. N. Baker	1,078.26
D. S. Bliss	1,400.00	G. H. Failyer	1,065.20
Alice Henkel	1,400.00	H. L. Vining	1,061.54
Flora W. Paterson	1,400.00	Annie Guggenheimer	1,047.26
M. S. Tidd	1,400.00	Beatrice C. Oberly	1,044.02
J. G. Holmes	1,400.00	F. M. Orcutt	1,026.24
W. G. Smith	1,400.00	J. C. Wight	1,004.47
McP. Reynolds	1,400.00	W. F. Tomlinson	1,000.00
Mary Sullivan	1,400.00	Bertha Hieges	1,000.00
Evelyn Lyons	1,400.00	E. C. Herrick	1,000.00



Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## SALARIES—Continued.

Name.	Amount.	Name.	Amount.
Ernest A. Bennett	\$1,000.00	A. N. Kite	\$720.00
Wm. A. Murray	1,000.00	W. C. Shimoneck	720.00
Marion A. Nelson	1,000.00	Harry Compton	720.00
C. E. Bracey	1,000.00	Thos. Rutledge	720.00
M. A. Goodchild	1,000.00	Clarence Bean	720.00
W. W. Jones	1,000.00	B. T. Ridgeway	720.00
Helen E. Gray	1,000.00	J. M. Boardman	720.00
M. S. Bowie	1,000.00	W. H. Johnson	720.00
F. C. Cooney	1,000.00	M. F. Ryan	720.00
A. M. Wright	1,000.00	W. H. Moore	720.00
R. B. Blankman	1,000.00	H. S. Mott	720.00
Sallie G. Adams	1,000.00	Emory C. Morton	720.00
M. L. Wood	1,000.00	R. H. Cook	720.00
Nathl. Shattswell	1,000.00	Thad. Fairfax	720.00
E. N. Ogden	1,000.00	Frank Snyder	720.00
R. C. Althouse	1,000.00	Alfred Hawkins	720.00
N. F. Tastet	1,000.00	Otto Heidemann	703.30
H. C. Oberholzer	1,000.00	H. P. Gould	700.00
S. E. Miller	1,000.00	S. H. Fulton	700.00
W. A. Ball	1,000.00	R. P. Caruthers	698.40
H. A. Benner	1,000.00	John Nicholas	688.00
E. H. Bradley	1,000.00	Helen Stockbridge	684.83
W. M. Pollock	1,000.00	G. W. Stiles	682.30
F. M. J. Green	1,000.00	W. D. Bigelow	680.56
F. O. Martin	1,000.00	Geo. G. Anderson	662.20
Carl G. Crawford	1,000.00	Geo. W. Sheerer	660.00
Fanny M. Allen	1,000.00	F. A. Reynolds	655.18
Edna M. Frost	1,000.00	Merritt Carey	652.17
Geo. W. Brett	1,000.00	C. K. Bragdon	650.00
F. R. Fravell	1,000.00	R. S. Hosmer	641.62
M. C. Montgomery	1,000.00	Grace M. Stoddart	639.89
E. J. Newmyer	1,000.00	J. E. Field	637.93
B. J. Wasdon	1,000.00	M. F. Warner	630.00
M. C. Stoddart	997.28	J. W. Tourney	622.45
M. N. Barnard	994.44	W. S. Griffith	607.50
W. S. Stampler	959.24	Geo. P. McCabe	600.00
J. Wm. Fink	943.48	F. B. Linton	600.00
J. B. Adams	937.80	Frank Sprague	600.00
Helen M. Thompson	926.67	J. H. Gordon	600.00
Julius E. Rockwell	924.87	Effie M. Young	594.78
S. E. Jenkins	920.00	Elva E. Hicks	586.10
J. H. Grant	900.00	R. Kleinsmith	586.10
E. G. Runyan	900.00	Marie T. Spethman	584.20
Quincy R. Craft	900.00	G. K. Holmes	563.23
G. L. Woodin	900.00	J. W. T. Duvell	550.00
Sue M. Gill	900.00	Harry Hayward	545.00
Thos. Riggles	900.00	A. H. B. Kenney	542.92
E. M. Hollidge	900.00	Celia Gillety	540.00
Charles D. Harvey	900.00	J. S. Lee	540.00
Annette M. Dye	870.00	S. W. Halsey	505.09
Daisy M. Murphy	863.33	J. N. Hornbaker	498.90
Annie M. Parker	840.00	Willis W. Cooke	498.90
Thos. B. Reamy	840.00	F. C. Pratt	496.70
A. C. Crain	840.00	Nelson Kent	488.90
Margaret L. Sewell	840.00	Martha Boss	480.00
Chas. S. Weidman	840.00	Susie Morgan	480.00
Jos. Williams	840.00	A. H. Love	472.83
Lawrence Gallagher	840.00	Augusta Williams	458.34
A. H. Brooks	840.00	Allen Dodge	453.33
J. A. Mason	840.00	Albert M. West	452.00
Felix T. Moore	840.00	Carrie Meyers	450.00
R. H. Edmondson	840.00	A. A. Newton	430.30
R. T. Fisher	827.16	J. V. Joyce	425.81
Jno. Roberts	817.90	Amy B. Hill	420.00
Gertrude E. Upton	800.27	Florence D. Strause	420.00
Sara Skinner	796.10	Mark Winchester	419.20
W. J. Nevins	791.20	G. L. Vermillion	414.89
Lillian Burch	790.20	C. Walden	413.90
Fred Lees	778.56	J. R. Raley	405.00
L. J. Simonton	769.20	J. B. Morse	396.67
Alice S. Lawrence	769.20	C. C. Carroll	396.67
S. B. Gregory	758.33	J. B. Faulkner	391.66
Belle Saunders	752.06	Edith Simonton	385.03
Clara M. Loyd	746.33	Emily Werner	379.57
A. M. Houser	724.96	Eunice B. Oberly	374.17
Moses Smith	720.00	David Waters	372.21
Lorenzo D. Frost	720.00	R. A. Pearson	371.68
A. J. Hodges	720.00	Jno. M. Ferris	360.79
L. T. Harrison	720.00	Anna M. Bryant	360.00
Geo. I. Hall	720.00	L. C. Kellerhouse	360.00
C. C. Croghan	720.00	Lucy M. Jones	359.37

4 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

SALARIES—Continued.

Name.	Amount.	Name.	Amount.
Fred Lees	\$357.03	S. M. Coulter	\$137.50
Virginia Tenney	359.81	Frank M. Young	130.15
Middleton Smith	351.60	W. R. Brandenberg	126.40
E. A. Gonwer	327.72	Estella O. Rourke	120.00
Geo. H. Dunning	322.13	V. G. Croissant	110.61
H. L. Watson	312.63	Annie L. Pierce	101.10
C. A. Pfender	312.63	C. N. Mooney	101.07
Ch. Wardell Stiles	312.50	Jno. G. Miller	93.30
Helen Gardner	300.47	Atherton Seidell	92.26
H. S. Graves	300.00	A. L. Berry	90.13
W. L. Bray	300.00	Julia R. Pearce	87.89
S. C. Mason	300.00	E. G. Grau	83.41
W. R. Dudley	300.00	Fred Bonsteel	77.56
W. F. Fox	300.00	Jessie C. Waite	75.80
C. E. Bessey	300.00	Andrew Fassum	74.20
H. H. Chapman	300.00	C. L. Marlotte	73.34
H. N. Whitford	298.37	F. W. S. Blanchard	62.64
Eliz. M. Olmsted	288.00	L. J. Simonton	60.60
Eliz. B. Preston	288.00	Hortentia Jones	59.60
M. S. Shaler	275.30	Mary C. Garvey	59.40
Pauline Hammond	274.12	W. C. Wyatt	50.00
Louise De Bonneville	250.00	P. R. Hindman	42.86
Lizzie Rollins	240.00	Geo. M. Kuffin	40.76
Catherine Baltimore	240.00	J. E. Bryant	39.20
Mary Anderson	240.00	G. P. Parks	36.92
Sarah Garner	240.00	R. P. Caraway	36.67
Helen Stokes	239.90	Chas. M. Higgins	34.24
W. L. Towberman	237.39	J. M. Truxell	30.00
M. V. Minor	231.00	Charity Brodus	29.97
Belle Meek	222.18	Hugh M. Curran	29.30
Jas. Munroe	212.00	Marie E. Snow	25.11
Gertrude Parker	210.03	Henry J. Wilder	22.83
Abbie Knapp	210.00	E. A. Week	17.14
Jno. G. Willer	210.00	John Higgins	9.00
J. E. Rockwell	208.30	Frank Carter	3.00
Benj. R. Sherwood	180.00	Jno. W. Harris	1.50
H. M. Sutter	162.50	Jas. Conyers	1.50
Don M. Carr	158.47	Ben. Jackson	1.50
W. L. Darrell	152.90	Wm. Atkinson	1.50
W. F. Hubbard	150.70	David Brooks	1.50
Minnie A. Cannon	150.01	Louis Foster	1.50
W. H. Walters	148.80		
Martha Barrett	140.20	Total	450,944.88
Clifford Scott	140.09		
Ida A. Cook	139.60		

WEATHER BUREAU SALARIES AT WASHINGTON, D. C.

Willis L. Moore	\$5,000.00	G. W. Hay	\$1,400.00
Cleveland Abbe	3,000.00	Hiram J. Penrod	1,400.00
Frank H. Bigelow	3,000.00	Theo. T. Moore	1,400.00
Edward B. Garriott	2,500.00	H. L. Heiskell	1,400.00
H. J. Cox	2,500.00	Jno. C. Stewart	1,400.00
A. J. Henry	2,500.00	Henry Pennywitt	1,400.00
Alexander G. McAdie	2,500.00	M. C. Bennett	1,400.00
Henry C. Frankenfield	2,000.00	H. H. Kimball	1,400.00
E. A. Beals	2,000.00	Jno. C. Fry	1,400.00
John W. Smith	2,000.00	Enoch G. Johnson	1,400.00
Isaac M. Cline	2,000.00	Sophia A. Benter	1,400.00
Frederick H. Brandenburg	2,000.00	H. W. Smith	1,400.00
Eben H. Emery	2,000.00	Harry B. Wren	1,400.00
H. E. Williams	2,250.00	A. H. Kinnear	1,200.00
James Barry	2,000.00	Wm. Berry	1,200.00
D. J. Carroll	2,000.00	R. F. de Grain	1,200.00
J. H. Robinson	2,000.00	J. H. Melton	1,200.00
D. T. Maring	1,800.00	W. D. Porter	1,200.00
J. R. Cook	1,800.00	R. D. Meston	1,200.00
E. B. Calvert	1,800.00	S. A. Potter	1,200.00
F. M. Cleaver	1,800.00	J. L. Whiteside	1,200.00
Robert Seyboth	1,600.00	Arthur Thompson	1,200.00
Frank Gillam	1,600.00	Belle P. M. Spencer	1,200.00
P. C. Day	1,600.00	Benjamin A. Blundon	1,200.00
George E. Hunt	1,600.00	E. M. Mattison	1,200.00
J. H. Jones	1,600.00	Ruby S. Hotze	1,200.00
S. W. Beall	1,400.00	C. J. Jones	1,200.00
J. T. Foy	1,400.00	Wm. M. Husson	1,200.00
G. W. Smith	1,400.00	Clinton J. Ashton	1,200.00
T. O. Pugh	1,400.00	D. Marean	1,200.00

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## WEATHER BUREAU SALARIES AT WASHINGTON, D. C.—Continued.

Name.	Amount.	Name.	Amount.
Homer W. Clough .....	\$1,200.00	Daniel F. O'Neil .....	\$840.00
Frank O. Stetson .....	1,200.00	Edward Dillon .....	840.00
Charles Holmes .....	1,200.00	Fred L. Francis .....	840.00
James M. Watson .....	1,200.00	William Patrick .....	840.00
Jos. B. Wilson .....	1,200.00	Gustav E. Rausch .....	840.00
Alvin T. Burrows .....	1,200.00	Richard Hayes .....	720.00
J. Gwynn Gardiner .....	1,200.00	W. K. Durnbaugh .....	720.00
John J. McLean .....	1,200.00	Charles W. Chambers .....	720.00
Mattie H. Chapman .....	1,000.00	Frank M. Angelo .....	720.00
S. Percy Mimnick .....	1,000.00	R. H. Morton .....	720.00
Genevra B. Diehl .....	1,000.00	David Keller .....	720.00
William N. Parker .....	1,000.00	E. A. Branham .....	720.00
Herman Voker .....	1,000.00	Richard E. Rozzelle .....	720.00
Conrad E. Hesse .....	1,000.00	James F. Collins .....	840.00
Frank D. Emery .....	1,000.00	W. Plummer .....	660.00
Ralph B. Marean .....	1,000.00	William O. Harvey .....	660.00
Charles F. Talman .....	1,000.00	Horace F. Lyon .....	660.00
Ralph C. Mize .....	1,000.00	John A. Balster .....	660.00
Franklin G. Tingley .....	1,000.00	William McLane, jr .....	660.00
Richard O. Lazenby .....	1,000.00	Jesse Jones .....	600.00
William A. Mitchell .....	1,000.00	Richard S. N. Sartz .....	600.00
Frederick W. Brist .....	1,000.00	Robert Williams .....	600.00
Joseph U. Monroe .....	1,000.00	Edward McDermott .....	600.00
Alice T. Hercus .....	900.00	John Driscow .....	600.00
Richard Breaden .....	900.00	Plato T. Lee .....	600.00
Luman M. Cleveland .....	900.00	Frederick Rice .....	600.00
Laura F. Hawkins .....	900.00	Harry W. Meadel .....	600.00
Hermann Pearls .....	900.00	Daniel J. Brown .....	480.00
Walter J. Bennett .....	900.00	Lemuel E. Tate .....	480.00
T. Frederick Davis .....	900.00	Louis M. Campfield .....	480.00
Mary Long .....	840.00	Thomas Woolfolk .....	450.00
Belle Gaston .....	840.00	George M. Wilmeth .....	450.00
Elgie M. Keyser .....	840.00	Frank L. Wilson .....	450.00
Abe Wiesner .....	840.00	Frank Matthews .....	450.00
Virginia M. Peticolas .....	720.00	Frederick M. Eisenstein .....	450.00
Roy E. McQuigg .....	720.00	Lucy Payne .....	240.00
C. B. Tuch .....	1,400.00	Amanda Lomax .....	240.00
C. H. Pilcher .....	1,200.00	Clara A. Templeton .....	240.00
Hiram Johnson .....	1,000.00		
F. A. Claveloux .....	1,000.00	Total .....	165,260.00
Ovide St. Marie .....	1,000.00		

## LIBRARY.

Date.	Name.	Nature of payment.	Total.
1902.			
July 23	G. Harold Powell .....	Bailey's Cyclopedias, Horticulture.	\$20.00
	W. H. Lowdermilk & Co .....	Pharmacy sheet .....	5.40
	H. N. Patterson .....	Cards .....	25.86
24	Gaylord Bros .....	Paper .....	.75
	Geo. F. Crain .....	Railway atlas .....	27.50
Aug. 4	H. E. Hooper .....	Books .....	8.75
	Lemcke & Buechner .....	do .....	46.05
5	T. H. Castor & Co .....	do .....	6.52
	Brentano's .....	do .....	20.00
15	Forest and Stream Publishing Co .....	do .....	1.00
16	G. E. Stechert .....	do .....	22.73
	Wm. A. Kellerman .....	do .....	1.00
	P. Blackiston's Son & Co .....	do .....	17.00
	H. W. Wilson .....	do .....	6.25
	The Burnham Antique Book Store .....	do .....	2.79
	Mrs. Carrie Williams .....	do .....	1.25
23	The Macmillan Co .....	do .....	15.08
	Lemcke & Buechner .....	do .....	34.53
	do .....	do .....	11.77
	do .....	do .....	45.36
25	William Wesley & Son .....	do .....	10.00
28	do .....	do .....	26.42
Sept. 5	The Macmillan Co .....	do .....	10.83
	Oswald Weigel .....	do .....	15.13
	Longmans, Green & Co .....	do .....	1.20
	Paul Klincksieck .....	do .....	145.70
	A. Hermann .....	do .....	19.34
	Edw. L. Greene .....	do .....	4.50
	Joseph Baer & Co .....	do .....	30.37
6	Mulfum in Parvo Binder Co .....	Binders .....	2.40

6 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

LIBRARY—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Sept. 6	Lawrence Washington.....	Books.....	\$2.50
12	Wm. R. Maxon.....	do.....	5.75
	W. W. Karr.....	do.....	9.90
17	Wm. R. Jenkins.....	do.....	17.75
19	do.....	do.....	9.90
	G. E. Stechert.....	do.....	93.75
	Chas. Scribner's Sons.....	Book.....	4.73
20	Library Bureau.....	Library fittings.....	155.00
24	R. Friedlander & Sohn.....	Books.....	14.00
	Total first quarter.....		898.16
Oct. 1	Annie M. Smith.....	Books.....	2.50
	R. R. Bowker.....	do.....	10.00
	Wm. R. Jenkins.....	do.....	10.00
	Boston Society of Natural History.....	Book.....	1.50
16	Conway Macmillan.....	do.....	3.50
	American Field Publishing Co.....	do.....	2.00
	G. E. Stechert.....	Books.....	13.45
	do.....	do.....	40.50
	Lemcke & Buechner.....	do.....	18.43
	do.....	do.....	29.43
	Wm. Wesley & Son.....	do.....	42.17
	Lemcke & Buechner.....	do.....	41.75
	Wm. Wesley & Son.....	do.....	24.45
	Martinus Nijhoff.....	do.....	45.35
	Dodd, Mead & Co.....	do.....	11.20
	Morton Printing Co.....	do.....	10.30
	Jacob J. De Forest.....	do.....	.50
20	H. Welter.....	do.....	55.90
	T. H. Castor & Co.....	do.....	13.04
28	D. Van Nostrand Co.....	do.....	13.00
Nov. 1	Chas. E. Lauriat Co.....	do.....	8.25
	American Ornithologists' Union.....	do.....	2.30
	The Chemical Publishing Co.....	do.....	7.50
	The Bowen-Merrill Co.....	do.....	5.00
5	Home Science Publishing Co.....	do.....	15.05
	D. E. Salmon.....	do.....	9.00
8	Wm. Ballantyne & Sons.....	do.....	12.00
	do.....	do.....	61.03
17	Lemcke & Buechner.....	do.....	8.75
	W. F. Adams, manager.....	do.....	8.40
	Clay Record Publishing Co.....	Subscription.....	1.00
	American Berkshire Association.....	Books.....	5.00
	J. N. Rose.....	do.....	5.25
19	Wm. Ballantyne & Sons.....	do.....	35.41
20	Edgar Buckingham.....	do.....	153.00
	R. B. Hough.....	do.....	5.00
22	E. Morrison Paper Co.....	Trunk board.....	6.72
	Lemcke & Buechner.....	Books.....	80.92
	do.....	do.....	30.58
	do.....	do.....	20.96
	Gustav E. Stechert.....	do.....	5.40
Dec. 2	Chas. R. Dodge.....	do.....	110.00
	Statute Law Book Co.....	do.....	4.50
	Lemcke & Buechner.....	do.....	75.75
4	W. Junk.....	do.....	67.87
5	Jno. Wheldon & Co.....	Book.....	2.04
8	Eyre & Spottiswoode.....	Books.....	32.92
	R. Friedlander & Sohn.....	do.....	53.10
	Gustav E. Stechert.....	do.....	12.50
12	The Lawyers' Cooperative Publishing Co.....	do.....	23.50
	Gaylord Bros.....	Adhesive paper.....	1.50
	A. Goossens.....	Book.....	6.00
	Dodd, Mead & Co.....	do.....	6.00
	Martinus Nijhoff.....	Books.....	31.50
16	Lucian H. Dorbon.....	do.....	15.15
17	Municipal Engineering Co.....	Book.....	2.00
	Martinus Nijhoff.....	Books.....	25.00
	Edwd. L. Greene.....	do.....	2.00
	Total second quarter.....		1,346.32
1903.			
Jan. 5	Wm. F. Clay.....	Books.....	66.31
	R. Carter Ballantyne.....	Fountain pen.....	2.50
6	The Field and Farm.....	Subscription.....	2.00
	California Fruit Grower.....	do.....	2.00
	H. E. Hooper.....	Atlas.....	8.75
	A. L. A. Publication Board.....	Catalogue cards.....	6.20

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## LIBRARY—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Jan. 13	W. H. Lowdermilk & Co	Books	\$298.04
15	G. E. Stechert	Dictionary	7.00
	Lemcke & Buechner	Books	6.56
	do	do	2.76
	do	do	13.35
	do	do	28.09
	do	do	33.17
	Historical Publishing Co	do	12.00
	The Friedenwald Co	Manila tag	3.45
	Gustav Fock	Books	11.40
	R. Friedlander & Sohn	do	45.81
	Jno. Wheldon & Co	do	100.00
	The Journal of Complete Medical and Veterinary Archives.	Book	6.00
	Out West Co	do	1.00
	Charles L. Smith	do	2.84
16	E. Bonbee	Books	50.00
17	A. Challamel	do	12.45
	R. R. Bowker	do	1.50
21	Brentano's	do	6.00
22	Library Bureau	Cabinet and file	59.90
24	R. Friedlander & Sohn	Books	17.89
	West Publishing Co	do	18.00
	M. A. Howe	Index cards	9.43
	E. W. Bullinger	Book	3.70
	C. H. Clayton & Co	Books	13.00
	Chas. L. Pollard	do	1.00
26	Lemcke & Buechner	do	61.45
Feb. 2	H. V. and H. W. Poor	Book	10.00
	Jno. C. Parker	City directories, etc	123.00
16	Dodd, Mead & Co	Books	16.80
	The Arthur H. Clark Co	do	6.50
17	Lemcke & Buechner	do	139.59
	do	do	23.12
	do	do	23.29
	do	do	43.25
	do	do	59.60
	Smithsonian Institution	do	8.50
19	Wm. Ballantyne & Sons	do	31.65
	Latham & Co	do	1.50
	Gustav E. Stechert	do	49.83
26	H. Welter	do	3.20
	Mayer & Müller	do	73.00
Mar. 3	N. Murray	do	5.00
	R. L. Polk & Co	do	6.00
	Journal American Medical Association	do	5.00
4	Lemcke & Buechner	do	44.30
9	H. C. Patterson	do	266.00
	Industrial Record Co	Subscription	2.00
14	D. Van Nostrand Co	Parry pigments	5.00
	New England Botanical Club	Subscription	1.00
	Out West Co	do	1.00
	Harry T. Sherman	Books	2.38
	H. Clay Evans	do	1.10
	Martinus Nijhoff	do	51.18
16	Lemcke & Buechner	do	1,059.05
20	Rand, McNally & Co	Prairie Farmer	1.00
	T. H. Castor & Co	Books	13.04
20	Lemcke & Buechner	do	10.02
	do	do	29.96
	Total third quarter		3,029.41
Apr. 2	Wm. R. Jenkins	Book	1.50
	The Engineering News Publishing Co	Subscription	5.00
	A. Hermann	Books	36.94
3	A. L. A. Publishing Board	Cards	2.60
	Joseph C. Cree	Book	2.50
14	Vinton & Co. Limited	Books	20.14
	The Arthur H. Clark Co	Book	2.50
17	R. Friedlander & Sohn	Books	24.86
	do	do	77.43
	The University of Chicago Press	Botanical Gazette	4.00
23	Oswald Weigel	Book	5.06
	Willard N. Clute & Co	do	1.25
	Lawyers' Cooperative Publication Co	do	6.00
	Alessandro Trotter	Books	22.97
27	W. Junk	do	280.10
May 15	Gustav E. Stechert	do	30.05
	Lemcke & Buechner	do	15.77

## 8 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## LIBRARY—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
May 18	R. R. Bowker .....	Catalogue .....	\$3.00
	National Railway Publishing Co .....	Guide .....	8.00
20	Paul Klincksieck .....	Book .....	117.60
June 9	Chas. R. Dodge .....	Magazine .....	20.00
	The Washington Post Co .....	Subscription .....	6.00
	Canterbury Publishing Co .....	Cyclopædia .....	7.00
10	W. H. Lowdermilk & Co .....	Reference book .....	49.50
	do .....	do .....	188.68
12	Wm. Ballantyne & Sons .....	Almanac, etc .....	61.78
17	Gustav E. Stechert .....	Books .....	22.53
	do .....	do .....	2.52
	do .....	Catalogue .....	2.50
19	Library Bureau .....	Guides .....	6.00
	Journal of Complete Medical and Veterin- ary Archives .....	Book .....	3.00
	Chas. F. Batchelder .....	do .....	2.00
	The Universal Press .....	do .....	3.00
	Addison E. Verrill .....	do .....	4.00
	The Arthur H. Clark Co .....	do .....	2.50
	Floral Publishing Co .....	Subscription .....	1.00
	The Sun Printing and Publishing Assn .....	do .....	8.00
	Judson E. Hoyt .....	Book .....	.50
	The Lawyers' Cooperative Publishing Co .....	do .....	6.00
	The Journal of Medical Research .....	do .....	1.00
	The Baker & Taylor Co .....	Dictionary .....	8.50
	T. H. Castor & Co .....	Book .....	6.52
	Gaylord Bros .....	Paper .....	.75
	W. Junk .....	Book .....	21.86
	Forest and Stream Publishing Co .....	Subscription .....	1.00
23	Smithsonian Institution .....	Book .....	4.95
24	American Book Co .....	Books .....	15.40
25	Eckstein & Widenmann .....	do .....	28.50
	Total fourth quarter .....		1,152.26
	<i>Supplemental.</i>		
July 7	Brentanos .....	Books .....	5.40
11	J. C. Parker .....	Official Railway Guides .....	16.00
13	R. R. Bowker .....	Catalogues .....	5.00
	Silk Publishing Co .....	Book .....	1.00
15	A. M. Smith .....	Subscription .....	1.00
	Bureau International .....	Books .....	27.89
	H. Welter .....	do .....	3.00
	G. E. Stechert .....	do .....	6.85
16	Wm. Ballantyne & Sons .....	Reference books .....	6.15
	do .....	Almanacs, etc .....	82.21
	H. C. Patterson .....	Books .....	24.50
20	Wm. Wesley & Son .....	do .....	167.83
	do .....	Manuals, etc .....	136.18
	do .....	Books .....	48.00
22	Martinus Nijhoff .....	do .....	72.70
27	A. L. A. Publishing Board .....	Cards .....	.36
29	Lemcke & Buechner .....	Books .....	3.90
Aug. 17	G. E. Stechert .....	do .....	4.25
	Lemcke & Buechner .....	do .....	47.22
	do .....	do .....	58.93
19	Wm. Brough & Son .....	do .....	35.70
	Wm. Wesley & Son .....	do .....	4.50
	The A. H. Clark Co .....	do .....	2.50
	Gustav Fock .....	do .....	5.35
26	F. E. Lloyd .....	do .....	1.00
Sept. 10	Wm. Ballantyne & Sons .....	do .....	6.40
	do .....	do .....	7.00
	Lemcke & Buechner .....	Magazine .....	38.45
24	H. Welter .....	Book .....	3.94
Oct. 23	Gustav E. Stechert .....	Books .....	2.34
	Frank P. Bennett .....	Shepherds Bulletin .....	1.00
	Total .....		826.55

## RECAPITULATION.

First quarter .....	\$898.16
Second quarter .....	1,346.32
Third quarter .....	3,029.41
Fourth quarter .....	1,152.26
Supplemental .....	826.55
Total .....	7,252.70

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## CONTINGENT EXPENSES.

Date.	Name.	Nature of payment.	Total.
1902.			
July 8	Washington City post-office	Stamps	\$1,000.00
17	E. Morrison Paper Co.	Record book	1.00
19	Geo. Meier & Co.	Bronze	8.00
10	S. P. Johnson	Roller	7.50
	Lamb & Tilden	Stamps and ink	25.20
22	The American News Co	Clips	9.55
	Capital Traction Co.	Car tickets	41.50
25	G. W. Todd & Co.	Photographs	30.00
	Eberhard Faber	Bands	346.12
	Wolf Bros	Envelopes	13.08
	Eureka Blotter Bath Co.	Copying bath, etc	22.70
26	S. P. Johnson	Densmore typewriter	69.75
	The Hammond Typewriter Co	Typewriter stand	3.50
	American Writing Machine Co	do	3.50
	Wyckoff, Seamans & Benedict	Typewriter and stand	101.75
28	M. Du Perow	Plugs, etc.	5.10
	Wm. H. Dyer	Molding	1.62
	Jno. R. Galloway	Fans	28.00
	Chas. Becker	White lead	28.00
	Hugh Reilly	Shellac	1.80
	The Bunnell Telegraph and Electric Co.	Wire	2.04
	The Okonite Co. (Limited)	do	21.80
31	Jas. Halley et al.	Salaries	292.00
Aug. 1	The A. J. Joyce Carriage Co.	Repairing carriage	49.00
	Wyckoff, Seamans & Benedict	Repairing typewriter	17.50
4	Jas. N. Rupp	Ink, etc	52.25
	American Cycle Manufacturing Co	Bicycle	40.00
	American Writing Machine Co	Paper	45.00
	Church & Stephenson	Flooring, etc	80.96
	M. T. Walker Brick Co	Brick	4.25
	J. Underwood & Co	Paper	37.60
5	J. H. Brigham	Traveling expenses	6.45
	Wm. S. Canatscy	Horse	200.00
6	E. Morrison Paper Co.	Paper	2.40
	do	Book	1.35
8	Wm. B. Moses & Sons	Matting, etc	155.32
	Woodward & Lothrop	Desks	79.50
	National Mortar Co.	Mortar	39.06
	J. T. Thomson	Paper, etc	18.00
	C. Becker	Bridle, etc	22.40
	Depue & Church	Oats, etc	71.20
11	Jasper Wilson	Traveling expenses	109.29
	The Burnet Co	Batteries	19.00
	American Ice Co	Ice	186.68
14	Yawman & Erbe Manufacturing Co	Cards	7.95
	Pearre E. Crowle Co	Rubber for stamps	88.21
	do	Molding compound	6.00
16	R. L. Saunders	Care of horses	20.00
	The American News Co	Blotters	10.69
	Wolf Bros	Envelopes	44.50
18	Pennsylvania R. R. Co.	Passenger transportation	12.75
19	R. Carter Ballantyne	Pens	50.43
	do	Paper, etc.	323.15
	Ernest Betz	Repairs to roof	71.85
	The Allegheny Co.	Coal	20.28
26	Rudolph, West & Co.	Tires, etc	83.39
	P. G. Reed	Roach powder	15.60
	Jas. B. Lambie	Hardware	79.45
	Neely Electric Co	Tubes, etc	22.86
	Geo. F. Muth & Co	Brushes, oils, etc	73.30
21	The Chadwick Copying Book Co	Letter books	220.80
23	Jas. Wilson	Traveling expenses	209.56
	The Press Clipping Bureau	Clippings	25.00
26	Emery Davis	Inkstands, etc	12.60
	The Maurice Joyce Engraving Co.	Plate	.50
	do	do	1.00
	Jno. C. Parker	Stationery supplies	431.63
	Louis Hartig	Steel	4.62
	The J. C. Ergood Co	Pearline	17.25
	S. P. Johnson	Repairs to typewriter	5.80
	Thos. Somerville & Sons	Plumbers' supplies	12.22
	Capital Traction Co.	Tickets	41.50
	Washington Gaslight Co.	Gas	17.30
	United States Electric Lighting Co	Electric current	83.06
	Pennsylvania R. R. Co.	Passenger transportation	18.75
	E. G. Schafer & Co	Disks, etc	23.29
28	The American News Co	Clips	57.80
30	Jas. Halley et al	Salaries	315.00
Sept. 5	E. F. Vermillion	Inspecting boilers	20.00
	J. H. Brigham	Traveling expenses	32.80

10 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

CONTINGENT EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Sept. 6	Clark & Davenport	Linoleum	\$159.60
	The Press Clipping Bureau	Clippings	25.00
	Eberhard Faber	Bands	28.29
	United States Envelope Co	Envelopes	75.00
	Robachers Disinfectant Co	Powder	15.00
	J. Baumgarten & Sons	Numbering machine	9.33
	Lamb & Tilden	Dating stamps	7.00
	American Cycle Manufacturing Co	Repairs to bicycles	6.50
	Depeue & Church	Feed	169.70
10	The A. J. Joyce Carriage Co	Repairs to surrey	198.50
	Church & Stephenson	Lumber	1.60
11	W. B. Moses & Sons	Furniture	134.84
12	American Ice Co.	Ice	180.74
	J. D. Frazee	Washing towels	20.39
	do	do	19.67
	Jas. Murphy	Repairs to stable	10.00
17	Jas. Wilson	Traveling expenses	80.96
	H. K. Mulford Co	Medicine	1.88
	Family Shoe Store	Paste	.50
	Thos. Somerville & Sons	Plumbers' materials	9.54
	do	do	9.93
	P. H. Heiskell, jr., & Co	Wheelbarrow, etc	16.50
	Rudolph, West & Co	Shears, etc	122.80
	C. F. Curtiss	Horses	500.00
18	Boston and Maine R. R. Co.	Passenger transportation	2.80
	Chicago, Milwaukee and St. Paul Rwy. Co.	do	23.00
	Johnson Bros	Coal	367.94
	The Geo. W. Knox Express Co.	Transportation	.75
19	Jno. C. Parker	Carbon paper	23.00
	D. Frank Parker	Typewriter paper, etc	320.84
	Jas. Norman Rupp	Ink	4.00
20	W. B. Moses & Sons	Furniture, etc	132.28
	Barber & Ross	Nails	10.40
	C. Becker	Supplies	25.15
	Geo. F. Muth & Co.	Buckets, etc.	70.87
	National Mortar Co.	Cement	3.44
	J. T. Thomson	Stamping paper	36.00
23	J. P. Nawrath	Tape	7.50
24	Geo. W. Hill	Traveling expenses	5.65
	R. P. Andrews & Co. (Incorporated)	Manila paper	250.00
	M. G. Copeland Co.	Flags	63.21
	Jno. C. Parker	Ink, etc.	38.80
	Armour & Co.	Soap	8.00
25	M. Du Perow	Electric supplies	5.40
	Hammond Typewriter Co	Shields	.50
	The Geo. W. Knox Express Co.	Transportation	2.41
26	The Pullman Co.	Passenger transportation	3.00
	Boston and Maine R. R. Co.	do	9.20
	Pennsylvania R. R. Co	do	12.75
30	Jas. Halley et al	Salaries	253.00
	Total first quarter		9,243.77
Oct. 1	C. Becker	Supplies	235.30
	United States Envelope Co	Envelopes	196.70
4	Washington City post-office	Stamps	500.00
	Depeue & Church	Feed	127.60
	The A. J. Joyce Carriage Co	Repairs to wagons	83.00
6	United States Envelope Co	Envelopes	27.10
	Instantaneous Fire Alarm Co	Rent of boxes	15.00
	The Allegheny Co	Coal	112.81
7	American Ice Co	Ice	144.12
10	W. B. Moses & Sons	Repairing chairs	6.75
	do	Linoleum	35.50
	Z. D. Gilman	Soap, etc	5.92
11	E. G. Schafer & Co	Packing	12.50
14	Johnson Bros	Wood	116.00
15	American Cycle Co	Bicycle, etc	41.75
	District of Columbia Paper Manufacturing Co.	Blotting paper	154.80
	Jno. C. Parker	Carbon paper	23.90
16	I. P. Roosa	Services	100.00
	Eberhard Faber	Bands, etc	196.91
	The Press Clipping Bureau	Clippings	25.00
17	Jas. B. Lambie	Glue	6.25
	Thos. Somerville & Sons	Brushes, etc	4.50
	do	Plumbers' supplies	15.95
21	Rudolph, West & Co	Halyards, etc	14.61
	D. Frank Parker	Typewriter paper	134.50
23	J. P. Nawrath	Twine	18.20



Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## CONTINGENT EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Oct. 23	Chas. Becker	White lead	828.00
	R. Carter Ballantyne	Pens, etc	43.47
	The M. Lindsay Rubber Co.	Boots	3.50
	National Electrical Supply Co.	Electric supplies	8.24
	Chas. R. Edmonston	Glasses, etc	17.25
	The Allegheny Co.	Coal	141.36
	Capital Traction Co.	Tickets	41.50
24	Hugh Reilly	Turpentine, etc	57.89
25	C. B. Lukens	Painting flag pole	7.00
	Francis Miller	Paints	8.25
	Wyckoff, Seamans & Benedict	Repairs	15.50
	W. M. Galt & Co.	Oats and hay	64.22
28	Jas. N. Rupp	Ink	29.40
	Allen's Press Clipping Bureau	Clippings	24.00
29	Mackall Bros	Soap, etc.	42.65
	Woodward & Lothrop	Brushes, etc	33.06
	J. T. Thomson	Stamping	59.40
31	James Halley et al	Salaries	241.00
Nov. 1	J. P. Nawrath	Twine	7.00
3	W. M. Galt & Co.	Feed	72.09
	Woodward & Lothrop	Towels	65.00
	F. A. von Reuth	Shade fixtures	1.50
	R. P. Andrews & Co. (Incorporated)	Pencils	52.43
	American Cycle Manufacturing Co.	Repairs to bicycle	3.22
4	The Geo. W. Knox Express Co.	Transportation	1.15
	Washington Gaslight Co.	Gas	19.70
	do	do	17.20
	United States Electric Lighting Co.	Lights, fans, etc	66.33
	do	do	90.30
5	E. G. Schafer & Co.	Steam traps	22.43
6	Z. D. Gilman	Oil	.35
	Rudolph, West & Co.	Sash cords, etc	14.03
10	F. L. Evans	Traveling expenses	72.20
13	R. Carter Ballantyne	Pens, etc	74.36
	Church & Stephenson	Lumber	38.94
17	The Hahn Manufacturing Co.	Horseshoes	47.50
	Ernest Betz	Repairs to carriage house	13.00
	The Press Clipping Bureau	Clippings	25.00
	The A. J. Joyce Carriage Co.	Supplies for carriage house	273.50
	The Maurice Joyce Engraving Co.	Plate	.50
	M. Du Perow	Electric supplies	7.80
	C. Becker	Supplies for carriage house	69.25
	do	do	12.10
	Woodward & Lothrop	Soap, etc.	34.21
	G. Taylor Wade	Carrots	3.00
18	Chicago and Northwestern Rwy. Co.	Passenger transportation	9.80
	The Pullman Co.	do	9.50
19	The Bush Soap Co.	Soap	18.75
	Lamb & Tilden	Dating stamp	7.00
	J. H. Brigham	Traveling expenses	17.00
	Wyckoff, Seamans & Benedict	Ribbons	2.75
	Thos. Somerville & Sons	Pipe, etc	.45
20	Pennsylvania Co.	Passenger transportation	17.50
	Mackall Bros	Soap	26.50
	W. B. Moses & Sons	Rugs	38.64
	do	Furniture	72.83
	Geo. F. Muth & Co.	Paints, etc	17.55
	do	Putty	1.75
21	The Allegheny Co.	Coal	77.88
	Hugh Reilly	Glass, etc	7.00
	Church & Stephenson	Lumber	35.80
	do	do	93.12
	Harris & Shafer	Clocks	27.75
	Potomac Electric Power Co.	Lights and fans	67.15
	American Ice Co.	Ice	117.88
	The Allegheny Co.	Coal	101.33
	National Electrical Supply Co.	Pole steps	1.25
22	D. Frank Parker	Brushes	9.00
	E. Morrison Paper Co.	Notebooks	2.20
	C. Schneider's Sons	Repairs to safe lock	1.50
	United States Envelope Co.	Envelopes	35.25
	Pearre E. Crowl Co.	Gluten	1.50
28	Theo. Schondau & Co.	Horseshoes	38.25
29	Jas. Halley et al	Salaries	284.00
Dec. 1	A. P. Johnston	Bailey's Compendium	20.00
2	Jno. C. Parker	Stationery supplies	529.86
4	Jas. Wilson	Traveling expenses	95.60
	The A. J. Joyce Carriage Co.	Axle grease	1.50
5	Capital Traction Co.	Tickets	41.50
	Wm. M. Galt & Co.	Feed	128.05

12 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

CONTINGENT EXPENSES—Continued.

Date	Name.	Nature of payment.	Total.
1902.			
Dec. 5	Jas. N. Rupp	Ink, etc	\$11.00
	Walker & Hazleton	Repairing bicycle	2.50
	Wm. H. Lacy	Plastering	10.00
	Barber & Ross	Key blanks	1.00
8	Chadwick Copying Book Co	Copying books	33.00
	Johnson Bros	Wood	119.10
10	Yawman & Erbe Manufacturing Co	Card section, etc	38.75
	Theo. Schondau & Co	Horseshoes	11.25
	W. B. Moses & Sons	Shades, etc	119.50
	Ernest Betz	Repairs	6.20
	Wyckoff, Seamans & Benedict	Repairs to typewriter	28.80
	American Ice Co	Ice	93.31
12	Rudolph, West & Co	Traps	22.06
	Woodward & Lothrop	Desks	47.20
	Hugh Reilly	Glass	3.70
	The Press Clipping Bureau	Clippings	25.00
13	The McDermott Carriage Co	Repairs to wagon	52.25
16	Albert Kahler & Co	Sewing carpets, etc	93.55
19	The Pennsylvania R. R. Co	Passenger transportation	19.00
20	J. D. Frazee	Washing towels	22.25
31	Jas. Halley, et al	Salary	283.00
	Total second quarter		7,324.26
1903.			
Jan. 3	Instantaneous Fire Alarm Co	Rent, boxes	15.00
	Wm. J. Zeh	Coal	293.16
5	I. P. Roosa	Services	100.00
	The Chesapeake and Potomac Telephone Co	Poles	50.00
	Potomac Electric Power Co	Lights and fans	65.64
	The Geo. W. Knox Express Co	Transportation	.60
	E. Morrison Paper Co	Manila paper	8.40
	Forsberg & Murray	Repairs	14.14
	P. H. Heiskell, jr., & Co	Horse covers	12.00
6	American Electric Heater Co	Soldering irons	4.80
7	J. D. Frazee	Washing towels	23.73
8	Jas. B. Lambie	Hammer, etc	1.07
12	W. B. Moses & Sons	Desks	79.46
	The J. C. Ergood Co	Matches	10.20
	do	Pearline	17.25
	Lamb & Tilden	Pads	6.69
	M. Du Perow	Electric supplies	30.12
	Densmore Typewriter Co	Repairs to typewriter	5.50
	M. G. Copeland Co	Flag holder, etc	3.00
	Theo. Schondau & Co	Horseshoes	14.00
	D. F. Parker	Typewriter paper, etc	15.20
	Wm. H. Dyer	Repairs	25.00
	Wyckoff, Seamans & Benedict	do	15.25
	Church & Stephenson	Sash frames	75.47
	do	Lumber	26.85
	Geo. F. Muth & Co	Paints, etc	13.25
	Rudolph, West & Co	Feather dusters	65.05
	American Ice Co	Ice	86.06
13	Woodward & Lothrop	Furniture	104.85
	Thos. Somerville & Sons	Fittings	24.59
	do	Boiler compound	56.40
	F. P. May & Co	Scale	9.00
	Thos. W. Smith	Door	2.91
	Forsberg & Murray	Boiler	45.00
	W. M. Galt & Co	Feed	138.35
15	M. P. Bush	Soap	22.50
	The Press Clipping Bureau	Clippings	25.00
	Library Bureau	Index	.75
	The R. H. Smith Manufacturing Co	Stamp handles	14.13
	The Okonite Co. (Limited)	Wire	27.78
17	Jno. Underwood & Co	Carbon paper	37.60
19	I. P. Roosa	Expenses	58.40
21	Chas. Edmonston	Soap dishes	1.40
	E. G. Shafer & Co	Pipe	87.59
	Hugh Reilly	Glass	1.24
	do	do	19.18
	C. Becker	Blankets, etc	26.75
	The Smith Premier Typewriter Co	Repairs	.75
	Ernest Betz	Repairs to roof	4.45
	Wm. J. Zeh	Coal	602.14
	Potomac Electric Power Co	Current	95.93
	Washington Gaslight Co	Gas	25.90
	do	do	28.00
	do	do	39.40
	The Geo. W. Knox Express Co	Transportation	.75

## Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## CONTINGENT EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Jan. 21	Smithsonian Institution	Transportation	\$436.65
	W. M. Galt & Co	Feed	65.80
22	The Andrew J. Joyce Carriage Co	Repairs to wagon	46.00
	United States Envelope Co	Envelopes	3.36
	Blue Line Transfer Co	Transportation	.75
	Postal Telegraph Cable Co	Service	3.15
	J. D. Frazee	Washing towels	22.94
	do	do	21.50
	Capital Traction Co.	Fare tickets	18.50
23	M. Du Perow	Electric supplies	34.13
24	Allen's Press Clipping Bureau	Clippings	24.00
	Imperial Brush Co	Brushes	10.75
	E. S. Newman	Paper	2.00
	The J. C. Ergood Co.	Lye, etc	86.70
	J. H. Brigham	Traveling expenses	14.65
	Wm. M. Galt & Co	Oats	27.30
	Grand Trunk Rwy. Co	Passenger transportation	6.07
26	The Lake Shore and Michigan Southern Rwy. Co.	do	18.75
	Pennsylvania Co	do	24.50
27	Pennsylvania Railroad Co	do	17.00
28	Geo. F. Muth & Co.	Hard-oil finish, etc	34.75
29	National Mortar Co.	Cement	3.44
	Jno. C. Parker	Stationery supplies	229.28
	Standard Oil Co	Oil	6.00
31	Jas. Halley et al	Salaries	163.60
Feb. 2	R. Carter Ballantyne	Stationery supplies	106.75
	W. M. Galt & Co.	Hay, etc	83.57
4	J. M. Thorpe	Ink	6.00
	Barber & Ross	Nails, etc	6.00
	Z. D. Gilman	Vaseline	.40
	The C. J. McCubbin Co	Lavatory	10.50
6	Theo. Schondau & Co	Shoeing horse	12.25
7	Clark & Davenport	Carpets	308.14
	Geo. E. Redell	Repairing chairs	5.00
	J. B. Kendall	Pads	9.60
9	United States Express Co	Transportation	23.07
	W. B. Moses & Sons	Chairs, etc	67.96
	Rudolph, West & Co	Ladders, etc	30.89
	Mackall Bros	Soap	28.25
	E. Morrison Paper Co	Cover paper	1.00
	Francis Miller	Drop black	3.00
	Thos. Somerville & Sons	Valves, etc	13.09
	Geo. E. Howard & Co	Paper boxes	1.20
	The Geo. W. Knox Express Co	Transportation	1.67
11	American Ice Co	Ice	78.00
12	Adams Express Co	Transportation	1.95
14	Kellogg Switchboard and Supply Co	Telephone supplies	30.85
	The Fred Macey Co. (Limited)	Sections, etc	46.80
	Chas. R. Edmonston	Hampers, etc	28.68
16	The Geo. W. Knox Express Co	Transportation	.50
	The Allegheny Co.	Coal	515.72
	J. P. Nawrath	Sponge	7.45
	The Gibson Soap Co.	Soap powder	6.00
	The Press Clipping Co	Clippings	25.00
17	The American News Co	Folders, etc	23.36
	The Allegheny Co.	Coal	1,691.86
	Lamb & Tilden	Dating stamps	2.35
	Harris & Shafer Co	Clocks, etc	30.50
	Jas. N. Rupp	Scrapbooks, etc.	7.65
18	D. Frank Parker	Typewriter paper	119.95
	Neely Electric Construction Co	Bushings	.40
19	W. M. Galt & Co	Oats, etc	30.00
	Pennsylvania Co	Passenger transportation	17.50
20	Jno. C. Parker	Knives	.65
	D. Frank Parker	Ribbons	112.50
	Johnson Bros	Wood and coal	1,222.97
25	M. Du Perow	Brackets	1.76
28	Jas. Halley et al	Salaries	147.80
Mar. 3	The Burnett Co.	Batteries	9.50
	W. H. Dyer	Molding	.75
	R. P. Clark Co	Towels	37.00
	Chas. Becker	White lead	11.20
	The Chesapeake and Potomac Telephone Co.	Service	104.00
	do	do	93.54
	do	Moving telephone	2.19
5	Hugh Reilly	Glass	1.87
	do	do	1.56
	do	do	1.56

14 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

CONTINGENT EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Mar. 5	W. H. Dyer	Lumber	\$5.50
	R. Carter Ballantyne	Inkstands	6.50
	Potomac Electric Power Co	Lamps	30.80
	do	Electric current	105.10
	W. M. Galt & Co	Feed	84.77
9	Theo. Schondau & Co	Horseshoes	9.50
	The Andrew J. Joyce Carriage Co	Rubber apron	6.00
	Ernest Betz	Repairing roof	52.00
11	Yawman & Erbe Manufacturing Co	Cabinet	5.25
	American Cycle Manufacturing Co	Repairs to bicycle	7.55
	National Electric Supply Co	Shade holders	2.50
	W. B. Moses & Son	Chairs, etc	14.52
	American Ice Co	Ice	73.06
12	The Kellogg Switch Board and Supply Co.	Telephone apparatus	269.48
	do	Installing telephones	1,783.29
14	Eberhard Faber	Bands and erasers	115.32
	The Press Clipping Bureau	Clippings	25.00
	W. H. Lacy	Plastering	10.00
	Woodruff Manufacturing Co	Cabinet	84.85
	Church & Stephenson	Lumber	1.92
	W. M. Galt & Co	Feed	29.16
16	Capital Traction Co	Fare tickets	41.50
17	M. Du Perow	Electric supplies	14.37
18	C. Becker	Harness oil	2.40
	do	Supplies for stable	14.65
19	Rudolph, West & Co	Gas stove	6.55
	Johnson Bros	Wood and coal	882.70
	Woodward & Lothrop	Towels, etc	266.29
20	J. T. Holcomb Manufacturing Co.	Dust brushes	39.00
23	E. Faber	Pencils	7.20
	Potomac Electric Power Co	Current	108.30
25	W. M. Galt & Co	Feed	63.46
26	The Chesapeake and Potomac Telephone Co.	Moving telephone	2.55
	do	Changing switch board	61.53
	do	Moving telephone	3.00
	Washington Gaslight Co.	Gas	44.30
	do	do	48.50
	Louis Hartig	Horseshoes	20.00
	Jas. Halley et al.	Salaries	163.60
	Total third quarter		13,542.68
Apr. 1	Instantaneous Fire Alarm Co.	Rent boxes	15.00
2	C. A. Schneider's Sons	Cover	4.00
	Louis Hartig	Iron	2.54
	Z. D. Gilman	Vaseline	.60
	Jno. C. Parker	Stationery supplies	218.85
	Jas. Wilson	Traveling expenses	29.00
3	Woodward & Lothrop	Towels and mops	35.38
	W. B. Moses & Sons	Furniture, etc	22.82
	Littlefield, Alvord & Co	Transportation	1.57
	W. M. Galt & Co.	Straw	16.50
4	I. P. Roosa	Services	100.00
6	Johnson Bros	Coal and wood	840.80
	Ernest Betz	Rain spout	14.60
7	J. B. Kendall	Curry pads	7.40
	Barber & Ross	Shovel, etc	3.55
	Rudolph, West & Co	Hardware	47.94
	The J. C. McCubbin Co	Gasoline torch	2.50
	American Ice Co	Ice	91.10
10	W. M. Galt & Co	Oats	28.20
11	Wyckoff, Seamans & Benedict	Adjusting typewriter	.50
	Jas. B. Lambie	Punches	1.96
	do	Nails, etc	49.67
13	Hugh Reilly	Gasoline	1.60
	E. G. Schafer & Co	Gum packing	1.50
	Hugh Reilly	Turpentine, etc	39.05
14	Geo. Meier & Co.	Bronze	7.00
	J. P. Nawrath	Twine	7.00
	The Okonite Co., Ltd.	Wire	11.50
	The Pullman Co.	Passenger transportation	3.00
16	The Press Clipping Bureau	Clippings	25.00
17	Thos. Somerville & Sons	Plug cock	3.38
	Jas. N. Rupp	Ink, etc	5.50
	Theo. Schondau	Horseshoes	9.75
	M. Du Perow	Shades, etc	15.48
	J. D. Frazee	Laundry	72.86
18	W. H. Lacy	Plastering	10.00

*Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.*

## CONTINGENT EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Apr. 18	The Lake Shore and Michigan Southern Railway Co.	Passenger transportation.....	\$3.78
	Baltimore and Ohio R. R. Co.	do.....	13.50
	The Pennsylvania R. R. Co.	do.....	12.75
20	Washington City Post-Office	Stamps.....	5.00
22	New York Cycle Co.	Pedal for bicycle.....	1.25
	W. M. Galt & Co.	Feed.....	64.00
23	The Hoggson & Pettis Manufacturing Co.	Bath, etc.....	9.00
	The American News Co.	Blotters, etc.....	31.45
30	Jas. Halley et al.	Salaries.....	186.60
May 2	Z. D. Gilman	Arnica, etc.....	3.20
	W. B. Moses & Sons	Bookcase, etc.....	117.03
	James Wilson	Traveling expenses.....	148.00
	The Washington Post Co.	Advertising.....	2.10
8	M. Du Perow	Plugs.....	3.90
	Geo. F. Muth & Co.	Kalsomine, etc.....	39.05
	Jas. B. Lambie	Brass tubing.....	.85
	Washington Gaslight Co.	Gas.....	33.10
	Adams Express Co.	Transportation.....	12.25
	Yawman & Erbe Manufacturing Co.	Cards.....	7.95
	Mackall Bros.	Soap, etc.....	11.58
	Wyckoff, Seamans & Benedict	Repairs.....	.50
	J. T. Thomson	Stamping, etc.....	49.40
	Chas. R. Edmonston	Dishes, etc.....	7.52
	Rudolph, West & Co.	Hose, etc.....	14.85
	Woodward & Lothrop	Soap.....	20.37
	Postal Telegraph Cable Co.	Service.....	.40
	Potomac Electric Power Co.	Current.....	95.75
	United States Express Co.	Transportation.....	42.24
9	Jas. Wilson	Traveling expenses.....	39.25
15	The Burnett Co.	Batteries.....	9.50
	Wm. M. Galt & Co.	Oats, etc.....	43.80
16	W. H. Lacy	Repairing plastering.....	16.25
	Lamb & Tilden	Rack.....	3.80
	Thos. Somerville & Sons	Turning shank.....	1.80
	Ernest Betz	Lining letter chute.....	7.00
	The C. J. McCubbin Co.	Sink, etc.....	15.00
	E. G. Schafer & Co.	Pipes.....	77.02
	American Ice Co.	Ice.....	104.60
18	American News Co.	Clips.....	38.20
19	C. A. Muddiman & Co.	Hose racks.....	6.30
	The Okonite Co., Ltd	Wire.....	1.25
20	D. Frank Parker	Paper, etc.....	156.15
	Jno. C. Parker	Copyholder.....	2.00
	Wagner Typewriter Co.	Typewriter, etc.....	184.00
21	The Press Clipping Co.	Clippings.....	25.00
29	M. Du Perow	Silk cord, etc.....	1.53
31	Jas. Halley et al.	Salaries.....	221.80
June 5	The Fred Macey Co., Ltd	Legal blanks.....	6.60
6	Jno. C. Parker	Pins, etc.....	151.50
8	Jas. Wilson	Traveling expenses.....	145.09
9	Jas. N. Rupp	Pen.....	3.00
	Wagner Typewriter Co.	Typewriter.....	85.00
	Washington Gaslight Co.	Gas.....	22.80
	do	do.....	28.00
	Potomac Electric Power Co.	Current.....	85.52
	do	do.....	93.92
	The Chesapeake and Potomac Telephone Co.	Service.....	6.25
	do	do.....	74.36
	Capital Traction Co.	Ticket.....	4.00
	American Ice Co.	Ice.....	126.25
10	W. M. Galt & Co.	Oats.....	65.25
	Jas. Strasburger	Shoe paste.....	1.00
	The Press Clipping Bureau	Clippings.....	25.00
	C. Becker	Whip, etc.....	19.25
	Z. D. Gilman	Vaseline, etc.....	.85
	Mackall Bros.	Soap.....	23.95
	Barber & Ross	Blanks.....	1.80
	M. Du Perow	Socket bushing.....	.60
12	Thos. Somerville & Sons	Plugs, etc.....	52.44
	do	Washers, etc.....	11.29
	do	Valves, etc.....	66.50
	do	Air brakes, etc.....	41.69
	R. Carter Ballantyne	Pens and envelopes.....	31.63
	do	do.....	58.21
13	Johnson Bros.	Coal and wood.....	669.35
17	J. P. Nawrath	Twine.....	51.85
	Wolf Bros.	Envelopes.....	22.25
19	W. R. Walker	Repairs.....	10.00

16 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

CONTINGENT EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
June 19	J. J. Holcomb Manufacturing Co	Brushes	\$12.00
22	The Smith Premier Typewriter Co	Typewriter, etc	119.25
	The Washington Post Co	Advertisement	13.80
	R. C. M. Burton & Son	Awnings and hangings	321.80
23	W. B. Moses & Sons	Hassocks, etc	82.84
	Woodward & Lothrop	Desks	77.94
	Eberhard Faber	Office supplies	178.73
	United States Envelope Co	Envelopes	66.75
	Jno. Underwood & Co.	Ink	8.10
	Pantagraph Printing and Stationery Co.	File	4.75
	Library Bureau	Book supports	1.10
	Jas. B. Lambie	Scissors, etc	31.49
	The J. C. Ergood Co.	Brooms and candles	51.80
	Wyckoff, Seamans & Benedict	Typewriter, etc	101.75
	Clark & Davenport	Linoleum	40.75
	C. Schneider's Sons	Repairs to locks	2.00
	J. T. Walker's Sons	Line	.75
	W. M. Galt & Co.	Oats, etc	44.60
	The Tribune Association	Advertisement	25.40
	The Press Co	do	15.20
	Chas. C. Fulton & Co	do	10.80
	Tribune Co	do	21.60
	The Geo. W. Knox Express Co.	Transportation	4.70
	do	do	1.40
	Western Union Telegraph Co.	Services	11.64
24	E. D. Yerby	Traveling expenses	72.75
	Pennsylvania R. R. Co	Passenger transportation	8.00
	Southern Rwy. Co.	do	46.00
25	Baltimore and Ohio R. R. Co.	do	6.50
	Louisville and Nashville R. R. Co.	do	18.00
	Southern Rwy. Co.	do	18.50
	Theo. Schondau & Co	Horseshoes	11.00
	do	do	6.75
	Hugh Reilly		17.36
	Chas. Becker		50.40
24	D. Frank Parker	Typewriter ribbons	112.50
	M. G. Copeland Co	Awnings	10.85
	W. H. Dyer	Doors, etc	15.00
	E. G. Schafer & Co	Bibbs	9.20
	Rudolph, West & Co	Screens	62.68
	The Okonite Co. (Limited)	Electric supplies	172.50
	W. M. Galt & Co.	Oats, etc	63.10
	Capital Traction Co.	Fare tickets	20.75
	M. Du Perow	Supplies	110.11
	M. A. Tappan & Co	Revolver, etc	27.50
	Lamb & Tilden	Frame	2.75
	American Cycle Manufacturing Co.	Adjusting wheel	2.75
	Geo. Meier Co	Bronze	16.00
26	The Pennsylvania Co	Passenger transportation	34.00
	W. M. Galt & Co.	Corn	2.70
29	Thos. Somerville & Sons	Lead traps	1.30
30	Jas. Halley et al	Salaries	162.60
	Total fourth quarter		7,954.21
	<i>Supplemental.</i>		
July 2	I. P. Roosa	Salary	100.00
3	J. A. Clark	Traveling expenses	64.75
	The A. J. Joyce Carriage Co	Repairing carriage	45.00
7	The Evening Star Newspaper Co	Advertisement	1.65
	do	do	9.88
	The Washington Times	do	12.00
	Church & Stephenson	Lumber	58.00
	do	do	21.00
	do	do	44.00
8	The Washington Times Co	Advertisement	1.80
11	D. Frank Parker	Stencil paper, etc	131.75
	Jno. C. Parker	Paste, etc	281.33
	National Mortar Co.	Fire bricks	20.34
13	C. R. Edmonston	Buckets	13.65
	American Cycle Manufacturing Co	Tire on wheel	3.75
	Wyckoff, Seamans & Benedict	Typewriter, etc	92.87
	W. M. Galt & Co.	Oats	27.30
14	Geo. F. Muth	Varnish, etc	77.04
15	Yawman & Erbe Manufacturing Co	Index cards	16.80
16	W. B. Moses & Sons	Matting, etc	38.56
	Z. D. Gilman	Recipe	.50
	Barber & Ross	Iron level	1.40
	Thos. Somerville & Sons	Drills, etc	14.90
	Oregon Short Line R. R. Co.	Passenger transportation	17.40

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## CONTINGENT EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
<i>Supplemental—Continued.</i>			
1903.			
July 17	J. I. Shulte	Traveling expenses	\$241.17
	Theo. Shandan & Co	Horseshoes	9.75
20	Woodward & Lothrop	Bookcase, etc	38.10
	Mackall Bros	Soap	6.25
	Jas. Wilson	Traveling expenses	19.40
21	E. G. Schafer & Co	Screws	.83
	Albert Kahlert & Co	Cleaning carpets	94.66
	Rudolph, West & Co	Mops, etc	173.64
	Wagner Typewriter Co.	Typewriter	87.50
24	Kellogg Switchboard and Supply Co	Telephone apparatus	213.75
	Fred. A. Schmidt	Crayon pencils	1.00
	Clark & Davenport	Linoleum	47.88
25	Jno. Underwood & Co.	Copying ribbons	13.50
	C. Becker	Fly nets	32.75
29	The Chesapeake and Potomac Telephone Co.	Switchboard, etc	78.25
	do	Telephone service	6.25
	Washington Gas Light Co	Gas	21.50
	Potomac Electric Power Co	Electric current	102.90
	Johnson Bros	Coal	20.65
	do	do	245.00
	J. C. Parker	Desk baskets	44.50
30	The Press Clipping Bureau	Clippings	25.00
Aug. 4	Barber & Ross	Keys	1.45
	do	Rope	1.40
	Harris & Shafer Co	Clock and repairs	16.90
	R. C. Ballantyne	Pens	22.55
10	Inst. Fire Alarm Co	Rent boxes	10.00
12	American Ice Co	Ice	169.35
15	The Geo. W. Knox Express Co.	Transportation	11.13
	Rudolph, West & Co	Drilling machine	29.27
	The Chesapeake and Potomac Telephone Co.	Call to Baltimore, Md	.80
17	Yawman & Erbe Manufacturing Co	Card index case	5.50
21	Clark & Davenport	Linoleum	3.14
25	J. D. Frazee	Laundering towels	73.54
	Mackall Bros	Hair brushes	12.00
27	Johnson Bros	25 cords wood	116.00
	J. P. Nawrath	Pink tape	9.00
	Smithsonian Institution	Transportation of exchanges	334.30
28	John Foley, jr	Fountain pen	3.25
Sept. 4	The A. J. Joyce Carriage Co.	Repairs	30.00
11	do	Axle grease, etc	9.00
	C. E. Miller & Bro	Soap	2.00
18	Postal Telegraph Cable Co	Telegraph service	9.25
	Western Union Telegraph Co.	do	17.79
	The Oregon R. R. and Navigation Co	Transportation, passenger	16.15
	Pennsylvania R. R. Co.	do	23.50
19	Chicago and Northwestern Rwy. Co	do	71.23
	Union Pacific R. R. Co.	do	36.00
	The Missouri Pacific Rwy. Co	do	7.50
	Northern Pacific Rwy. Co	do	42.50
	New York Central and Hudson River R. R. Co.	do	9.25
	Baltimore and Ohio R. R. Co.	do	6.50
	Pere Marquette R. R. Co	do	6.07
28	C. W. Coggins & Co.	Safe	522.00
Oct. 10	Postal Telegraph Cable Co.	Telegraph service	29.38
	U. S. Express Co	Transportation	46.84
12	Geo. F. Muth & Co	Brush, etc	11.02
	Dulin & Martin Co	Jar	5.40
22	Library Bureau	Cards	7.50
31	Chicago and Northwestern Rwy. Co	Passenger transportation	7.88
	The Pullman Co.	do	36.00
	Northern Pacific Rwy Co.	do	60.00
	Total		4,481.50

## RECAPITULATION.

First quarter	\$9,243.77
Second quarter	7,324.26
Third quarter	13,542.68
Fourth quarter	7,954.21
Supplemental	4,481.50
Total	42,546.42

18 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

CONTINGENT EXPENSES SETTLED BY TREASURY.

Date.	Name.	Nature of payment.	Total.
1903.			
Apr. 28	Pennsylvania Railroad Co	Transportation	\$170.60
June 26	Atchison, Topeka and Santa Fe Rwy Co	Passenger transportation	5.90
July 28	Union Pacific Railroad Co	do	36.65
Sept. 21	Southern Pacific Co.	do	49.90
	do	do	27.60
	Total		290.65

LABORATORY.

1902.			
July 12	E. E. Ewell	Traveling expenses	\$90.32
19	Ernest Betz	Repairing machine	6.00
22	W. D. Bigelow	Expenses	99.22
23	F. C. White	Cans	9.00
25	Wyckoff, Seamans & Benedict	Typewriter	92.25
26	Arthur Given	Traveling expenses	2.75
	Yawman & Erbe Manufacturing Co	Perforators	4.00
	M. Du Perow	Paper, etc	2.20
28	National Mortar Co.	Cement	3.44
	E. G. Schafer & Co	Pipe	13.32
	Ernest Betz	Shaking machine	170.00
	Evans & Sons, Limited	Fly catchers	3.50
	Whitall Tatum Co	Flint	29.59
	Robert Green	Services	7.50
29	J. Ross Collins	Bags	16.50
30	Eimer & Amend	Anhydride	4.90
31	W. D. Bigelow et al	Salaries	2,141.90
Aug. 1	S. P. Johnson	Typewriter	69.75
8	Monticello Wine Co.	Corking machine	20.00
11	Church & Stephenson	Shelving, etc	23.73
	Eimer & Amend	Balance	33.00
12	W. D. Bigelow	Traveling expenses	21.35
14	W. B. Alwood	do	34.10
	J. F. Strauss	Drawings	7.50
	Arthur H. Thomas Co.	Pipettes	20.16
	Richards & Co	Dishes	7.28
19	Houghton & Delano	Photographic supplies	15.62
	P. Mann & Co	Feed cutters	3.25
	American Writing Machine Co	Stands	10.50
	Mackall Bros	Chemicals, etc	105.55
	Z. D. Gilman	Tubing	61.19
	do	Chemicals, etc	204.03
	G. T. Ennis	Castings	5.25
20	Rudolph, West & Co	Cotton waste	8.44
	E. J. Pullman	Kits with plates	1.10
	J. D. Johnson & Son	Rent	208.33
21	Eimer & Amend	Tubing	21.94
	Wm. B. Alwood	Salary	50.00
	The Hamilton Manufacturing Co	Cabinet	30.00
23	The American Distributing Co.	Alcohol	29.66
	Merck & Co	Chemicals	4.07
	Yawman & Erbe Manufacturing Co	Binding cases, etc	7.00
	Wolf Bros	Envelopes	1.34
	do	Envelopes	6.30
	Eimer & Amend	Hydrometer	29.50
	Richards & Co	Dishes	24.24
	Whitall Tatum Co	Jars, etc	17.64
	do	Bottles	11.21
	do	Beaker glasses	65.92
25	J. K. Haywood	Expenses	29.99
26	Neely Electric Co	Electric supplies	13.75
	American Writing Machine Co	Paper	22.50
	Standard Oil Co	Oil	.60
	Washington Gas Light Co	Gas	17.00
	United States Electric Lighting Co.	Current	6.48
	R. P. Clarke Co.	Toweling	10.00
	E. G. Schafer & Co	Packing	6.50
	Alex. Schmid	Boxes	3.14
	E. Morrison Paper Co.	Paper bags	1.15
	R. Carter Ballantyne	Pens	3.72
	Jas. B. Lambie	Hardware	2.74
	Jno. B. Espey	do	5.64
	E. J. Pullman	Plates	4.28
	do	do	1.95
	W. B. Moses & Sons	Oilcloth	1.50
	Thos. Somerville & Sons	Pipe, etc	19.12
30	W. D. Bigelow et al	Salaries	2,390.81
Sept. 5	Christian Becker	Balance	110.00
	Geo. P. Pilling & Son	Silver tube	2.07



Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## LABORATORY—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Sept. 5	The Okonite Co., Ltd.	Wire	\$1.50
	E. F. Vermillion	Inspecting boilers	5.00
	F. P. May & Co	Spatulas	7.00
	Jas. B. Lambie	Steel tape	4.00
	J. T. Walker & Sons.	Felt	1.40
	Capital Traction Co.	Tickets	5.00
	Z. D. Gilman	Flasks, etc	195.59
6	do	Chloride gold, etc.	107.01
	W. B. Alwood	Salary	50.00
	R. J. Davidson	do	50.00
	W. A. P. Moncure	do	50.00
10	Birch & Co.	Sugar	1.10
	Jos. L. Crupper	Blocks, etc	9.80
11	Hugh Reilly	Quill pencils	9.34
	Jas. B. Lambie	Belt lacings	2.70
	Z. D. Gilman	Chemicals	83.20
	E. G. Schafer & Co	Pipe, etc	18.28
	R. C. M. Burton	Awnings	11.80
	Barber & Ross	Nails	2.50
15	T. Brent Moore	Salary	154.84
16	J. Harrison Johnson & Son	Rent	208.33
17	Carey Machinery and Supply Co	Chucks	12.90
	The Randolph Paper Box Co	Boxes	22.50
	Sprague Electric Co	Repairs to armature	10.00
	M. Du Perow	Electric supplies	4.36
	Louis Hartig	Files	2.50
	Standard Oil Co	Gasoline	7.95
	Thos. Somerville & Sons	Repairs	9.54
	do	do	26.84
	do	do	40.60
	Dulin & Martin Co	Choppers	13.50
	Jos. Mathy	Ovens	34.00
	National Mortar Co	Cement	3.44
	Church & Stephenson	Lumber	60.16
	Neely Electric Co	Silk cord	4.46
	Rudolph, West & Co	Stepladder, etc	1.42
	do	do	2.00
	S. P. Shotter & Co	Oil, etc	.85
	Whitall Tatum Co	Flasks	52.99
	do	Glass rods	2.70
	Falknau-Sinclair Machine Co	Sieves	49.20
19	Jno. C. Parker	Gummed paper	2.25
	F. P. May & Co	Coffee mill	1.50
	Arthur H. Thomas Co	Rubber tubing	39.26
20	do	Chemicals	43.10
	Dulin & Martin Co	Crocks	2.70
	Isaac A. Sheppard & Co	Gutters	22.49
	Boston Gear Works	Miters	2.50
25	The Geo. W. Knox Express Co.	Transportation	.50
	E. G. Schafer & Co.	Tubing, etc	5.82
	Library Bureau	Guides	21.50
	Eimer & Amend	Furnace, etc	30.78
	Whitall Tatum Co	Bottles	57.98
27	H. W. Wiley	Traveling expenses	21.15
	Wagner Typewriter Co.	Repairs to typewriter	18.00
30	W. B. Alvord	Salary	50.00
	W. D. Bigelow et al	Salaries	2,165.34
	Total first quarter		10,263.45
Oct. 2	R. J. Davidson	Salary	50.00
	W. A. P. Moncure	do	50.00
	T. Brent Moore	do	100.00
	Jno. C. Parker	Gummed paper	2.25
	do	Paper	6.25
6	Chas. E. Johnson	Oil	2.00
	The American Distributing Co	Alcohol	29.28
	E. J. Pullman	Photo supplies	2.31
7	J. Harrison Johnson	Rent	208.33
10	Geo. F. Muth & Co	Chamois skins	.98
11	E. G. Schafer & Co	Pipe	9.93
	W. S. Morris Sons	Castings	3.15
15	Houghton & Delano.	Photo supplies	2.62
16	Edwd. H. Jenkins	Traveling expenses	26.87
	Yawman & Erbe Manufacturing Co	Cabinets	18.00
	Whitall Tatum Co	Bottles	3.24
	Eimer & Amend	Oil tester	6.75
	Wall Bros	Envelopes	2.67
17	W. B. Moses & Sons	Tables	7.88
	Z. D. Gilman	Filter paper, etc	53.72

## 20 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## LABORATORY—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Oct. 17	Jas. B. Lambie .....	Excelsior .....	\$1.14
18	Fredk. Carl .....	Tube .....	11.25
	Z. D. Gilman .....	Generators, etc .....	230.15
20	A. T. Thompson .....	Cylinders .....	23.35
21	Thos. Somerville .....	Fittings .....	12.22
	do .....	Plates .....	17.00
	do .....	Fittings .....	20.87
	do .....	do .....	22.55
	Rudolph, West & Co .....	Hatchets .....	.29
	Whitall Tatum Co .....	Flasks, etc .....	83.79
	do .....	Pipettes .....	30.60
22	New York Belting and Package Co. (Ltd.) ..	Mold, etc .....	8.50
	Hugh Reilly .....	Glass .....	2.56
23	Whitall-Tatum Co .....	Flasks .....	14.50
	do .....	do .....	71.44
	Emil Greiner .....	Bulbs .....	12.16
	The J. L. Mott Iron Works .....	Laboratory fittings .....	18.75
	do .....	do .....	36.50
	Woodward & Lothrop .....	Desks, chairs, etc .....	46.93
	Jno. B. Espey .....	Brass rod, etc. ....	7.98
	The Smith Premier Typewriter Co .....	Repairs .....	6.00
24	T. Brent Moore .....	Salary .....	45.16
25	Eimer & Amend .....	Chemicals .....	2.90
	do .....	do .....	6.80
	do .....	Tubing, etc .....	21.60
	Whitall Tatum Co .....	Pipettes .....	79.08
	Wyckoff, Seamans & Benedict .....	Paper .....	2.35
	A. T. Thompson & Co .....	Arc lamp .....	36.30
	Arthur H. Thomas Co .....	Microtome, etc .....	81.49
27	Hugh Reilly .....	Glass .....	1.24
28	Christian Becker .....	Repairs .....	28.75
29	M. Du Perow .....	Sockets .....	1.98
	Densmore Typewriter Co .....	Typewriter covers ..	1.00
	Mackall Bros .....	Sodium, etc .....	15.00
	do .....	Chemicals .....	40.15
	Wm. Frear .....	Traveling expenses ..	27.01
31	W. D. Bigelow et al. ....	Salaries .....	2,282.26
Nov. 1	Eimer & Amend .....	Flasks, etc .....	16.50
	do .....	Watch glasses .....	15.94
	J. R. Haywood .....	Expenses .....	11.75
	The Wirt Electric Co .....	Electric supplies .....	20.75
3	R. P. Clarke Co .....	Toweling .....	20.00
	Capital Traction Co .....	Tickets .....	5.00
	National Electric Co .....	Telephone .....	45.00
	Whitall-Tatum Co .....	Condenser .....	10.36
4	The Geo. W. Knox Express Co .....	Transportation .....	1.69
	Washington Gaslight Co .....	Gas .....	22.50
	do .....	do .....	25.20
	United States Electric Lighting Co .....	Light and power .....	6.95
	do .....	Current .....	.36
	do .....	Lighting building ..	9.05
5	Whitall-Tatum Co .....	Burettes .....	3.50
	Manning, Maxwell & Moore .....	Nozzle .....	16.25
6	The American Distributing Co .....	Alcohol .....	29.89
	R. J. Davidson .....	Salary .....	50.00
	Wm. B. Alvord .....	do .....	50.00
	do .....	Traveling expenses ..	59.33
8	S. J. Beveridge .....	Rent .....	100.00
13	Houghton & Delano .....	Plates .....	6.32
	Rudolph, West & Co .....	Brackets .....	.50
	do .....	Rubber hose .....	4.75
	Z. D. Gilman .....	Castor oil .....	.50
	Church & Stephenson .....	Lumber .....	4.48
	do .....	do .....	3.36
	J. Harrison Johnson .....	Rent .....	208.33
17	W. A. P. Moncure .....	Salary .....	50.00
	W. H. Teas .....	Expenses .....	9.20
	S. P. Shotter Co .....	Spirits and oil .....	1.93
	United States Envelope Co .....	Envelopes .....	2.11
	do .....	do .....	3.43
	W. D. Bigelow .....	Expenses .....	82.62
	Doremus Machine Co .....	Brass castings .....	2.50
	G. G. Cornwell & Son .....	Starch .....	1.50
19	The Lambert-Schmidt Telephone Manu- facturing Co. ....	Desk, stands, etc .....	30.20
	Eimer & Amend .....	Brushes, etc .....	6.10
20	Mackall Bros .....	Chemicals .....	57.56
	The J. L. Mott Iron Works .....	Fittings, etc .....	4.80
21	Thos. Somerville & Sons .....	Valves .....	8.67
	Hugh Reilly .....	Glass .....	1.80

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## LABORATORY—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Nov. 21	Church & Stephenson	Lumber	85.37
	The Paddock Cork Co	Corks, etc	20.71
	Z. D. Gilman	Funnels, etc	158.24
	Thos. Somerville & Sons	Wrench	1.71
	do	Steam fittings	4.67
	do	do	1.70
29	F. & J. K. Bishop	Disco paper	4.32
	W. D. Bigelow et al.	Salaries	2,318.57
Dec. 1	National Electric Supply Co	Repairs	.70
2	C. P. Guyton	Erecting apparatus, etc	8.25
6	W. H. Dyer	Labor	4.50
	M. Du Perow	Electric supplies	6.58
8	The Okonite Co. (Limited)	Wire	3.00
	C. W. H. Carter	Varnish	.87
	Eimer & Amend	Tiles, etc	3.65
	United States Envelope Co	Envelopes	7.56
10	Houghton & Delano	Photo supplies	2.18
	J. Harrison Johnson	Rent	208.33
12	American Writing Machine Co.	Typewriter stand	3.50
	The Kny-Scheerer Co	Chemical apparatus	18.00
	Hugh Reilly	Brushes	1.05
13	The Burnett Co	Batteries	3.80
17	Dulin & Martin Co	Jars	12.50
18	The Baker & Adamson Chemical Co	Sodium	4.40
	R. J. Davidson	Salary	50.00
	Wm. B. Alwood	do	50.00
	Jno. B. Espey	Drills	5.50
	Julia S. Read	Hemming linen	5.35
	Jos. Mathy	Drying oven	34.00
	Ernest Betz	Stovepipe	2.00
	J. K. Haywood	Expenses	9.96
19	Ben Einstein	Radiators, etc	91.00
	Mackall Bros	Chemicals	81.43
	Z. D. Gilman	Chemicals, etc	52.97
31	W. D. Bigelow et al.	Salaries	2,443.87
	Total second quarter		10,578.75
1903.			
Jan. 3	H. W. Wiley	Expenses	73.72
	do	Traveling expenses	26.75
5	Zanesville Stoneware Co.	Rings	25.12
	The Bunnell Telegraph and Electric Co	Pliers	4.32
	The Geo. W. Knox Express Co	Transportation	4.67
	National Mortar Co	Clay	.58
	Jno. C. Parker	Tags and rulers	5.66
	Mackall Bros	Wire	8.48
	Rudolph, West & Co	Sandpaper, etc	3.61
	Potomac Electric Power Co	Current	5.91
	do	do	7.32
6	Wm. B. Alwood	Salary	50.00
	R. J. Davidson	do	50.00
	Christian Becker	Weights	7.47
	Schoville Manufacturing Co	Dishes	8.96
	Arthur H. Thomas Co	Alum, etc	2.65
	Jno. Lucas & Co	Cans	2.70
8	Church & Stephenson	Lumber	1.44
	do	do	5.48
	Jas. B. Lambie	Wire cloth, etc	6.91
	do	Belting	7.77
	do	Brass, etc	14.62
10	H. W. Wiley	Expenses	19.44
12	Mackall Bros	Acid	42.75
	do	Chemicals	25.46
	do	do	4.00
	Thos. Somerville & Sons	Gauge, etc	4.16
	do	Packing	3.83
	do	Fittings	4.75
	Geo. F. Muth & Co	Fitches	1.30
	W. B. Moses & Sons	Table	2.75
	do	Mats and table	5.44
	do	Tables, etc	35.50
	do	Refrigerator	55.00
	Ernest Best	Water baths	36.00
	Densmore Typewriter Co	Typewriter cover	1.00
	Chas. H. Javins & Sons	Food	16.10
	J. Hillman	do	81.32
	Jno. C. Parker	Notebook	10.60
	Z. D. Gilman	Rubber stoppers, etc	225.81
	Wyckoff, Seamans & Benedict	Paper	5.20
	Woodward & Lothrop	Kitchen utensils	101.75

## 22 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## LABORATORY—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Jan. 12	Woodward & Lothrop	Basket, etc.	\$12.07
	Church & Stephenson	Lumber	1.16
	J. Harrison Johnson & Son	Rent	208.33
13	Jos. L. Cruppen	Sash frame	2.00
	Anson J. Beveridge	Rent	50.00
15	United States Envelope Co	Envelopes	19.29
	Whitall Tatum Co	Tubes	3.37
	do	Bottles, etc	6.90
	do	do	21.61
	Yawman & Erbe Manufacturing Co	Binding case	7.00
	Eimer & Amend	Watch glasses	2.10
	do	Laboratory supplies	6.65
	do	Beakers	8.10
	do	Chloride	22.00
	Wolf Bros	Envelopes	3.56
	Arthur H. Thomas Co.	Tubing, etc	1.99
	Edwd. Orton & Co	Cones	1.00
	Merck & Co	Chemicals	1.05
	Richards & Co.	Dishes	5.88
	C. W. H. Carter	Oil	1.60
	Crosby Steam Gauge and Valve Co.	Cards	5.00
	The American Distributing Co.	Alcohol	30.22
	Curtice Bros. Co.	Canned food	39.69
	do	do	45.54
	do	do	45.81
16	E. J. Lewis	Food	10.00
	Roslyn Packing Co	Cylinder	25.72
	H. A. Weber	Traveling expenses	33.75
	Houghton & Delano	Photo supplies	8.84
17	Arthur H. Thomas Co.	Camera, etc	502.48
21	Chas. Becker	Lead	.28
	Thos. Somerville & Sons	Repairs, etc	14.80
	do	do	12.02
	National Electric Supply Co.	Commutator compound	.70
	Neely Electric Construction and Supply Co.	Silk cord, etc	1.24
	Potomac Electric Power Co	Current	3.60
	do	do	23.30
	do	Lamps	4.36
	Washington Gaslight Co	Gas	23.40
	do	do	25.90
	do	do	34.30
	Barber & Ross	Nails	2.55
	do	Kitchen utensils	28.55
	E. G. Schafer & Co.	Repairs, etc	2.86
	do	Pipe	6.60
	Hugh Reilly	Glass	.56
	do	do	3.32
	M. Du Perow	Apparatus	5.33
	The Geo. W. Knox Express Co.	Transportation	1.86
	Capital Traction Co.	Fare tickets	5.00
22	G. G. Cornwell & Son	Provisions	8.24
	H. J. Patterson	Butter	17.40
	Auguste Sandez	Bread	16.85
	Standard Oil Co.	Gasoline	8.48
	The Baker & Adamson Chemical Co	Chemicals	10.40
	M. A. Scovell	Traveling expenses	39.90
	Blue Line Transfer Co	Transportation	5.12
29	The Randolph Paper Box Co	Boxes	4.20
	The Torsion Balance Co	Scales	47.00
	Curtice Bros. Co.	Canned goods	38.25
	Bellone Dairy Farm	Milk	24.44
	R. P. Clarke Co	Toweling	10.00
	E. F. Vermillion	Inspecting boiler	5.00
	Keasbey & Mattison Co.	Steam fittings	9.62
	Wyckoff, Seamans & Benedict	Ribbons	5.09
	Yawman & Erbe Manufacturing Co	Indexes	2.17
	Ernest Betz	Making apparatus	21.50
	E. G. Schafer & Co	Pipe	8.31
31	W. D. Bigelow et al	Salaries	2,495.94
Feb. 3	Jno. C. Parker	Gummed paper	2.25
4	Barber & Ross	Kettles	1.80
	Chas. E. Miller & Bro	Paste	1.20
	F. & J. K. Bishop Art Co	Photo supplies	2.72
	Standard Oil Co.	Gasoline	8.40
	United Typewriter and Supplies Co	Chair	7.50
	Curtice Bros	Apple sauce	7.50
	do	Preserves	8.28
	J. H. F. Halin	Steel	2.33
	do	Tubing	3.08
	Jno. Simmons Co	Apparatus	130.00

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## LABORATORY—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Feb. 4	Kuttroff, Pickhardt & Co.....	Paste.....	\$0.40
	Bihn & Wolff Co.....	Lamp black.....	.32
	F. E. Singleton.....	Electric motor.....	20.85
	I. Pfeiffer.....	Paris green.....	3.50
	The American Distributing Co.....	1 barrel alcohol.....	30.64
	A. T. Thompson & Co.....	Gas tank.....	30.00
	The Baker & Adamson Chemical Co.....	Chemical.....	7.16
	Thos. Boyce.....	Burners.....	10.50
	Jno. Lucas & Co.....	Cans.....	3.90
7	J. Harrison Johnson & Son.....	Rent.....	208.33
	Woodward & Lothrop.....	Chairs, etc.....	25.05
	do.....	do.....	4.05
9	United States Express Co.....	Transportation.....	33.01
	M. Du Perow.....	Sockets.....	.99
	do.....	Cord, etc.....	2.20
	Geo. T. Ennis.....	Castings.....	.80
12	Yawman & Erbe Manufacturing Co.....	Binding cases, etc.....	6.80
	Edw. H. Jenkins.....	Traveling expenses.....	28.00
	Wm. Frear.....	do.....	53.78
	Fred A. Schmidt.....	Pencils.....	.90
	Adams Express Co.....	Transportation.....	117.61
14	Christian Becker.....	Balance.....	125.30
	Jas. Campbell Preserve Co.....	Soup.....	38.88
	Ernest Betz.....	Pipe.....	8.50
16	American Gas Furnace Co.....	Muffles.....	8.00
	F. E. Singleton.....	Screw press.....	26.50
	Library Bureau.....	Guides and trays.....	8.50
	Houghton & Delano.....	Plates.....	1.68
	The Geo. W. Knox Express Co.....	Transportation.....	8.04
	Thos. Somerville & Sons.....	Plumbers' supplies.....	23.11
	F. A. Tschiffely, jr.....	Bottles.....	2.75
	Auguste Sandez.....	Bread.....	15.60
	Chas. H. Javins & Sons.....	Supplies for hygienic table.....	23.39
	National Mortar Co.....	Cement.....	2.50
	American Writing Machine Co.....	Paper.....	24.72
	Lansburgh & Bro.....	Safine.....	9.00
	Jno. B. Espey.....	Tape, etc.....	8.65
	Capital Traction Co.....	Fare tickets.....	5.00
	Barber & Ross.....	Gas range.....	15.00
	A. C. Rowe.....	Fire extinguishers.....	48.00
	Carl Zeiss.....	Camera stand top, etc.....	18.55
	The Okonite Co. (Limited).....	Wire.....	2.10
	Improved Mailing Case Co.....	Cases, etc.....	4.60
	Thos. Boyce.....	Burners.....	21.00
	Scoville Manufacturing Co.....	Aluminum dishes.....	8.96
	Wm. B. Alwood.....	Salary.....	50.00
	R. J. Davidson.....	do.....	50.00
	Fred C. White.....	Alcohol cans.....	16.20
17	Eimer & Amend.....	Chemicals.....	2.80
	do.....	Chemicals, etc.....	12.70
	do.....	Filters.....	12.96
	do.....	Apparatus.....	18.35
	do.....	Weights, etc.....	38.76
	do.....	Casseroles.....	40.00
	Church & Stephenson.....	Lumber.....	21.80
18	M. Du Perow.....	Electric supplies.....	5.25
	Z. D. Gilman.....	Burettes, etc.....	234.86
	do.....	Chemicals, etc.....	115.01
	do.....	Thermometers.....	15.00
20	H. W. Wiley.....	Expenses.....	30.97
	Curtice Bros. Co.....	Canned fruit.....	15.12
	Bellvue Dairy Farm.....	Milk.....	29.63
	J. Hillman.....	Provisions.....	16.81
	Rosslyn Packing Co.....	do.....	54.08
21	Mackall Bros.....	Sodium hydrate.....	32.50
24	W. S. Moore's Sons.....	Castings.....	4.32
25	Jas. B. Lambie.....	Belting, etc.....	36.72
	Chas. E. Miller & Bro.....	Heater.....	2.50
	E. G. Schafer & Co.....	Pipe.....	8.89
	Rudolph. West & Co.....	Door check.....	2.10
	Jas. B. Lambie.....	Belting.....	13.31
	H. J. Patterson.....	Butter.....	16.50
	Bellvue Dairy Farm.....	Milk.....	15.63
	Susan J. Beveridge.....	Rent of building.....	25.00
28	The American Distributing Co.....	Alcohol.....	27.44
	Paddock Cork Co.....	Corks.....	6.95
	A. C. Rowe.....	Hangers.....	2.00
	W. D. Bigelow et al.....	Salaries.....	2,500.84
Mar. 3	The Chesapeake and Potomac Telephone Co.....	Service.....	1.20

## 24 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## LABORATORY—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Mar. 3	The Chesapeake and Potomac Telephone Co.	Service	\$6.25
	do	do	6.25
4	J. K. Haywood	Expenses	37.95
5	Potomac Electric Power Co	Lamps	1.00
	do	do	1.92
	do	Lights and power	46.62
	Hugh Reilly	Glass	.81
	do	Turpentine	2.30
	Chas. Becker	White lead	1.40
	do	do	1.40
	R. Carter Ballantyne	Pens.	4.58
	The Geo. W. Knox Express Co.	Transportation	2.20
9	Forsberg & Murray	Repairs to boiler, etc	17.50
	Ernest Betz	Boiler and tubes	3.77
11	Z. D. Gilman	Flasks, etc	99.76
	E. J. Pullman	Photo supplies	3.40
	National Electrical Supply Co.	Receipts	.44
	S. C. Raub	Bottles	2.50
	W. B. Moses & Sons	Tables	8.00
	American Writing Machine Co	Typewriter stands	3.50
14	Manning, Maxwell & Moore	Tee	2.00
	The Garden City Sand Co	Quartz	5.25
	Thos. Boyce	Burners	10.50
	I. Pfeiffer	Paris green	3.50
	J. Harrison Johnson & Son	Rent	208.33
16	H. W. Wiley	Expenses	28.58
17	M. Du Perow	Tape	1.00
	Houghton & Delano	Photo supplies	3.68
	Phillip H. Grimes	Repairs	3.00
	Dulin & Martin Co	Coffee mill	8.60
	Ernest Betz	Making tank	18.25
	Jno. Lucas & Co	Cans	10.80
	E. R. Squibb & Son	Litmus paper	3.21
	Merck & Co.	Chemicals	1.60
	Eimer & Amend	Flasks, etc	74.45
	do	Bottles, etc	27.10
	do	Cylinder	18.60
	do	Chemicals	18.45
	do	Filter paper	9.93
	Whitall Tatum Co.	Glass flasks	65.54
17	do	Flasks, etc	30.22
	do	Bottles	10.43
	do	Jars	6.44
19	The Geo. W. Knox Express Co.	Transportation	1.62
	Blue Line Transfer Co.	do	.70
	H. J. Patterson	Butter	13.20
	Chas. H. Javins & Sons	Supplies for table	18.98
	Z. D. Gilman	Bottles, flasks, etc	70.62
	Woodward & Lathrop	Jars, chairs, etc	20.28
20	Whitall Tatum Co	Jars, etc	20.46
21	J. P. Ennis	Castings	.31
23	Whitall Tatum Co	Pipettes	38.65
	Emil Greiner	Crucible holders	10.44
	Richards & Co.	Dishes	13.68
	The Rosslyn Packing Co.	Table supplies	34.90
	Forsberg & Murray	Iron plates	7.00
	Chas. E. Miller & Bro.	Gas heater	2.50
	Potomac Electric Power Co	Electric current	28.05
	do	Lamps	2.40
24	Auguste Sandoz	Bread	14.20
	Z. D. Gilman	Burettes, etc	437.95
	Wm. B. Alwood	Salary	50.00
	W. S. Jenks	Steel	.75
	Susan J. Beveridge	Rent	25.00
25	Church & Stevenson	Lumber	18.92
26	Washington Gaslight Co.	Gas	58.70
	do	do	61.60
	F. & J. K. Bishope Art Co.	Disco paper	1.46
	do	Rotox	1.89
	Ernest Betz	Ventilation apparatus	17.08
	E. J. Pullman	Cards	1.98
	do	Plates	2.16
	R. P. Clarke Co	Toweling	10.00
	Jno. B. Espey	Screws, etc	8.05
	J. Baumgarten & Sons	Stencils, etc	1.25
	F. P. May & Co	Spatula	7.00
	Warren M. Whyte	Saws	1.50
	The Alexandria Iron Works	Castings	1.25
	O. A. Duzenbaker	Asbestos paper, etc	3.29
	The Mathy Co. (Incorporated)	Funnel	3.50

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## LABORATORY—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Mar. 26	The Mathy Co. (Incorporated)	Solder	80.50
	The Zanesville Stoneware Co.	Covers and rings	13.10
	Arthur H. Thomas Co.	Pipettes	4.04
	Richards & Co.	Centrifuge	44.00
	The Baker & Adamson Chemical Co.	Chemicals	11.65
	Improved Mailing Case Co.	Cases, etc.	5.10
	Eimer & Amend	Filters	6.75
	do	Blowpipe, etc.	22.73
	do	Furnaces, etc.	29.60
27	Ralph S. Weaver	Meat, etc.	20.89
	R. P. Andrews & Co. (Incorporated)	Writing fluid	.34
	Christian Becker	Weights	125.00
	Curtice Bros. Co.	Canned goods	41.16
31	W. D. Bigelow et al.	Salaries	2,728.19
	Total third quarter		14,484.21
Apr. 2	Louis Hartig	Files	3.05
	Z. D. Gilman	Hide powder	6.20
7	Rudolph West & Co.	Hardware, etc.	8.67
13	Hugh Reilly	Glass	.81
	E. G. Schafer & Co.	Packing and pipe	5.25
	Church & Stephenson	Lumber	19.69
	M. Du Perow	Electric bell	.50
14	Arthur H. Thomas Co.	Soda	4.88
	do	Bottles	2.16
	Wm. B. Alwood	Salary	50.00
	Capital Traction Co.	Fare tickets	5.00
	Susan J. Beveridge	Rent	25.00
	E. J. Lewis	Oxygen	10.00
	Jno. C. Parker	Labels	13.95
16	The Baker & Adamson Chemical Co.	Chemicals	17.30
	J. Harrison Johnson & Son	Rent	208.33
17	J. A. Hummel	Salary	50.00
	Thos. Somerville & Sons	Globe valves	7.81
	do	Lead pipe	6.95
	W. B. Moses & Sons	Chair seats	3.50
	Dulin & Martin Co.	Crocks	1.05
	Jas. B. Lambie	Tapers	12.25
	Houghton & Delano	Photo supplies	2.03
	F. W. Bolgiano & Co.	Oats	10.65
	Barber & Ross	One set of numbers	.60
	E. Morrison Paper Co.	Pasteboard mailing tubes	1.20
	Hugh Reilly	Paint	.33
	Z. D. Gilman	Chemicals	40.22
	P. F. von Everen	Perforated gummed numbers	4.50
	American News Co.	Steel erasers	4.80
	Parsons Bros	Paper	4.30
	Arthur H. Thomas Co.	Forceps, etc.	3.36
18	Ralph T. Weaver	Meat, etc.	30.01
	Chas. H. Javins & Sons	do	23.80
	H. J. Patterson	Butter	13.20
	H. W. Wiley	Expenses	24.61
	Rossllyn Packing Co.	Meat, etc.	39.47
	Auguste Sandoz	Bread	17.10
	Jno. H. McGruder	Groceries	15.06
	The Ashburn Farm Dairy	Milk	11.88
21	Whitall Tatum Co.	Vials	44.12
	Eimer & Amend	Furnaces	48.72
	do	Condensers, etc.	18.80
	do	Bottles, etc.	10.95
	do	Stand, etc.	5.75
23	Standard Oil Co.	Oil, etc.	1.95
27	Edw. M. Durlin	Milk	35.44
30	J. K. Haywood et al.	Salaries	2,475.57
May 2	Z. D. Gilman	Chemicals	220.27
	Jno. T. Springman	Grate bars, etc.	12.00
8	Densmore Typewriter Co.	Card attachments	7.50
	Geo. F. Muth & Co.	Oil, etc.	4.63
	American Writing Machine Co.	Paper	4.44
	The Geo. W. Knox Express Co.	Transportation	5.11
	Jas. B. Lambie	Micrometer, etc.	11.75
	The M. Lindsay Rubber Co.	Packing	.30
	Fred A. Schmidt	Paper, etc.	3.25
	Washington Gaslight Co.	Gas	57.30
	Adams Express Co.	Transportation	1.60
	Mackall Bros	Chemicals, etc.	58.93
	do	do	95.85
	Hugh Reilly	Glass	2.80
	Potomac Electric Paper Co.	Electric current	20.13

## 26 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## LABORATORY—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
May 8	Rudolph West & Co	Hinges, etc	80.71
	The Hammond Typewriter Co	Shuttle, etc	2.60
	Thos. Somerville & Sons	Valves, etc	2.76
	Woodward & Lathrop	Chairs, etc	21.65
9	J. D. Frazee	Laundry work	16.26
13	H. W. Wiley	Expenses	15.73
15	Eimer & Amend	Chemicals	6.50
	do	Flasks, etc	33.55
	do	Filter, etc	82.13
	The American Distributing Co	Chemicals	38.40
	Curtice Bros. Co	Soap	22.05
	C. I. King	Tube	6.35
	F. E. Singleton	Valve	1.25
	Kny Sheerer Co	Gas generator	4.00
	The Burnett Co	Batteries	6.84
	Whitall, Tatum & Co	Flasks, etc	27.75
16	National Electrical Supply Co	Cable, etc	9.00
	Wyckoff, Seamans & Benedict	Paper	4.70
	American Writing Machine Co	do	22.50
	Chas. Becker	White lead	2.80
	Thos. Somerville & Sons	Nipples, etc	9.97
	do	Valves, etc	30.83
	E. Morrison Paper Co	Corrugated board	2.50
	do	Book cover	4.00
	Jas. B. Lambie	Screws	1.08
	Fred A. Schmidt	Pens, etc	.69
	do	Rubber covers	1.17
	E. J. Lewis	Oxygen	10.00
	E. G. Schafer & Co	Pipe, etc	42.29
	Z. D. Gilman	Asbestos	47.80
	do	Flasks, etc	140.44
	do	Stoppers, etc	65.24
	Dulin & Martin Co	Meat chopper	3.25
	J. Harrison Johnson & Son	Rent	208.33
18	The Veeder Manufacturing Co	Counters	3.00
	The Baker & Adamson Chemical Co	Lead	5.20
	F. E. Singleton	Gaskets	5.00
	L. L. Van Slyke	Salary	50.00
	Wm. B. Alwood	do	50.00
21	H. J. Patterson	Butter	13.20
	Chas. H. Javins & Sons	Chickens, etc	14.94
	Edw. M. Durlin	Milk	34.13
	G. G. Cornwell & Son	Potatoes	40.81
	Rosslyn Packing Co	Meat, etc	74.34
	Auguste Sandoz	Bread	16.05
	J. A. Magruder	Groceries	26.90
26	Wm. Frear	Salary	25.00
	Blue Line Transfer Co	Transportation	.62
	Susan J. Beveridge	Rent	25.00
27	J. K. Haywood	Expenses	25.00
	M. A. Scovell	Traveling expenses	61.50
	H. A. Weber	Salary	25.00
	Edw. H. Jenkins	do	25.00
29	Wyckoff, Seamans & Benedict	Paragon ribbons	1.38
	United States Express Co	Transportation	65.28
	Capital Traction Co	Fare tickets	5.00
	M. Du Perow	Switch	.30
31	J. K. Haywood et al	Salaries	2,742.97
June 5	Library Bureau	Cards	26.50
	Mereck & Co	Chemicals	1.50
9	Washington Gaslight Co	Gas	60.90
	Potomac Electric Power Co	Current	11.88
	The Chesapeake and Potomac Telephone Co	Service	6.25
	Wyckoff, Seamans & Benedict	Chairs, etc	8.05
	F. W. Bolgiano & Co	Cotton bags	6.00
	H. W. Wiley	Traveling expenses	14.25
	J. Harrison Johnson & Son	Rent	208.33
10	F. P. May & Co	Nails, etc	1.50
	M. Du Perow	Knife switch	.35
	Wm. B. Alwood	Salary	50.00
11	Edw. H. Jenkins	Traveling expenses	24.80
	Wm. Frear	do	45.78
	H. A. Weber	do	57.25
12	Hugh Reilly	Glass	1.87
	Rudolph West & Co	Chest locks	.46
	Woodward & Lothrop	Soap, etc	8.82
13	H. W. Wiley	Expenses	5.40
	do	do	15.49
	J. D. Frazee	Laundry work	5.13
17	Eimer & Amend	Chemicals, etc	47.74



Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## LABORATORY—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
June 17	Eimer & Amend .....	Chemicals, etc .....	\$2.50
	Whitall Tatum Co. ....	Flint .....	10.43
	do .....	do .....	4.32
	Yawman & Erbe Manufacturing Co. ....	Case, etc .....	6.80
	J. P. Nawrath .....	Sponge .....	1.49
	Wolf Bros .....	Envelopes .....	3.56
19	Jno. Lucas & Co .....	Cans .....	4.50
22	Houghton & Delano .....	Plates .....	1.12
	Auguste Sandoz .....	Bread .....	13.15
	Chas. H. Javins & Sons .....	Chickens .....	18.88
	J. E. Thompson .....	Sugar, etc. ....	8.60
	Edw. M. Dulin .....	Milk and cream .....	31.81
	Rosslyn Packing Co. ....	Meat, etc .....	53.94
23	Thos. Somerville & Sons .....	Valves, etc .....	8.40
	do .....	do .....	40.14
	do .....	Lead pipe, etc .....	84.83
	Mackall Bros .....	Chemicals .....	75.85
	do .....	do .....	95.96
	Z. D. Gilman .....	Powdered opium .....	38.74
	do .....	Funnels, etc .....	87.96
	do .....	do .....	133.34
	E. G. Schafer & Co. ....	Galvanized pipe .....	4.16
	do .....	do .....	10.74
	Hugh Reilly .....	Gaslights .....	.66
	do .....	Pencils .....	9.33
	M. Du Perow .....	Electric supplies .....	2.70
	Potomac Electric Power Co .....	Electric current .....	9.00
	E. Morrison Paper Co .....	Tags .....	8.57
	Isaac A. Sheppard & Co. ....	Castings .....	36.97
	The Zanesville Stoneware Co. ....	Burner shields .....	2.40
	Nelson Refrigerator Co. ....	Refrigerator .....	49.95
	The Okonite Co. (Limited) .....	Wire .....	2.10
	The American Distributing Co. ....	Spirits .....	38.40
	The Randolph Paper Box Co .....	Boxes .....	22.50
	Whitall, Tatum & Co .....	Test tubes .....	2.32
	Eimer & Amend .....	Tannometer, etc .....	15.10
	The Burnett Co. ....	Batteries .....	2.28
	The Paddock Cork Co .....	Corks .....	20.77
	Evans & Sons (Limited) .....	Fly catcher .....	3.50
	James B. Lambie .....	Wire, etc .....	6.35
	Rudolph, West & Co .....	Nails, etc .....	.84
	The C. J. McCubbin Co .....	Sink cocks .....	26.00
	S. Kann, Sons & Co .....	Screens .....	22.75
	F. P. May & Co .....	Spatulas .....	3.00
	Standard Oil Co .....	Gasoline .....	8.67
	Fred. A. Schmidt .....	Paper .....	4.40
	Jno. H. Magruder .....	Groceries .....	20.60
	Edw. M. Dulin .....	Milk, etc .....	10.00
	H. J. Patterson .....	Butter .....	12.60
	Curtice Bros. Co .....	Pease .....	12.60
	Western Union Telegraph Co .....	Service .....	4.80
	Susan J. Beveridge .....	Rent .....	25.05
25	Southern Rwy. Co .....	Passenger transportation .....	37.00
	C. C. Pursell .....	Blackboard .....	1.00
	Washington Gaslight Co .....	Gas .....	57.70
30	J. K. Haywood, et al .....	Salaries .....	2,774.43
	Total, fourth quarter .....		12,691.18
	<i>Supplemental.</i>		
July 7	R. P. Clarke & Co .....	Toweling .....	9.10
	E. J. Lewis .....	Chemicals .....	10.00
	W. B. Alwood .....	Salary .....	50.00
	Capital Traction Co .....	Car tickets .....	5.00
11	H. W. Wiley .....	Expenses .....	48.67
	P. H. Grimes .....	Repairing tube, etc .....	2.00
	Woodruff Manufacturing Co .....	Apparatus, etc. ....	275.25
13	The Gorham Co .....	Medal for award at exposition .....	2.50
	Church & Stephenson .....	Lumber .....	7.13
	E. J. Pullman .....	Plates .....	1.07
	E. Morrison Paper Co .....	Ledger .....	3.00
	S. Kann, Sons & Co .....	Screens .....	18.50
	M. G. Copeland Co .....	Awnings .....	17.05
	Fred. A. Schmidt .....	Paper .....	.90
14	G. E. Patrick .....	Expenses .....	9.99
15	A. Krüss .....	Apparatus .....	191.00
	United States Envelope Co .....	Envelopes .....	2.82
	Library Bureau .....	Cards .....	10.50
	The Baker & Adamson Chemical Co .....	Acid .....	6.40
16	W. B. Moses & Sons .....	Chairs .....	7.95

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## LABORATORY—Continued.

Date.	Name.	Nature of payment.	Total.
<i>Supplemental—Continued.</i>			
1903.			
July 16	The Geo. W. Knox Express Co.....	Transportation.....	\$0.70
	Thos. Somerville & Sons.....	Plugs.....	19.99
	Z. D. Gilman.....	Turbins.....	26.86
	J. T. Walker Sons.....	Sand.....	1.25
20	Mackall Bros.....	Chemicals.....	54.00
	Whitall Tatum Co.....	Test tubes.....	1.44
	do.....	Vials.....	28.71
	The Hammond Typewriter Co.....	Copying ribbon.....	.75
	Eimer & Amend.....	Chemicals.....	1.90
	Roslyn Packing Co.....	Meat, etc.....	63.07
	J. H. Magruder.....	Groceries.....	13.80
	C. H. Javins & Sons.....	Chickens, etc.....	2.95
	J. H. Johnson & Sons.....	Rent.....	208.33
21	Woodruff Manufacturing Co.....	Tables, etc.....	243.70
	Rudolph, West & Co.....	Pomade.....	2.25
22	Richards & Co.....	Crucibles.....	40.00
23	H. J. Patterson.....	Butter.....	9.60
24	E. J. Pullman.....	Plates, etc.....	3.93
	Houghton & Delano.....	do.....	12.13
	J. C. Parker.....	Toilet paper.....	6.25
25	Auguste Sandez.....	Bread.....	12.35
28	Library Bureau.....	Section stack.....	91.25
29	W. D. Bigelow.....	Traveling expenses.....	38.45
	do.....	Expenses.....	17.33
	National Electric Supply Co.....	Repairing telephones.....	7.60
	The Chesapeake and Potomac Telephone Co.....	Telephone service.....	6.25
	Potomac Electric Power Co.....	Electric current.....	8.43
	Washington Gaslight Co.....	Gas.....	63.70
	Eimer & Amend.....	Tube brushes, etc.....	5.80
	do.....	Chemicals.....	27.00
	Louis Smith.....	Removing waste.....	2.00
	Church & Stephenson.....	Lumber.....	73.13
Aug. 1	J. K. Haywood.....	Expenses.....	13.95
	do.....	Traveling expenses.....	1.95
4	J. S. Thompson.....	Milk and cream.....	19.01
	M. Du Perow.....	Fan.....	64.00
12	Thos. Somerville & Sons.....	Wrench.....	4.49
14	Bishop Art Co.....	Photographic supplies.....	2.92
	Susan J. Beveridge.....	Rent.....	25.00
15	Rudolph, West & Co.....	Cupboard turns, etc.....	1.66
	do.....	Drawer pulls, etc.....	15.63
	Adams Express Co.....	Transportation.....	90.34
	Z. D. Gilman.....	Filters.....	1.90
	A. A. Winfield.....	Bon Ami.....	2.00
	Hugh Reilly.....	Glass.....	7.52
	Wm. Somerville & Sons.....	Pipe, etc.....	25.06
	James B. Lambie.....	Leather belting, etc.....	12.93
17	Manning, Maxwell & Moore.....	Ice, etc.....	4.50
	Whitall, Tatum & Co.....	Funnels.....	3.00
	Apfel-Murdock Co.....	Replica.....	3.12
18	Woodward & Lothrop.....	Chair.....	5.50
	do.....	Soap, etc.....	28.17
	Louis Hartig.....	Files, etc.....	7.57
	Z. D. Gilman.....	Flasks, etc.....	265.06
	do.....	Filters, etc.....	194.42
19	Arthur H. Thomas Co.....	Apparatus.....	185.68
	do.....	Tubing.....	6.62
	Yawman & Erbe Manufacturing Co.....	Cornice, etc.....	48.25
20	G. G. Cornwell & Son.....	Cans, pears.....	3.00
24	F. P. Veitch.....	Traveling expenses.....	10.46
25	Z. D. Frazee.....	Laundrying.....	8.92
	Eimer & Amend.....	Flasks.....	4.00
Sept. 9	J. B. Espey.....	Screws, etc.....	18.52
10	Mackall Bros.....	Chemicals.....	43.95
11	American Name Plate Co.....	Apparatus.....	60.00
	The J. L. Mott Iron Works.....	Sink, etc.....	36.74
12	W. H. Dyer.....	Case for apparatus.....	43.32
18	Western Union Telegraph Co.....	Telegraph service.....	6.76
19	New York, New Haven and Hartford R. R. Co.....	Transportation.....	13.00
Oct. 10	The Geo. W. Knox Express Co.....	do.....	3.09
12	S. Kann, Sons & Co.....	Nuns veiling.....	1.56
14	United States Express Co.....	Transportation.....	44.48
21	Eimer & Amend.....	Flasks.....	6.75
23	General Electric Co.....	Coils, etc.....	.95
	B. F. Starr & Co.....	Bolting cloth.....	4.80
	Skabcura Dip Co.....	Aphis punk.....	3.60
	Total.....		3,583.89

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## RECAPITULATION.

First quarter	\$10,263.45
Second quarter	10,578.75
Third quarter	14,484.21
Fourth quarter	12,691.18
Supplemental	3,583.89
Total	51,601.48

## CANE SIRUP.

Date.	Name.	Nature of payment.	Total.
1902.			
July 31	G. L. Spencer, et al	Salaries	\$163.04
Aug. 12	do	Traveling expenses	17.00
	do	do	73.29
19	D. G. Purse	Salary	51.61
	do	Traveling expenses	12.81
30	do	Salary	100.00
	do	do	168.50
Sept. 5	G. L. Spencer	Litmus	3.38
	E. R. Squibbs & Sons	Cases, etc	45.56
	Improved Mailing Case Co.		
8	Ralph Hoagland	Salary	51.61
11	Z. D. Gilman	Flasks	5.70
17	W. E. Mathewson	Salary	51.61
	do	Traveling expenses	4.63
	Ralph Hoagland	do	3.46
	Eimer & Amend	Hydrometers	15.00
	Whitall, Tatum & Co	Boxes	14.50
30	G. L. Spencer	Salary	163.00
	Total, first quarter		944.70
Oct. 1	R. N. Stunt	Evaporator	47.00
2	Ervin E. Hudson	Salary	37.50
	D. G. Purse	do	100.00
	Roy D. Stubbs	do	37.50
4	Birch & Co	Sugar	1.38
9	Ralph Hoagland	Salary	100.00
	Thos. Bragg	do	37.50
16	Perkins Windmill and Ax Co.	Tanks	53.57
	do	do	20.30
	Whitall, Tatum & Co	Pipettes	15.12
	Roy D. Stubbs	Traveling expenses	4.50
	W. E. Mathewson	Salary	100.00
	The G. L. Squier Manufacturing Co.	Pump	44.10
	Wright Manufacturing Co	Traps	38.00
	Joseph Mathy	Cylinders	3.00
	W. L. Dunham	Castings	3.00
17	Z. D. Gilman	Thermometers	9.75
	do	do	15.66
20	Ralph Hoagland	Traveling expenses	15.45
	do	do	1.96
23	Jas. Mathy	Clamps	1.50
	Helios Upton Co.	Thermometers	5.50
	Densmore Bros	Evaporators	320.00
24	Harold A. Ives	Salary	37.50
25	The Geo. L. Squier Manufacturing Co	Pump	9.45
	J. H. Edwards	Tanks	60.00
	Provident Chemical Works	Clariphos	5.00
	Jas. Oat & Sons	Coils	112.00
28	Christian Becker	Balance	24.00
31	G. L. Spencer et al	Salaries	220.67
Nov. 1	Ralph Hoagland	Traveling expenses	11.75
3	E. G. Schafer & Co.	Tees, pipe, etc	2.47
	Chas. G. Stott & Co	Paraffin paper	2.00
4	The Geo. W. Knox Express Co.	Transportation	14.49
	Georgia Supply Co.	Fittings	43.37
	Ray Davis Stubbs	Salary	75.00
	Ralph Hoagland	do	100.00
	J. M. Starr	do	75.00
	D. G. Purse	do	100.00
	Thos. Bragg	do	75.00
6	Harold A. Ives	do	75.00
	Erwin E. Hudson	do	75.00
	Improved Mailing Case Co.	Cases, etc	8.68
8	W. E. Mathewson	Salary	100.00
13	Thos. Somerville	Brass unions	26.60
17	J. R. Collins	Seed bags	21.74
	Georgia Supply Co.	Apparatus	35.33
	Ervin E. Hudson	Traveling expenses	15.45
20	Improved Mailing Case Co.	Bottles and corks	2.35

## 30 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## CANE SIRUP—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Nov. 21	Thos. Somerville & Son	Pumps	\$16.90
22	Jas. T. Wells	Apparatus	44.15
	Edw. Lovell Sons	do	8.08
29	Dulin & Martin Co	Pans	5.84
	G. L. Spencer et al	Salaries	300.80
Dec. 2	do	Traveling expenses	73.60
	R. N. Stunt	Sulphur	62.00
5	G. L. Spencer	Expenses	33.80
8	W. E. Mathewson	Salary	50.00
	D. G. Purse	do	100.00
	Thos. Bragg	do	75.00
	J. M. Starr	do	75.00
	Whitall Tatum Co.	Bottles	18.27
	D. G. Purse	Traveling expenses	3.65
	J. T. Starr	do	6.00
11	Ray D. Stubbs	Salary	75.00
	Jas. Simmons	Services	3.60
	H. A. Ives	Salary	75.00
	Ervin E. Hudson	do	75.00
	Ralph Hoagland	do	100.00
12	H. W. Wiley	Chisels, etc	3.75
	Geo. M. Newhall Engraving Co	Castings, etc	147.60
16	W. E. Mathewson	Traveling expenses	30.14
	Ervin E. Hudson	do	50.00
17	Jas. T. Wells	Lumber, etc	25.00
18	Ray Davis Stubbs	Salary	36.29
	Ervin E. Hudson	do	36.29
	H. A. Ives	do	36.29
	Ralph Hoagland	do	48.39
	Georgia Supply Co	Valves, tees, etc	15.44
	Ralph Hoagland	Expenses	12.20
	Mackall Bros	Citric acid	10.00
31	G. L. Spencer et al	Salary	309.60
	Total second quarter		4,303.62
1903.			
Jan. 5	Jas. T. Wells	Steam fittings	48.00
	do	Sugar cane	45.00
3	Jas. B. Lambie	Brass tubings	3.37
9	D. G. Purse	Salary	100.00
12	Thos. Somerville & Sons	Washers	7.77
	Arthur Given	Traveling expenses	59.20
15	Solomons Co.	Sulphur	2.25
	American Can Co.	Pails and cans	46.50
	W. E. Mathewson	Traveling expenses	17.70
	H. A. Ives	do	6.00
	Ray Davis Stubbs	Expenses	35.00
	do	Traveling expenses	4.22
	Ralph Hoagland	do	13.25
21	E. G. Schafer & Co	Pipe	1.54
22	J. M. Starr	Expenses	19.63
	Jas. Simmons	Pay roll	14.40
	J. M. Starr	Salary	75.00
	Ervin E. Hudson	Traveling expenses	30.45
	Harold A. Ives	Expenses	9.00
24	Washington Southern Rwy. Co	Passenger transportation	32.00
26	Central of Georgia Rwy. Co.	do	14.43
27	Atlantic Coast Line R. R. Co.	do	4.85
29	Geo. E. Walker	Salary	75.00
31	Arthur Given et al	Salaries	112.30
Feb. 2	D. G. Purse	Salary	100.00
3	Thos. Bragg	do	111.29
12	J. M. Starr	Traveling expenses	2.00
	Adams Express Co	Transportation	11.50
19	The South Georgia Rwy. Co	Passenger transportation	8.51
25	Jas. T. Wells	Sirup	129.20
28	Arthur Given et al	Salaries	77.53
Mar. 5	The Geo. W. Knox Express Co.	Transportation	12.15
12	D. G. Purse	Salary	100.00
14	Thos. Bragg	Traveling expenses	26.80
23	Dulin & Martin Co	Pans	1.34
31	Arthur Given et al	Salaries	112.30
	Total third quarter		1,499.38
Apr. 17	D. G. Purse	Traveling expenses	16.15
	do	Services	100.00
18	Chicago Great Western Rwy. Co	Passenger transportation	38.25
	Atlantic Coast Line R. R. Co.	do	47.95

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## CANE SIRUP—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Apr. 30	Arthur Given et al .....	Salaries .....	\$109.20
May 4	D. G. Purse .....	Salary .....	100.00
8	United States Express Co. ....	Transportation .....	17.26
15	D. G. Purse .....	Traveling expenses .....	5.60
	do .....	do .....	26.85
31	Arthur Given et al .....	Salaries .....	111.60
June 10	D. G. Purse .....	Salary .....	100.00
23	Savannah Guano Co. ....	Chemicals .....	19.02
30	Arthur Given et al .....	Salaries .....	109.20
	Total fourth quarter .....		801.08
	<i>Supplemental.</i>		
July 1	D. G. Purse .....	Salary .....	100.00
9	W. B. Roddenbery .....	Expenses .....	42.26
20	D. G. Purse .....	Traveling expenses .....	22.30
21	W. B. Roddenbery .....	Salary .....	200.00
28	D. G. Purse .....	Labor, etc .....	9.00
Aug. 15	Adams Express Co .....	Transportation .....	71.05
Sept. 3	D. G. Purse .....	Traveling expenses .....	11.40
Oct. 10	Postal Telegraph Cable Co .....	Telegraph service .....	1.30
	Total .....		457.31

## RECAPITULATION.

First quarter .....	\$944.70
Second quarter .....	4,303.62
Third quarter .....	1,499.38
Fourth quarter .....	801.08
Supplement .....	457.31
Total .....	8,006.09

## SOILS INVESTIGATIONS.

Date.	Name.	Nature of payment.	Total.
1902.			
July 17	Washington Rwy. and Electric Co .....	Car tickets .....	\$3.00
19	T. F. Jones .....	Kalsomining .....	15.00
23	Fauth & Co. ....	Repairs to alidade .....	1.00
24	The Bunnell Telegraph and Electric Co .....	Wire .....	.72
25	Fred. A. Schmidt .....	Paper and cloth .....	5.50
29	E. J. Pullman .....	Boxes, etc .....	91.00
	M. Du Perow .....	Buzzers .....	.70
	do .....	Fans .....	36.50
31	F. H. King et al .....	Salaries .....	1,561.70
Aug. 1	Geo. B. Massey .....	Salary .....	151.60
	Geo. T. McNess .....	do .....	151.60
	Lawson H. Shelfer .....	do .....	126.40
	Macy H. Lapham .....	do .....	117.90
	Chas. A. Jensen .....	do .....	117.90
	R. T. A. Burke .....	do .....	101.10
	J. E. Lapham .....	do .....	101.10
	J. O. Betz .....	do .....	101.10
	Elmer O. Fippen .....	do .....	101.10
	Henry J. Wilder .....	do .....	78.26
	Chas. N. Mooney .....	do .....	101.10
	Edger Buckingham .....	do .....	101.10
	Herman Schmidt .....	do .....	100.00
	Wm. H. Knox .....	do .....	84.20
	Frank Bennett, jr. ....	do .....	84.20
	Thos. D. Rice .....	do .....	84.20
	W. E. Hearn .....	do .....	84.20
	G. B. Jones .....	do .....	84.20
	Louis Mesmer .....	do .....	84.20
	J. B. Stewart .....	do .....	84.20
	F. W. Taylor .....	do .....	84.20
	H. W. Marean .....	do .....	84.20
	W. C. Palmer .....	do .....	75.80
	N. P. Neill .....	do .....	70.80
	Fred E. Bonsteel .....	do .....	70.80
	Henry Weimberg .....	do .....	70.80
	A. H. Prince .....	do .....	70.80

## 32 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

*Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.*

## SOILS INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Aug. 1	W. W. Cobey	Salary	\$70.80
	Edwin C. McDuffie	do	70.80
	Louis W. Ayer	do	70.80
	Harry Rich	do	70.80
	M. F. Miller	do	60.60
	A. T. Strahorn	do	60.60
	Albert S. Root	do	60.60
	Jas. L. Burgess	do	60.60
	Alfredo M. Sanchez	do	60.60
	A. W. Mangum	do	60.60
	Wm. T. Carter, jr.	do	60.60
	Thos. A. Caine	do	60.60
	Willie E. McLendon	do	60.60
	Chas. W. Ely	do	60.60
	Roscoe H. Shaw	do	53.23
	A. H. Snyder	do	50.50
	Oswald Schreiner	do	41.13
	R. D. Hall	do	41.13
	A. Wade	do	37.10
	Geo. H. Failyer	do	33.26
	Fredk. Carl	do	24.00
	Jas. S. Topham	Handles	1.00
	W. H. Dyer	Boxes	3.00
2	Lyman J. Briggs	Traveling expenses	31.75
4	Milton Whitney	do	13.60
	Wolf Bros	Envelopes	7.03
	Saml. F. Bagg	Brick, etc	20.45
6	R. E. B. McKenney	Traveling expenses	155.16
	R. C. M. Burton & Son	Awnings	6.00
11	Z. D. Gilman	Jars	47.71
	Elmer O. Pippin	Traveling expenses	110.60
	Jay A. Bonsteel	do	85.34
	Geo. N. Coffee	do	98.64
	Geo. B. Massie	do	88.00
	Chas. R. Edmonston	Tubes, etc	10.20
	J. E. Lapham	Traveling expenses	109.47
	W. P. Martin & Co	Paste	2.00
12	Houghton & Delano	Solio paper	37.87
	Forsberg & Murray	Hanger	7.50
	Fred. A. Schmidt	Paper	20.15
	do	Crayons	15.00
14	F. H. King	Traveling expenses	81.15
	W. B. Moses & Sons	Linoleum	12.00
	Dulin & Martin Co	Cans	3.25
	L. H. Shelfer	Traveling expenses	115.45
	W. G. Smith	do	93.52
	W. H. Hielman	do	51.36
	Louis Mesmer	do	158.60
	Chas. N. Mooney	do	162.44
	H. W. Marean	do	141.17
	Chas. A. Jensen	do	162.76
	W. E. Hearn	do	120.87
	Macey H. Lapham	do	134.87
	F. W. Taylor	do	107.15
	Frank Bennett, jr.	do	101.25
	Richards & Co.	Dessicators	10.00
	United States Envelope Co	Envelopes	14.10
	W. & L. E. Gurley	Drawing board, etc.	21.89
15	Wm. Roche	Cells	3.52
	Eberhart Faber	Bands	4.98
	W. & L. E. Gurley	Tripod, etc	26.69
	Whitall Tatum Co.	Beakers, etc	13.17
	do	Glass rods	.90
	J. Garnett Holmes	Traveling expenses	152.95
20	Mrs. Henry A. Cady	Bags	30.00
	Fredk. Carl	Parts for instruments	6.00
	do	Tubes	15.00
	Geo. F. Muth & Co.	Oil	3.20
	R. T. A. Burke	Traveling expenses	133.26
	Geo. T. McNess	do	128.19
22	Herman Schmidt	Salary	48.39
23	Julius Biew & Co	Maps	15.00
26	Fred A. Schmidt	India ink, etc	5.76
	Washington Gas Light Co	Gas	8.40
	United States Electric Lighting Co	Current	7.41
	Frank E. Hopkins	Lighters	1.00
	E. Morrison Paper Co	Mailing tubes	2.75
	The M. Lindsay Rubber Co.	Washers	1.20
	R. Carter Ballantyne	Tags	3.92
	Jas. B. Lambie	Hooks	.80

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## SOILS INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Aug. 25	Jno. C. Parker	Paste	\$4.25
27	Chas. E. Edmonston	Filter bougees	6.00
	Thos. Somerville & Sons	Air chamber, valves, etc	20.60
	C. S. Kesslers & Bros	Bicycle pump	6.00
	E. Morrison Paper Co	Copying paper	16.00
	R. P. Andrews & Co., Inc	Pencils	2.50
	do	do	5.88
	Henry J. Green	Thermometers	39.00
	Queen & Co. Inc.	Weights	9.00
28	The M. Lindsay Rubber Co	Gaskets	1.20
	Jas. N. Rupp	Ink	2.25
30	F. H. King, et al	Salaries	1,747.96
Sept. 2	Chas. A. Jensen	Salary	117.90
	Macy H. Lapham	do	117.90
	Edgar Buckingham	do	101.10
	J. O. Belz	do	101.10
	R. T. A. Burke	do	101.10
	Elmer O. Fippen	do	101.10
	J. E. Lapham	do	101.10
	Henry J. Wilder	do	101.10
	Chas. N. Mooney	do	48.91
	Wm. H. Knox	do	84.20
	Fredk. W. Taylor	do	84.20
	Herbert W. Marean	do	84.20
	Frank Bennett, jr	do	84.20
	Thos. D. Rice	do	84.20
	W. E. Hearn	do	84.20
	G. B. Jones	do	84.20
	Louis Mesmer	do	84.20
	J. B. Stewart	do	84.20
	W. C. Palmer	do	75.80
	Roscoe H. Shaw	do	75.00
	O. Schreiner	do	75.00
	R. D. Hall	do	75.00
	A. H. Prince	do	70.80
	Harry Rich	do	70.80
	Louis W. Ayer	do	70.80
	Edwin C. McDuffie	do	70.80
	W. W. Cobey	do	70.80
	Fred E. Bonsteel	do	70.80
	N. P. Neill	do	70.80
	Henry Weinberg	do	70.80
	M. F. Miller	do	60.60
	A. T. Strahorn	do	60.60
	A. S. Root	do	60.60
	Jas. L. Burgess	do	60.60
	A. M. Sanchez	do	60.60
	A. W. Mangum	do	60.60
	W. T. Carter, jr	do	60.60
	Chas. W. Ely	do	60.60
	W. E. McLendon	do	60.60
	Geo. H. Failyer	do	60.60
	Thos. A. Caine	do	60.60
	Addison H. Snyder	do	50.50
	A. Wade	do	50.50
	Herbert L. Belden	do	31.30
	R. P. Andrews & Co., Inc.	Wrapping paper	15.00
3	Geo. B. Massey	Salary	151.60
	Geo. T. McNess	do	151.60
	Lawson H. Shelfer	do	126.40
	S. H. Davis & Co	Odometers	4.20
4	Milton Whitney	Traveling expenses	69.03
5	E. F. Vermillion	Inspecting boilers	5.00
	Geo. B. Massey	Traveling expenses	98.90
	Geo. N. Coffey	do	72.34
	Jay A. Bonsteel	do	127.43
	W. E. Hearn	do	136.29
	F. W. Taylor	do	68.85
	Lawson H. Shelfer	do	84.15
	J. E. Lapham	do	76.61
6	Frank Bennett, jr	do	96.48
	Chas. A. Jensen	do	132.66
	W. G. Smith	do	142.35
	H. W. Marean	do	143.07
	Fred A. Schmidt	Pencils	5.40
	J. Garnett Holmes	Traveling expenses	177.07
	Macy H. Lapham	do	167.74
8	W. & L. E. Gurley	Compass	13.60
	Fredk. Carl	Pumps, etc	40.00

34 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

SOILS INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Sept. 8	Fred A. Schmidt	Wax crayons	\$2.40
	E. J. Pullman	Plates	6.96
9	W. H. Heileman	Traveling expenses	215.64
11	Houghton & Delano	Photo supplies	12.96
	Louis Hartig	Iron	1.47
	Thos. Somerville & Sons	Wrenches	11.12
	Fred A. Schmidt	Paint, etc	11.83
	Z. D. Gilman	Flasks, etc	34.79
15	R. D. Hall	Salary	35.00
	Oswald Schreiner	do	35.00
17	Louis Mesmer	Traveling expenses	161.35
	Chas. N. Mooney	do	154.52
	Standard Oil Co	Dynamo oil	.96
	Elmer H. Catlin & Co	Nickel plating	1.25
	Rudolph, West & Co	Cotton waste	3.63
	Whitall Tatum Co	Jars	10.25
	Kueffel & Esser Co	Slide rule	8.55
18	Washington Southern Rwy. Co.	Passenger transportation	43.00
	Texas and New Orleans R. R. Co	do	30.95
	New York, New Haven and Hartford R. R. Co.	do	6.80
	Pennsylvania R. R. Co	do	22.25
	New York Central and Hudson River R. R. Co.	do	79.62
	The Geo. W. Knox Express Co	Transportation	.77
	Merk & Co.	Chemicals	3.16
19	F. H. King	Traveling expenses	114.70
	do	Expenses	105.52
23	R. T. A. Burke	Traveling expenses	139.19
24	Wallace & Menchine.	Asbestos paper	.96
	Albert E. Acker Co.	Tube of gas	2.00
	Jno. C. Parker	Eyelet machine	3.00
	H. W. Marean	Traveling expenses	110.20
	Elmer O. Fippin	do	114.94
	Queen & Co., Inc	Tubes	28.50
	Richards & Co	Triangles	2.00
26	The Pennsylvania R. R. Co	Passenger transportation	12.75
	Pittsburgh, Cincinnati, Chicago and St. Louis Rwy. Co.	do	50.75
	New York Central and Hudson River R. R. Co.	do	10.48
	Southern Rwy. Co.	do	28.30
30	Edgar Buckingham	Salary	97.80
	L. J. Briggs et al	Salaries	1,226.36
	Total first quarter		18,728.75
Oct. 1	Wolf Bros	Envelopes	17.80
	W. & L. E. Gurley	Plane tables	65.67
	Eimer & Amend	Chemicals	3.00
	Henry J. Green	Thermometers	6.00
	Merk & Co.	Chemicals	26.54
	Goldsboro Hardware Co	Stove, etc	20.00
	Chas. N. Mooney	Salary	48.91
	Addison H. Snyder	do	49.00
	A. Wade	do	50.00
	A. T. Strahorn	do	58.80
	A. S. Root	do	58.80
	Adolphus Williamson	do	58.80
	Wm. T. Carter, jr	do	58.80
	Chas. W. Ely	do	58.80
	Wm. E. McLendon	do	58.80
	Geo. H. Failyer	do	58.80
	H. L. Beldin	do	58.80
	Lewis W. Ayer	do	68.40
	Edw. C. McDuffie	do	68.40
	W. W. Cobey	do	68.40
	Fred E. Bonsteel	do	68.40
	N. P. Neill	do	68.40
	Henry Weinberg	do	68.40
	A. H. Prince	do	68.40
	Harry Rich	do	68.40
	W. C. Palmer	do	73.40
	J. B. Stewart	do	81.60
	Jas. L. Burgess	do	81.60
	A. M. Sanchez	do	81.60
	Roscoe H. Shaw	do	81.60
	Louis Mesmer	do	81.60
	G. B. Jones	do	81.60
	W. E. Hearn	do	81.60



Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## SOILS INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1902. Oct. 1	Thos. D. Rice	Salary	\$81.60
	Frank Bennett, jr	do	81.60
	Herbert W. Marean	do	81.60
	Fredk. W. Taylor	do	81.60
	Wm. H. Knox	do	81.60
	Thos. A. Caine	do	92.61
	Henry J. Wilder	do	97.80
	J. E. Lapham	do	97.80
	Elmer O. Fippin	do	97.80
	R. T. A. Burke	do	97.80
	J. O. Belz	do	97.80
	Chas. A. Jensen	do	114.20
	Lawson H. Shelfer	do	122.20
	Geo. T. McNess	do	146.80
	Geo. B. Massey	do	146.80
	Macy H. Lapham	do	114.20
	F. H. King	do	326.00
3	Fredk. Carl	Tube, etc	18.50
	Geo. T. McNess	Traveling expenses	241.39
4	Geo. B. Massey	do	69.65
6	L. E. Knott Apparatus Co.	Wheel, etc	3.72
	Elmer O. Fippin	Traveling expenses	78.38
	W. G. Smith	do	132.24
	Macy H. Lapham	do	251.83
	J. A. Bonsteel	do	116.34
7	Frank Bennett, jr	do	91.33
	W. H. Heileman	do	137.75
	W. E. Hearn	do	135.11
	J. E. Lapham	do	102.96
10	L. H. Shelfer	do	60.30
	R. T. A. Burke	do	65.81
	Washington Woodworking Co	Map case	49.50
	Z. D. Gilman	Filler papers, etc	34.08
	R. P. Andrews & Co. (Incorporated)	Wrapping papers	12.50
13	Louis Mesmer	Traveling expenses	148.20
	Geo. N. Coffey	do	61.04
	F. W. Taylor	do	107.95
	F. H. King	Expenses	43.90
	do	Traveling expenses	119.55
15	Mrs. Henry E. Cady	Sacks	30.00
	Chas. R. Edmonston	Filter tubes	10.34
	Houghton & Delano	Plate holders	5.00
16	Franklin Laboratory Supplies Co.	Weights	3.60
	Driver-Harris Wire Co	Manganium	13.60
	Andrew J. Floyd & Co	Table	2.40
	Whitall, Tatum & Co	Test tubes	3.00
	Eimer & Amend	Bulbs	3.90
	do	Cylinders	11.82
	The Torsion Balance Co	Scale	15.00
	Franklin Laboratory Supplies Co	Steel spatulas	1.20
	Chas. A. Jensen	Traveling expenses	157.20
	Chas. N. Mooney	do	147.25
17	Fred A. Schmidt	Ruling pens, etc	8.90
	do	Drawing paper	14.25
	do	Tracing cloth	19.88
	R. Carter Ballantyne	Pens	3.99
	Jas. B. Lambie	Screws, etc	4.85
	Thos. Somerville & Sons	Plumbers' supplies	6.32
20	Geo. T. McNess	Traveling expenses	294.59
	Jno. W. Collins	Boxes	10.00
21	Rudolph, West & Co	Screw-drivers	.90
	Chas. R. Edmonston	Filtering tubes	12.00
	Whitall Tatum Co	Flasks	11.37
24	Wm. H. Dyer	Boxes	28.00
	R. P. Clarke Co	Toweling	2.40
	The University of Wisconsin	Use of laboratory	24.36
25	Eimer & Amend	Gauze	2.20
	do	Alcohol lamps	14.60
	Geo. T. McNess	Traveling expenses	225.32
28	Eberhard Faber	Erasers	1.05
	do	do	.90
29	Chas. R. Edmonston	Filter tubes	6.00
	Woodward & Lothrop	Sheeting, etc	8.12
	Barber & Ross	Wrenches	1.00
	Mackall Bros	Chemicals	9.02
	do	do	45.03
31	F. H. King et al	Salaries	2,074.13
Nov. 1	Rudolph Bros	Salary	10.00
	Geo. T. McNess	do	203.80
	Walter M. Hinson	do	89.67

36 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

SOILS INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Nov. 1	Geo. B. Massey	Salary	\$151.60
	Geo. H. Failyer	do	60.60
	Lawson H. Shelfer	do	148.10
	A. S. Root	do	60.60
	Jas. L. Burgess	do	60.60
	Alfredo M. Sanches	do	60.60
	A. W. Mangum	do	60.60
	William T. Carter	do	60.60
	C. W. Ebey	do	60.60
	Willie E. McLendon	do	60.60
	A. H. Prince	do	70.80
	Harvey Rich	do	70.80
	Lewis W. Ayer	do	70.80
	W. W. Cobey	do	70.80
	N. P. Neill	do	70.80
	Harry Weinberg	do	70.80
	Edwin C. McDuffie	do	70.80
	Jno. B. Stewart	do	84.20
	Louis Mesmer	do	84.20
	G. B. Jones	do	84.20
	W. E. Hearn	do	84.20
	Thos. D. Rice	do	84.20
	Frank Bennett, jr	do	84.20
	Fredk. W. Taylor	do	84.20
	Wm. H. Knox	do	84.20
	Henry J. Wilder	do	101.10
	J. E. Lapham	do	101.10
	Elmer O. Fippen	do	101.10
	R. T. A. Burke	do	101.10
	Chas. N. Mooney	do	101.10
	Thos. A. Caine	do	101.10
	Macy H. Lapham	do	117.90
	Chas. A. Jensen	do	117.90
	Fred E. Bonsteel	do	27.39
	Herbert W. Marean	do	51.63
	Queen & Co. (Incorporated)	Triangles	2.00
	J. P. Nawrath	Tape	1.50
	Jno. B. Espey	Solder	2.00
	Jno. Underwood & Co.	Carbon paper	1.88
3	Chas. R. Edmonston	Cuspidors	4.67
	Fredk. Carl	Apparatus	14.80
	District of Columbia Paper Manufactur- ing Co.	Blotting paper	.77
	The Burnell Telephone and Electric Co.	Pliers	8.64
4	Washington Gaslight Co	Gas	10.00
	do	do	16.10
	United States Electric Lighting Co	Current	6.82
	do	do	8.38
5	Tower Manufacturing and Novelty Co	Pencil pockets	2.50
	C. S. Kessler & Bro	Bicycle pump	2.00
6	W. J. Woods	Salary	8.06
	Elmer O. Fippen	Traveling expenses	125.79
	J. E. Lapham	do	111.55
	Macy H. Lapham	do	145.25
	F. W. Taylor	do	109.87
	Geo. B. Massey	do	28.70
	Z. D. Gilman	Rubber tubing	56.80
	Rudolph, West & Co	Screw-drivers, etc	6.93
	Fredk. Carl	Filter pumps	42.00
	Castleberg's National Jewelry Co.	Repairing watch	2.00
8	S. Kann's sons & Co.	Plates	1.67
	Charles N. Mooney	Traveling expenses	119.02
	Geo. N. Coffey	do	139.23
	Frank Bennett, jr	do	112.71
	W. G. Smith	do	127.75
	R. T. A. Burke	do	263.00
	W. & L. E. Gurley	Tables, etc	43.78
11	F. H. King	Traveling expenses	32.30
	W. H. Helleman	do	61.80
13	Houghton & Delano	Photo supplies	17.53
	Mackall Bros	Glycerin	.83
	do	Wire	4.85
	R. Carter Ballantyne	Desk baskets	1.64
	C. Becker	Trunks	29.25
	Thos. Somerville & Sons	Wrenches, etc	14.68
	Church & Stephenson	Lumber	9.36
17	Western Electric Co	Coils	10.00
	Wm. Krafft	Pepton	6.25
	L. H. Shelfer	Traveling expenses	86.35
	P. F. Van Everen	Library numbers	3.00

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## SOILS INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Nov. 17	Jas. B. Lambie .....	Bucket, etc .....	80.80
	E. Morrison Paper Co .....	Copying paper .....	20.00
18	Pittsburg, Cincinnati, Chicago and St. Louis Rwy. Co. ....	Passenger transportation .....	14.00
	Atchison, Topeka and Santa Fe Rwy. Co. ....	do .....	90.00
	Washington Southern Rwy. Co. ....	do .....	24.90
	St. Louis Southwestern Rwy. Co. ....	do .....	30.74
	Atlantic Coast Line R. R. Co. ....	do .....	25.50
	do .....	do .....	13.75
	Seaboard Air Line Rwy. Co. ....	do .....	26.00
	do .....	do .....	18.40
	Southern Rwy. Co. ....	do .....	39.50
	Baltimore and Ohio R. R. Co. ....	do .....	10.00
	do .....	do .....	12.75
	New York, New Haven and Hartford R. R. Co. ....	do .....	30.05
	Lewis A. Hurst .....	Salary .....	6.52
	Chicago and Northwestern Rwy. Co. ....	Passenger transportation .....	17.25
	New York, New Haven and Hartford R. R. Co. ....	do .....	50.15
	Northern Pacific Rwy. Co. ....	do .....	38.40
	do .....	do .....	45.75
	The Pennsylvania R. R. Co. ....	do .....	87.13
	Chicago and Alton Rwy. Co. ....	do .....	10.25
	Texas and New Orleans R. R. Co. ....	do .....	37.30
	Norfolk and Western Rwy. Co. ....	do .....	15.50
	St. Louis and San Francisco Rwy. Co. ....	do .....	22.36
	Burlington and Missouri River R. R. Co. ....	do .....	26.35
	The Missouri Pacific Rwy. Co. ....	do .....	13.60
	Oregon R. R. and Navigation Co. ....	do .....	47.95
	do .....	do .....	85.00
19	Chicago, Burlington and Quincy R. R. Co. ....	do .....	37.50
	Potomac Electric Power Co. ....	Electric current .....	6.23
	The Torsion Balance Co. ....	Scale .....	50.00
	Henry J. Green .....	Thermometers .....	11.00
	The M. Lindsay Rubber Co. ....	Ice bags .....	33.00
	Whitall, Tatum & Co. ....	Jars .....	14.25
	Eimer & Amend .....	Chemicals .....	7.89
	do .....	Burettes .....	14.40
	W. B. Moses & Sons .....	Tacks, etc. ....	.90
	do .....	Oilcloth .....	2.75
	Mackall Bros .....	Chemicals .....	18.45
20	Geo. T. McNess .....	Traveling expenses .....	114.54
22	Thos. H. Means .....	do .....	36.78
	F. H. King .....	Expenses .....	5.49
	Louis Mesmer .....	Traveling expenses .....	115.37
24	Milton Whitney .....	do .....	65.80
25	Woodward & Lothrop .....	Furniture, etc. ....	58.20
	Hugh Reilly .....	Glass .....	7.20
	Southern Rwy. Co. ....	Passenger transportation .....	22.65
29	F. H. King et al .....	Salaries .....	2,080.59
Dec. 1	F. E. Bonsteel .....	Salary .....	34.20
	Rudolph Boss .....	do .....	10.00
	Chas. W. Ely .....	do .....	58.80
	Willie E. McLendon .....	do .....	58.80
	A. W. Mangum .....	do .....	58.80
	Herman A. Clark .....	do .....	50.00
	W. J. Wood .....	do .....	50.00
	Fredk. W. Taylor .....	do .....	81.60
	Thos. D. Rice .....	do .....	81.60
	W. E. Hearn .....	do .....	81.60
	Harry Rich .....	do .....	68.40
	N. P. Neill .....	do .....	68.40
	Aldert S. Root .....	do .....	58.80
	Wm. T. Carter, jr. ....	do .....	58.80
	Jno. T. Burgess .....	do .....	58.80
	Alfredo M. Sanchez .....	do .....	58.80
	Frank Bennett, jr. ....	do .....	81.60
	Louis W. Ayer .....	do .....	81.60
	Wm. H. Knox .....	do .....	81.60
	G. B. Jones .....	do .....	81.60
	Henry Weinberg .....	do .....	97.80
	Thos. A. Caine .....	do .....	97.80
	Jno. B. Stewart .....	do .....	97.80
	A. H. Prince .....	do .....	97.80
	Henry J. Wilder .....	do .....	97.80
	J. E. Lapham .....	do .....	97.80
	R. T. A. Burke .....	do .....	97.80
	Elmer O. Fippen .....	do .....	97.80
	Chas. N. Mooney .....	do .....	97.80

38 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

SOILS INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1902. Dec. 1	W. W. Cobey	Salary	\$97.80
	Macy H. Lapham	do	114.20
	Louis Mesmer	do	114.20
	Chas. A. Jensen	do	114.20
	Walter M. Hinson	do	122.20
	Geo. B. Massey	do	146.80
	Lawson H. Shelfer	do	163.00
	Geo. T. McNess	do	244.60
2	Jno. C. Parker	Stationery supplies	28.24
3	Southern California Rwy. Co.	Passenger transportation	3.85
	Chicago and Northwestern Rwy.	do	105.96
	Atlantic Coast Line R. R. Co.	do	23.15
4	Washington Gaslight Co.	Gas	11.60
	Z. D. Gilman	Fruit jars	132.18
	Geo. B. Massey	Traveling expenses	169.65
	Geo. N. Coffey	do	99.18
5	Wyckoff, Seamans & Benedict.	Ribbons	9.63
6	Houghton & Delano	Solio paper	5.30
8	E. Faber	Pencils	2.21
	Whitall Tatum Co.	Flasks, etc	11.12
	Eimer & Amend	Tubes, weights, etc	17.49
	J. E. Lapham	Traveling expenses	126.03
	Chas. E. Jensen	do	133.15
	Macy H. Lapham	do	299.38
	Geo. T. McNess	do	120.43
	Andrus & Church	Paper	5.25
10	W. B. Moses & Sons	Bookcases	9.00
11	W. H. Heileman	Traveling expenses	30.85
	R. T. A. Burke	do	269.45
	Thos. D. Rice	do	134.41
	Elmer O. Fippin	do	114.84
	W. G. Smith	do	135.95
12	Rudolph, West & Co	Thumb tacks	1.03
	Barber & Ross	Screw bits, etc	1.25
	E. G. Schafer & Co	Pipe, etc	5.26
	Fredk. Carl	Aspirators	10.45
	Fred A. Schmidt	Drawing paper	14.25
	Julien P. Freiz.	Forms	2.50
13	Chas. N. Mooney	Traveling expenses	100.30
	Chesapeake and Potomac Telephone Co.	Moving telephone	3.00
	L. H. Shelfer	Traveling expenses	89.70
16	Frank Bennett, jr	do	91.41
	Berger Bros	Condenser	4.50
17	Aldert E. Acker Co.	Connections	1.50
	Fredk. Carl	Tubes and boxes	10.80
18	Church & Stephenson	Lumber	3.39
19	Atlantic Coast Line R. R. Co.	Passenger transportation	54.40
	do	do	51.60
	Oregon Short Line R. R. Co.	do	69.80
	Southern Rwy. Co.	do	5.30
	do	do	37.30
	Lake Shore and Mich. Southern Rwy. Co.	do	9.23
	Louisville and Nashville R. R. Co.	do	15.50
	The Pennsylvania R. R. Co.	do	17.50
	Baltimore and Ohio R. R. Co.	do	54.14
	Washington Southern Rwy. Co.	do	28.15
22	Geo. N. Saegumiller	Tubes	12.00
31	Thos H. Means	Traveling expenses	14.60
	F. H. King et al	Salaries	2,043.85
	Total second quarter.		25,739.79
1903. Jan. 2	Geo. N. Coffey	Traveling expenses	11.25
	Geo. T. McNess	Salary	252.70
	Lawson H. Shelfer	do	168.50
	Geo. B. Massey	do	151.60
	Walter M. Hinson	do	126.40
	Macy H. Lapham	do	117.90
	Chas. A. Jensen	do	117.90
	Louis Mesmer	do	117.90
	Henry J. Wilder	do	101.10
	Thos. A. Caine	do	101.10
	R. T. A. Burke	do	101.10
	J. E. Lapham	do	101.10
	Chas. N. Mooney	do	101.10
	Elmer O. Fippin	do	101.10
	A. H. Prince	do	101.10
	Henry Weinberg	do	101.10
	Jno. B. Stewart	do	101.10

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## SOILS INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Jan. 2	W. W. Cobey	Salary	\$101.10
	Wm. H. Knox	do	84.20
	T. W. Taylor	do	84.20
	Thos. D. Rice	do	84.20
	W. E. Hearn	do	84.20
	Frank Bennett, jr	do	84.20
	G. B. Jones	do	84.20
	Lewis W. Ayer	do	84.20
	N. P. Neill	do	70.80
	F. E. Bonsteel	do	70.80
	Harry Rich	do	70.80
	Jas. L. Burgess	do	60.60
	Aldert S. Root	do	60.60
	Alfredo M. Sanchez	do	60.60
	A. W. Manquin	do	60.60
	W. E. McLendon	do	60.60
	Chas. W. Ely	do	60.60
	Wm. T. Carter, jr	do	60.60
	Wm. J. Wood	do	50.50
	Herman A. Clark	do	50.50
	Rudolph Bros.	do	10.00
3	Milton Whitney	Traveling expenses	36.10
5	Saml. F. Bagg	Furnace repairs	37.10
	Wolf Bros	Envelopes	17.80
	Chas. R. Edmonston	Filter tubes	12.00
	Jas. N. Rupp	Scrapbooks	5.15
	Rudolph. West & Co	Thumb tacks	2.05
	Potomac Electric Power Co	Current	9.90
	do	do	13.16
	Z. D. Gilman	Funnels, etc	71.49
6	E. R. Squibb & Sons	Acid	.97
	W. & L. E. Gurley	Screws, etc	1.10
	do	do	2.40
	do	Metallic tape	6.50
	do	Tables	43.78
7	J. E. Lapham	Traveling expenses	191.74
	W. G. Smith	do	110.60
	Chas. W. Mooney	do	54.99
	F. W. Taylor	do	60.55
8	Church & Stephenson	Lumber	9.24
	Jas. B. Lambie	Tubing	.30
	do	Scissors, etc.	5.33
	do	Sash chain, etc	6.28
	Jno. Higgins et al	Labor	2.00
12	W. B. Moses & Sons	Chairs	10.32
	J. E. Ergood Co.	Matches	1.28
	District of Columbia Paper Manufactur- ing Co.	Blotting paper	11.88
	Densmore Typewriter Co	Copyholder	2.00
	Woodward & Lothrop	Desk, etc	17.74
	do	Sheeting	12.50
	Mackall Bros	Wire, etc	8.03
	do	Laboratory supplies	65.21
	Thos. Somerville & Sons	Boxes	3.40
13	Houghton & Delano	Photo supplies	7.44
	Little & Page	Florence lamp	2.70
	Fred. A. Schmidt	Drawing paper	28.50
	do	Pens	2.35
	do	Compass, etc	39.05
	R. P. Andrews & Co. (Incorporated)	Manila paper	10.00
	Elmer H. Catlin & Co	Plating cylinders	.50
	do	Nickel plating	.80
15	Jno. Underwood & Co.	Carbon paper	2.70
	Driver & Harris Wire Co.	Platinoid	2.00
	Bausch & Lomb Optical Co.	Forceps	11.15
	Library Bureau	Stands	10.00
	Whitall Tatum Co.	Flasks	3.20
	do	Glass rods	3.43
	Eimer & Amend	Pipettes	2.90
	do	Chemicals, etc	3.31
	do	Rings, etc.	4.70
	do	Laboratory supplies	61.52
	Wm. Roche	Batteries	6.72
	Arthur H. Thomas Co	Glass	.31
	Mercke & Co	Chemicals	10.28
	W. & L. E. Gurley	Scales	4.80
	Chas. A. Jensen	Traveling expenses	63.10
	W. H. Heileman	do	46.45
	L. H. Shelfer	do	102.75
	Geo. T. McNess	do	82.46

40 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

SOILS INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Jan. 16	Louis Hartig	Iron	\$2.79
	Berger Bros	Water bath, etc	12.00
	R. P. Clark & Co	Toweling	10.00
	Macy H. Lapham	Traveling expenses	211.80
	Thos. A. Caine	do	81.50
	Elmer O. Fippin	do	133.71
17	Queen & Co. (Incorporated)	Bulbs, etc	7.08
	do	do	8.30
	Schneider Bros	Thermometers	39.75
20	W. & L. E. Gourley	Tables	43.78
21	Louis Mesmer	Traveling expenses	80.05
	Thos. D. Rice	do	59.93
	Washington Gaslight Co	Gas	9.80
	do	do	11.50
	Barber & Ross	Auger bits	3.60
	E. G. Schafer & Co	Pipe	2.95
	M. Du Perow	Tape	.80
	do	Wire	1.00
	E. Morrison Paper Co	Copying paper	20.00
	Fred. A. Schmidt	Wax crayon	33.00
	Mackall Bros	Chemicals	13.35
	Edw. E. Howell	Hammers	27.00
	Clarence S. Kessler	Pump	1.25
22	The Sternberg Manufacturing Co.	Cigar knife, etc	2.95
24	Washington R. R. and Electric Co.	Car tickets	3.00
	National Electric Supply Co.	Wire	2.25
	John Higgins	Services	1.50
	St. Louis and San Francisco R. R. Co.	Passenger transportation	22.05
	do	do	60.35
	Southern Pacific Rwy. Co.	do	11.75
26	Lake Shore and Mich. Southern Rwy. Co.	do	51.58
	Houston and Texas Central R. R. Co.	do	13.10
	Southern Pacific Co.	do	22.65
	Fort Worth and Denver City Rwy. Co.	do	48.65
	R. T. A. Burke	Traveling expenses	237.75
	United States Envelope Co	Envelopes	40.80
	Whitall-Tatum Co	Flasks, etc	8.50
	do	do	32.03
	Geo. F. Muth & Co.	Instruments	79.75
27	Southern Rwy. Co.	Passenger transportation	248.80
	Atlantic Coast Line R. R. Co.	do	90.05
	Pennsylvania R. R. Co.	do	23.54
	Cleveland, Cincinnati, Chicago and St. Louis Rwy. Co.	do	23.35
28	S. H. Davis & Co.	Bell odometers	45.00
	Richards & Co.	Thermometers	10.50
	D. Frank Parker	Typewriter paper	2.88
	Fredk. Carl	Filter pumps	36.00
	Jno. T. Springman	Fire plate	1.50
	Barber & Ross	Augers	14.40
	Fred. A. Schmidt	Oil boards, etc	2.85
31	W. E. Heran	Traveling expenses	49.55
	F. H. King et al	Salaries	2,488.33
Feb. 2	Jno. C. Parker	Stationery supplies	13.01
	Little & Page	Lamps	6.20
	Fredk. Carl	Filter pumps	27.45
	C. Becker	Trunks	29.25
	Geo. T. McNess	Traveling expenses	43.15
	Jas. L. Gill	Salary	40.00
	Geo. T. McNess	do	258.30
	Chas. N. Mooney	do	103.30
	Fredk. W. Taylor	do	86.10
	Herbert W. Marean	do	55.56
	Lawrence H. Shelfer	do	172.20
	Geo. B. Massey	do	155.00
	Walter M. Hinson	do	129.20
	Chas. A. Jensen	do	120.60
	Louis Mesmer	do	120.60
	Macy H. Lapham	do	120.60
	R. T. A. Burke	do	103.30
	J. E. Lapham	do	103.30
	W. W. Cobey	do	103.30
	Henry J. Wilder	do	103.30
	Henry Weinberg	do	103.30
	Thos. A. Caine	do	103.30
	Jno. B. Stewart	do	103.30
	Elmer O. Fippin	do	103.30
	A. H. Prince	do	103.30
	Jas. O. Martin	do	103.30
	Thos. D. Rice	do	86.10

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## SOILS INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Feb. 2	Frank Bennett, jr.	Salary	\$86.10
	Wm. H. Knox	do	86.10
	W. E. Hearn	do	86.10
	Alfredo M. Sanchez	do	86.10
	Willie E. McLendon	do	86.10
	Chas. W. Ely	do	86.10
	Jas. L. Burgess	do	86.10
	Aldert S. Root	do	86.10
	A. W. Mangum	do	86.10
	N. P. Neill	do	86.10
	F. E. Bonsteel	do	86.10
	Wm. T. Carter, jr.	do	86.10
	Louis W. Ayer	do	86.10
	Geo. B. Jones	do	86.10
	Harry Rich	do	72.30
	Herman A. Clark	do	50.00
	W. J. Wood	do	50.00
	Rudolph Boss	do	10.00
3	Milton Whitney	Traveling expenses	32.00
4	Chas. R. Edmonston	Filter tubes	12.00
	Z. D. Gilman	Beakers	101.23
	Torsion Balance Co	Scales	30.00
	A. H. Gladden	Horse, etc	135.00
	C. M. Morrison	Buggy	35.00
	Richards & Co.	Air bath	5.30
	Harrison Manufacturing Co.	Water still	5.50
5	Geo. H. Harris	Traveling expenses	20.92
6	Jno. Higgins	Salary	2.25
7	Chas. G. Stott & Co.	Mailing tubes	11.00
	Houghton & Delano	Plates, etc	10.28
9	United States Express Co	Transportation	22.29
	Church & Stephenson	Lumber	2.43
	Wyckoff, Seamans & Benedict	Paper	2.82
	Mackall Bros	Chemicals	32.54
	The Geo. W. Knox Express Co.	Transportation	.38
12	W. G. Smith	Traveling expenses	126.90
	Berger Bros	Ovens, etc	16.00
	Washington R. R. and Electric Co.	Car tickets	3.00
	Chas. R. Edmonston	Baskets	10.00
	Jas. N. Rupp	Ink	5.00
	Adams Express Co	Transportation	35.90
14	N. Clark & Sons	Tile	105.80
	R. T. A. Burke	Traveling expenses	302.66
	Geo. N. Coffey	do	90.15
	W. H. Heileman	do	148.52
	Elmer O. Fippin	do	112.65
	Geo. B. Massey	do	26.10
	W. E. Hearn	do	129.03
	Macy H. Lapham	do	164.05
	J. E. Lapham	do	133.89
16	W. M. Hinson	do	128.78
	The Geo. W. Knox Express Co.	Transportation	.70
	Thos. Somerville & Sons	Section grate	9.87
	Harrison Manufacturing Co.	Still	5.50
	Merck & Co	Chemicals	11.44
	W. & L. E. Gurley	Cell, etc	2.25
17	do	Compass	45.90
	Eimer & Amend	Cylinders, etc	4.44
	do	Thermometers	6.30
	do	Brushes, etc	7.49
	do	Burettes	8.00
	do	Bulbs	8.80
	do	Burettes and tubes	16.00
	Lamb & Tilden	Dater	.75
18	C. Becker	Trunks, etc	34.80
	Franklin Laboratory Supply Co	Weights	7.20
	Henry J. Green	Thermometers	18.59
	Henrietta Burley	Washing socks	5.75
	Colorado and Southern Rwy. Co.	Passenger transportation	20.42
19	Pennsylvania R. R. Co.	do	10.00
	Atchison, Topeka and Santa Fe Rwy. Co.	do	47.00
	Southern Rwy. Co.	do	58.20
	Southern California Rwy. Co.	do	68.50
	Denver and Rio Grande R. R. Co	do	45.00
	Galveston, Harrisburg and San Antonio Rwy. Co.	do	48.65
	The Fyricide Manufacturing Co	Extinguishers	27.00
	Fred. A. Schmidt	Pencils, etc	15.39
	Hutchinson & McCarthy	Evaporimeter	6.00
24	F. H. King	Traveling expenses	14.85

## 42 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## SOILS INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Feb. 25	Jas. B. Lambie .....	Brasses, etc .....	\$1.67
	do .....	Hardware, etc .....	1.70
	do .....	Registers .....	4.21
28	The Modern Machine Works Co.	Brasses .....	80.00
	A. L. Webb Sons (branch) .....	Alcohol .....	23.28
	Thos. H. Means .....	Traveling expenses .....	86.42
	F. H. King et al .....	Salaries .....	2,612.20
Mar. 2	Louis Mesmer .....	Traveling expenses .....	121.11
	L. H. Shelfer .....	do .....	140.92
	Rudolph Boss .....	Salary .....	10.00
	J. C. Bridwell .....	do .....	22.50
	Jas. L. Gill .....	do .....	40.00
	Herman A. Clark .....	do .....	50.00
	W. J. Wood .....	do .....	50.00
	L. Carl Holmes .....	do .....	50.00
	Harry Rich .....	do .....	65.40
	W. E. Hearn .....	do .....	77.80
	Chas. W. Ely .....	do .....	77.80
	Willie E. McLendon .....	do .....	77.80
	Alfredo M. Sanchez .....	do .....	77.80
	F. E. Bonsteel .....	do .....	77.80
	Aldert S. Root .....	do .....	77.80
	Thos. D. Rice .....	do .....	77.80
	N. P. Neill .....	do .....	77.80
	Frank Bennett, jr .....	do .....	77.80
	G. B. Jones .....	do .....	77.80
	Jas. L. Burgess .....	do .....	77.80
	Wm. T. Carter, jr .....	do .....	77.80
	W. H. Knox .....	do .....	77.80
	Louis W. Ayer .....	do .....	77.80
	Jas. O. Martin .....	do .....	93.40
	R. T. A. Burke .....	do .....	93.40
	J. E. Lapham .....	do .....	93.40
	Henry J. Wilder .....	do .....	93.40
	Thos. A. Caine .....	do .....	93.40
	Elmer O. Fippin .....	do .....	93.40
	Henry Weinberg .....	do .....	93.40
	A. H. Prince .....	do .....	93.40
	W. W. Cobey .....	do .....	93.40
	Jno. B. Stewart .....	do .....	93.40
	Chas. A. Jensen .....	do .....	108.80
	Louis Mesmer .....	do .....	108.80
	Macy H. Lapham .....	do .....	108.80
	Walter M. Hinson .....	do .....	116.60
	Geo. B. Massey .....	do .....	140.00
	Lawson H. Shelfer .....	do .....	155.60
	F. E. Reid .....	do .....	46.67
	E. T. Hughes .....	do .....	56.00
	F. W. Taylor .....	do .....	77.80
	A. W. Mangum .....	do .....	77.80
	J. C. Britton .....	do .....	77.80
	Herbert W. Marean .....	do .....	77.80
	Chas. N. Mooney .....	do .....	93.40
	Geo. T. McNess .....	do .....	233.40
3	Andrews & Church .....	Paper .....	3.75
	The Chesapeake and Potomac Telephone Co.	Service .....	6.25
	do .....	do .....	6.25
	Geo. H. Harris .....	Traveling expenses .....	15.63
	Z. D. Gilman .....	Dishes, flasks, etc .....	88.79
	Jas. S. Topham .....	Case .....	2.00
	E. J. Puliman .....	Camera, etc .....	110.00
4	Jno. Higgins .....	Salary, etc .....	1.88
	Geo. T. McNess .....	Traveling expenses .....	39.16
	Woodward & Lothrop .....	Furniture, etc .....	57.83
	Lenz & Lossen .....	Engravers' glass .....	1.00
	Bausch & Lomb Optical Co.	Jars, etc .....	8.81
5	Potomac Electric Power Co.	Light and power .....	15.86
7	Chas. A. Jensen .....	Traveling expenses .....	42.95
	J. E. Lapham .....	do .....	111.30
	L. H. Shelfer .....	do .....	108.05
	W. M. Hinson .....	do .....	85.34
	Geo. B. Massey .....	do .....	11.65
	J. C. Bridwell .....	do .....	17.10
	W. G. Smith .....	do .....	149.70
	Jay A. Bonsteel .....	do .....	102.05
	W. E. Hearn .....	do .....	102.71
9	Chas. W. Ely .....	do .....	53.65
	L. H. Shelfer .....	do .....	276.89
11	Z. D. Gilman .....	Forceps, etc .....	2.00



Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## SOILS INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Mar. 11	Houghton & Delano	Chemicals	\$6.40
	Chas. R. Edmonston	Repairs to filter pumps	3.00
	National Electrical Supply Co.	Rubber tubing	.56
	Thos. Somerville & Sons	Plumbing	11.21
	E. G. Schafer & Co	Bolts	.25
	do	Pipe	13.43
	E. Morrison Paper Co.	Mounts	2.50
	Frederick Carl	Filter pumps	30.00
	Church & Stephenson	Lumber	29.63
14	Eberhard Faber	Bands	6.16
	American Entomological Co	Net and forceps	2.25
	Henry J. Green	Thermometers, etc	59.40
	Jas. G. Biddle	Apparatus	95.75
	Macy H. Lapham	Traveling expenses	149.25
	W. H. Heileman	do	44.45
	J. Garnett Holmes	do	32.81
	Louis Mesmer	do	163.05
	Geo. N. Coffey	do	16.59
16	Frank E. Hopkins	Wicks	1.00
17	Hermann Baker & Co	Crucible tongs	11.20
	Frank Bennett, jr	Traveling expenses	48.35
	R. T. A. Burke	do	273.25
	Thos. A. Caine	do	72.60
	Eimer & Amend	Tintometer glasses	44.71
	do	Bottles	8.16
	do	Bisulphate mercury	1.05
	Whitall, Tatum & Co.	Bottles	6.00
	do	do	3.05
	do	Pipettes	1.07
18	Fred. A. Schmidt	Pens and steel tape	2.35
	Chas. Engelhard	Wire	.90
	Bausch & Lomb Optical Co	Collecting case	1.13
19	Rudolph, West & Co	Chisels, etc	3.54
	Hugh Reilly	Shellac	1.80
	M. Lindsay Rubber Co	Gaskets	1.80
	The J. C. Ergood Co.	Matches	2.55
20	Arthur H. Thomas Co	Pipettes	4.84
	Chas. Engelhard	Wire	13.86
	Eimer & Amend	Sieves	20.00
23	Potomac Electric Power Co.	Current	21.52
24	Janney, Steinmetz & Co.	Shell	1.00
	The Burnell Telephone and Electric Co	Pliers	1.44
	Henry J. Green	Thermometers	4.50
	A. S. Root	Traveling expenses	79.89
	W. S. Jenks	Stove	5.50
	J. L. Edlavitch & Co	Lumber, etc	25.68
	Jas. B. Lambie	Hardware	14.04
25	The Deming Co.	Spray pump, etc.	6.90
	Wm. H. Dyer	Boxes	2.00
26	Washington Gaslight Co.	Gas	9.30
	do	do	13.00
31	F. H. King et al	Salaries	2,586.33
	Total third quarter		28,025.67
Apr. 1	Alfredo M. Sanchez	Salary	86.10
	Thos. D. Rice	do	86.10
	J. W. Nelson	do	86.10
	Nelson P. Neill	do	86.10
	H. W. Marean	do	86.10
	A. W. Mangum	do	86.10
	W. E. McLindon	do	86.10
	W. H. Knox	do	86.10
	Geo. B. Jones	do	86.10
	J. C. Hogensen	do	86.10
	Wm. E. Hearn	do	86.10
	Chas. W. Ely	do	86.10
	Wm. T. Carter, jr	do	86.10
	Jas. L. Burgess	do	86.10
	J. C. Britton	do	86.10
	F. E. Bonsteel	do	86.10
	Frank Bennett, jr	do	86.10
	Lewis W. Ayer	do	86.10
	Henry J. Wilder	do	103.30
	Henry Weimberg	do	103.30
	A. H. Prince	do	103.30
	C. N. Mooney	do	103.30
	E. H. Mathewson	do	103.30
	Jas. O. Martin	do	103.30
	J. E. Lapham	do	103.30

## 44 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## SOILS INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Apr. 1	Elmer O. Fippin	Salary	\$103.30
	Thos. A. Caine	do	103.30
	R. T. A. Burke	do	103.30
	Louis Mesmer	do	120.60
	Macy H. Lapham	do	120.60
	Chas. A. Jensen	do	120.60
	Jno. B. Stewart	do	116.67
	W. W. Cobey	do	116.67
	Walter M. Hinson	do	142.50
	Geo. B. Massey	do	155.00
	L. H. Shelfer	do	172.20
	Geo. T. McNess	do	258.30
	Rudolph Boss	do	10.00
	Jas. L. Gill	do	40.00
	W. J. Wood	do	50.00
	Herman A. Clarke	do	50.00
	J. C. Bridwell	do	70.00
	F. C. Schroeder	do	62.00
	E. T. Hughes	do	62.00
	L. Carl Holmes	do	62.00
	H. L. Beldin	do	62.00
	F. R. Ried	do	72.30
	Harry Rich	do	72.30
	W. C. Palmer	do	77.50
	A. S. Root	do	86.10
	F. W. Taylor	do	86.10
2	F. H. King	Traveling expenses	64.98
	H. L. McNamara	Stove, etc	23.05
	J. L. Edlavitch & Co.	Pump, etc.	7.94
	Z. D. Gilman	Dishes, etc	62.80
3	F. W. Taylor	Traveling expenses	104.00
	W. C. Palmer	do	15.75
	do	Expenses	73.59
6	Jno. C. Parker	Letter press, etc.	28.72
	W. M. Hinson	Traveling expenses	64.63
	do	do	32.96
	C. N. Mooney	do	177.65
	J. W. Nelson	do	12.39
	Thos. A. Caine	do	40.49
	Geo. N. Coffey	do	141.32
	J. B. Stewart	do	48.30
	Jay A. Bonsteel	do	5.55
7	Jas. B. Lambie	Wire, etc	5.25
	Jas. S. Topham	Trunk handles, etc	1.50
	Barber & Ross	Steel square	2.95
	do	Nails	3.19
	E. J. Pullman	Plates, etc	6.96
9	Frank Bennett, jr	Traveling expenses	47.33
	W. W. Cobey	do	23.55
	J. O. Belz	do	30.93
	L. H. Shelfer	do	119.75
	W. G. Smith	do	135.90
	J. E. Lapham	do	107.35
	W. E. Hearn	do	112.25
	Chas. A. Jensen	do	107.20
	Elmer O. Fippin	do	103.57
	Louis Mesmer	do	164.52
10	Geo. T. McNess	do	85.11
	Houghton & Delano	Photographic supplies	17.48
	Jno. T. Springman, jr., & Bro.	Furnace doorplate	1.50
	Chas. R. Edmonston	Filter tubes, etc	22.50
	Fredk. Carl	Filter pumps	24.00
11	C. S. Kessler & Bros	Bicycle pumps	4.00
	W. G. Orr & Co	Cans	.72
13	E. G. Schafer & Co	Pipe	9.40
	E. Morrison Paper Co	Tags	9.55
	Woodward & Lothrop	Pans, etc	8.60
	Church & Stephenson	Lumber	98.76
14	S. F. Bragg	Repairs to boiler	10.00
	John Chatillon & Sons	Balances	49.50
	Best & Thompson	Guano	12.78
	L. D. Gullef	Storage	30.00
	Julian P. Friez	Thermographs	234.50
	The Torsion Balance Co	Weights, etc	18.25
	Baltimore and Ohio R. R. Co.	Transportation	.84
	Hutchinson & McCarthy	Ovens	77.50
15	Louis W. Ayer	Traveling expenses	20.25
	J. Garnett Holmes	do	93.30
	A. H. Snyder	do	10.37
	R. T. A. Burke	do	283.15

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## SOILS INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Apr. 15	G. B. Massey	Traveling expenses	\$15.70
16	Herr & Snavely	Hardware	10.00
17	Henry J. Green	Thermometers	29.70
	Thos. Somerville & Sons	Lead pipe, etc	15.52
	Fred. A. Schmidt	Pens. etc	3.60
	do	Brushes, etc	2.30
	R. Carter Ballantyne	Pads	4.38
	do	Fasteners	.76
	Densmore Typewriter Co	Changing type bars.	1.00
	Geo. F. Muth & Co.	Pens. etc	10.36
	R. P. Andrews & Co. (Incorporated)	Bags	2.55
	Hugh Reilly	Shellac	1.90
	Western Union Telegraph Co	Service	.20
18	M. Du Perow	Cord, etc	21.65
	Wm. H. Dyer	Cases, etc	19.00
	Southern Rwy. Co.	Passenger transportation	92.20
	Morgan's Louisiana and Texas Railroad and Steamship Co.	do	82.00
	Southern Rwy. Co.	do	65.00
	do	do	4.88
	do	do	99.25
	do	do	8.60
	Washington Southern Rwy. Co	do	14.50
	Seaboard Air Line Rwy. Co	do	12.00
	Thos. H. Means	Traveling expenses	221.15
	Frank K. Cameron	do	20.90
	A. M. Sanchez	do	20.40
	Washington Southern Rwy. Co.	Passenger transportation	65.20
	Missouri, Kansas and Texas Rwy. Co.	do	37.30
	Pittsburg, Cincinnati, Chicago and St. Louis Rwy. Co.	do	14.00
	Pennsylvania R. R. Co.	do	30.30
	Peninsular and Occidental S. S. Co.	do	35.85
	Louisville and Nashville R. R. Co.	do	27.50
	Atchison, Topeka and Santa Fe Rwy. Co.	do	46.10
	Southern Pacific Co.	do	7.55
	do	do	15.10
20	Ehmann & Hobson	Bicycle	35.00
	Schalle & McKey Lumber Co	Lumber	43.82
21	Whitall Tatum Co	Flasks	33.14
	Bausch & Lomb Optical Co	Prisms	17.50
	Eimer & Amend	Tubes, etc.	42.40
	do	Chemicals	34.15
	do	Thermometers, etc	24.58
	do	Flasks	8.85
	do	Bulbs	8.00
	do	Wire	6.25
	The Okonite Co. (Limited)	Trays	60.00
	Metropolitan Aluminum Co	Traveling expenses	183.86
	Macy H. Lapham	Scales	12.50
23	Jno. Chatillon & Sons	Traveling expenses	12.60
	Wm. H. Knox	Oil	.60
24	Standard Oil Co.	Ink	4.80
25	Fred A. Schmidt	Guaiac, etc	2.75
	Merck & Co	Bags	31.64
	J. R. Collins	Dials	50.00
	Geo. N. Saegmuller	Cylinder	34.70
	Fredk. Carl	Traveling expenses	29.80
27	Henry Weinberg	Manure	19.20
28	Union Stockyard Co	Salaries	2,124.98
30	F. H. King et al	Plates, etc	11.70
May 1	Flinn & Breneman	Salary	247.25
	Geo. T. McNess	do	164.80
	L. H. Shelfer	do	148.30
	Walter M. Hinson	do	148.30
	Geo. B. Massey	do	123.60
	W. W. Cobey	do	123.60
	Jno. B. Stewart	do	115.40
	Chas. A. Jensen	do	115.40
	Macy H. Lapham	do	115.40
	Louis Mesmer	do	115.40
	J. O. Belz	do	98.90
	R. T. A. Burke	do	98.90
	Thos. A. Caine	do	98.90
	Elmer O. Fippin	do	98.90
	J. E. Lapham	do	98.90
	J. O. Martin	do	98.90
	E. H. Mathewson	do	98.90
	C. N. Mooney	do	98.90
	A. H. Prince	do	98.90
	Henry Weinberg	do	98.90

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## SOILS INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
May 1	Henry J. Wilder	Salary	\$98.90
	Lewis W. Ayer	do	82.40
	Orly L. Ayrs	do	82.40
	Frank Bennett, jr	do	82.40
	F. E. Bonsteel	do	82.40
	J. E. Britton	do	82.40
	Jas. L. Burgess	do	82.40
	E. P. Carr	do	82.40
	W. T. Carter, jr	do	82.40
	Chas. W. Ely	do	82.40
	W. J. Geib	do	82.40
	Louis Griswold	do	82.40
	W. E. Hearn	do	82.40
	J. C. Hogenson	do	82.40
	G. B. Jones	do	82.40
	Wm. H. Knox	do	82.40
	A. E. Kocher	do	82.40
	W. E. McLendon	do	82.40
	A. W. Mangum	do	82.40
	H. W. Marean	do	82.40
	F. N. Meeker	do	82.40
	Nelson P. Neill	do	82.40
	J. W. Nelson	do	82.40
	Thos. D. Rice	do	82.40
	A. S. Root	do	82.40
	La Mott Ruhlen	do	82.40
	A. M. Sanchez	do	82.40
	F. W. Taylor	do	82.40
	W. C. Palmer	do	74.20
	J. C. Bridwell	do	70.00
	J. A. Drake	do	69.20
	F. R. Reid	do	69.20
	Harry Rich	do	69.20
	A. T. Sweet	do	69.20
	H. L. Belden	do	59.30
	S. Carl Holmes	do	59.30
	E. T. Hughes	do	59.30
	W. S. Lyman	do	59.30
	F. R. Pember	do	59.30
	F. C. Schroeder	do	59.30
	F. D. Stevens	do	59.30
	A. T. Strahorn	do	59.30
	J. F. Warner	do	59.30
	Herman A. Clark	do	50.00
	W. J. Wood	do	50.00
	A. H. Snyder	do	49.50
	Jas. L. Gill	do	40.00
	M. Earl Carr	do	82.40
	Rudolph Boss	do	17.50
2	Z. D. Gilman	Bottles	53.85
	do	Laboratory supplies	98.42
	do	Cylinder, etc	6.60
5	Fredk. Carl	Traveling expenses	13.57
	W. C. Palmer	Expenses	45.27
	H. W. Marean	Traveling expenses	144.12
	F. W. Taylor	do	95.91
8	Barber & Ross	Tapes, etc	13.60
	S. Kann Sons & Co	Can	3.75
	Jas. B. Lambie	Copper, etc	3.50
	The M. Lindsay Rubber Co	Gaskets	1.80
	Fred. A. Schmidt	Bristol board	10.70
	Washington Gaslight Co.	Gas	11.90
	Adams Express Co	Transportation	77.31
	Washington Gaslight Co.	Gas	1.70
	do	do	8.80
	United States Express Co.	Transportation	25.75
	Potomac Electric Power Co	Current	16.02
	do	do	14.01
	Chas. R. Edmonston	Dipper	.32
	Rudolph, West & Co.	Hardware	7.77
	Washington Woodworking Co	Sticks	4.80
	Woodward & Lothrop	Cotton	4.57
	Postal Telegraph Cable Co	Service	.82
9	Washington Railway and Electric Co.	Car tickets	3.00
	J. L. Edlavitch & Co.	Gasoline, etc	20.30
	C. M. Woolf & Co.	Plow, etc	20.50
	Geo. N. Saegmuller	Repairs to compasses	2.00
	Joseph F. Beck	Copper boxes	9.00
12	Elmer O. Fippin	Traveling expenses	120.92
	W. W. Cobey	do	42.87

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## SOILS INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
May 12	Thos. H. Means	Expenses	\$57.28
	do	Traveling expenses	202.30
	Frank Bennett	do	99.48
	J. E. Lapham	do	122.38
	W. E. Hearn	do	157.33
	J. O. Martin	do	152.32
	Henry J. Wilder	do	132.99
	Geo. N. Coffey	do	112.69
	W. G. Smith	do	111.15
	F. E. Bonsteel	do	124.05
	J. W. Nelson	do	2.90
	do	Expenses	81.39
	J. A. Bonsteel	Traveling expenses	133.31
	Chas. A. Jensen	do	117.85
	Thos. D. Rice	do	95.55
	J. O. Belz	Expenses	56.25
	M. H. Lapham	Traveling expenses	81.85
	C. N. Mooney	do	180.92
	A. H. Snyder	Expenses	54.83
	W. M. Hinson	Traveling expenses	68.09
	Thos. A. Caine	do	85.95
	A. W. Mangum	do	77.75
	R. T. A. Burke	do	106.60
	Geo. B. Massey	do	42.48
	W. H. Knox	do	56.60
13	Houghton & Delano	Bromide paper, etc	9.30
	Mackall Bros	Chemicals	407.32
15	A. M. Sanchez	Traveling expenses	150.10
	Louis Mesmer	do	116.06
	United States Mailing Case	Cases, etc	11.25
	The A. Lietz Co	Gauges	14.00
	Eimer & Amend	Forceps	1.95
	do	Alcohol lamps	2.55
	do	Tubes	18.50
	Randall & Athon	Mallets	10.00
	C. I. King	Tubes, etc	58.80
	Western Electric Co	Electrolytic bridges	90.00
	Edwd. Orton, jr	Cones	2.15
	Whitall-Tatum Co.	Stopcocks	8.89
	B. F. Hershey	Door, etc	45.82
16	Thos. Somerville & Sons	Valves, etc	20.48
	Jas. B. Lambie	Wire	.30
	C. Becker	Trunks	29.25
	Chas. R. Edmonston	Tubes	12.00
	Z. D. Gilman	Filters	26.75
20	Herman Boker & Co.	Crucible tongs	30.96
	The Chicago Laboratory Supply and Scale Co.	Clamps, etc	18.45
	Edw. Hurdle	Cylinders, etc	21.00
	E. J. Pullman	Plates	6.96
	J. Garnett Holmes	Traveling expenses	159.75
21	Jas. A. Nichol森 & Son	Tents	35.00
	Geo. N. Saegmuller	Brass tubing	1.50
	F. P. May & Co	Hammer, etc	3.65
	do	do	6.40
22	Mackall Bros	Chemicals	39.68
	Eberhard Faber	Pencils	8.84
25	J. C. Bridwell	Traveling expenses	22.40
	do	do	21.90
26	Denny Clay Co	Drain tile	287.74
	J. P. Nawrath	Tape	3.00
	Schaller & McKey	Lath	5.63
29	Berger Bros	Construction of tank	3.00
	Jno. C. Parker	Eyelet machine, etc	24.62
	R. P. Andrews & Co. (Incorporated)	Paper	2.50
	Wm. H. Dyer	Boxes	14.00
	The C. J. McCubbin Co.	Sink, etc	5.75
	Z. D. Gilman	Funnels, etc	52.53
	E. Morrison Paper Co.	Strawboard	.80
	Fred A. Schmidt	Tracing cloth	12.40
31	F. H. King et al	Salaries	2,472.89
June 1	W. J. Wood	Salary	50.00
	H. A. Clark	do	50.00
	J. L. Gill	do	40.00
	Rudolph Boss	do	25.00
	E. T. Hughes	do	61.40
	Herbert L. Belden	do	61.40
	L. Carl Holmes	do	61.40
	W. S. Lyman	do	61.40
	F. R. Pember	do	61.40
	F. C. Schroeder	do	61.40

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## SOILS INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
June 1	F. D. Stevens	Salary	\$61.40
	A. T. Strahorn	do	61.40
	J. F. Warner	do	61.40
	J. C. Bridwell	do	70.00
	A. T. Sweet	do	71.60
	Harry Rich	do	71.60
	F. R. Reid	do	71.60
	J. A. Drake	do	71.60
	W. C. Palmer	do	76.60
	F. W. Taylor	do	85.20
	Addison H. Snyder	do	85.20
	A. M. Sanchez	do	85.20
	La Mott Ruhlin	do	85.20
	A. S. Root	do	85.20
	Thos. D. Rice	do	85.20
	J. W. Nelson	do	85.20
	Nelson P. Neill	do	85.20
	F. N. Meeker	do	85.20
	A. W. Mangum	do	85.20
	W. E. McLendon	do	85.20
	W. H. Knox	do	85.20
	A. E. Kocher	do	85.20
	G. B. Jones	do	85.20
	J. C. Hogeson	do	85.20
	W. E. Hearn	do	85.20
	Lewis Griswold	do	85.20
	W. J. Geib	do	85.20
	Chas. W. Ely	do	85.20
	W. T. Carter, jr.	do	85.20
	M. Earl Carr	do	85.20
	E. P. Carr	do	85.20
	Frank Bennett, jr.	do	85.20
	Jas. L. Burgess	do	85.20
	Orla L. Ayers	do	85.20
	Lewis W. Ayer	do	85.20
	H. W. Marean	do	85.20
	J. C. Brittan	do	85.20
	H. W. Marean	Traveling expenses	87.74
	H. J. Wilder	Salary	102.20
	Henry Weinberg	do	102.20
	A. H. Prince	do	102.20
	E. H. Mathewson	do	102.20
	J. O. Martin	do	102.20
	J. E. Lapham	do	102.20
	Elmer O. Fippin	do	102.20
	R. T. A. Burke	do	102.20
	J. O. Belz	do	102.20
	C. N. Mooney	do	102.20
	Louis Mesmer	do	119.20
	Macy H. Lapham	do	119.20
	Chas. A. Jensen	do	119.20
	J. B. Stewart	do	127.80
	W. W. Coby	do	127.80
	Geo. B. Massey	do	153.40
	W. M. Hinson	do	153.40
	L. H. Shelfer	do	170.40
	C. N. Mooney	Traveling expenses	185.11
	Geo. T. McNess	Salary	255.50
2	F. E. Bonsteel	do	85.20
	Geo. T. McNess	Traveling expenses	56.15
3	W. W. Mackie	Salary	43.96
	Thos. A. Caine	do	102.20
	G. B. Jones	Traveling expenses	35.16
	Geo. N. Coffey	do	160.53
	Elmer O. Fippin	do	141.03
	J. A. Bonsteel	do	139.33
	F. E. Bonsteel	do	129.89
	Southern Rwy. Co	Passenger transportation	11.20
	do	do	57.90
	do	do	11.20
	Atchison, Topeka and Santa Fe Rwy. Co.	do	41.50
	do	do	40.00
	Northern Pacific Rwy. Co	do	27.45
	Central of Georgia Rwy. Co	do	13.68
	do	do	58.62
	Seaboard Air Line Rwy. Co	do	53.15
	Southern Pacific Rwy. Co	do	7.60
	Pennsylvania R. R. Co	do	154.33
	Atlantic Coast Line R. R. Co.	do	34.20
	do	do	56.95
	Louisville and Nashville R. R. Co	do	10.15

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## SOILS INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
June 3	Louisville and Nashville R. R. Co	Passenger transportation	\$51.00
	Texas and New Orleans R. R. Co	do	68.90
	do	do	37.30
	Baltimore and Ohio R. R. Co	do	19.75
	Maricopa, Phoenix and Salt River Valley R. R. Co.	do	21.25
	Houston, East and West Texas Rwy. Co	do	3.55
	Cincinnati, Hamilton and Dayton Rwy. Co.	do	50.96
	New York, New Haven and Hartford R. R. Co.	do	52.50
	New York Central and Hudson River R. R. Co.	do	18.88
5	F. H. King	Traveling expenses	21.07
	J. M. Hugunin	Manure	36.00
	Queen & Co. (Incorporated)	Funnels	9.00
	do	Spatulas, etc	11.64
	The Morristown Covering Co	Cement	3.50
	Wm. Roche	Labels	3.36
	Jno. Underwood & Co	Carbon paper	5.64
	Julian P. Friez	Forms No. "1901"	10.00
8	Frank Bennett, jr	Traveling expenses	99.68
9	Houghton & Delano	Plates	17.17
	F. W. Bolgiano & Co	Chemical	.25
	Washington Gaslight Co.	Gas	1.60
	do	do	9.30
	Potomac Electric Power Co	Current	7.42
	The Chesapeake and Potomac Telephone Co.	Service	6.25
10	Henry J. Wilder	Traveling expenses	110.09
	W. E. Hearn	do	130.83
	R. T. A. Burke	do	113.60
	J. E. Lapham	do	127.52
	Louis Messmer	do	155.87
	J. Garnett Holmes	do	156.61
	A. M. Sanchez	do	165.55
	Fred A. Schmidt	Paint	1.40
	W. G. Orr & Co.	Tank	2.50
	C. A. Muddiman & Co	Hot plate	3.75
	Z. D. Gilman	Chemicals	4.30
	Mackall Bros	do	33.36
	Chas. R. Edmonston	Bougies	12.00
11	Geo. B. Massey	Traveling expenses	27.10
	W. W. Cobey	do	45.09
	J. B. Stewart	do	46.56
	W. H. Knox	do	55.85
	W. C. Palmer	Expenses	68.72
	Macy H. Lapham	Traveling expenses	75.00
	F. W. Taylor	do	90.80
	A. W. Mangum	do	95.39
	W. G. Smith	do	96.35
	Chas. A. Jansen	do	96.47
	Thos. A. Caine	do	97.66
	J. O. Martin	do	160.36
	L. H. Shelfer	do	129.45
	do	do	226.50
12	R. Carter Ballantyne	Inkstands	1.30
	W. B. Moses & Sons.	Shades	17.02
	do	Water cooler	5.50
	Thos. Somerville & Sons	Air pump	18.50
	Woodward & Lothrop	Soap, etc	30.48
	J. W. Nelson	Expenses	34.71
	J. O. Belz	do	60.11
	A. H. Snyder	do	67.03
	Thos. D. Rice	Traveling expenses	174.90
13	Jas. B. Lambie	Brass tubing, etc	18.62
	R. P. Clarke Co	Toweling	9.40
	Jas. N. Rupp	Ink, etc	2.15
	R. P. Andrews & Co	Paper	6.50
	Hutchinson & McCarthy	Dry ovens, etc	25.00
	Henrietta Burleigh	Sacks	2.50
	Fredk. Carl	Filter pumps	52.00
	Southern Rwy. Co	Passenger transportation	53.85
17	Eimer & Amend	Corks	6.00
	do	Glass stoppers	5.50
	do	Chemicals	9.00
	do	Tinto glasses	23.33
	Whitall, Tatum & Co	Beakers	29.10
	do	Bottles	4.50
	do	Test tubes	1.88

## 50 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## SOILS INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1903, June 17	Whitall, Tatum & Co	Stop cock	\$0.56
	do	Bottles	35.65
	Yawman & Erbe Manufacturing Co	Cabinet	33.30
	Whitall, Tatum & Co	Beakers	4.40
	Library Bureau	Cards	8.00
	Western Electric Co	Electrolytic bridges	90.00
	do	Electric soldering iron	4.25
	W. M. Hinson	Traveling expenses	39.62
19	Boston Gear Works	Gears	2.34
23	Eberhard Faber	Bands	5.20
	Eimer & Amend	Apparatus	114.00
	Whitall, Tatum & Co	Glass tubing, etc	9.67
	E. G. Schafer & Co	Galvanized pipe	4.62
	E. Morrison Paper Co	Linen tags	9.62
	R. P. Andrews & Co. (Incorporated)	Bags	2.13
	Western Union Telegraph Co.	Service	35.00
24	Mobile and Ohio R. R. Co	Passenger transportation	54.15
	Missouri Pacific Rwy Co	do	14.10
	Pennsylvania R. R. Co	do	17.50
	Oregon R. R. and Navigation Co	do	28.90
	Washington Southern Rwy Co	do	8.60
25	Densmore Typewriter Co	Strap for typewriter	.15
26	The Geo. W. Knox Express Co.	Transportation	.25
	Church & Stephenson	Lumber	51.38
	Barber & Ross	Files	4.49
	W. H. Heileman	Expenses	202.90
	do	Traveling expenses	128.88
	C. A. Muddiman & Co	Burner	3.75
29	Geo. F. Muth & Co	Celluloid	1.25
	Eimer & Amend	Thermometers	7.70
	Jas. B. Lambie	Scissors, etc	6.45
30	Clarence W. Dorsey	Salary	71.43
	F. H. King et al.	Salaries	2,550.50
	Total fourth quarter		39,944.81
	<i>Supplemental.</i>		
July 1	A. T. Strahorn	Salary	59.30
	Jas. Dills, guardian	Rent	42.00
	T. H. King	Traveling expenses	46.10
	J. Bishop & Co.	Platinum bottles	204.75
	Wyckoff, Seamans & Benedict	Paper and ribbons	5.57
2	G. T. McNess	Traveling expenses	56.02
	F. W. Taylor	do	91.40
3	F. E. Ried	Salary	69.20
	H. W. Marean	do	82.40
	F. W. Taylor	do	82.40
	G. T. McNess	do	247.25
	J. B. Stewart	do	123.60
	Henry Weinberg	do	98.90
	J. O. Belz	do	98.90
	R. T. A. Burke	do	98.90
	T. A. Caine	do	98.90
	E. O. Fippin	do	98.90
	J. E. Lapham	do	98.90
	J. O. Martin	do	98.90
	E. H. Mathewson	do	98.90
	A. H. Prince	do	98.90
	H. J. Wilder	do	82.40
	L. W. Ayer	do	82.40
	O. L. Ayers	do	82.40
	Frank Bennett, jr	do	82.40
	F. E. Bonsteel	do	82.40
	J. L. Burgess	do	82.40
	E. P. Carr	do	82.40
	M. E. Carr	do	82.40
	W. T. Carter, jr	do	82.40
	C. W. Ely	do	82.40
	W. J. Geib	do	82.40
	Lewis Griswold	do	82.40
	W. E. Hearn	do	82.40
	J. C. Hogenson	do	82.40
	G. B. Jones	do	82.40
	W. H. Knox	do	82.40
	A. E. Kocher	do	82.40
	W. E. McLendon	do	82.40
	W. W. Mackie	do	82.40
	A. W. Mangum	do	82.40
	F. N. Meeker	do	82.40
	N. P. Neill	do	82.40



Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## SOILS INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
<i>Supplemental—Continued.</i>			
1903.			
July 3	J. W. Nelson	Salary	\$82.40
	A. H. Snyder	do	82.40
	T. D. Rice	do	82.40
	A. S. Root	do	82.40
	A. M. Sanchez	do	82.40
	La Mott Ruhlin	do	82.40
	W. C. Palmer	do	74.20
	J. C. Bridwell	do	70.00
	J. A. Drake	do	69.20
	Harry Rich	do	69.20
	A. T. Sweet	do	69.20
	H. L. Belden	do	59.90
	L. Carl Holmes	do	59.90
	W. S. Lyman	do	59.90
	F. C. Schroeder	do	59.90
	F. D. Stevens	do	59.90
	F. R. Pember	do	59.90
	J. F. Warner	do	59.90
	H. A. Clark	do	50.00
	W. J. Wood	do	50.00
	J. L. Gill	do	40.00
	Rudolph Boss	do	25.00
	C. J. Mann	do	25.00
	L. H. Selfer	do	164.80
	W. M. Hinson	do	148.90
	G. B. Massey	do	148.90
	W. W. Cobey	do	123.60
	C. A. Jensen	do	115.40
	M. H. Lapham	do	115.40
	Louis Mesmer	do	115.40
7	J. A. Pierpoint	Copper frames	2.70
	Z. D. Gilman	Stopcocks	8.57
	do	Tubing, etc	62.64
	The M. Lindsay Rubber Co	Ice bags	8.40
	Hutchinson & McCarthy	Water bath	11.50
9	J. W. Nelson	Traveling expenses	2.70
	do	Expenses	19.77
	W. C. Palmer	do	25.46
	A. H. Snyder	do	20.31
	J. O. Belz	do	32.07
	J. A. Bonsteel	Traveling expenses	103.08
	J. C. Bridwell	do	10.65
	W. E. Hearn	do	124.00
	H. J. Wilder	do	110.33
	F. E. Bonsteel	do	63.10
	A. W. Mangum	do	107.17
	R. T. A. Burke	do	109.15
	G. B. Massey	do	68.05
	J. E. Lapham	do	148.72
	Louis Mesmer	do	191.22
	T. D. Rice	do	101.65
	M. H. Lapham	do	84.50
	A. M. Sanchez	do	160.35
	H. W. Marean	do	123.64
	Frank Bennett, jr	do	120.64
	J. G. Holmes	do	137.05
	C. A. Jensen	do	119.90
	T. A. Caine	do	99.93
	E. O. Fippin	do	117.58
	J. O. Martin	do	123.56
10	W. G. Smith	do	103.60
	W. H. Knox	do	18.10
11	W. H. Hileman	Expenses	11.20
	do	Traveling expenses	109.45
	A. T. Strahorn	do	15.70
13	Northrup, King & Co	Potatoes	23.03
	M. P. Bush	Soap	3.60
	Western Electric Co	Electric thermometers	35.00
	H. J. Green	Soil	24.30
	Houghton & Delano	Photo supplies	14.68
	E. J. Pullman	do	3.48
	Fredk. Carl	Brass pulleys	2.80
	do	Gas cocks	4.80
	F. K. Cameron	Traveling expenses	15.20
15	The Modern Machine Works Co	Water registers	400.00
	Library Bureau	Guides	3.00
	Torsion Balance Co	Weights, etc	7.50
	W. W. Clark & Son	Elf black	6.00
	J. C. Bridwell	Traveling expenses	17.00
	G. N. Coffey	do	182.63

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## SOILS INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
<i>Supplemental—Continued.</i>			
1903.			
July 15	W. W. Cobey	Traveling expenses	\$20.50
	A. S. Dam	Bicycle	30.00
16	Atlantic Coast Line R. R. Co	Passenger transportation	13.45
	Cincinnati Northern R. R. Co	do	28.50
	Norfolk and Western Rwy. Co	do	17.85
	Northern Pacific Rwy. Co	do	4.85
	Southern Rwy. Co	do	110.60
	Thos. Somerville & Sons	Plugs	38.55
	M. Du Perow	Tape, etc	1.60
	do	Pocket bussers	2.10
	R. C. Ballantyne	Notebooks	1.94
18	Chicago Laboratory Supply and Scale Co.	Stand, tape, etc	22.15
20	Queen & Co. (Inc.)	Weights, etc	28.15
	do	Carbon tubes	3.80
	The Geo. W. Knox Express Co.	Transportation	.75
	A. H. Thomas Co	Pipettes	16.30
	Merck & Co.	Chemicals	4.00
	Eimer & Amend	Jars, etc	5.15
	Woodward & Lothrop	Pails	.97
	W. M. Hinson	Traveling expenses	9.48
	Mackall & Bros	Chemicals	1.80
	do	do	26.59
	Whitall, Tatum & Co.	do	3.25
	do	Tubing	6.30
21	Rudolph, West & Co	Chisel, etc	6.48
	G. N. Saegmueller	Repairs to compass	4.50
22	J. R. Collins	Bags	56.00
	T. H. Means	Traveling expenses	37.60
	L. H. Shelfer	do	178.15
24	Underwood Typewriter Co	Typewriter	87.50
	J. B. Stewart	Traveling expenses	12.55
	D. F. Parker	Typewriter paper	1.92
	Jno. C. Parker	Paste erasers	14.58
28	The Electric Storage Battery Co	Electric supplies	10.49
29	Chesapeake and Potomac Telephone Co	Telephone service	6.25
	Washington Gaslight Co.	Gas	9.30
	do	do	1.20
	Potomac Electric Power Co	Electric current	.52
	do	do	6.51
Aug. 4	J. D. Frazee	Laundry	8.60
15	R. C. Ballantyne	Tags	3.92
17	Z. D. Gilman	Tubing	4.06
20	Jos. Dixon Crucible Co.	1 pound graphite	.40
20	Barber & Ross	Latches	7.95
Sept. 3	J. O. Martin	Traveling expenses	13.50
10	E. Morrison Paper Co	Paper	24.00
18	Postal Telegraph Cable Co.	Telegraph service	1.05
	Western Union Telegraph Co.	do	22.50
	Washington Southern Rwy. Co.	Transportation	8.60
	Pennsylvania R. R. Co	do	73.83
	Great Northern Rwy. Co	do	41.70
	Houston East and West Texas Rwy	do	19.80
	Texas and New Orleans R. R. Co	do	2.50
	Oregon Short Line R. R. Co	do	7.90
	Oregon Railroad and Navigation Co	do	25.20
19	Chicago, Milwaukee and St. Paul Rwy. Co.	do	40.46
	do	do	8.09
	Northern Pacific Rwy. Co	do	14.00
	do	do	4.30
	Chicago and Northwestern Rwy. Co	do	64.79
	Chesapeake and Ohio Rwy. Co	do	60.00
	Atlantic Coast Line R. R. Co.	do	24.53
	Southern Rwy. Co	do	14.15
	Seaboard Air Line Rwy	do	12.55
	Chicago and Alton Rwy. Co	do	3.47
	Pennsylvania R. R. Co	do	.63
22	Postal Telegraph Cable Co	Telegraph service	1.94
Oct. 10	Blue Line Transfer Co.	Transportation	1.24
	United States Express Co	do	139.26
	Total		11,013.16

## RECAPITULATION.

First quarter	\$18,728.75
Second quarter	25,739.79
Third quarter	28,025.67
Fourth quarter	59,944.81
Supplemental	11,013.16
Total	123,452.18

## Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## SOILS INVESTIGATIONS.

Date.	Name.	Nature of payment.	Total.
1902.			
Aug. 4	Jno. F. Shea .....	Rent of building .....	\$110.00
Sept. 4	do .....	do .....	110.00
	Total first quarter .....		220.00
Oct. 3	Jno. F. Shea .....	Rent of building .....	110.00
Nov. 1	do .....	do .....	110.00
Dec. 1	do .....	do .....	110.00
	Total second quarter .....		330.00
1903.			
Jan. 3	Jno. F. Shea .....	Rent of building .....	110.00
Feb. 2	do .....	do .....	110.00
Mar. 3	do .....	do .....	110.00
	Total third quarter .....		330.00
Apr. 1	Walter A. Brown .....	Rent of building .....	50.00
2	Jno. F. Shea .....	do .....	110.00
May 1	Walter A. Brown .....	do .....	50.00
	Jno. F. Shea .....	do .....	110.00
June 2	do .....	do .....	110.00
9	Walter A. Brown .....	do .....	50.00
	Total fourth quarter .....		480.00
	<i>Supplemental.</i>		
July 1	J. F. Shea .....	Rent .....	110.00
7	W. A. Brown .....	do .....	50.00
	Total .....		160.00
	Total rent .....		1,520.00

## ENTOMOLOGICAL INVESTIGATIONS.

1902.			
July 17	E. Morrison Paper Co .....	Mailing tubes .....	\$3.90
23	A. N. Candell .....	Traveling expenses .....	39.75
	Henrietta A. Kelly .....	do .....	38.05
	A. D. Hopkins .....	do .....	16.10
	do .....	Manuscript .....	60.00
	do .....	do .....	150.00
25	Parish & Proctor .....	Spraying machine .....	25.00
26	Wyckoff, Seamans & Benedict .....	Typewriters, etc .....	276.75
	E. J. Pullman .....	Slides, etc .....	46.20
	Whitall, Tatum & Co .....	Tubes .....	.30
	M. V. Slingerland .....	Lantern slides .....	50.83
28	International Navigation Co .....	Passenger transportation .....	225.00
29	E. A. Schwarz et al .....	Salaries .....	1,681.45
Aug. 1	Church & Stephenson .....	Lumber .....	28.71
4	Walter D. Hunter .....	Salary .....	151.60
	Geo. H. Harris .....	do .....	100.00
	Warren E. Hinds .....	do .....	100.00
	Bowker Insecticide Co .....	Disparene .....	20.00
	H. E. Burke .....	Salary .....	50.00
	C. B. Simpson .....	do .....	100.00
9	Bartlett E. Goodnough .....	do .....	17.00
14	Houghton & Delano .....	Photo supplies .....	7.92
15	Wm. Brodis .....	Collection insects .....	100.00
	H. E. Burke .....	Traveling expenses .....	17.90
	Warren E. Hinds .....	do .....	31.71
	Geo. H. Harris .....	do .....	36.12
	C. B. Simpson .....	do .....	34.70
16	Library Bureau .....	Stacks .....	108.00
	Norwalk Lock Co .....	Keys .....	1.20
18	Gulf, Western Texas and Pacific Rwy. Co .....	Passenger transportation .....	10.05
19	Mackall Bros .....	Arsenic, etc .....	2.60
20	B. E. Goodnough .....	Labor .....	9.00
	Rudolph, West & Co .....	Hardware .....	13.49
21	Chas. A. Foster .....	Specimens .....	47.60
	Eimer & Amend .....	Vials .....	14.00
25	C. B. Simpson .....	Traveling expenses .....	57.75
	Reinlein Gasoline Torch Co .....	Torch .....	10.00
26	Parish & Proctor .....	Arsenate of lead and molasses .....	36.50
	Margaret A. Flood .....	Pins, forceps, etc .....	49.23

54 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

ENTOMOLOGICAL INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Aug. 26	R. P. Clark & Co	Muslin	\$3.99
	Jno. C. Parker	Indexes	2.40
27	B. E. Goodnough	Labor	10.00
30	C. L. Marlatt et al	Salaries	1,665.07
Sept. 2	Geo. H. Harris	Salary	100.00
	H. E. Burke	do	50.00
	Warren E. Hinds	do	100.00
3	C. B. Simpson	do	100.00
	Walter D. Hunter	do	151.60
5	F. M. Webster	do	150.00
	do	do	77.42
	Church & Stephenson	Lumber	20.00
	E. Morrison Paper Co	Genus covers	14.00
	American Cycle Manufacturing Co	Repairing	2.00
	Columbia Phonograph Co	Rent of phonograph	2.50
6	Z. D. Gilman	Rubber stoppers	18.60
9	H. E. Burke	Traveling expenses	30.00
12	August Busck	do	72.00
17	Warren E. Hinds	do	26.05
	Bausch & Lomb Optical Co	Boxes, slides, etc	133.05
	Rudolph, West & Co	Hinges, etc	.47
18	B. M. Eftyhithes	Traveling expenses	8.85
	The Geo. W. Knox Express Co	Transportation	1.05
	do	do	1.25
	Southern Rwy. Co	Passenger transportation	39.30
24	D. Frank Parker	Stencil paper	3.50
25	Geo. F. Muth & Co	Alcohol and oil	2.65
26	Pennsylvania R. R. Co	Passenger transportation	45.50
	The Pullman Co	do	8.50
	Gulf, Western Texas and Pacific Rwy. Co	do	4.45
27	A. D. Hopkins	Salary	379.10
30	C. L. Marlatt et al	Salaries	1,598.40
	Total first quarter		8,590.11
Oct. 1	C. L. Marlatt	Traveling expenses	40.10
	Walter D. Hunter	Salary	146.80
	A. D. Hopkins	do	183.40
2	Geo. H. Harris	do	100.00
	H. E. Burke	do	50.00
	Warren E. Hinds	do	100.00
	Geo. H. Harris	Traveling expenses	45.70
16	August Busck	do	73.56
	Jno. Green	Lens	13.50
2	C. B. Simpson	Traveling expenses	55.70
	Geo. H. Harris	do	35.51
	Warren E. Hines	do	17.80
	Whitall, Tatum & Co	Vials	43.07
17	Frank Benton	Traveling expenses	59.62
	Z. D. Gilman	Alcohol	4.27
	Jas. B. Lambie	Padlocks	1.06
20	C. B. Simpson	Salary	100.00
	H. E. Burke	Traveling expenses	61.25
	L. O. Howard	do	277.51
24	F. M. Webster	Salary	150.00
29	Mackall Bros	Cotton	7.00
31	C. L. Marlatt et al	Salaries	1,598.30
Nov. 3	J. M. McCann	Rent	48.00
	Warren E. Hinds	Salary	100.00
4	H. E. Burke	do	40.00
	Walter D. Hunter	do	150.00
	Geo. H. Harris	do	100.00
6	C. B. Simpson	do	100.00
	Jno. Green	Lenses	25.50
	Warren E. Hinds	Traveling expenses	18.50
	Z. D. Gilman	Alcohol, etc	9.80
	Rudolph, West & Co	Door check, etc	2.60
7	A. D. Hopkins	Salary	189.54
13	E. A. Schwarz	Traveling expenses	30.25
	E. J. Pullman	Photo supplies	22.10
17	Walter D. Hunter	Traveling expenses	70.98
	do	do	39.41
	Geo. H. Harris	do	77.34
	M. Du Perow	Glazed globe	1.25
	H. E. Burke	Traveling expenses	22.25
18	New York, Texas and Mexican Rwy. Co	Passenger transportation	6.60
	The Chesapeake and Ohio Rwy. Co	do	14.00
	The Pullman Co	do	10.50
	Houston and Texas Central R. R. Co	do	6.75
19	Bausch & Lomb Optical Co	Microscope, etc	177.78

*Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.*

## ENTOMOLOGICAL INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Nov. 19	Wyckoff, Seamans & Benedict .....	Repairs .....	\$16.50
21	Hugh Reilly .....	Glass .....	8.40
22	Southern Printers' Supply Co. ....	Electros .....	6.60
29	C. L. Marlatt et al .....	Salaries .....	1,745.13
Dec. 1	F. M. Webster .....	Traveling expenses .....	28.94
	do .....	Salary .....	150.00
2	Geo. H. Harris .....	do .....	100.00
	Warren E. Hinds .....	do .....	100.00
	Walter D. Hunter .....	do .....	150.00
	American Cycle Manufacturing Co ..	Tire, etc .....	4.00
3	Lehigh Valley R. R. Co .....	Passenger transportation .....	4.10
	International and Great Northern R. R. Co ..	do .....	10.70
	The Oregon R. R. and Navigation Co. ....	do .....	18.00
	New York, Texas and Mexican Rwy. Co ..	do .....	6.00
	do .....	do .....	13.20
	Denver and Rio Grande R. R. Co .....	do .....	22.00
	Oregon Short Line R. R. Co .....	do .....	16.15
8	C. B. Simpson .....	Salary .....	100.00
12	Warren E. Hinds .....	Traveling expenses .....	18.50
	Rudolph, West & Co .....	Wire, etc .....	47.60
	Z. D. Gilman .....	Alcohol, etc .....	28.77
17	C. B. Simpson .....	Salary .....	48.39
19	New York, Texas and Mexican Rwy. Co ..	Passenger transportation .....	7.00
	do .....	do .....	6.60
	Baltimore and Ohio R. R. Co .....	do .....	5.91
	do .....	do .....	21.00
	Houston and Texas Central R. R. Co ..	do .....	18.45
22	Geo. H. Harris .....	Traveling expenses .....	95.44
31	August Busck .....	do .....	34.20
	C. L. Marlatt et al .....	Salaries .....	1,827.85
	Total second quarter .....		9,086.73
1903.			
Jan. 2	C. B. Simpson .....	Salary .....	51.61
6	Walter D. Hunter .....	do .....	150.00
8	Geo. H. Harris .....	do .....	100.00
9	Warren E. Hinds .....	do .....	100.00
12	Houghton & Delano .....	Photo supplies .....	11.17
	Warren E. Hinds .....	Traveling expenses .....	57.90
	Geo. H. Harris .....	do .....	44.50
	do .....	do .....	69.35
	Warren E. Hinds .....	do .....	10.25
	Thos. Somerville & Sons .....	Pan .....	17.80
	W. D. Hunter .....	Traveling expenses .....	139.25
15	Bausch & Lomb Optical Co .....	Circles, shades, etc .....	24.18
	Library Bureau .....	Slide case .....	19.00
	Eimer & Amend .....	Vials .....	20.60
	Whitall, Tatum & Co .....	do .....	33.13
	J. F. McCann .....	Rent office .....	48.00
19	C. B. Simpson .....	Salary .....	48.39
	Walter D. Hunter .....	Traveling expenses .....	18.25
	C. B. Simpson .....	do .....	21.25
	do .....	do .....	166.79
21	E. Morrison Paper Co .....	Genus covers .....	10.00
24	Oregon Short Line R. R. Co .....	Passenger transportation .....	84.95
	Frank M. Boteler .....	Repairing negatives .....	3.60
26	New York, Texas and Mexican Rwy. Co ..	Passenger transportation .....	39.30
	do .....	do .....	39.30
	Houston and Texas Central R. R. Co ..	do .....	20.20
	The Pullman Co .....	do .....	9.50
	The Oregon R. R. and Navigation Co. ....	do .....	14.95
27	New York, New Haven and Hartford R. R. Co.	do .....	11.47
31	C. L. Marlatt .....	Salaries .....	1,866.55
Feb. 2	L. O. Howard .....	Traveling expenses .....	20.00
	Warren E. Hinds .....	Salary .....	100.00
	Walter D. Hunter .....	do .....	150.00
	C. B. Simpson .....	do .....	51.61
4	Walter D. Hunter .....	Traveling expenses .....	75.80
	August Busck .....	do .....	12.96
7	Geo. H. Harris .....	Salary .....	100.00
	do .....	Traveling expenses .....	38.00
9	United States Express Co .....	Transportation .....	32.40
	Rudolph, West & Co .....	Screws .....	.16
	Z. D. Gilman .....	Benzole .....	1.00
	Sweet & Co .....	Book .....	2.25
12	Adams Express Co .....	Transportation .....	8.15
14	American Entomological Co .....	Forceps .....	4.50
	do .....	Boxes, etc .....	32.45
	J. A. Shine .....	Cotton seed .....	180.80

56 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

ENTOMOLOGICAL INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Feb. 14	Ernest Betz	Pipe	\$5.50
16	Capers Dickson	Cotton seed	15.50
	C. E. Smith	do	36.80
	F. M. Webster	Salary	530.36
	Library Bureau	Slide cases	19.00
	E. J. Pullman	Photo supplies	22.40
	Queen & Co. (Incorporated)	Pins	2.50
	do	Slide boxes	7.00
	M. V. Slingerland	Coloring slides	1.56
19	Houston and Texas Central R. R. Co.	Passenger transportation	17.95
24	Frank Benton	Traveling expenses	6.45
25	E. J. Pullman	Plates, etc.	8.34
	Jas. S. Topham	Leather case	4.00
26	D. Frank Parker	Mimeograph paper, etc.	2.85
28	S. L. Thornton	Cotton seed, etc.	13.80
	C. L. Marlatt et al	Salaries	1,333.40
Mar. 3	Albert Mehmer	Report	25.00
	Victoria Furniture Co	Furniture	36.20
	C. B. Simpson	Salary	100.00
	Warren E. Hinds	do	100.00
	Walter D. Hunter	do	150.00
	Geo. H. Harris	do	100.00
	The Chesapeake and Potomac Telephone Co.	Service	6.25
	do	do	6.25
6	Walter D. Hunter	Expenses	10.00
	do	Traveling expenses	151.55
9	Wm. Christian	Cotton seed, etc.	280.07
	J. N. Hutchinson	do	17.85
11	Church & Stephenson	Lumber	12.00
14	Jno. Green	Lenses	53.00
	Curry-Arrington Co.	Cotton seed	107.25
	A. D. Hopkins	Traveling expenses	40.75
	Houghton & Delano	Photo supplies	9.00
16	Dulin & Martin Co.	Pitchers	2.30
18	Bausch & Lomb Optical Co	Repairs to microscope	11.00
	do	Laboratory supplies	44.80
	Library Bureau	Guides	2.88
19	C. B. Simpson	Salary	48.39
	The Geo. W. Knox Express Co.	Transportation	.70
31	C. L. Marlatt et al	Salaries	1,467.05
	Total third quarter		8,871.02
Apr. 2	Montgomery & Co	Punch	3.30
	W. W. Jackson	Repairs to pumps	3.00
	Z. B. Babbitt	Oil	5.00
6	Walter D. Hunter	Traveling expenses	132.00
	A. L. Quaintance	Salary	71.11
	C. B. Simpson	do	51.61
7	W. Silas Sheets	Photo supplies	78.50
	Swett & Co	Letter books, etc.	4.50
	Houghton & Delano	Photo supplies	4.85
	Southern Printers' Supply Co.	Electro	.90
	E. J. Pullman	Negative holders	2.50
	do	Films	3.70
8	Warren E. Hinds	Salary	100.00
	Walter D. Hunter	do	150.00
	do	Expenses	26.80
9	Geo. H. Harris	Salary	100.00
	A. L. Quaintance	Traveling expenses	32.60
14	J. F. McCann	Rent	48.00
	W. W. Follin	Fruit trees	45.00
	The Pullman Co.	Passenger transportation	17.50
	Library Bureau	Cards	36.40
	W. F. Fiske	Salary	50.00
	Jas. N. Rupp	Scrapbooks	1.21
	Ernest Betz	Galvanized-iron cage	31.50
	Z. D. Gilman	Alcohol, etc.	22.37
18	Southern Rwy. Co.	Passenger transportation	39.30
	Washington Southern Rwy. Co.	do	54.05
	Gulf, Western Texas and Pacific Rwy. Co.	do	4.45
	San Antonio and Aransas Pass Rwy. Co.	do	4.45
	American Cycle Manufacturing Co.	Tire	7.20
	The Pennsylvania R. R. Co.	Passenger transportation	16.55
	New York, Texas and Mexican Rwy. Co.	do	3.80
20	Geo. H. Harris	Traveling expenses	90.48
	Warren E. Hinds	do	36.83
	C. B. Simpson	do	6.60

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## ENTOMOLOGICAL INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Apr. 21	Whitall, Tatum & Co.	Vials	\$9.50
	Bausch & Lomb Optical Co.	Microscopes	34.50
27	The Publishers and Printers' Supply Co.	Engravings	2.00
30	C. L. Marlatt et al.	Salaries	1,507.75
May 2	A. L. Quaintance	Salary	131.90
	Warren E. Hinds	do	100.00
	Walter D. Hunter	do	150.00
	Z. D. Gilman	Alcohol	20.33
4	Geo. H. Harris	Salary	100.00
	August Busek	Traveling expenses	12.50
8	Edw. S. Schmid	Labels	7.50
	The Geo. W. Knox Express Co.	Transportation	3.10
	The M. Lindsay Rubber Co.	Gloves	1.00
	F. E. Hopkins	Oil stove	.50
	Adams Express Co.	Transportation	102.47
	United States Express Co.	do	12.95
	Wyckoff, Seamans & Benedict.	Typewriter and repairs	109.75
9	Warren E. Hinds	Traveling expenses	28.00
15	C. L. Marlatt	do	12.50
	A. L. Quaintance	do	47.37
	Geo. H. Harris	do	38.60
	W. D. Hunter	Expenses	105.00
	The Hoggson and Pettis Manufacturing Co.	Cloths, etc	9.00
	A. P. Borden	Seeds	15.00
16	E. Morrison Paper Co.	Paper	5.00
	Francis Miller	Glass	17.50
18	J. G. Harrison & Sons	Apples	60.20
	W. D. Hunter	Traveling expenses	143.75
	W. F. Fiske	Salary	50.00
20	D. Frank Parker	Stencil, etc.	7.65
29	The Chesapeake and Potomac Telephone Co.	Service	6.25
	Elphongo Youngs	California buhach	9.00
31	C. L. Marlatt et al.	Salaries	1,552.00
June 1	Warren E. Hinds	Salary	100.00
	E. A. Schwarz	Traveling expenses	167.88
	Walter D. Hunter	Salary	150.00
	Geo. H. Harris	do	100.00
2	W. F. Fiske	do	50.00
3	Southern Rwy. Co.	Passenger transportation	78.60
	Gulf, Western Texas and Pacific Rwy. Co.	do	4.45
	do	do	8.90
	Galveston, Harrisburg and San Antonio Rwy. Co.	do	3.80
	New York, Texas and Mexican Rwy. Co.	do	6.60
	do	do	6.60
5	American Entomological Co.	Insects, boxes	49.50
	do	Pins	8.25
9	The Washington Woodworking Co.	Cases	183.40
10	Walter D. Hunter	Traveling expenses	154.00
	Z. D. Gilman	Casks, etc	4.45
	A. L. Quaintance	Salary	136.20
11	Warren Hines	Traveling expenses	28.00
12	E. G. Pullman	Photo supplies	3.07
	do	do	7.80
	Rudolph, West & Co.	Maps, etc	7.95
	W. D. Hunter	Expenses	45.05
	G. H. Harris	Traveling expenses	59.87
19	A. L. Quaintance	do	75.70
	H. F. Wickham	Insects	215.00
	The Deming Co.	Pumps, etc	11.77
20	L. O. Howard	Traveling expenses	59.25
23	Bausch & Lomb Optical Co.	Circles, etc	18.50
	Texas Photo Supply Co.	Chemicals, etc	42.71
	Rudolph, West & Co.	Key blanks	.25
	Western Union Telegraph Co.	Service	10.50
24	The Texas and Pacific Rwy. Co.	Passenger transportation	4.25
	Galveston, Harrisburg and San Antonio Rwy. Co.	do	7.60
	Houston and Texas Central R. R. Co.	do	24.00
	Peninsular and Occidental S. S. Co.	do	41.55
	New York, Texas and Mexican Rwy. Co.	do	9.05
25	Gulf, Western Texas and Pacific Rwy. Co.	do	4.45
	New York, Texas and Mexican Rwy. Co.	do	11.70
	I. P. Roosa	Expenses	2.10
	The Geo. W. Knox Express Co.	Transportation	1.73
	The Washington Woodworking Co.	Lantern slides	21.60
29	The Lake Shore and Michigan Southern Rwy. Co.	Passenger transportation	15.62

58 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

ENTOMOLOGICAL INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
June 29	Galveston, Harrisburg and San Antonio Rwy. Co.	Passenger transportation.....	\$10.10
30	A. D. Hopkins et al.....	Salaries.....	1,136.85
	Total fourth quarter, 1903.....		8,787.33
	<i>Supplemental.</i>		
July 2	L. O. Howard.....	Traveling expenses.....	45.71
6	W. F. Fiske.....	Salary.....	50.00
	A. W. Morrill.....	do.....	43.33
	A. L. Quaintance.....	do.....	131.90
	G. H. Harris.....	do.....	100.00
	W. D. Hunter.....	do.....	150.00
	W. E. Hinds.....	do.....	100.00
7	G. Loehler.....	Hall cases.....	140.00
9	F. C. Pratt.....	Traveling expenses.....	13.75
13	Alexander Seed Co.....	Cotton seed.....	6.05
16	International and Great Northern R. R. Co. Missouri, Kansas and Texas Rwy. Co.....	Passenger transportation.....	8.85
	do.....	do.....	8.60
	do.....	do.....	8.70
	Bausch & Lomb Optical Co.....	Lens paper.....	12.55
17	J. F. McCann.....	Rent of building.....	48.00
20	W. E. Hinds.....	Traveling expenses.....	28.00
	W. D. Hunter.....	Expenses.....	20.00
21	A. W. Morrill.....	Traveling expenses.....	25.90
	W. D. Hunter.....	do.....	140.45
22	A. N. Candell.....	do.....	102.45
23	A. L. Quaintance.....	do.....	69.85
24	G. H. Harris.....	do.....	38.60
29	The Chesapeake and Potomac Telephone Co.....	Telephone service.....	6.25
Aug. 3	Herbert Barber.....	Traveling expenses.....	186.95
4	C. L. Marlatt.....	do.....	12.34
15	The Geo. W. Knox Express Co.....	Transportation.....	3.86
27	Jas. B. Lambie.....	Lock, etc.....	.90
Sept. 18	Western Union Telegraph Co.....	Telegraph service.....	8.57
	Galveston, Harrisburg and San Antonio Rwy. Co.....	Transportation.....	10.10
	do.....	do.....	3.80
	Houston and Texas Central R. R. Co.....	do.....	23.45
	do.....	do.....	39.15
	do.....	do.....	8.55
19	Canadian Pacific Rwy. Co.....	do.....	72.55
	New York, Texas and Mexican Rwy. Co.....	do.....	39.30
	do.....	do.....	21.80
	Southern Rwy. Co.....	do.....	79.60
	The Pullman Co.....	do.....	16.50
	Houston and Texas Central R. R. Co.....	do.....	9.00
Oct. 22	Blue Line Transfer Co.....	do.....	.56
31	International and Great Northern R. R.....	do.....	11.45

RECAPITULATION.

Total first quarter, 1903.....	\$8,590.11
Total second quarter, 1903.....	9,086.73
Total third quarter, 1903.....	8,871.02
Total fourth quarter, 1903.....	8,787.33
Supplemental.....	1,847.37
Total.....	37,182.56

SETTLED BY TREASURY.

Date.	Name.	Nature of payment.	Total.
1903.			
Apr. 13	The Public Printer.....	Index cards.....	\$4.52
June 29	Baltimore and Ohio R. R. Co.....	Passenger transportation.....	66.75
	Total.....		71.27



EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE. 59

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

ENTOMOLOGICAL INVESTIGATIONS.

[Appropriation for 1902-3.]

Date.	Name.	Nature of payment.	Total.
1902.			
June 30	E. A. Schwarz et al .....	Salaries .....	\$1,139.50
	Total fourth quarter, 1902 .....		1,139.50
July 8	L. O. Howard .....	Traveling expenses .....	41.45
	R. S. Clifton .....	do .....	11.45
12	C. L. Marlatt .....	do .....	11.45
16	Geo. A. Harris .....	do .....	72.48
17	Walter D. Hunter .....	do .....	116.67
24	A. N. Crandell .....	do .....	51.68
Aug. 16	Bausch & Lomb Optical Co .....	Laboratory supplies .....	43.70
18	Southern Rwy. Co .....	Passenger transportation .....	78.60
19	Walter D. Hunter .....	Traveling expenses .....	107.20
	do .....	Expenses .....	75.71
23	Victoria Furniture Co .....	Furniture .....	80.25
Sept. 6	Walter D. Hunter .....	Traveling expenses .....	106.50
	do .....	Expenses .....	45.00
17	The Deming Co .....	Cart, pump, etc .....	27.48
18	New York, Texas and Mexican Rwy. Co .....	Passenger transportation .....	3.80
	do .....	do .....	6.00
	do .....	do .....	6.60
	do .....	do .....	6.60
26	Houston and Texas Central R. R. Co .....	do .....	13.50
	San Antonio and Aransas Pass Rwy. Co .....	do .....	3.10
	New York, Texas and Mexican R. R. Co .....	do .....	3.80
	Total first quarter, 1903 .....		913.02
Oct. 21	Walter D. Hunter .....	Expenses .....	19.00
Nov. 3	do .....	Traveling expenses .....	70.30
17	do .....	do .....	88.17
18	Gulf, Western Texas and Pacific Rwy. Co .....	Passenger transportation .....	4.45
	Galveston, Harrisburg and San Antonio Rwy. Co. .....	do .....	3.80
	St. Louis Southwestern Rwy Co. .....	do .....	37.30
	International and Great Northern R. R. Co. .....	do .....	10.40
Dec. 3	Galveston, Harrisburg and San Antonio Rwy. Co. .....	do .....	24.60
	Houston and Texas Central R. R. Co. .....	do .....	4.95
	International and Great Northern R. R. Co. .....	do .....	8.25
19	Galveston, Harrisburg and San Antonio Rwy. Co. .....	do .....	10.05
	The Pullman Co .....	do .....	16.00
	Total second quarter, 1903 .....		297.27
1903.			
Jan. 5	Walter D. Hunter .....	Expenses .....	20.00
19	do .....	do .....	134.55
24	Gulf, Colorado and Santa Fe Rwy. Co .....	Passenger transportation .....	9.65
Feb. 10	E. S. Peters .....	Cotton .....	5,475.43
	Total third quarter, 1903 .....		5,639.63

RECAPITULATION.

Fourth quarter, 1902 .....	\$1,139.50
First quarter, 1903 .....	913.02
Second quarter, 1903 .....	297.27
Third quarter, 1903 .....	5,639.63
Total .....	7,989.42

BIOLOGICAL INVESTIGATIONS.

Date.	Name.	Nature of payment.	Total.
1902.			
July 11	Hyrum A. Cluff .....	Mammals and skulls .....	\$35.60
	do .....	do .....	49.50
12	H. H. T. Jackson .....	do .....	10.00
16	Saml. N. Rhoads .....	do .....	6.00
18	E. R. Warren .....	Photos .....	20.00
	Folmer & Schwing Manufacturing Co .....	Lens board, etc .....	12.40
19	E. Morrison Paper Co .....	Mailing tubes, etc .....	3.50

60 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

*Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.*

BIOLOGICAL INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
July 22	F. W. Nelson	Mammals	\$20.00
25	Fred. A. Schmidt	Steel tape	8.10
28	Hugh Reilly	Glass	1.25
31	Vernon Bailey	Salary	189.55
	E. W. Nelson	do	168.50
	Alfred G. Maddren	do	100.00
	E. A. Goldman	do	117.90
	N. Hollister	do	100.00
	Frank Stephens	do	100.00
	Luther J. Goldman	do	100.00
	Gordon Donald	do	50.00
	T. S. Palmer et al	Salaries	533.93
Aug. 1	Jas. S. Topham	Leather pads	.90
5	Merritt Carey	Salary	51.61
	F. Stephens	Traveling expenses	40.00
8	Wm. Wagner	Shells	4.75
11	Geo. K. Robbins	Skulls	8.25
12	W. Silas Sheetz	Films, etc.	28.66
15	C. Hart Merriam	Traveling expenses	133.15
26	F. P. May & Co.	Traps, etc.	17.75
27	W. W. Worthington	Birds' stomachs	6.54
30	N. Hollister	Salary	100.00
	Vernon Bailey	do	189.55
	Luther J. Goldman	do	100.00
	Gordon Donald	do	50.00
	Frank Stephens	do	100.00
	Merritt Carey	do	100.00
	E. W. Nelson	do	168.50
	E. A. Goldman	do	117.90
	T. S. Palmer et al	Salaries	572.80
Sept. 3	A. G. Maddren	Salary	100.00
	W. P. Melville	Birds' stomachs	4.25
5	Z. D. Gilman	Alum, etc.	6.80
6	W. E. C. Todd	Birds' stomachs	4.80
	Frank J. Cullen	Plates and films	12.22
8	Frank Stephens	Traveling expenses	40.00
9	Vernon Bailey	do	149.15
10	Wm. Wagner	Shells	7.75
17	C. Hart Merriam	Traveling expenses	209.27
	Hyrum A. Cluff	Mammals, etc.	16.00
19	F. P. May & Co.	Traps	56.70
	Henry J. Green	Barometers	19.00
20	Library bureau	Book supports	2.70
30	T. S. Palmer	Salaries	500.60
	Total, first quarter		4,545.83
Oct. 1	W. Silas Sheetz	Photo supplies	14.71
	Merritt Cary	Salary	100.00
	L. J. Goldman	do	50.00
	E. A. Goldman	do	114.20
	N. Hollister	do	100.00
	Alfred G. Maddren	do	100.00
	Frank Stephens	do	100.00
	E. W. Nelson	do	160.00
	Gordon Donald	do	50.00
	Vernon Bailey	do	183.40
	Frank Stephens	Traveling expenses	40.00
	Jno. C. Parker	Pins	2.10
7	C. Hart Merriam	Traveling expenses	201.16
15	Jas. S. Topham	Trunk	1.50
16	Merritt Cary	Salary	50.00
	Vernon Bailey	Traveling expenses	126.84
	Gordon Donald	do	22.90
17	Fred. A. Schmidt	Ink	2.70
	Jas. B. Lambie	Hammer	.47
21	Library Bureau	Label holders	7.50
23	Woodward & Lothrop	Thread	2.88
	W. H. Dyer	Chests	13.60
	F. P. May & Co.	Traps	45.00
25	W. Silas Sheetz	Films, etc.	11.00
	The Randolph Paper Box Co.	Cases	9.00
27	Merritt Cary	Traveling expenses	37.00
	Jas. H. Gant	do	41.90
29	E. A. Goldman	do	110.50
	Mackall Bros.	Tubes	76.75
31	T. S. Palmer et al	Salaries	534.10
Nov. 1	F. Stephens	Salary	110.00
	Alfred G. Maddren	do	100.00
	E. W. Nelson	do	168.50

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## BIOLOGICAL INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Nov. 1	E. A. Goldman	Salary	\$117.90
	Vernon Bailey	do	189.55
4	F. Stephens	Traveling expenses	40.00
	Harry C. Oberholser	do	88.48
7	Jas. H. Gant	do	59.40
10	McClure Surber	Mammals	22.50
13	Church & Stephenson	Lumber	23.25
17	Robt. Gair	Envelopes	7.45
	W. E. Snyder	Birds' stomachs	1.20
18	The Pennsylvania R. R. Co.	Passenger transportation	6.23
	Galveston, Harrisburg and San Antonio Rwy. Co.	do	16.95
19	C. Hart Merriam	Traveling expenses	207.75
22	E. Morrison Paper Co	Scrapbooks, etc	6.50
29	H. C. Oberholser	Traveling expenses	97.63
	T. S. Palmer et al	Salaries	500.60
Dec. 1	E. W. Nelson	Salary	163.00
	Vernon Bailey	do	183.40
	E. A. Goldman	do	114.20
3	Fort Worth and Denver City Rwy. Co	Passenger transportation	3.60
4	C. Hart Merriam	Traveling expenses	46.50
8	Jas. H. Gant	do	55.20
10	F. P. May & Co	Traps, etc	44.13
12	N. Hollister	Mammals	6.00
13	Wm. Wagner	Powder, etc	15.35
16	Walter K. Fisher	Birds	34.50
17	E. R. Warren	Photos	10.00
19	Chicago, Rock Island and Texas Rwy. Co.	Passenger transportation	23.10
	Baltimore and Ohio R. R. Co.	do	50.90
22	Wilfred H. Osgood	Traveling expenses	454.65
31	T. S. Palmer et al.	Salaries	438.45
	Total second quarter		5,719.08
1903.			
Jan. 3	E. A. Goldman	Salary	117.90
	E. W. Nelson	do	168.50
	Vernon Bailey	do	189.55
5	Louis A. Fuertes	Drawings	120.00
	Frank S. Daggett	Birds' stomachs	5.60
	Frank J. Cullen	Negatives, etc	5.28
7	Jas. H. Gant	Traveling expenses	69.85
8	Church & Stephenson	Lumber	10.50
12	Mackall Bros	Cotton, etc	19.25
	W. Silas Sheetz	Films	37.20
	Rudolph, West & Co	Sash cord	.76
13	Wm. Wagner	Shells and shot	4.55
15	Library bureau	Trays	3.75
	O. V. Lange	Prints	12.75
	Abbott H. Thayer	Mammals	13.00
16	N. Hollister	Mammals and skull	5.25
	W. W. Worthington	Birds' stomachs	12.00
	Pacific Packing and Navigation Co	Passenger transportation	140.00
21	E. G. Schafer & Co	Pipe, etc	7.68
	The J. C. Ergood Co	Salt	.50
	W. Silas Sheetz	Glycin, etc	15.47
	do	Photo supplies	22.39
	C. Hart Merriam	Traveling expenses	21.00
22	Jas. S. Topham	Repairing cases	4.50
23	W. O. Emerson	Birds' stomachs	11.60
	W. E. Snyder	do	1.35
24	M. Lindsay Rubber Co	Tubing	1.25
	Southern California Rwy. Co.	Passenger transportation	91.46
26	The Pecos Valley and Northeastern Rwy. Co.	do	8.50
	G. H. Malone	Mammals	3.00
27	Harriet E. Richards	Charts, etc	3.10
	The Anthony & Scoville Co	Photo supplies	44.39
	E. R. Warren	Mammals	3.00
	W. W. Worthington	Birds' stomachs	7.20
	A. C. Thompson	Mammals	25.00
	Southern Rwy. Co	Passenger transportation	104.00
28	Fred. A. Schmidt	Ink	2.40
	do	Brushes	1.80
29	Jno. M. Priour	Mammals and skulls	8.40
31	E. W. Nelson	Salary	172.20
	E. A. Goldman	do	137.80
	T. S. Palmer et al.	Salaries	471.25
Feb. 2	E. V. Caywood	Mammals	3.00
	Louise de Bonneville	Salary	84.20

## 62 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## BIOLOGICAL INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Feb. 2	Vernon Bailey	Salary	\$193.75
7	Woodward & Lothrop	Canton flannel	.60
9	United States Express Co.	Transportation	37.49
	Wm. B. Moses & Sons	Linoleum	2.34
	Rudolph, West & Co	Keys	1.00
	Mackall Bros	Chemicals	11.48
	Z. D. Gilman	Graduates, etc.	25.70
	M. Du Perow	Cord, etc.	3.93
12	Jas. H. Gant	Traveling expenses	95.33
	Adams Express	Transportation	52.71
14	Ernest L. Brown	Mammals	15.00
16	Thos. Somerville & Sons	Sinks, etc.	19.10
	W. W. Worthington	Birds' stomachs	6.02
19	Baltimore and Ohio R. R. Co.	Passenger transportation	104.00
	The Texas and Pacific Rwy. Co	do	5.85
	Chicago, Rock Island and Mexican Rwy. Co	do	2.40
	Chicago, Rock Island and El Paso Rwy. Co	do	48.60
25	Edwd. A. Armstrong	Films	2.90
28	E. A. Goldman	Salary	124.40
	T. S. Palmer et al.	Salaries	408.00
Mar. 2	Vernon Bailey	Salary	175.00
3	W. J. Fisher	Skulls	7.00
	W. W. Worthington	Birds' stomachs	6.00
	Viola McColin	Photos, etc.	17.50
	The Chesapeake and Potomac Telephone Co	Service	6.25
	do	do	6.25
	Z. D. Gilman	Needles, forceps, etc.	2.67
	F. P. May & Co	Traps, etc.	24.63
	Wm. Wagner	Shot, etc.	4.35
5	Jas. B. Lambie	Excelsior	.95
9	The Anthony & Scoville Co	Camera stand	18.50
11	National Electric Supply Co.	Sockets	1.10
14	The Folmer & Schwing Manufacturing Co.	Camera board	5.50
	Thos. H. Jackson	Photos	7.00
	Jno. Seawel	Mammals	8.50
	F. E. L. Beal	Traveling expenses	52.25
	Jas. H. Gant	do	84.50
18	Bausch & Lomb Optical Co.	Lens, etc.	40.40
19	Rudolph, West & Co	Wire	1.96
21	M. Du Perow	Lamps	5.16
25	Louis Hartig	Wire	2.84
	W. Silas Sheetz	Photo supplies	31.80
31	T. S. Palmer et al.	Salaries	447.25
	Total third quarter		4,310.09
Apr. 1	Vernon Bailey	Salary	193.75
	E. A. Goldman	do	137.80
2	Edw. S. Schmid	Quail	6.00
	Jas. S. Topham	Trunk handles, etc.	4.60
	Jno. C. Parker	Indexes	2.40
3	Church & Stephenson	Lumber	9.50
	Wm. Wagner	Shells, shot, etc.	18.98
7	Rudolph, West & Co	Latch, etc.	2.43
11	Jas. B. Lambie	Excelsior	.95
13	Blue Line Transfer Co	Transportation	.53
15	F. E. L. Beal	Traveling expenses	63.91
	Jas. H. Gant	do	78.85
16	E. W. Nelson	Salary	155.60
	T. S. Palmer	Traveling expenses	6.45
17	W. Silas Sheetz	Photo supplies	43.75
	J. S. Topham	Leather	1.14
	S. H. Henderson	Skulls	5.50
	T. S. Hambright	Mammals	3.00
	Jno. Wanamaker	Paper	12.00
18	Southern Pacific Co.	Passenger transportation	77.75
	The Texas and Pacific Rwy. Co.	do	44.65
	W. Silas Sheetz	Films	21.60
	Alfred E. Preble	Salary	25.00
	Baltimore and Ohio R. R. Co.	Passenger transportation	78.50
20	Wm. Wagner	Shells, etc.	50.10
23	Abercrombie & Fitch	Bags, etc.	15.75
25	T. B. Wilson	Mammals	7.75
27	E. W. Nelson	Salary	172.20
28	T. S. Palmer	Traveling expenses	32.15
	W. Silas Sheetz	Films, etc.	27.45
30	E. A. Goldman	Salary	131.90
	T. S. Palmer et al.	Salaries	429.85
May 1	Alfred E. Preble	Salary	25.00
	Vernon Bailey	do	185.45

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## BIOLOGICAL INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
May 2	E. W. Nelson	Salary	\$164.80
	Z. D. Gilman	Vials	1.30
	do	Scalpels and scissors	3.00
	Abercrombie & Fitch	Tents	30.40
8	George F. Muth & Co.	Varnish	2.50
	Adams Express Co	Transportation	53.52
	Mackall Bros	Cotton	9.80
	United States Express Co.	Transportation	16.05
	Postal Telegraph Cable Co	Service	1.30
	Mrs. K. L. Paynter	Tents	8.00
15	Will C. Colt	Birds' stomachs	1.50
	American Entomological Co.	Net	1.70
18	Hammer Dry Plate Co	Plates	25.20
	Queen & Co. (Incorporated)	Barometer	19.00
	F. E. L. Beal	Traveling expenses	46.46
21	C. G. Moores	Skulls, etc	5.30
29	F. P. May & Co	Padlocks	21.50
31	T. S. Palmer, et al	Salaries	442.80
June 1	Vernon Bailey	Salary	191.60
	N. Hollister	do	50.00
	Alfred E. Preble	do	50.00
	E. W. Nelson	do	170.40
	E. A. Goldman	do	136.20
3	Galveston, Harrisburg and San Antonio Rwy. Co.	Passenger transportation	11.60
	Jas. H. Gant	Traveling expenses	43.28
6	Abercrombie & Fitch	Clothing bags	8.00
10	F. P. May & Co.	Traps	4.50
	Mackall Bros	Arsenic	2.75
12	Frank Stephens	Expenses	7.80
	F. E. L. Beal	Traveling expenses	47.10
	C. Hart Merriam	do	130.95
13	J. H. Gant	do	49.65
	J. S. Warmbath	Mammals	41.25
15	Vernon Bailey	Traveling expenses	60.05
16	E. W. Nelson	do	33.24
	E. A. Goldman	do	29.25
17	Hudson Bay Co	do	150.00
	W. H. Osgood	do	116.95
20	W. E. Snyder	Birds' stomachs	1.50
	W. W. Worthington	do	37.50
	Luther J. Goldman	Skulls, etc.	44.95
22	The Hoggson & Pettis Manufacturing Co.	Copying cloths	9.00
	Mary A. Bechtler	Cuttings, etc	49.00
	Wm. Wagner	Powder, etc	33.55
	Walter K. Fisher	Skulls, etc.	49.75
23	A. G. Maddren	Mammals and skulls	14.00
	Louis A. Fuertes	Drawings	180.00
	Southern Printers' Supply Co.	Repairing labels	2.40
	Western Union Telegraph Co	Service	15.92
24	Pennsylvania R. R. Co	Passenger transportation	17.00
	Alaska Steamship Co	do	46.00
	N. Hollister	Traveling expenses	74.30
25	The Grand Canyon Rwy. Co.	Passenger transportation	13.00
	Fohner & Schwing Manufacturing Co.	Camera	104.00
	T. S. Palmer	Traveling expenses	73.25
	W. Silas Sheetz	Photo supplies	49.35
	F. P. May & Co	Traps	45.00
30	Walter K. Fisher	Salary	50.00
	T. S. Palmer et al	Salaries	466.52
	Total fourth quarter		5,629.93
	<i>Supplemental.</i>		
July 1	Alden Sampson	Salary	4.00
	Paul Kruegel	do	3.00
	N. Hollister	do	50.00
	A. E. Preble	do	50.00
	Luther J. Goldman	do	70.00
	E. A. Goldman	do	131.80
	E. W. Nelson	do	164.80
	Vernon Bailey	do	185.45
	Hudson Bay Co	Traveling expenses	150.00
2	S. D. Judd	do	12.40
7	Z. D. Gilman	Chemicals	16.42
9	Frank Stevens	Salary	70.00
13	Jno. Wanamaker	Alcohol label paper	36.00
	C. H. Merriam	Traveling expenses	209.98

64 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

BIOLOGICAL INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
<i>Supplemental—Continued.</i>			
1903.			
July 13	W. S. Sheetz	Photo supplies	59.12
14	Vernon Bailey	Traveling expenses	122.28
	T. S. Palmer	do	24.45
15	E. A. Goldman	do	66.78
	Folmer & Schwing Manufacturing Co.	Lens	58.75
	do	Camera	92.00
16	F. P. May & Co.	Rat traps	7.00
18	F. E. L. Beal	Traveling expenses	90.07
20	J. E. Keays	Birds' stomachs	3.75
	Mackall Bros	Arsenic	17.00
	F. A. Schmidt	Pens	2.00
22	J. H. Gant	Traveling expenses	60.28
23	A. H. Howell	do	33.20
24	F. W. Nelson	Mammals	45.50
	J. C. Parker	Pens, etc	16.20
28	E. W. Nelson	Traveling expenses	62.76
Aug. 3	F. W. Nelson	Mammals	46.00
5	Merritt Cary	Traveling expenses	6.95
	do	do	46.90
	E. A. Preble	do	60.00
12	F. P. May & Co.	Mouse traps	43.75
14	T. S. Palmer	Traveling expenses	2.25
15	Z. D. Gilman	Scissors, etc	12.00
	do	Graduate	18.14
17	F. W. Nelson	Mammals, etc	25.20
19	N. Hollister	Traveling expenses	58.00
	Wilfred H. Osgood	do	115.80
26	A. G. Maddren	Mammals	34.50
	Chas. A. Lambert	Skulls of mammals	38.50
Sept. 16	Church & Stephenson	Lumber	1.66
17	Anthony Scoville Co.	Plates	7.20
18	Western Union Telegraph Co.	Telegraph service	15.34
	Postal Telegraph Cable Co.	do	2.61
	Galveston, Harrisburg and San Antonio Rwy. Co.	Transportation	11.60
	Southern California Rwy. Co.	do	4.00
19	Chicago and Northwestern Rwy. Co.	do	61.50
	Canadian Pacific Rwy. Co.	do	37.15
	Baltimore and Ohio R. R. Co.	do	229.30
	do	do	41.25
	White Pass and Yukon Route	do	112.75
	El Paso and Northeastern Rwy. Co.	do	3.80
Oct 10	Postal Telegraph Cable Co.	Telegraph service	3.01
	The Geo. W. Knox Express Co.	Transportation	7.42
	United States Express Co.	do	59.78
28	L. J. Goldman	Traveling expenses	15.00

RECAPITULATION.

First quarter	\$4,545.83
Second quarter	5,719.08
Third quarter	4,310.09
Fourth quarter	5,629.93
Supplemental	3,056.45
Total	23,261.38

SETTLED BY TREASURY.

Date.	Name.	Nature of payment.	Total.
1902.			
Sept. 22	The Atchison, Topeka and Santa Fe Rwy. Co.	Passenger transportation	\$7.15
Oct. 18	Baltimore and Ohio R. R. Co.	do	157.00
Dec. 9	The Atchison, Topeka and Santa Fe Rwy. Co.	do	7.15
	Southern Pacific Co.	do	3.25
	do	do	4.65
	The Atchison, Topeka and Santa Fe Rwy. Co.	do	7.15
	The Public Printer	Printing bulletins	893.60
1903.			
Jan. 24	Southern Pacific Co. (Pacific System)	Passenger transportation	114.25
	do	do	63.25

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

SETTLED BY TREASURY—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Apr. 28	Baltimore and Ohio R. R. Co	Bear skins	\$3.80
June 26	Southern Pacific Co	Passenger transportation	15.00
	Baltimore and Ohio R. R. Co	do	145.25
	The Public Printer	Corrections; North American Fauna.	693.35
July 28	do	Catalogue cards	3.87
Sept. 21	Southern Pacific Co	Passenger transportation	6.30
	do	do	5.60
Oct. 26	Southern Pacific Co. (Pacific System)	do	56.65
	Total		2,187.27

BIOLOGICAL INVESTIGATIONS.

[Appropriation for 1902-3.]

1902.			
June 20	W. Silas Sheetz	Photo supplies	\$44.52
30	E. W. Wilson	Traveling expenses	55.20
	E. A. Goldman	do	20.20
	Total fourth quarter, 1902		119.92
July 1	L. J. Goldman	Mammals	19.10
2	do	Salary	50.00
3	M. Abbott Frazar	Skulls	45.00
	J. H. Keen	Mammals	8.35
	Peter Schmid	do	9.00
	W. W. Worthington	Birds' stomachs	6.00
8	Wilford H. Osgood	Traveling expenses	61.65
16	Harry C. Oberholser	do	37.88
17	Vernon Bailey	do	55.49
22	F. Stevens	do	34.67
24	F. P. May & Co	Mouse traps	45.00
Aug. 14	Vernon Bailey	Traveling expenses	155.96
15	Harry C. Oberholser	do	78.71
18	Pacific Packing and Navigation Co.	Passenger transportation	120.00
	Chicago, Milwaukee and St. Paul Rwy. Co.	do	26.40
	The Chesapeake and Ohio R. R. Co.	do	31.75
25	N. Hollister	Traveling expenses	17.90
Sept. 12	Harry C. Oberholser	do	79.98
18	Galveston, Harrisburg and San Antonio Rwy. Co.	Passenger transportation	45.55
	Texas and New Orleans R. R. Co	do	8.75
26	Galveston, Harrisburg and San Antonio Rwy. Co.	do	12.40
	Total first quarter		949.54
Oct. 20	Gordon Donald	Traveling expenses	9.90
30	L. J. Goldman	do	59.40
Nov. 17	do	do	323.25
	Burton L. Cummings	Mammals	9.75
	W. W. Worthington	Bird's stomach, etc	2.15
18	Baltimore and Ohio R. R. Co	Passenger transportation	174.45
Dec. 3	International and Great Northern R. R. Co.	do	3.35
	The Texas and Pacific Rwy. Co.	do	3.75
18	Sylvester D. Judd	Traveling expenses	14.09
19	Gulf, Colorado and Santa Fe Rwy. Co	Passenger transportation	28.46
20	Wilford H. Osgood	Traveling expenses	221.50
	Total second quarter		850.05
1903.			
Jan. 26	Burlington and Missouri River R. R. Co	Passenger transportation	30.10

RECAPITULATION.

Fourth quarter, 1902	\$119.92
First quarter, 1903	949.54
Second quarter	850.05
Third quarter	30.10
Total	1,949.61

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## PUBLICATIONS, FARMERS' BULLETINS.

Date.	Name.	Nature of payment.	Total.
1902.			
July 25	Southern Printers' Supply Co.....	Electros.....	\$7. 84
31	R. M. Reese et al.....	Salaries.....	455. 49
Aug. 5	Alpha Photo-Engraving Co.....	Engravings.....	22. 50
23	The Publishers and Printers' Engraving Co.....	do.....	16. 26
30	R. M. Reese et al.....	Salaries.....	500. 46
Sept. 30	do.....	do.....	512. 20
	Total first quarter.....		1,514. 75
Oct. 6	The Publishers and Printers' Engraving Co.....	Engravings.....	10. 00
23	do.....	do.....	18. 89
31	R. M. Reese et al.....	Salaries.....	523. 90
Nov. 17	The Maurice Joyce Engraving Co.....	Engraving.....	. 85
29	R. M. Reese et al.....	Salaries.....	512. 20
Dec. 31	do.....	do.....	473. 00
	Total second quarter.....		1,539. 74
1903.			
Jan. 5	C. S. Plumb.....	Manuscript.....	110. 00
22	The Publishers and Printers' Engraving Co.....	Engravings.....	10. 08
24	The Maurice Joyce Engraving Co.....	do.....	3. 60
31	R. M. Reese et al.....	Salaries.....	482. 00
Feb. 28	do.....	do.....	446. 00
Mar. 31	do.....	do.....	432. 00
	Total third quarter.....		1,483. 68
Apr. 30	R. M. Reese et al.....	Salaries.....	406. 70
May 31	do.....	do.....	416. 60
June 30	do.....	do.....	430. 03
	Total fourth quarter.....		1,253. 33
	<i>Supplemental.</i>		
July 2	G. E. Howard.....	Manuscript and drawings.....	250. 00
17	J. B. Smith.....	do.....	150. 00
Oct. 22	Andrew Boss.....	do.....	150. 00
	Total.....		550. 00

## RECAPITULATION.

First quarter.....	\$1,514. 75
Second quarter.....	1,539. 74
Third quarter.....	1,483. 68
Fourth quarter.....	1,253. 33
Supplemental.....	550. 00
Total.....	6,341. 50

## PUBLICATIONS, FARMERS' BULLETINS—TREASURY ACCOUNTS.

Date.	Name.	Nature of payment.	Total.
1902.			
Dec. 9	The Public Printer.....	Printing bulletins.....	\$49,638. 59
	do.....	do.....	4,467. 38
1903.			
Feb. 5	do.....	do.....	2,694. 54
Mar. 4	do.....	do.....	2,703. 73
Apr. 3	do.....	do.....	1,732. 41
	do.....	do.....	3,666. 80
May 7	do.....	do.....	124. 46
	do.....	do.....	1,638. 90
	do.....	do.....	2,914. 67
June 26	do.....	do.....	2,800. 15
	do.....	do.....	1,894. 45
	do.....	do.....	625. 83
July 14	do.....	do.....	2,201. 14
	do.....	do.....	4,089. 21
28	do.....	do.....	707. 77
	do.....	do.....	941. 70
Sept. 21	do.....	do.....	3,241. 07
	do.....	do.....	2,397. 85
	do.....	do.....	512. 84
	Total.....		88,993. 79



Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## ARTISTS, DRAFTSMEN, ENGRAVERS, ETC.

Date.	Name.	Nature of payment.	Total.
1902.			
July 19	J. Baumgarten & Son	Numbering machine	\$9.33
24	Jno. R. Galloway	Ceiling fan	80.00
25	Southern Printers' Supply Co.	Electro	1.80
	Fred A. Schmidt	Map	2.00
29	do	Paper	11.30
31	L. S. Williams et al	Salaries	407.70
	H. S. Walter et al	do	6,558.75
Aug. 5	M. Du Perow	Electric fans	50.00
	Woodward & Lothrop	Desk and chairs	56.45
8	Tyler & Rutherford (Incorporated)	Rent	116.66
21	Ernest Betz	Paste cups	1.20
19	J. Manz Engraving Co.	Engravings	47.80
	Geo. Meier & Co.	Gum arabic	100.00
23	Yawman & Erbe Manufacturing Co.	Cards	52.50
	The Publishers and Printers' Engraving Co.	Engraving	14.21
26	E. J. Pullman	Plates, etc	15.75
	W. B. Moses & Sons	Furniture, etc	85.40
	The Hammond Typewriter Co	Shuttle	2.50
	Rudolph, West & Co	Paste brushes	5.40
	Jno. C. Parker	Wire basket	3.00
	The Publishers and Printers' Engraving Co.	Engraving	1.00
30	L. S. Williams et al	Salaries	468.67
	H. S. Walter et al	do	6,427.11
Sept. 2	Tyler & Rutherford (Incorporated)	Rent	116.66
5	J. P. Nawrath	Twine	68.53
	Church & Stephenson	Lumber	57.13
	Southern Printers' Supply Co.	Electros	1.00
17	do	do	3.60
	Z. D. Gilman	Ether, etc	11.05
	F. W. Gesswein & Co	Tools	12.95
	Rudolph, West & Co	Sash lifts	45
	Wolf Bros	Envelopes	277.20
	C. F. Curtiss	Horses	500.00
19	Edwin A. Adt	Salary	20.00
24	The Chesapeake and Potomac Telephone Co.	Moving telephones	4.00
	A. R. Barnes & Co	Copying paper	27.50
25	Fred A. Schmidt	Photographic paper	1.80
27	Jos. A. Arnold	Traveling expenses	38.65
	Southern Printers' Supply Co.	Electros	6.75
	J. Baumgarten & Son	Numbering machine	9.33
30	L. S. Williams et al	Salaries	453.40
	H. S. Walter et al	do	6,292.42
	Total first quarter		22,390.33
Oct. 1	Wolf Bros	Envelopes	135.30
4	C. Becker	Brushes, etc	7.50
6	The Randolph Paper Box Co	Boxes	44.50
	A. P. Johnson		19.85
11	J. F. Strauss		5.00
	Thos. E. Trazzane		525.00
15	Tyler & Rutherford (Incorporated)	Rent	116.66
	Fred A. Schmidt	Dividers	6.00
	Jas. B. Lambie	Locks, etc	2.40
18	P. H. Heiskell, jr., & Co	Harness	49.98
	W. B. Moses & Sons	Furniture	98.05
20	United States Envelope Co	Envelopes	2,286.96
28	The Maurice Joyce Engraving Co	Engravings	3.89
	D. L. Coon & Co	Storage	12.00
	J. Manz Engraving Co	Engravings	25.00
31	L. S. Williams et al	Salaries	531.30
	H. S. Walter et al	do	6,397.20
Nov. 5	Tyler & Rutherford (Incorporated)	Rent	116.66
	Southern Printers' Supply Co	Electros	1.72
13	E. J. Pullman	Photo paper	1.50
	Rudolph, West & Co	Tires	4.00
	Z. D. Gilman	Oil	.35
17	Southern Printers' Supply Co	Electros	9.15
	J. P. Nawrath	Twine	50.40
	C. Becker	Horse covers, etc	59.55
	R. P. Andrews & Co. (Incorporated)	Wrapping paper	125.00
	American Cycle Manufacturing Co	Repairs to bicycles	6.50
18	The Pennsylvania R. R. Co	Passenger transportation	12.25
	New York, New Haven and Hartford R. R. Co	do	5.00
19	Houghton & Delano	Plates	1.68
	Mackall Bros	Silver nitrate	11.70
20	The Norris Peters Co	Maps	200.00

*Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.*

ARTISTS, DRAFTSMEN, ENGRAVERS, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Nov. 20	F. W. Gesswein Co.	Pad	\$1.25
	Wolf Bros	Envelopes	178.00
	Geo. Meier & Co.	Gum arabic	60.00
22	The Maurice Joyce Engraving Co.	Engravings	1.00
29	S. P. Johnson	Repairs to typewriter	5.00
	H. S. Walter et al	Salaries	6,216.96
	L. S. Williams et al	do	504.40
Dec. 1	Thos. E. Trazzane	Wagon apron	4.00
2	American Cycle Manufacturing Co	Cleaning bicycle	1.15
	The Elliott Co	Addressing machine, etc	350.00
4	United States Envelope Co	Envelopes	189.40
5	The Maurice Joyce Engraving Co.	Engraving	9.50
6	Jno. C. Parker	Envelopes	35.00
8	Library Bureau	Binders	6.60
10	Ernest Betz	Paste cups, etc	2.16
	W. B. Moses & Sons	Desks	11.00
12	Tyler & Rutherford (Incorporated)	Rent	116.66
	Rudolph, West & Co	Pitchfork	.75
	Barber & Ross	Shovel	.90
	The Hammond Typewriter Co	Repairs to typewriter	5.00
	M. Du Perow	Tubing	2.75
	A. P. Johnson	Cut	2.11
	do	do	.53
	Geo. W. Millar & Co.	Paper	206.10
	Wolf Bros	Envelopes	181.56
17	Southern Printers' Supply Co.	Electros	4.80
	Fred A. Schmidt	Artists' materials	9.27
31	L. S. Williams et al	Salaries	734.30
	H. S. Walter et al	do	5,835.42
	Total second quarter		25,466.62
1903.			
Jan. 3	Geo. W. King	Salary	7.74
5	Southern Printers' Supply Co.	Electros	2.75
12	Geo. F. Muth & Co.	Helio paper, etc	11.85
	Rudolph, West & Co	Paste brushes	10.00
	Tyler & Rutherford (Incorporated)	Rent	116.66
13	Fred A. Schmidt	Ink, etc	28.74
	American Cycle Manufacturing Co	Tire	3.75
	do	Bell, chain, etc	2.00
	S. P. Johnson	Repairs to typewriter	4.35
15	J. Manz Engraving Co	Engraving	20.00
	The Alpha Photo-Engraving Co.	do	4.50
	Library Bureau	Card-index case	54.50
	Wolf Bros	Envelopes	174.44
16	Lillian L. Howenstein	Salary	15.00
21	The Maurice Joyce Engraving Co.	Engraving	.50
	do	do	2.00
	do	do	6.56
	E. J. Pullman	Photo paper	1.80
	do	Velox	2.97
24	M. Silverberg & Co	Frame	2.50
	E. J. Pullman	Seed plates, etc	9.02
27	Paul D. Sullivan	Drawings	50.00
31	L. S. Williams et al	Salaries	783.80
	H. S. Walter et al	do	6,009.62
Feb. 2	Jno. C. Parker	Envelopes	47.07
	C. Becker	Bit	.75
9	E. J. Pullman	Mounts	2.93
	Mackall Bros	Chemicals	1.25
	W. G. Orr & Co	Washtubs	.75
16	Jos. A. Arnold	Traveling expenses	7.15
19	The Alpha Photo-Engraving Co.	Engravings	11.35
	The Publishers and Printers' Engraving Co.	do	23.95
	Tyler & Rutherford (Incorporated)	Rent	116.66
20	Gatchel & Manning	Illustrations	25.00
21	The Maurice Joyce Engraving Co.	Engravings	5.05
	The American Cycle Manufacturing Co	Repairs to bicycle	1.00
25	Southern Printers' Supply Co.	Electros	1.75
28	L. S. Williams et al	Salaries	785.80
	H. S. Walter et al	do	5,901.03
Mar. 3	S. M. Tracy	Manuscript	300.00
5	Fred A. Schmidt	Drawing materials	21.34
9	J. Manz Engraving Co	Engravings	37.00
	The Publishers and Printers' Engraving Co.	do	9.14
11	E. J. Pullman	Cotton	1.35
	The Maurice Joyce Engraving Co.	Engravings	4.75
	do	do	.75

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## ARTISTS, DRAFTSMEN, ENGRAVERS, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Mar. 11	Chas. R. Edmonston .....	Solarine and rollers .....	\$1.30
14	Walker Engraving Co .....	Engravings .....	7.50
	The Publishers and Printers' Engraving Co. ....	do .....	6.67
	The J. Manz Engraving Co .....	do .....	18.00
	The Alpha Photo-Engraving Co .....	do .....	9.40
	Jas. M. Bryant .....	Woodcut .....	40.00
	American Cycle Manufacturing Co .....	Repairs to bicycle .....	10.90
16	United States Envelope Co .....	Envelopes .....	13.60
	Tyler & Rutherford (Incorporated) .....	Rent .....	116.66
18	The American Cycle Manufacturing Co .....	Bicycle .....	40.00
	C. Becker .....	Repairs to harness .....	16.85
	J. Baumgarten & Son .....	Numbering machine .....	9.33
	Holmes & Co .....	Rubber cloth .....	1.20
	Wolf Bros .....	Envelopes .....	1.78
19	The M. Lindsay Rubber Co .....	Gloves .....	2.00
24	E. J. Pullman .....	Photo paper .....	2.85
31	L. S. Williams et al. ....	Salaries .....	828.14
	H. S. Walter et al. ....	do .....	6,054.87
	Total third quarter .....		21,811.90
Apr. 2	Jas. M. Bryant .....	Engraving on wood .....	24.00
	Nancy Lee Hill .....	Drawing .....	20.00
3	The Maurice Joyce Engraving Co .....	Engraving .....	.75
	John C. Parker .....	Scrapbook .....	22.85
	Tyler & Rutherford .....	Rent .....	116.66
7	Southern Printers' Supply Co. ....	Wood cuts .....	2.90
	E. J. Pullman .....	Plates, etc .....	4.33
	The Maurice Joyce Engraving Co .....	Engraving .....	3.95
	Horace Gosarn .....	Holders .....	5.00
9	W. B. Moses & Sons .....	Desk, shades, etc .....	23.01
13	M. DuPerow .....	Cord .....	10.00
14	The Publishers and Printers' Engraving Co. ....	Engraving .....	31.59
	The Elliott Co .....	Stencils .....	26.08
16	The Publishers and Printers' Engraving Co. ....	Engraving .....	10.45
17	Thos. Somerville & Sons .....	Alterations to lift, etc .....	19.40
	Lamb & Tilden .....	Stamps .....	2.50
	Library Bureau .....	Cards, etc .....	62.10
18	Baltimore and Ohio R. R. Co .....	Passenger transportation .....	4.00
	The Pennsylvania R. R. Co .....	do .....	4.00
	D. Frank Parker .....	Repairs to machine .....	5.20
27	The Publishers and Printers' Engraving Co. ....	Engravings .....	1.75
28	Fred. A. Schmidt .....	Pens, etc .....	9.45
30	L. S. Williams et al. ....	Salaries .....	816.80
	H. S. Walter et al. ....	do .....	5,984.10
May 2	Z. D. Gilman .....	Ammonia, etc .....	1.80
	The Elliott Co .....	Cabinet, etc .....	23.60
8	Southern Printers' Supply Co .....	Electro .....	1.40
	Geo. F. Muth & Co .....	Paper .....	6.60
	E. J. Pullman .....	do .....	5.40
	The Maurice Joyce Engraving Co .....	Egravings .....	1.60
	do .....	do .....	1.70
15	The Publishers and Printers' Engraving Co. ....	do .....	4.78
	A. P. Johnson, jr .....	Boxwood .....	2.10
16	Fred. A. Schmidt .....	Rule, etc .....	6.75
	The Maurice Joyce Engraving Co .....	Engraving .....	.93
	C. Becker .....	Hoof packing .....	2.00
18	The Publishers and Printers' Engraving Co. ....	Engravings .....	2.00
	do .....	do .....	3.35
19	United States Envelope Co .....	Envelopes .....	2,393.04
21	Tyler & Rutherford (Incorporated) .....	Rent .....	116.66
25	Louis S. Williams .....	Traveling expenses .....	3.40
26	Geo. W. Wells .....	Repairs to bicycles .....	.50
29	Walker & Hazleton .....	Lock, etc .....	.50
	W. H. Dyer .....	Moldings .....	.48
31	L. S. Williams et al. ....	Salaries .....	886.40
	H. S. Walters et al. ....	do .....	5,694.44
June 5	Truman G. Palmer .....	Article on "Sugar Beet Culture." .....	60.00
	The Publishers and Printers' Engraving Co. ....	Engravings .....	1.75
	do .....	do .....	22.82
	do .....	do .....	10.58
	Jas. M. Bryant .....	do .....	26.00

70 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

ARTISTS, DRAFTSMEN, ENGRAVERS, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
June 5	Library Bureau	Dictionary stand	\$47.00
9	The Norris Peters Co	Map	35.00
	Jno. R. Galloway	Electric fan	28.00
	American Cycle Manufacturing Co	Repairs to bicycle	3.00
	Wolf Bros	Envelopes	27.50
	Tyler & Rutherford	Rent	116.66
10	Fred. A. Schmidt	Artist materials	471.33
	The Publishers and Printers' Engraving Co.	Engravings	16.14
	Southern Printers' Supply Co.	Electros	.30
	do	do	.25
	Lamb & Tilden	Repairs to dater	1.00
	M. Du Perow	Hooks	2.53
11	Jos. A. Arnold	Traveling expenses	32.25
12	R. Carter Ballantyne	Pens	3.78
	W. B. Moses & Sons	Chairs	10.32
	do	Felt lining	2.24
	Rudolph, West & Co	Broom	.65
17	Yawman & Erbe Manufacturing Co	Files	2.90
	do	Cards	2.81
	The Publishers and Printers' Engraving Co.	Engravings	33.18
20	do	do	34.12
22	Jas. M. Bryant	do	28.00
	The Randolph Paper Box Co	Boxes	90.00
23	Fred A. Schmidt	Blueprint paper	2.70
	E. J. Pullman	Velox, etc	4.76
	Hugh Reilly	Plate glass	5.00
	Southern Printers' Supply Co.	Electros	.75
25	Martin Wiegand	Tags	96.00
29	Pennsylvania R. R. Co	Passenger transportation	6.00
	do	do	17.00
30	L. S. Williams et al	Salaries	965.70
	H. S. Walter et al	do	5,606.40
	Total fourth quarter		24,184.72
	<i>Supplemental.</i>		
July 1	Wolf Bros	Paper and envelopes	82.50
	J. Manz Engraving Co	Engravings	93.00
7	The Maurice Joyce Engraving Co.	do	25.87
	Church & Stephenson	Lumber	15.75
	Geo. F. Muth & Co	Pencil sharpener	6.50
13	The Publishers and Printers' Engraving Co.	Engravings	13.57
	do	do	7.93
	J. M. Bryant	do	46.00
	J. Manz Engraving Co	do	48.75
	E. J. Pullman	Plates, etc	5.55
	E. Morrison Paper Co	Set of numbers	18.00
16	Southern Printers' Supply Co.	Electro	.50
	do	Electros	6.40
	The Publishers and Printers' Engraving Co.	Engravings	1.75
	W. B. Moses & Sons	Bookcase	26.00
24	E. J. Pullman	Photo apparatus	85.00
	Tyler & Rutherford	Rent	116.66
28	J. F. Strauss	Drawings	50.00
Aug. 10	The Folmer & Schwing Manufacturing Co.	Photo apparatus	353.60
15	Lamb & Tilden	Ribbon for dater	.50
18	F. A. Schmidt	Paper, etc	270.08
	Pennsylvania R. R. Co	Transportation	1.20
19	Pittsburg, Cincinnati, Chicago and St. Louis Rwy Co.	do	16.00
24	E. J. Pullman	Photo supplies	43.68
Oct. 22	The Anthony & Scoville Co	do	326.38
	Total		1,661.17

RECAPITULATION.

First quarter	\$22,390.93
Second quarter	25,466.62
Third quarter	21,811.90
Fourth quarter	24,184.72
Supplemental	1,661.17
Total	95,515.34

*Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.*

## COLLECTING AGRICULTURAL STATISTICS.

Date.	Name.	Nature of payment.	Total.
1902.			
July 17	Jno. Hyde	Traveling expenses	\$14.62
	Washington City post-office	Stamps	30.00
31	G. K. Holmes et al	Salaries	3,201.54
Aug. 1	B. C. White	Salary	189.00
	Thos. B. Baldwin	do	189.00
	Edwd. S. Holmes, jr	do	189.00
	Victor H. Olmsted	do	140.00
	Jno. J. Darg	do	122.00
	Jno. S. Charlton	do	119.00
	H. G. Krum	do	40.00
4	Thos. C. Holloway	Traveling expenses	10.00
	Lamb & Tilden	Stamp pads	40.00
5	E. T. Peters	Salary	136.50
	L. M. Erskine	do	50.00
	C. Bollinger	do	25.00
6	The Hammond Typewriter Co	Shields	2.00
8	B. C. White	Traveling expenses	147.15
	Jno. J. Darg	do	131.75
	Herbert H. Mowry	Salary	40.00
	Jno. L. Cantwell	do	20.00
9	Thos. B. Baldwin	Traveling expenses	129.95
11	Edwd. L. Holmes, jr	do	123.81
14	W. O. H. Shepard	Salary	20.00
16	Oswald Wilson	do	67.40
18	Southern Rwy Co.	Passenger transportation	22.50
	Arbor R. R. Co.	do	4.42
20	Edwd. C. Parker	Salary	40.00
	Henry Hawkins	do	20.00
	Victor H. Olmsted	Traveling expenses	62.15
	Jno. S. Charlton	do	103.30
21	E. T. Peters	do	100.00
28	R. Carter Ballantyne	Pens	4.83
	The Hammond Typewriter Co	Shuttle	2.50
30	Thos. B. Baldwin	Salary	182.00
	B. C. White	do	182.00
	Jno. J. Darg	do	130.00
	Geo. H. Holmes et al	Salaries	3,139.26
Sept. 4	Edwd. S. Holmes, jr	Salary	182.00
5	Victor H. Olmsted	do	182.00
	Henry Hawkins	do	20.00
	Harry G. Krum	do	40.00
5	Jno. S. Charlton	do	182.00
	C. Ballinger	do	25.00
6	H. H. Mowry	do	40.00
	Edw. C. Parker	do	40.00
	Jno. N. Cantwell	do	20.00
	L. M. Erskine	do	50.00
8	Jno. J. Darg	Traveling expenses	129.05
	Thos. B. Baldwin	do	132.25
	Edw. S. Holmes, jr	do	105.75
9	B. C. White	do	136.65
12	Victor H. Olmsted	do	97.05
17	Jno. S. Charlton	do	97.25
18	Richd. H. Lea	Salary	100.00
	Southern Rwy. Co.	Passenger transportation	12.50
	Alabama Great Southern R. R. Co.	do	10.45
	Northern Pacific Rwy. Co.	do	6.98
20	W. O. H. Shepard	Salary	20.00
26	The Pullman Co.	Passenger transportation	35.00
	Chicago, Milwaukee and St. Paul Rwy. Co.	do	11.50
	The Atchison, Topeka and Santa Fe Rwy. Co.	do	9.30
	Burlington and Missouri River R. R. Co.	do	40.76
	Norfolk and Washington Steamboat Co	do	5.00
30	Jno. Cowine	Salary	200.00
	W. C. Duncan	do	200.00
	W. W. Miller	do	200.00
	Jno. S. Charlton	do	182.00
	Plum A. Rogers	do	175.00
	W. G. Whitmore	do	175.00
	S. Arthur Knapp	do	165.00
	Mahlon T. Lightner	do	150.00
	Chas. H. Morse	do	150.00
	W. H. Northern	do	150.00
	E. F. Scherbel	do	150.00
	E. E. Kaufman	do	150.00
	R. H. Thomas	do	150.00
	Jas. H. Lane	do	137.50
	E. M. Hemphill	do	137.50
	Oswald Wilson	do	132.60

72 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

COLLECTING AGRICULTURAL STATISTICS—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Sept. 30	J. J. Corley .....	Salary .....	\$125.00
	Danl. K. Pope .....	do .....	125.00
	O. V. Lovette .....	do .....	125.00
	McKinzie R. Todd .....	do .....	125.00
	Jas. A. Hayden .....	do .....	112.50
	Edw. Wiggin .....	do .....	75.00
	Chas. L. Gold .....	do .....	75.00
	Homer W. Vail .....	do .....	75.00
	E. D. Howe .....	do .....	75.00
	Jno. T. Cox .....	do .....	75.00
	Jno. J. Rosa .....	do .....	75.00
	E. C. Hutchinson .....	do .....	75.00
	Geo. E. Adams .....	do .....	75.00
	Herbert H. Mowry .....	do .....	40.00
	Harry G. Krum .....	do .....	40.00
	Geo. K. Holmes et al .....	Salaries .....	2,880.69
	Total first quarter .....		17,688.96
Oct. 1	Edw. S. Holmes, jr .....	Traveling expenses .....	36.82
	Nannie P. Ballard .....	Salary .....	13.70
	Thos. B. Baldwin .....	do .....	182.00
	Edw. S. Holmes, jr .....	do .....	182.00
	B. C. White .....	do .....	168.00
	E. T. Peters .....	do .....	50.00
	L. M. Erskine .....	do .....	200.00
	Thos. J. Anderson .....	do .....	130.00
	Jno. J. Darg .....	do .....	112.50
2	A. M. Hawley .....	do .....	112.00
	S. J. Seal .....	do .....	100.00
3	William Nelson .....	do .....	75.00
	Danl. E. Morton .....	do .....	25.00
	C. Ballinger .....	do .....	182.00
	Victor H. Olmsted .....	do .....	112.50
4	Geo. W. Perry .....	do .....	20.00
	John L. Cantwell .....	do .....	155.85
	B. C. White .....	Traveling expenses .....	135.76
6	Jno. J. Darg .....	do .....	116.20
7	Victor H. Olmsted .....	do .....	175.00
9	F. E. Dawley .....	Salary .....	112.50
	D. B. Russell .....	do .....	200.00
	Kilbourn H. Roby .....	do .....	40.00
	Edw. Cary Parker .....	do .....	20.00
	W. O. H. Shepard .....	do .....	125.00
10	W. H. Desgranges .....	do .....	50.00
	Richd. H. Lea .....	do .....	122.50
	Thos. B. Baldwin .....	Traveling expenses .....	77.10
15	Edw. G. Ward .....	do .....	12.55
	Victor H. Olmsted .....	do .....	78.85
	Middleton Smith .....	do .....	77.00
	Victor H. Olmsted .....	Salary .....	20.00
16	Henry Hawkins .....	do .....	69.50
	D. W. Stier .....	Traveling expenses .....	90.50
18	Thos. C. Holloway .....	do .....	127.66
20	C. C. Clark .....	do .....	126.70
24	E. C. Sammis .....	do .....	78.85
27	Jno. C. Charlton .....	do .....	189.00
31	Geo. K. Holmes et al .....	Salaries .....	3,328.00
Nov. 1	B. C. White .....	Salary .....	135.00
	Jno. J. Darg .....	do .....	40.00
	Harry G. Krum .....	do .....	189.00
	Thos. C. Baldwin .....	do .....	189.00
	Edw. S. Holmes, jr .....	do .....	4.80
	Library Bureau .....	Indexes .....	4.80
	do .....	Pamphlet cases .....	6.00
3	E. Morrison Paper Co .....	Paper .....	6.20
	R. Carter Ballantyne .....	Pens .....	20.00
	R. P. Andrews & Co .....	Wrapping paper .....	10.80
	D. Frank Parker .....	Ink .....	1.34
	do .....	Ink pads .....	2.45
	Wyckoff, Seamans & Benedict .....	Cylinder .....	21.70
	do .....	Repairs to typewriter .....	15.10
	do .....	Paper .....	40.00
4	Herbert Hager Mowry .....	Salary .....	189.20
	Jno. C. Charlton .....	do .....	20.00
6	John L. Cantwell .....	do .....	50.00
	L. M. Erskine .....	do .....	25.00
	C. Ballinger .....	do .....	153.10
8	Thos. B. Baldwin .....	Traveling expenses .....	20.00
10	Henry Hawkins .....	Salary .....	20.00

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## COLLECTING AGRICULTURAL STATISTICS—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Nov. 10	Edw. S. Holmes, jr	Traveling expenses	\$86.65
	Jno. S. Charlton	do	109.90
	Jno. J. Darg	do	144.86
11	B. C. White	do	122.68
13	R. Carter Ballantyne	Brushes	3.25
17	E. T. Peters	Salary	182.00
	Edw. C. Parker	do	40.00
	Jno. Hyde	Traveling expenses	30.25
	S. P. Johnson	Repairs to typewriter	7.75
18	Chicago and Northwestern Rwy. Co	Passenger transportation	10.10
	The Oregon R. R. and Navigation Co.	do	6.85
	Chicago, Indianapolis and Louisville Rwy. Co.	do	5.00
	Illinois Central R. R. Co	do	11.85
	Minneapolis and St. Louis R. R. Co.	do	6.30
	do	do	8.00
	The Chesapeake and Ohio R. R. Co	do	19.95
	Northern Pacific Rwy. Co	do	6.98
	Southern Rwy. Co	do	19.90
	The Wabash R. R. Co	do	7.65
	Louisville and Nashville R. R. Co	do	31.60
	The Yazoo and Mississippi Valley R. R. Co	do	6.80
	Pittsburg, Cincinnati, Chicago and St. Louis Rwy. Co.	do	12.75
	Great Northern Rwy. Co	do	10.40
	Chicago, Milwaukee and St. Paul Rwy. Co.	do	10.15
20	Pennsylvania Co	do	17.50
	Wolf Bros	Envelopes	19.30
22	D. Frank Parker	Paper, etc	29.10
29	Geo. K. Holmes et al	Salaries	3,184.37
Dec. 1	Thos. B. Baldwin	Salary	175.00
	Edw. S. Holmes, jr	do	189.00
	B. C. White	do	175.20
	W. O. H. Shepard	do	20.00
	Jno. J. Darg	do	125.00
8	The Missouri Pacific Rwy. Co	Passenger transportation	3.75
	The Pullman Co.	do	13.00
	Missouri, Kansas and Texas Rwy. Co	do	.80
	do	do	2.35
	Pittsburg, Cincinnati, Chicago and St. Louis Rwy. Co.	do	30.85
	do	do	22.10
	Louisville and Nashville R. R. Co	do	27.15
	do	do	6.70
	Chicago and Alton Rwy. Co	do	2.95
	do	do	2.95
	do	do	12.35
	Seaboard Air Line Rwy. Co	do	9.30
	The Texas and Pacific Rwy. Co.	do	5.65
	Illinois Central R. R. Co	do	11.85
	do	do	6.36
	The Chesapeake and Ohio R. R. Co	do	271.80
	Atlantic Coast Line R. R. Co.	do	4.45
	The Oregon Railroad and Navigation Co	do	84.35
	Union Pacific R. R. Co.	do	4.83
	do	do	20.76
	New York, Texas and Mexican Rwy. Co	do	4.10
	The Central Branch Rwy. Co.	do	5.70
	Washington Southern Rwy. Co	do	37.00
	Western Maryland R. R. Co	do	4.05
	The Wabash R. R. Co	do	19.55
	The Yazoo and Mississippi Valley R. R. Co.	do	2.50
4	Jno. C. Charlton	Salary	175.00
	L. M. Erskine	do	50.00
	Jno. L. Cantwell	do	20.00
	E. T. Peters	do	168.00
	do	Traveling expenses	26.55
	do	do	19.10
5	Edw. S. Holmes, jr	do	76.30
6	B. C. White	do	162.95
8	Henry Hawkins	Salary	20.00
	C. Ballinger	do	25.00
	Edw. C. Parker	do	40.00
	Harry G. Krum	do	40.00
	Jno. J. Darg	Traveling expenses	144.10
	Wyckoff, Seamans & Benedict	Typewriter, etc	92.25
	Jno. C. Parker	Eraser, etc	13.62
9	Thos. B. Baldwin	Traveling expenses	158.65
	Stephen D. Fessenden	do	57.55
11	W. O. H. Sheppard	Salary	20.00

## 74 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## COLLECTING AGRICULTURAL STATISTICS—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Dec. 11	Herbert H. Mowry	Salary	\$40.00
12	Jno. S. Charlton	Traveling expenses	59.75
13	Washington City post-office	Stamps	30.00
17	Mrs. A. J. Moore, treasurer	Book	10.00
	E. Morrison Paper Co	Bristol board, etc.	60.75
18	Richd. H. Lea	Salary	100.00
19	Great Northern Rwy. Co	Passenger transportation	15.90
	The Chesapeake and Ohio Rwy. Co	do	5.50
	Erie R. R. Co.	do	2.24
	Union Pacific R. R. Co.	do	39.09
	International and Great Northern R. R. Co.	do	6.00
	The Pennsylvania R. R. Co.	do	35.80
	do	do	16.00
	do	do	34.00
	do	do	38.00
	Baltimore and Ohio R. R. Co.	do	10.60
	do	do	18.74
	Burlington and Missouri River R. R. Co.	do	10.89
	The Atchison, Topeka and Santa Fe Rwy. Co.	do	7.25
	The Pullman Co.	do	14.00
	do	do	21.00
	do	do	24.50
	Seaboard Air Line Rwy. Co	do	14.85
	Michigan Central R. R. Co	do	11.77
	Chicago, Burlington and Quincy R. R. Co.	do	12.50
	do	do	12.75
	Houston and Texas Central R. R. Co.	do	7.95
	Missouri, Kansas and Texas Rwy. Co.	do	1.80
	New York Central and Hudson River R. R. Co.	do	6.06
	Pennsylvania R. R. Co.	do	19.50
	Southern Rwy. Co.	do	84.96
	do	do	27.50
	do	do	127.95
	Northern Pacific Rwy. Co	do	16.50
	do	do	14.75
31	Chas. M. Daugherty	Traveling expenses	96.37
	E. C. Hutchinson	Salary	75.00
	Homer W. Vail	do	75.00
	E. D. Howe	do	75.00
	J. T. Cox	do	75.00
	Danl. E. Morton	do	75.00
	Edwd. Wiggins	do	75.00
	Geo. E. Adams	do	75.00
	Chas. L. Gold	do	75.00
	Jno. J. Rosa	do	75.00
	Wm. Nelson	do	100.00
	Geo. W. Perry	do	112.50
	D. B. Russell	do	112.50
	A. M. Hawley	do	112.50
	S. J. Seal	do	112.50
	Jas. A. Hayden	do	112.50
	Jno. J. Corley	do	112.50
	Danl. K. Pope	do	112.50
	McKinsey R. Todd	do	125.00
	O. B. Lovette	do	125.00
	E. M. Hemphill	do	137.50
	Jas. H. Lane	do	137.50
	E. E. Kaufman	do	150.00
	E. F. Scherbel	do	150.00
	Chas. H. Morse	do	150.00
	W. J. Northern	do	150.00
	R. H. Thomas	do	150.00
	Mahlon T. Lightner	do	150.00
	S. Arthur Knapp	do	165.00
	Plum A. Rogers	do	175.00
	W. G. Whitmore	do	175.00
	F. E. Dawley	do	175.00
	Thos. J. Anderson	do	200.00
	W. W. Miller	do	200.00
	Jno. Cowine	do	200.00
	W. C. Duncan	do	200.00
	Oswald Wilson	do	200.00
	Jno. J. Darg	do	130.00
	Thos. B. Baldwin	do	189.00
	Geo. K. Holmes et al.	Salaries	3,100.20
	Total second quarter		24,471.09



Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## COLLECTING AGRICULTURAL STATISTICS—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Jan. 2	B. C. White.....	Traveling expenses.....	\$81.00
	do.....	Salary.....	189.00
	Edw. S. Holmes, jr.....	do.....	189.00
5	Edw. C. Parker.....	do.....	40.00
	Jno. S. Charlton.....	do.....	189.00
	Harry G. Krum.....	do.....	40.00
	Kilburn H. Roby.....	do.....	200.00
	R. P. Andrews & Co. (Incorporated)	Pencils.....	2.94
6	Thos. B. Baldwin.....	Traveling expenses.....	154.40
8	C. Ballinger.....	Salary.....	25.00
	Jno. J. Darg.....	Traveling expenses.....	137.76
9	W. O. H. Shepard.....	Salary.....	20.00
	Jno. N. Cantwell.....	do.....	20.00
	Herbert H. Mowry.....	do.....	40.00
	L. M. Erskine.....	do.....	50.00
	H. W. Desgranges.....	do.....	125.00
10	Stephen D. Fessenden.....	Traveling expenses.....	138.35
15	Henry Hawkins.....	Salary.....	20.00
	Jno. S. Charlton.....	Traveling expenses.....	51.80
21	The Maurice Joyce Engraving Co.....	Engraved plate.....	.50
22	R. P. Andrews & Co. (Incorporated)	Manila paper.....	20.00
	Pearre E. Crowl.....	Stamp, rubber.....	70.28
	United States Envelope Co.....	Envelopes.....	10.30
	Wolf Bros.....	do.....	55.00
	Postal Telegraph Cable Co.....	Service.....	7.78
23	Herman Baumgarten.....	Type.....	2.70
24	Washington City post-office.....	Stamps.....	3.00
	D. Frank Parker.....	Ribbons.....	9.00
	Rudolph, West & Co.....	Door checks, etc.....	6.20
26	The Hocking Valley Rwy. Co.....	Passenger transportation.....	3.70
	The Minneapolis and St. Louis Rwy. Co.....	do.....	4.18
	Georgia R. R. Co.....	do.....	7.00
	Cumberland Valley Rwy. Co.....	do.....	7.45
	Pennsylvania Co.....	do.....	17.50
	Mobile and Ohio Rwy. Co.....	do.....	4.33
	The Chesapeake and Ohio Rwy. Co.....	do.....	21.05
	Missouri, Kansas and Texas Rwy. Co.....	do.....	5.65
	do.....	do.....	1.05
	Seaboard Air Line Co.....	do.....	14.70
	Pittsburg, Cincinnati, Chicago and St. Louis Rwy. Co.....	do.....	16.15
	Chicago and Northwestern Rwy. Co.....	do.....	21.42
	Chicago, Indianapolis and Louisville Rwy. Co.....	do.....	8.00
	St. Louis and San Francisco R. R. Co.....	do.....	3.14
	New York Central and Hudson River R. R. Co.....	do.....	6.06
	Central of Georgia Rwy. Co.....	do.....	3.85
	The Yazoo and Mississippi Valley R. R. Co.....	do.....	2.95
	The Missouri Pacific Rwy. Co.....	do.....	27.46
	The Atchison, Topeka and Santa Fe Rwy. Co.....	do.....	12.50
27	Michigan Central R. R. Co.....	do.....	3.80
	Southern Rwy. Co.....	do.....	50.50
	Atlantic Coast Line R. R. Co.....	do.....	4.35
	Baltimore and Ohio R. R. Co.....	do.....	7.75
	The Cleveland, Cincinnati, Chicago and St. Louis R. R. Co.....	do.....	5.80
	do.....	do.....	8.00
28	E. T. Peters.....	Salary.....	168.00
	do.....	do.....	175.00
31	Geo. K. Holmes et al.....	Salaries.....	3,335.92
Feb. 2	Jno. J. Darg.....	Salary.....	182.00
	Edwin S. Holmes, jr.....	do.....	216.00
	Jno. S. Charlton.....	do.....	189.00
	B. C. White.....	do.....	189.00
	Thos. B. Baldwin.....	do.....	189.00
5	B. C. White.....	Traveling expenses.....	102.90
	L. M. Erskine.....	Salary.....	50.00
	W. O. H. Shepard.....	do.....	20.00
	Jno. L. Cantrell.....	do.....	20.00
6	Jno. J. Darg.....	Traveling expenses.....	144.42
7	The Hammond Typewriter Co.....	Repairs.....	7.50
	Jno. S. Charlton.....	Traveling expenses.....	82.93
	Edw. S. Holmes, jr.....	do.....	47.81
	Thos. B. Baldwin.....	do.....	166.05
	Henry Hawkins.....	Salary.....	20.00
	C. Ballinger.....	do.....	25.00
9	Jno. C. Parker.....	Fountain pens, etc.....	49.15
11	R. Carter Ballentyne.....	Paper.....	100.58
	Washington City post-office.....	Stamps.....	25.00

## 76 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## COLLECTING AGRICULTURAL STATISTICS—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Feb. 12	Thos. C. Holloway	Traveling expenses	\$93.10
16	Herbert H. Mowry	Salary	19.35
	Edw. C. Parker	do	19.35
	Richd. H. Lea	do	100.00
	The Barrick Publishing Co.	Book	6.00
25	Frank B. Headley	Salary	20.65
	Harry G. Krum	do	19.35
28	Jno. J. Darg	do	168.00
	Geo. K. Holmes et al.	Salaries	3,099.30
Mar. 2	Frank B. Headley	Salary	40.00
	Thos. B. Baldwin	do	168.00
	Edwin S. Holmes, jr.	do	192.00
	B. C. White	do	168.00
3	The Chesapeake and Potomac Telephone Co.	Service	6.25
4	Wm. A. Peck	Salary	40.00
	Jno. S. Charlton	do	168.00
	E. T. Peters	do	182.00
	C. Ballinger	do	25.00
	E. T. Peters	Traveling expenses	37.15
	do	do	11.81
6	Jno. J. Darg	do	133.82
7	W. O. H. Shepard	Salary	20.00
	Jno. L. Cantwell	do	20.00
	L. M. Erskine	do	50.00
9	B. C. White	Traveling expenses	86.00
	Edw. S. Holmes, jr.	do	81.81
	Henry Hawkins	Salary	20.00
	Thos. B. Baldwin	Traveling expenses	148.56
11	E. Morrison Paper Co.	Paper	30.00
14	Jno. S. Charlton	Traveling expenses	114.77
23	O'Connor & Co.	St. Louis Market Reporter	5.00
25	Washington City post-office	Stamps	25.00
26	The Chesapeake and Potomac Telephone Co.	Service	6.25
27	Eberhard Faber	Bonds	54.00
31	W. C. Duncan	Services	200.00
	Jno. Corvine	do	200.00
	Oswald Wilson	do	200.00
	K. H. Roby	do	200.00
	Thos. J. Anderson	do	200.00
	W. W. Miller	do	200.00
	Jno. J. Darg	do	182.00
	Plum A. Rogers	do	175.00
	W. G. Whitmore	do	175.00
	F. E. Dawley	do	175.00
	E. T. Peters	Salary	171.50
	Arthur S. Knapp	Services	165.00
	R. H. Thomas	do	150.00
	Chas. H. Morse	do	150.00
	Mahlon Lightner	do	150.00
	W. J. Northern	do	150.00
31	E. F. Scherbel	do	150.00
	E. E. Kaufman	do	150.00
	E. M. Hemphill	do	137.50
	J. H. Lane	do	137.50
	H. W. Desgranges	do	125.00
	J. J. Corley	do	125.00
	O. B. Lovette	do	125.00
	McK. R. Todd	do	125.00
	Geo. W. Perry	do	112.50
	A. M. Hawley	do	112.50
	Jas. A. Hayden	do	112.50
	S. J. Seal	do	112.50
	D. B. Russell	do	112.50
	Wm. Nelson	do	100.00
	Geo. E. Adams	do	75.00
	Jno. F. Cox	do	75.00
	Jno. J. Rosa	do	75.00
	Chas. L. Gold	do	75.00
	E. D. Howe	do	75.00
	Edw. Wiggin	do	75.00
	E. C. Hutchinson	do	75.00
	Homer W. Vial	do	75.00
	Geo. K. Holmes et al.	Salaries	3,468.00
	Total third quarter		21,698.83
Apr. 1	Edw. S. Holmes, jr.	Salary	208.00
	Thos. B. Baldwin	do	182.00

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## COLLECTING AGRICULTURAL STATISTICS—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Apr. 1	John S. Charlton	Salary	\$182.00
	B. C. White	do	182.00
2	L. T. Moulton	do	31.11
4	Washington City post-office	Stamps	20.00
	Wm. A. Peck	Salary	58.57
	C. Bollinger	do	25.00
	Jno. L. Cantwell	do	20.00
	Frank B. Headley	do	40.00
8	Jno. W. Schneider	do	100.65
	W. O. H. Shepard	do	20.00
	Henry Hawkins	do	20.00
	Jno. J. Darg	Traveling expenses	168.37
9	B. C. White	do	114.14
14	The Pullman Co	Passenger transportation	21.00
	do	do	21.50
	do	do	8.00
	do	do	17.00
	do	do	22.00
	do	do	23.50
	do	do	25.50
	do	do	28.50
	L. M. Erskine	Salary	50.00
15	Jno. S. Charlton	Traveling expenses	131.00
	Richd. H. Lea	Salary	100.00
	D. R. Pape	do	102.73
	Danl. E. Morton	do	75.00
16	E. T. Peters	Traveling expenses	66.36
	United States Envelope Co	Envelopes	694.00
	Thos. B. Baldwin	Traveling expenses	191.53
18	Union Pacific R. R. Co	Passenger transportation	17.00
	Seaboard Air Line Rwy. Co	do	2.40
	do	do	2.50
	Lake Shore and Michigan Southern Rwy. Co	do	14.75
	Great Northern Rwy. Co	do	18.70
	The Wabash R. R. Co	do	25.52
	do	do	21.85
	Pittsburg, Cincinnati, Chicago and St. Louis Rwy. Co.	do	26.10
	Baltimore and Ohio R. R. Co	do	2.30
	do	do	26.88
	Pennsylvania R. R. Co	do	53.50
	do	do	10.50
	Pere Marquette R. R. Co	do	2.42
	Missouri Pacific Rwy. Co	do	27.75
	The Chesapeake and Ohio R. R. Co	do	24.10
	Georgia R. R. Co	do	3.75
	Louisville and Nashville R. R. Co	do	19.90
	do	do	23.00
	The Oregon Railroad and Navigation Co	do	12.55
	The Colorado and Southern Rwy. Co	do	3.70
	Lehigh Valley R. R. Co	do	8.00
	Chicago, Milwaukee and St. Paul Rwy. Co	do	41.96
	Chicago, Rock Island and Pacific Rwy. Co	do	35.56
	Chicago, Milwaukee and St. Paul Rwy. Co	do	9.70
	Illinois Central R. R. Co	do	11.85
	Chicago, Milwaukee and St. Paul Rwy. Co	do	22.35
	Southern Rwy. Co	do	79.05
	do	do	37.45
	do	do	27.50
	Chicago, St. Paul, Minneapolis and Omaha Rwy. Co.	do	31.20
	Houston, East and West Texas Rwy. Co	do	8.30
	St. Louis Southwestern Rwy. Co., of Texas	do	1.25
	The Hocking Valley Rwy. Co	do	2.65
	Macon and Birmingham Rwy. Co	do	3.78
	Southern Rwy. Co	do	64.29
	Chicago, Burlington and Quincy R. R. Co	do	6.95
	do	do	11.50
	do	do	12.50
	Southern Rwy. Co	do	3.86
	Northern Pacific Rwy. Co	do	16.71
	do	do	9.60
	Atlantic Coast Line R. R. Co	do	11.30
	Michigan Central R. R. Co	do	5.00
	Washington Southern Rwy. Co	do	17.50
30	Geo. K. Holmes et al	Salaries	3,164.14
May 1	Edw. S. Holmes, jr	Salary	208.00
	Thos. B. Baldwin	do	182.00
	B. C. White	do	182.00
	Jno. J. Darg	do	182.00

## 78 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

*Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.*

## COLLECTING AGRICULTURAL STATISTICS—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
May 1	Jno. S. Charlton	Salary	\$182.00
4	C. Bollinger	do	25.00
	Jno. W. Schneider	do	40.00
8	Adams Express Co	Transportation	1.95
9	Frank B. Headley	Salary	40.00
	L. M. Erskine	do	50.00
	Jno. L. Cantwell	do	20.00
	W. O. H. Shepherd	do	20.00
	Henry Hawkins	do	20.00
	B. C. White	Traveling expenses	155.31
11	Washington City post-office	Stamps	10.00
13	Edwin S. Hohnes, jr	Traveling expenses	76.05
15	Jas. N. Rupp	Envelopes	45.00
	Jno. J. Darg	Traveling expenses	136.18
	Thos. B. Baldwin	do	168.10
16	Yawman & Erbe Manufacturing Co	Cards	26.25
18	Library Bureau	Case	25.00
20	D. Frank Parker	Typewriter ribbons	13.25
	Jno. C. Parker	Paste, etc	5.60
23	Jno. S. Charlton	Traveling expenses	133.40
29	The Smith Premier Typewriter Co	Repairs	6.75
	United States Express Co	Transportation	5.70
31	J. H. Blodgett et al	Salaries	3,350.62
June 1	E. T. Peters	Salary	318.50
2	Jno. J. Darg	do	182.00
	Jno. S. Charlton	do	182.00
	Thos. B. Baldwin	do	182.00
	E. S. Holmes, jr	do	216.00
	B. C. White	do	182.00
4	E. T. Peters	Expenses	73.46
6	John C. Parker	Ruling pens	4.50
9	The Chesapeake and Potomac Telephone Co	Service	.10
	do	do	6.25
	Western Union Telegraph Co	do	5.67
	Edw. S. Holmes, jr	Traveling expenses	191.96
	B. C. White	do	149.96
10	Postal Telegraph Cable Co	Service	2.05
	Lamb & Tilden	Stamp rack	6.15
	Wm. Argalus Peck	Salary	80.00
	C. Bollinger	do	25.00
	L. M. Erskine	do	50.00
	E. S. Peters	do	70.00
11	Jno. S. Charlton	Traveling expenses	142.20
	Henry Hawkins	Salary	20.00
	Jno. L. Cantwell	do	20.00
	Thos. Baldwin	Traveling expenses	188.54
12	Woodward & Lothrop	Silkolene	.50
	R. Carter Ballantyne	Envelopes	49.27
	W. O. H. Shepard	Salary	20.00
	Frank B. Headley	do	40.00
	Jno. J. Darg	Traveling expenses	165.90
14	Yawman & Erbe Manufacturing Co	Cards	22.32
19	Jno. W. Schneider	Salary	40.00
	Washington City post-office	Special delivery stamps	30.00
23	Western Union Telegraph Co	Service	99.30
	do	do	8.17
24	E. C. Sammis	Traveling expenses	209.21
	The Texas Pacific Rwy. Co	Passenger transportation	29.90
	do	do	21.10
	do	do	9.60
	do	do	9.60
	The Pullman Co	do	18.50
	do	do	16.00
	Pennsylvania R. R. Co	do	22.75
	Union Pacific R. R. Co	do	19.30
	Northern Pacific Rwy. Co	do	5.60
	Southern Railway	do	2.83
	do	do	27.50
	do	do	11.75
	Pittsburg, Cincinnati, Chicago and St. Louis Rwy. Co.	do	16.50
	do	do	7.90
	do	do	5.80
	Baltimore and Ohio R. R. Co	do	6.44
	do	do	6.53
	The Wabash R. R. Co	do	28.55
	do	do	28.17
	Louisville and Nashville R. R. Co	do	27.50
	do	do	3.81
	Chicago and Alton Rwy. Co	do	7.50

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

COLLECTING AGRICULTURAL STATISTICS—Continued.

Date.	Name.	Nature of payment.	Total.
1903. June 24	Chicago and Alton Rwy. Co. ....	Passenger transportation .....	\$12.50
	The Chesapeake and Ohio Rwy. Co. ....	do .....	22.20
	do .....	do .....	4.20
	The Hocking Valley Rwy. Co. ....	do .....	8.35
	do .....	do .....	3.70
	Illinois Central R. R. Co. ....	do .....	14.23
	do .....	do .....	3.04
	The Cincinnati, Hamilton and Dayton Rwy. Co. ....	do .....	10.60
	Morgan's Louisiana and Texas R. R. and Steamship Co. ....	do .....	18.85
	Pennsylvania Co. ....	do .....	24.50
	Chicago, Rock Island and Pacific Rwy. Co. ....	do .....	23.32
	Cincinnati, New Orleans and Texas Pacific Rwy. Co. ....	do .....	2.10
	St. Louis Southwestern Rwy. Co. ....	do .....	10.63
	Chicago, St. Paul, Minneapolis and Omaha Rwy. Co. ....	do .....	7.05
	Chicago, Milwaukee and St. Paul Rwy. Co. ....	do .....	12.02
	Norfolk and Western Rwy. Co. ....	do .....	3.70
	Union Pacific R. R. Co. ....	do .....	7.05
	St. Louis and San Francisco R. R. Co. ....	do .....	40.15
	The Yazoo and Mississippi Valley R. R. Co. ....	do .....	6.80
	The Chicago, Burlington and Quincy R. R. Co. ....	do .....	12.50
	The Atchison, Topeka and Santa Fe Rwy. Co. ....	do .....	69.35
	Galveston, Harrisburg and San Antonio Rwy. Co. ....	do .....	15.00
	Louisville, Henderson and St. Louis Rwy. Co. ....	do .....	3.75
	Grand Rapids and Indianapolis Rwy. Co. ....	do .....	4.45
	Burlington and Missouri River R. R. Co. ....	do .....	5.80
25	E. T. Peters .....	Expenses .....	19.43
	do .....	Salary .....	178.50
26	American Grocer .....	Subscription .....	3.00
	The Trade Co. ....	do .....	2.00
	Orange Judd Co. ....	do .....	1.00
	The Railroad Age and North Western Railroader. ....	do .....	4.00
	Oil, Paint, and Drug Reporter. ....	do .....	6.00
	Curtis Guild & Co. ....	do .....	4.00
	Ginn & Co. ....	do .....	3.00
	E. E. Billow .....	do .....	5.00
	Geo. H. Ellis Co. ....	do .....	3.00
	The Railroad Gazette. ....	do .....	4.20
	D. O. Haynes & Co. ....	do .....	6.83
	The Tuttle, Morehouse & Taylor Co. ....	do .....	3.00
	National Railway Publishing Co. ....	do .....	8.00
	Willett & Gray .....	do .....	15.00
	Railway World. ....	do .....	4.00
	Louisiana Planter and Sugar Manufactur- ing Co. ....	do .....	3.00
	Lemcke & Buechner .....	do .....	28.80
	The MacMillan Co. ....	do .....	5.00
	do .....	do .....	5.00
	T. B. Viblew .....	do .....	3.00
	The Journal of Commerce and Commer- cial Bulletin. ....	do .....	12.00
30	Geo. W. Perry .....	Salary .....	112.50
	A. M. Hawley .....	do .....	112.50
	Jas. A. Hayden .....	do .....	112.50
	S. J. Seal .....	do .....	112.50
	Thos. J. Anderson .....	do .....	200.00
	Oswald Wilson .....	do .....	200.00
	W. W. Miller .....	do .....	200.00
	Jno. Connie .....	do .....	200.00
	W. C. Duncan .....	do .....	200.00
	Kilbourn H. Roby .....	do .....	200.00
	L. T. Moulton .....	do .....	175.00
	F. E. Dawley .....	do .....	175.00
	Plum A. Rogers .....	do .....	175.00
	N. G. Whitmore .....	do .....	175.00
	Arthur S. Knapp .....	do .....	165.00
	E. E. Kaufman .....	do .....	150.00
	W. J. Northern .....	do .....	150.00
	R. H. Thomas .....	do .....	150.00
	Chas. S. Morse .....	do .....	150.00
	E. T. Scherbel .....	do .....	150.00
	M. T. Lightner .....	do .....	150.00
	Jas. H. Lane .....	do .....	137.50

## 80 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## COLLECTING AGRICULTURAL STATISTICS—Continued.

Date.	Name.	Nature of payment.	Total.
1903. June 30	E. M. Hemphill	Salary	\$137.50
	J. J. Corley	do	125.00
	O. B. Lorette	do	125.00
	McK. R. Todd	do	125.00
	Wm. Nelson	do	100.00
	Homer W. Vail	do	75.00
	Edw. Wiggins	do	75.00
	J. T. Cox	do	75.00
	E. C. Hutchinson	do	75.00
	Jno. J. Rosa	do	75.00
	Dani. E. Morton	do	75.00
	Geo. E. Adams	do	75.00
	E. D. Howe	do	75.00
	Chas. L. Gold	do	75.00
	C. E. Edgerton et al	Salaries	3,471.02
	Total fourth quarter		24,534.45
	<i>Supplemental.</i>		
July 1	J. J. Darg	Salary	182.00
	E. S. Holmes, jr	do	208.00
	Wyckoff, Seamans & Benedict	Copy holders	4.00
2	E. G. Nye	Salary	9.15
	E. S. Peters	Traveling expenses	41.15
	S. D. Fessenden	do	76.23
7	L. M. Erskine	Salary	50.00
	J. L. Cantwell	do	20.00
	C. Bollinger	do	25.00
9	H. W. Desgranges	do	125.00
	A. L. Russell	do	72.95
	Henry Hawkins	do	20.00
	F. B. Headley	do	40.00
10	E. S. Peters	do	175.00
	do	Traveling expenses	123.55
	T. B. Baldwin	do	180.56
	B. C. White	do	120.54
11	F. C. Holloway	do	111.52
	L. F. Sloan	Salary	300.00
	D. F. Parker	Chemicals	1.00
	J. C. Parker	Penholder, etc	23.54
13	E. Morrison Paper Co	Letter scales	10.80
	Brainard N. Rowley	Subscription	2.00
	The R. R. Equipment and Publishing Co.	do	5.00
14	J. S. Charlton	Traveling expenses	136.95
	J. J. Darg	do	144.87
15	Wool and Cotton Reporter	Subscription	3.00
	W. A. May	do	4.26
	Shepherds' Bulletin	do	1.00
	Comtelburo (Limited)	do	8.52
	The University of Chicago Press	do	2.00
	J. E. Beerbohm	do	29.20
16	The Chicago, Burlington and Quincy R. R. Co.	Passenger transportation	9.50
	do	do	8.35
	Cleveland, Cincinnati, Chicago and St. Louis Rwy. Co.	do	17.40
	do	do	23.65
	Southern Rwy. Co.	do	21.95
	do	do	50.50
	Chesapeake and Ohio Rwy. Co.	do	4.20
	do	do	4.20
	The Lake Shore and Michigan Southern Rwy. Co.	do	6.50
	Missouri Pacific Rwy. Co.	do	16.00
	The Texas and Pacific Rwy. Co.	do	9.60
	Atlantic Coast Line R. R. Co.	do	10.50
	Cincinnati, Hamilton and Dayton R. R. Co.	do	4.60
	Baltimore and Ohio R. R. Co.	do	6.44
	Pittsburgh, Cincinnati, Chicago and St. Louis Rwy. Co.	do	16.30
	Gulf, Colorado and Santa Fe Rwy. Co.	do	4.25
	Michigan Central R. R. Co.	do	6.75
	Louisville and Nashville R. R. Co.	do	3.50
	The Hocking Valley Rwy. Co.	do	7.40
	Pere Marquette R. R. Co.	do	3.20
	Chicago, Rock Island and Pacific Rwy. Co.	do	26.19
	Galveston, Harrisburg and San Antonio Rwy. Co.	do	3.80
	Great Northern Rwy. Co.	do	32.35

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## COLLECTING AGRICULTURAL STATISTICS—Continued.

Date.	Name.	Nature of payment.	Total.
<i>Supplemental—Continued.</i>			
1903.			
July 16	Erie R. R. Co.	Passenger transportation	88.35
	Washington Southern Rwy. Co	do	8.30
	Louisville, Henderson and St. Louis Rwy. Co.	do	3.75
	Southern Printers' Supply Co	Electro signatures	3.00
	Wyckoff, Seamans & Benedict	Paper	18.70
18	Wolf Bros.	Envelopes	920.50
20	J. N. Rupp	Mucilage	1.30
21	Rudolph, West & Co	Shears	3.18
	R. P. Andrews & Co. (Incorporated)	Pencils	2.21
23	W. O. H. Shepard	Salary	20.00
29	The Chesapeake and Potomac Telephone Co	Telephone service	6.25
30	E. T. Peters	Salary	133.00
	do	Expenses	53.39
Aug. 15	Lamb & Tilden	Ink	1.35
	James B. Lambie	Scissors	2.25
18	R. Carter Ballantyne	Mucilage stands	1.50
Sept. 9	W. A. Peck	Salary	40.00
10	J. P. Nawrath	Tape	1.50
16	J. W. Schneider	Salary	40.00
18	Postal Telegraph Cable Co	Telegraph service	2.44
	Western Union Telegraph Co	do	189.05
	do	do	14.00
	St. Louis and San Francisco R. R. Co	Passenger transportation	13.58
	The Texas and Pacific Rwy. Co	do	4.90
	The Minneapolis and St. Louis R. R. Co	do	4.18
	The Hocking Valley Rwy. Co.	do	3.70
	Louisville and Nashville R. R. Co.	do	9.59
	do	do	29.82
	Missouri, Kansas and Texas Rwy. Co.	do	3.80
	do	do	11.10
	The Chicago, Burlington and Quincy R. R. Co.	do	9.60
	do	do	11.01
	Maine Central R. R. Co	do	3.95
	Boston and Maine R. R.	do	5.55
19	The Atchison, Topeka and Santa Fe Rwy. Co.	do	72.55
	Northern Pacific Rwy. Co	do	51.81
	Chicago and Northwestern Rwy. Co	do	24.44
	Atlantic and West Point R. R.	do	12.65
	Baltimore and Ohio R. R. Co.	do	10.80
	St. Louis Southwestern Rwy. Co. of Texas	do	5.55
	The Wabash R. R. Co.	do	16.02
	Illinois Central R. R. Co.	do	20.85
	do	do	9.47
	Burlington and Missouri River R. R. in Nebraska.	do	22.05
	Pittsburg, Cincinnati, Chicago and St. Louis Rwy. Co.	do	16.50
	Pittsburg, Cincinnati, Chicago and St. Louis Rwy. Co.	do	16.30
	do	do	16.00
	The Yazoo and Mississippi Valley R. R. Co.	do	13.40
	do	do	6.80
	The Pullman Co.	do	21.00
	do	do	17.00
	The Chesapeake and Ohio Rwy. Co	do	65.15
	The Lake Shore and Michigan Southern Rwy. Co.	do	18.23
	Southern Rwy. Co.	do	17.50
	New York Central and Hudson River R. R. Co.	do	12.65
	New York, New Haven and Hartford R. R. Co.	do	10.20
	Erie R. R. Co	do	8.35
	The Missouri Pacific Rwy. Co.	do	7.50
	Michigan Central R. R. Co	do	6.77
	Chicago and Alton Rwy. Co.	do	4.75
Oct. 10	Geo. F. Muth & Co	Oil	4.00
	Postal Telegraph Cable Co	Telegraph service	.96
	U. S. Express Co	Transportation	1.25
22	The Hawaiian Gazette Co	Subscription	3.00
31	Choctaw, Oklahoma and Gulf R. R. Co.	Passenger transportation	4.40
	Chicago, and Northwestern Rwy. Co	do	16.15
	Chicago, Milwaukee and St. Paul Rwy. Co.	do	11.50
	The Pullman Co.	do	3.00

## 82 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## COLLECTING AGRICULTURAL STATISTICS—Continued.

Date.	Name.	Nature of payment.	Total.
<i>Supplemental—Continued.</i>			
1903. Oct. 31	Chicago, St. Paul, Memphis and Omaha Rwy. Co.	Passenger transportation.....	\$16.05
	Pennsylvania R. R. Co.....	do .....	18.75
	The Hocking Valley Rwy. Co.....	do .....	6.90
	The Texas and Pacific Rwy. Co.....	do .....	9.60
	Boston and Maine R. R.....	do .....	3.70
	Chicago, Milwaukee and St. Paul Rwy. Co.....	do .....	13.95
	Cleveland, Cincinnati, Chicago and St. Louis Rwy. Co.....	do .....	3.55
	Total.....		4,737.34

## RECAPITULATION.

First quarter.....	\$17,688.96
Second quarter.....	24,471.09
Third quarter.....	21,698.83
Fourth quarter.....	24,534.45
Supplemental.....	4,737.34
Total.....	93,130.67

## COLLECTING AGRICULTURAL STATISTICS—SETTLED BY TREASURY.

Date.	Name.	Nature of payment.	Total.
1902. Dec. 9	Pennsylvania R. R. Co.....	Passenger transportation.....	\$78.50
	Southern Pacific Co.....	do .....	48.00
	do .....	do .....	35.00
1903. Mar. 4	Pennsylvania R. R. Co.....	do .....	177.93
	Southern Pacific Co.....	do .....	17.50
	do .....	do .....	35.00
June 23	do .....	do .....	47.50
Sept. 21	do .....	do .....	62.10
	Total.....		501.53

## AGRICULTURAL EXPERIMENT STATIONS.

1902. July 19	Fred. A. Schmidt.....	Pencils, etc.....	\$3.33
	Peter Fireman.....	Manuscript.....	58.75
	A. C. True et al.....	Salaries.....	2,602.63
Aug. 8	Mackall Bros.....	Alcohol.....	2.75
	D. J. Crosby.....	Traveling expenses.....	111.05
	Peter Fireman.....	Translating.....	41.25
	American Cycle Manufacturing Co.....	Lubricant, etc.....	.45
	Jno. C. Parker.....	Wax seal.....	4.00
	Capital Traction Co.....	Tickets.....	3.00
	W. H. Beal.....	Traveling expenses.....	112.70
	A. C. True et al.....	Salaries.....	2,612.80
Sept. 8	C. B. Smith.....	Traveling expenses.....	21.15
	Houghton & Delano.....	Photo work.....	3.42
	Southern Printers' Supply Co.....	Electro.....	2.08
	E. V. Wilcox.....	Traveling expenses.....	35.30
	A. C. True.....	do .....	42.50
	Pennsylvania R. R. Co.....	Passenger transportation.....	19.80
	W. B. Moses & Sons.....	Shades.....	7.34
	D. Frank Parker.....	Stencil paper.....	2.00
	J. T. Thornson.....	Letter paper stamping.....	1.80
	Jno. C. Parker.....	Knives.....	.65
	do .....	Sponge cups.....	1.00
	American Cycle Manufacturing Co.....	Padlock.....	.25
	Pennsylvania R. R. Co.....	Passenger transportation.....	4.00
	Union Pacific R. R. Co.....	do .....	42.95
	Pittsburg, Cincinnati, Chicago and St. Louis Rwy. Co.....	do .....	5.75
	Chicago, Milwaukee and St. Paul Rwy. Co.....	do .....	3.92
	Pennsylvania Co.....	do .....	20.70



Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## AGRICULTURAL EXPERIMENT STATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Sept. 26	New York Central and Hudson River R. R. Co.	Passenger transportation.....	\$9.08
	The Lake Shore and Michigan Southern Rwy. Co.	.....do.....	1.80
	Illinois Central R. R. Co.	.....do.....	3.83
	Jamestown, Chautauqua and Lake Erie Rwy. Co.	.....do.....	24.60
	Southern Rwy. Co.	.....do.....	23.40
27	E. W. Allen	Traveling expenses	135.71
30	A. C. True et al	Salaries	2,447.85
	Total first quarter.....		8,413.19
Oct. 1	Peter Fireman	Translating	42.25
2	Jno. C. Parker	Numbering machine	9.00
7	A. C. True	Traveling expenses	39.45
15	Walter H. Evans	.....do.....	37.15
	C. B. Smith	.....do.....	14.50
16	A. C. True	.....do.....	29.30
24	D. J. Crosby	.....do.....	42.83
31	A. C. True et al	Salaries	2,582.40
Nov. 6	American Writing Machine Co	Typewriter paper	9.00
	D. J. Crosby	Traveling expenses	3.70
	A. C. True	.....do.....	26.35
17	.....do.....	.....do.....	7.69
18	Chicago Northwestern Rwy. Co.	Passenger transportation.....	30.68
	The Pennsylvania R. R. Co.	.....do.....	16.50
	Northern Pacific Rwy. Co.	.....do.....	62.48
	New York, New Haven and Hartford R. R. Co.	.....do.....	8.25
	Southern Rwy. Co.	.....do.....	23.00
	Atlanta and West Point R. R. Co.	.....do.....	3.48
	Chicago, St. Paul, Minneapolis and Omaha Rwy. Co.	.....do.....	6.40
	Lehigh Valley R. R. Co.	.....do.....	6.10
19	Chicago, Burlington and Quincy R. R. Co.	.....do.....	29.00
	E. W. Allen	Traveling expenses	21.22
20	W. B. Moses & Sons	Rugs	13.50
29	A. C. True et al	Salaries	2,461.00
Dec. 6	.....do.....	Traveling expenses	3.10
	Jno. C. Parker	Indexes	12.20
	Hugh Reilly	Gasoline	.80
	The Hammond Typewriter Co	Strips	.25
	Wyckoff, Seamans & Benedict	Repairs to typewriter	1.70
	E. W. Haines	Photo prints	2.56
13	Wm. C. Ma-sey	Reports	100.00
	Capital Traction Co.	Tickets	3.00
17	J. L. Stone	Manuscript	40.00
18	Oceanic Steamship Co	Passenger transportation.....	2.50
	New York, New Haven and Hartford R. R. Co.	.....do.....	3.92
19	Southern Pacific Co.	.....do.....	2.60
	The Chesapeake and Ohio Rwy. Co.	.....do.....	16.00
	Baltimore and Ohio R. R. Co.	.....do.....	8.45
	Central of Georgia Rwy. Co.	.....do.....	2.15
	The Hocking Valley Rwy. Co.	.....do.....	3.70
	Southern Rwy. Co.	.....do.....	52.50
	The Cleveland, Cincinnati, Chicago and St. Louis Rwy. Co.	.....do.....	25.25
	.....do.....	.....do.....	8.73
20	Church & Stephenson	Lumber	22.47
31	A. C. True et al	Salaries	2,572.93
	Total second quarter.....		8,410.04
1903.			
Jan. 5	F. H. Hall	Manuscript	35.00
	E. Davenport	.....do.....	40.00
	J. F. Duggan	.....do.....	40.00
12	D. Frank Parker	Ink, etc	3.80
	Jno. C. Parker	Knives	.65
	W. Silas Sheets	Repairs to camera	2.87
	Rudolph, West & Co	Locks	1.30
15	Library Bureau	Card trays	2.00
	United States Engraving Co	Envelopes	14.75
	Library Bureau	Cards	1.75
21	Hugh Reilly	Glass	1.60
	Lamb & Tilden	Figures	3.00
	Norfolk and Washington Steamboat Co.	Passenger transportation.....	5.00
22	C. A. Zavitz	Manuscript	60.00
24	Peter Fireman	Translating	33.75

## 84 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

*Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.*

## AGRICULTURAL EXPERIMENT STATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Jan. 24	National Electric Supply Co.	Holder and cards	81.76
	Chicago and Great Western Rwy. Co.	Passenger transportation	7.20
	Alabama Great Southern R. R. Co.	do	21.05
25	Norfolk and Western Rwy. Co.	do	7.80
27	Pere Marquette R. R. Co.	do	2.42
	Southern Rwy. Co.	do	7.80
	Baltimore and Ohio R. R. Co.	do	8.72
	Pennsylvania R. R. Co.	do	17.98
	The Cleveland, Cincinnati, Chicago and St. Louis Rwy. Co.	do	8.75
	Louisville and Nashville R. R. Co.	do	2.83
28	United States Envelope Co.	Envelopes	15.60
31	A. C. True et al	Salaries	2,592.65
Feb. 3	Jno. C. Parker	Calendar pads, etc	3.45
7	Woodward & Lothrop	Chair	1.35
9	United States Express Co.	Transportation	3.15
	W. B. Moses & Sons	Carpet sweepers	6.25
11	R. Carter Ballantyne	Envelopes	2.73
17	Lamb & Tilden	Stamp rack	.65
21	American Writing Machine Co.	Paper	18.00
24	Wyckoff, Seamans & Benedict	Adjusting typewriter	15.50
25	James B. Lambie	Zinc	1.40
	Capital Traction Co.	Fare tickets	3.00
28	A. C. True et al	Salaries	2,549.70
Mar. 3	The Chesapeake and Potomac Telephone Co.	Service	6.25
	do	do	6.25
4	W. H. Beal	Traveling expenses	22.75
16	A. C. True	do	2.29
18	Library Bureau	Cards	3.00
23	A. C. True	Traveling expenses	8.21
31	A. C. True et al	Salaries	2,592.65
	Total third quarter		7,986.56
Apr. 2	Yawman & Erbe Manufacturing Co.	Perforator	1.50
	R. B. Williams	Lantern slides	27.00
7	Houghton & Delano	Slide boxes	2.00
	Rudolph, West & Co.	Keys	.50
9	W. B. Moses & Sons	Desk	23.40
11	Jno. C. Parker	Binding cases	5.00
17	Yawman & Erbe Manufacturing Co.	Indexes	1.00
	Lamb & Tilden	Stamp racks	.90
18	The Hammond Typewriter Co.	Shuttles	2.50
	A. C. True	Traveling expenses	28.15
	The Wabash R. R. Co.	Passenger transportation	2.39
	Baltimore and Ohio R. R. Co.	do	19.50
	Chesapeake and Ohio Rwy. Co.	do	14.00
30	A. C. True et al	Salaries	2,883.90
May 2	W. B. Moses & Sons	Chair and rack	7.20
	Jno. Hamilton	Traveling expenses	12.47
4	A. C. True	do	12.27
8	Adams Express Co.	Transportation	1.10
	Wyckoff, Seamans & Benedict	Roller	2.00
	E. Morrison Paper Co.	Linen paper	2.50
	Woodward & Lothrop	Desk	27.50
9	Peter Fireman	Translating	24.00
15	The Hammond Typewriter Co.	Typewriter	85.00
	W. H. Beal	Traveling expenses	92.84
	Library Bureau	Cards	4.70
16	Houghton & Delano	Seed plates	2.88
19	American Writing Machine Co.	Paper	18.00
20	D. Frank Parker	Stencil	2.00
25	Wyckoff, Seamans & Benedict	Typewriter	90.00
	do	do	90.00
31	A. C. True et al	Salaries	2,977.20
June 2	D. J. Crosby	Traveling expenses	4.40
6	Jno. C. Parker	Stamp rack, etc	6.50
	Jno. Hamilton	Traveling expenses	32.74
9	Peter Fireman	Reports	30.00
	The Chesapeake and Potomac Telephone Co	Services	6.25
	Jas. N. Rupp	Ink	2.50
10	S. N. Meyer	Ribbons, labels	13.50
	Southern Printers' Supply Co.	Electros	9.45
	E. Morrison Paper Co.	Cards	2.75
12	R. Carter Ballantyne	Pens	.82
	W. B. Moses & Sons	Bookcases, etc	20.75
	Rudolph, West & Co.	Locks, etc	1.48
	Woodward & Lothrop	Screen	8.00
13	Jno. Hamilton	Traveling expenses	8.86

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## AGRICULTURAL EXPERIMENT STATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
June 17	Yawman & Erbe Manufacturing Co.	Card cabinet.	\$21.65
20	E. W. Allen	Traveling expenses	299.70
23	Library Bureau	Boxes and cards	19.75
	W. Silas Sheetz	Photo supplies	23.00
	The B. F. Cummings Co.	Perforating machine	27.50
	United States Envelope Co.	Envelopes	4.11
	F. W. Woll	Abstract of report	160.00
	Western Union Telegraph Co.	Service	2.95
24	Cleveland, Cincinnati, Chicago, and St. Louis Rwy. Co.	Passenger transportation	8.30
	Allantic and West Point R. R. Co.	do	3.48
	The Atchison, Topeka and Santa Fe Rwy. Co.	do	28.90
	Southern Rwy. Co.	do	12.72
	Washington Southern Rwy. Co.	do	6.00
	St. Louis and San Francisco R. R. Co.	do	22.93
	The Wabash R. R. Co.	do	9.50
	Union Pacific R. R. Co.	do	3.55
	Georgia Southern and Florida Rwy. Co.	do	9.00
	Mobile and Ohio Rwy. Co.	do	14.61
	Morgan's Louisiana and Texas R. R. and S. S. Co.	do	13.65
	Terre Haute and Indianapolis R. R. Co.	do	19.25
	Central of Georgia Rwy. Co.	do	8.15
	The Chesapeake and Ohio R. R. Co.	do	19.50
	The Yazoo and Mississippi Valley R. R. Co.	do	11.00
25	Texas and New Orleans R. R. Co.	do	10.85
	Baltimore and Ohio R. R. Co.	do	21.00
	Southern Rwy. Co.	do	35.80
	Seaboard Air Line Rwy. Co.	do	17.50
	D. N. Walford	Camera	32.45
30	A. C. True et al.	Salaries	2,883.90
	Total fourth quarter		10,362.10
	<i>Supplemental.</i>		
July 1	B. P. Murray	Stereopticon	121.50
2	Wagner Typewriter Co.	Typewriter	85.00
4	C. F. Langworthy	Traveling expenses	13.00
7	A. C. True	do	53.60
	Geo. F. Muth & Co.	Pencil pointers	13.00
	Yawman & Erbe Manufacturing Co.	Indexes, etc.	14.30
	do	Flange roller	1.50
11	Fred Marther	Cleaning oesks	75.00
13	W. S. Sheetz	Photo supplies	11.70
	K. Nicolaides	Umbrella jar	6.00
	S. J. Venable	Frames and glasses	6.00
15	United States Envelope Co.	Envelopes	42.30
	do	do	42.75
	Peter Fireman	Abstract of report	33.75
	B. P. Murray	Coloring lantern slides	11.95
	K. B. Williams	Making lantern slides	3.00
16	Chicago, Rock Island and Pacific Rwy. Co.	Passenger transportation	4.21
	Oregon Short Line R. R. Co.	do	3.45
	The Chesapeake and Ohio Rwy. Co.	do	15.00
	W. B. Moses & Sons	Matting, etc.	145.16
18	J. B. Thomson	Stamping	10.80
20	D. J. Crosby	Traveling expenses	11.90
	Jno. Hamilton	do	42.95
	Houghton & Delano	Solio paper	3.05
	Woodward & Lothrop	Water-coolers	7.24
24	D. W. Brown	Services as reporter	200.00
	D. F. Parker	Stencil paper	2.00
	J. C. Parker	Mailing tubes	4.00
25	C. B. Smith	Traveling expenses	91.54
	W. H. Evans	do	33.66
	H. W. Lawson	do	10.00
	W. H. Beal	do	52.35
	The Chesapeake and Potomac Telephone Co.	Services	6.25
Aug. 14	H. M. Pieters	Abstracts of report	30.00
17	United States Envelope Co.	Envelopes	4.72
Sept. 9	Yawman & Erbe Manufacturing Co.	File case	25.00
	do	do	16.00
18	Western Union Telegraph Co.	Telegraph service	3.11
	Postal Telegraph-Cable Co.	do	3.04
	Southern Pacific Co.	Passenger transportation	2.60
	do	do	21.80
	Pennsylvania R. R. Co.	do	46.79
19	Union Pacific R. R. Co.	do	54.86

## Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## AGRICULTURAL EXPERIMENT STATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
<i>Supplemental—Continued.</i>			
1903.			
Sept. 19	Santa Fe, Prescott and Phoenix Rwy .....	Passenger transportation .....	\$12.70
	Washington Southern Rwy. Co .....	do .....	13.80
	Pittsburg, Cincinnati, Chicago and St. Louis Rwy. Co .....	do .....	13.65
	Pennsylvania Co .....	do .....	11.70
	Baltimore and Ohio R. R. Co .....	do .....	9.70
	Southern Rwy. Co .....	do .....	8.90
	Rutland R. R. Co .....	do .....	5.82
	do .....	do .....	4.58
	The Lake Shore and Michigan Southern Rwy. Co .....	do .....	5.00
	New York, Philadelphia and Norfolk R. R. Co .....	do .....	4.04
	New York Central and Hudson River R. R. Co .....	do .....	10.34
	Illinois Central R. R. Co .....	do .....	3.83
	Colorado and Southern Rwy. Co .....	do .....	3.70
	The Wabash R. R. Co .....	do .....	2.37
21	W. S. Sheetz .....	Film .....	1.80
Oct. 10	Postal Telegraph Cable Co .....	Telegraph service .....	8.59
	United States Express Co .....	Transportation .....	.25
	do .....	do .....	.30
31	Chicago and Northwestern Rwy. Co .....	Passenger transportation .....	39.51
	Total .....		1,546.41

## RECAPITULATION.

First quarter .....	\$8,413.19
Second quarter .....	8,410.04
Third quarter .....	7,986.56
Fourth quarter .....	10,362.10
Supplemental .....	1,546.41
Total .....	36,718.30

## STATIONS OF ALASKA.

Date.	Name.	Nature of payment.	Total.
1902.			
July 31	C. C. Georgeson .....	Salary .....	\$250.70
	J. W. Neal .....	do .....	126.40
	Fred E. Rader .....	do .....	126.40
	H. P. Nielsen .....	do .....	126.40
Aug. 23	James Fish & Co .....	Supplies .....	56.99
30	Fred E. Rader .....	Salary .....	126.40
	H. P. Nielsen .....	do .....	126.40
	C. C. Georgeson .....	do .....	252.70
	J. W. Neal .....	do .....	126.40
	C. C. Georgeson .....	Traveling expenses .....	17.25
	Total first quarter .....		1,338.04
Oct. 1	H. P. Nielson .....	Expenses .....	142.72
	Fred E. Rader .....	Salary .....	122.20
	H. P. Nielson .....	do .....	122.20
	J. W. Neal .....	do .....	122.20
	C. C. Georgeson .....	do .....	244.60
6	Juneau Iron Works .....	Repairs to boiler .....	115.95
16	Jas. Fish .....	Horse hire, etc .....	182.00
	Geo. E. James .....	Building .....	700.00
21	Fred E. Rader .....	Traveling expenses .....	73.25
	Portland Implement Co .....	Plows, etc .....	25.05
28	Pacific Coast Steamship Co .....	Transportation .....	24.73
Nov. 1	J. W. Neal .....	Salary .....	126.40
	H. P. Nielson .....	do .....	126.40
	Fred E. Rader .....	do .....	126.40
	C. C. Georgeson .....	do .....	252.70
	H. P. Nielson .....	Expenses .....	64.85
17	J. W. Neal .....	do .....	9.00
	John G. Brady .....	Lumber .....	51.56
	W. P. Mills .....	Hardware .....	102.02
	do .....	Lumber, etc .....	79.90
	do .....	Coal, etc .....	72.33
18	Juneau Ferry and Navigation Co .....	Passenger transportation .....	10.00
	Pacific Packing and Navigation Co .....	do .....	70.00
19	J. W. Neal .....	Traveling expenses .....	11.25

## Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## STATIONS OF ALASKA—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Nov. 21	American Writing Machine Co	Paper	\$4.50
22	Carl Spuhn	Guano	82.67
	Thos. Tilson	Wood	17.50
	E. J. Bowen	Fanning mill	22.50
Dec. 1	Fred E. Rader	Salary	122.20
	H. P. Nielsen	do	122.20
	C. C. Georgeson	do	244.60
	Fred E. Rader	Expenses	22.55
	J. W. Neal	Salary	122.20
8	Seattle Hardware Co	Hangers, etc., for door	4.76
12	Portland Implement Co.	Wagon, etc	133.60
17	W. P. Mills	Lumber, etc	105.58
	do	Supplies	24.87
	Standard Oil Co	Oil	3.25
19	Alaska Steamship Co	Transportation	25.00
	Total second quarter		4,068.69
1903.			
Jan. 2	H. P. Nielsen	Salary	126.40
	Fred E. Rader	do	126.40
	J. W. Neal	do	126.40
5	W. P. Mills	Tools	34.45
	Geo. Kostramtinoff	Rent, land	15.00
	W. P. Mills	Coal, cement, etc	35.30
13	C. C. Georgeson	Salary	252.70
15	United States Envelope Co	Envelopes	5.97
	C. D. Brunn	Tar felt	10.98
	G. W. Stetson	Cedar	51.50
	Studebaker & Bros. Co	Bob sleds	60.00
	J. W. Neal	Expenses	21.60
	H. P. Nielson	do	48.00
16	A. Neppach	Windows	33.90
	Edw. De Groff	Wharfage, etc	11.05
22	C. C. Georgeson	Traveling expenses	56.15
	H. P. Nielsen	Expenses	29.50
	Silas Wilson	Fruit trees	22.35
24	Pacific Coast Steamship Co	Passenger transportation	10.00
Feb. 2	C. C. Georgeson	Expenses	12.86
	do	Traveling expenses	33.05
	H. P. Nielsen	Salary	129.20
	J. W. Neal	do	129.20
	Fred E. Rader	do	129.20
	C. C. Georgeson	do	258.30
5	W. P. Mills	Lumber, etc	198.16
9	E. Morrison Paper Co	Mounting paper	4.50
12	C. C. Georgeson	Traveling expenses	42.93
16	Lilly, Bogardus & Co	Climax chop	23.00
17	Pacific Packing and Navigation Co	Passenger transportation	40.00
	H. P. Nielsen	Expenses	71.60
18	The Oregon R. R. and Navigation Co	Passenger transportation	77.50
	Northern Pacific Rwy. Co	Transportation	1.28
28	Fred E. Rader	Salary	116.60
	J. W. Neal	do	116.60
	H. P. Nielsen	do	116.60
	Walter L. Neal	do	70.00
Mar. 2	C. C. Georgeson	do	233.40
17	Chas. Scribner's Sons	Books	9.24
18	United States Envelope Co	Envelopes	14.25
25	Jas. Irish	Shovel, canvas, etc	19.45
	Fisher Thorsen Co	Chemicals	14.15
	Hemple & Dougherty	Sleds, etc	125.51
	Total third quarter		3,064.23
Apr. 1	Walter L. Neal	Salary	70.00
	Fred E. Rader	do	129.20
	J. W. Neal	do	129.20
	C. C. Georgeson	do	40.41
	H. P. Nielsen	do	129.20
	C. C. Georgeson	do	258.30
2	Portland Union Stock Yards	Oxen	189.90
11	J. C. Parker	Binding cases	1.25
14	Pacific Coast Steamship Co	Transportation	10.30
	S. Willie Steamship and Navigation Co	do	.60
13	Northern Pacific Rwy. Co	Passenger transportation	5.20
	Pennsylvania R. R. Co	do	78.25
21	Tom Tilson	Lumber	37.00
27	Lilly, Bogardus & Co	Alfalfa, etc	51.07
May 2	C. C. Georgeson	Salary	247.25
	H. P. Nielsen	do	123.60

88 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

STATIONS OF ALASKA—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
May 2	R. W. De Armond	Salary	\$75.00
	J. W. Neal	do	123.60
	Walter L. Neal	do	70.00
	Fred E. Rader	do	123.60
	J. W. Duncan	Service	70.00
	C. C. Georgeson	Traveling expenses	57.25
16	Yawman & Erbe Manufacturing Co.	Indexes	.60
21	W. P. Mills Co. (Incorporated)	Lumber	25.61
	do	do	41.15
	do	do	42.67
June 1	C. C. Georgeson	Salary	255.50
	Walter L. Neal	do	70.00
	C. C. Georgeson	Expenses	8.25
	Fred E. Rader	Salary	127.80
	H. P. Nielsen	do	127.80
	J. W. Neal	do	127.80
	R. W. De Armond	do	75.00
3	The Pullman Co.	Passenger transportation	11.50
5	W. P. Mills Co. (Incorporated)	Copper wire	52.94
12	J. W. Neal	Expenses	58.88
20	Edw. De Groff	Freight and wharfage	1.65
	H. P. Nielsen	Expenses	43.77
	do	do	4.75
23	Stark Bros. Nursery and Orchard Co.	Apple seedlings	3.60
24	Northern Pacific Rwy. Co.	Passenger transportation	5.60
	Pacific Coast Steamship Co.	do	60.00
	Union Pacific Rwy. Co.	do	25.00
	W. P. Mills Co. (Incorporated)	Rope	19.73
	Total fourth quarter		3,209.78
	<i>Supplemental.</i>		
July 1	P. H. Ross	Salary	180.00
	W. L. Neal	do	70.00
	J. W. Neal	do	123.60
	R. W. De Armond	do	75.00
	F. E. Rader	do	123.60
	H. P. Nielsen	do	123.60
	C. C. Georgeson	do	247.25
13	Lilly, Bogardus & Co.	Alfalfa	17.85
20	W. P. Mills Co. (Incorporated)	Paint, etc	13.70
Aug. 1	C. C. Georgeson	Expenses	10.54
Sept. 3	H. P. Nielsen	do	8.30
22	Pacific Clipper Line	Transportation	7.69
	Alaska Commercial Co.		91.16
	Total		1,092.29

RECAPITULATION.

First quarter	\$1,338.04
Second quarter	4,038.69
Third quarter	3,064.23
Fourth quarter	3,209.78
Supplemental	1,092.29
Total	12,743.03

SETTLED BY TREASURY.

Date.	Name.	Nature of payment.	Amount.
1903.			
Jan. 29	Quartermaster's department	Hay and oats	\$59.90
Mar. 11	do	do	144.20
	The Public Printer	Printing report	6.70
Apr. 17	Southern Pacific Co.	Passenger transportation	31.60
	Total		242.40
	<i>Special agents.</i>		
1902.			
July 1	C. C. Georgeson		1,000.00
	do		1,000.00
	Total		2,000.00

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## STATIONS OF HAWAII.

Date.	Name.	Nature of payment.	Total.
1902.			
Aug. 26	Jno. C. Parker .....	Tags .....	\$4.90
	Total first quarter .....		4.90
Oct. 29	Mackall Bros .....	Chemicals .....	23.25
	Total second quarter .....		23.25
1903.			
Jan. 13	E. Morrison Paper Co .....	Herbarium paper .....	5.50
15	G. E. Stechert .....	Books .....	13.80
22	Wolf Bros .....	Envelopes .....	5.50
28	G. R. Collins .....	Seed bags .....	2.51
Feb. 16	G. E. Stechert .....	Books .....	7.55
18	American-Hawaiian S. S. Co .....	Transportation .....	4.30
	do .....	do .....	2.06
	Union Pacific R. R. Co .....	do .....	1.27
	P. J. Beckmans Co .....	Strawberry plants .....	3.15
Mar. 14	United States Envelope Co .....	Envelopes .....	28.50
18	G. E. Stechert .....	Books .....	1.72
20	do .....	Cable code .....	2.50
	Total third quarter .....		78.36
Apr. 14	The Atchison, Topeka and Santa Fe Rwy. Co .....	Transportation .....	4.56
	Union Pacific R. R. Co .....	do .....	2.65
May 8	E. Morrison Paper Co .....	Copy books .....	5.00
June 17	G. E. Stechert .....	Books .....	12.40
23	Western Union Telegraph Co .....	Service .....	1.82
	Total fourth quarter .....		26.43

## RECAPITULATION.

First quarter .....	\$4.90
Second quarter .....	23.25
Third quarter .....	78.36
Fourth quarter .....	26.43
Total .....	132.94

## STATIONS OF HAWAII—SPECIAL AGENT.

Date.	Name.	Nature of payment.	Total.
	<i>Supplemental.</i>		
1902.			
July 1	J. G. Smith .....	Salary .....	\$3,000.00
Aug. 25	do .....	do .....	2,000.00
Oct. 28	do .....	do .....	2,000.00
Dec. 4	do .....	do .....	2,000.00
19	do .....	do .....	500.00
1903.			
Mar. 17	do .....	do .....	2,350.00
Apr. 20	do .....	do .....	260.00
May 28	do .....	do .....	125.00
	Total .....		12,235.00

## STATIONS OF PORTO RICO.

1902.			
July 31	Paul A. English .....	Salary .....	\$75.80
	Frank D. Gardner .....	do .....	252.70
	O. W. Barrett .....	do .....	101.10
	C. R. Newton .....	do .....	84.20
	J. W. Van Leenhoff .....	do .....	30.30
Aug. 30	Paul A. English .....	do .....	75.80
	Frank D. Gardner .....	do .....	252.70
	O. W. Barrett .....	do .....	101.10
	C. R. Newton .....	do .....	84.20
Sept. 17	J. W. Van Leenhoff .....	do .....	30.30
18	The Geo. W. Knox Express Co .....	Transportation .....	3.60
	Total first quarter .....		1,091.80

90 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

STATIONS OF PORTO RICO—Continued.

Date.	Name.	Nature of payment.	Total.
<b>1902.</b>			
Oct. 1	Paul A. English	Salary	\$73.40
	C. R. Newton	do	81.60
	O. W. Barrett	do	97.80
	J. W. Van Leenhoff	do	29.40
	Frank D. Gardner	do	244.60
Nov. 1	C. R. Newton	do	84.20
	J. W. Van Leenhoff	do	30.30
	Paul A. English	do	75.80
	O. W. Barrett	do	101.10
	Frank D. Gardner	do	252.70
18	New York and Porto Rico Steamship Co	Passenger transportation	44.00
19	Houghton & Delano	Prints	1.59
Dec. 1	Frank D. Gardner	Salary	244.60
	O. W. Barrett	do	97.80
	C. R. Newton	do	81.60
	Paul A. English	do	73.40
	J. W. Van Leenhoff	do	29.40
3	Frank D. Gardner	Traveling expenses	47.70
4	I. P. Roosa	Freights	6.00
6	Jno. C. Parker	Labels	.45
11	G. W. Moss	Passenger transportation	44.00
12	C. P. Close	Traveling expenses	4.80
19	The Pennsylvania R. R. Co	Passenger transportation	6.50
	Total second quarter		1,752.74
<b>1903.</b>			
Jan. 2	J. W. Van Leenhoff	Salary	30.30
	O. W. Barrett	do	101.10
	Paul A. English	do	75.80
	C. R. Newton	do	84.20
	Frank D. Gardner	do	252.70
15	J. Manz Engraving Co	Engravings	35.00
	United States Envelope Co	Envelopes	3.12
	R. D. Cortina Academy of Languages	Dictionary	14.56
	The Rudolph Paper Box Co	Pamphlet cases	13.00
	United States Envelope Co	Envelopes	25.00
Feb. 2	Frank D. Gardner	Salary	258.30
	O. W. Barrett	do	129.20
	Paul A. English	do	77.50
	J. W. Van Leenhoff	do	31.00
3	Jno. C. Parker	Shipping tags	4.72
11	R. Carter Ballantyne	Labels, etc	.91
16	Henion & Hubbell	Hydraulic ram	22.50
19	Pennsylvania R. R. Co	Passenger transportation	6.50
28	J. W. Van Leenhoff	Salary	28.00
	O. W. Barrett	do	116.60
	Frank D. Gardner	do	233.40
	Total third quarter		1,543.43
Apr. 1	J. W. Van Leenhoff	Salary	31.00
	O. W. Barrett	do	129.20
	Frank D. Gardner	do	258.30
2	Griffith & Turner Co	Wagon, mower, etc	47.15
8	Paul A. English	Salary	37.50
14	Boulton, Bliss & Dallett	Transportation	40.00
23	American Writing Machine Co	Paper	4.50
May 2	Frank D. Gardner	Salary	247.25
	J. W. Van Leenhoff	do	29.70
	O. W. Barrett	do	123.60
9	Edw. C. Howe	do	152.79
15	United States Envelope Co	Envelope	6.30
June 1	Frank D. Gardner	Salary	255.50
	J. W. Van Leenhoff	do	30.60
	Edw. C. Howe	do	102.20
	O. W. Barrett	do	127.80
	T. S. Earle	do	180.00
18	do	Traveling expenses	66.08
24	Pennsylvania R. R. Co	Transportation	6.50
	New York and Porto Rico Steamship Co	do	40.00
25	do	do	1.80
	Boulton, Bliss & Dallett	do	40.00
	Total fourth quarter		1,957.77
<i>Supplemental.</i>			
July 1	J. W. Van Leenhoff	Salary	29.70
	E. C. Howe	do	98.90



EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE. 91

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

STATIONS OF PORTO RICO—Continued.

Date.	Name.	Nature of payment.	Total.
<i>Supplemental—Continued.</i>			
1903. July 1	O. W. Barrett .....	Salary .....	\$123.60
	F. D. Gardner .....	.....do .....	247.25
Aug. 15	Louis Hartig .....	Wire .....	3.75
	Total .....		503.20

RECAPITULATION.

First quarter .....	\$1,091.80
Second quarter .....	1,752.74
Third quarter .....	1,543.41
Fourth quarter .....	1,957.77
Supplemental .....	530.20
Total .....	6,875.92

STATIONS OF PORTO RICO—SPECIAL AGENT.

Date.	Name.	Nature of payment.	Total.
1902. July 1	F. D. Gardner .....		\$1,000.00
Aug. 11	.....do .....		2,000.00
Nov. 12	.....do .....		2,000.00
1903. Apr. 22	.....do .....		1,500.00
	Total .....		6,500.00

NUTRITION INVESTIGATIONS.

1902. July 31	C. F. Langworthy et al .....	Salaries .....	\$168.50
Aug. 4	Chas. D. Woods .....	Salary .....	84.20
	W. O. Atwater et al .....	Salaries .....	886.05
19	H. S. Grindley .....	Traveling expenses .....	22.15
30	C. F. Langworthy .....	Salary .....	168.50
Sept. 2	Chas. D. Woods .....	.....do .....	84.20
3	W. O. Atwater et al .....	Salaries .....	690.06
8	H. A. Pratt .....	Traveling expenses .....	11.10
24	C. F. Langworthy .....	.....do .....	13.20
30	.....do .....	Salaries .....	163.00
	Total first quarter .....		2,290.96
Oct. 3	Chas. D. Woods .....	Salary .....	81.60
	W. O. Atwater et al .....	Salaries .....	746.50
16	H. E. Bidwell .....	Salary .....	26.00
31	C. F. Langworthy .....	.....do .....	168.50
Nov. 3	Chas. D. Woods .....	.....do .....	84.20
	W. O. Atwater et al .....	Salaries .....	881.54
8	W. O. Atwater .....	Expenses .....	45.00
17	H. S. Grindley .....	Report .....	500.00
	W. O. Atwater .....	Traveling expenses .....	11.15
	.....do .....	.....do .....	28.12
	.....do .....	.....do .....	46.84
22	Southern Printers' Supply Co. ....	Electros .....	.50
29	C. F. Langworthy et al .....	Salaries .....	226.91
Dec. 1	W. O. Atwater et al .....	.....do .....	894.67
	Chas. D. Woods .....	Salary .....	81.60
2	The Torsion Balance Co .....	Weights .....	6.75
11	W. O. Atwater .....	Traveling expenses .....	22.49
16	Benedict & Burnham Manufacturing Co. ....	Tubing .....	38.63
	Davol Rubber Co .....	Washers .....	18.16
	Lyman D. Mills .....	Repairs .....	146.24
	International Silver Co. ....	Plating .....	25.00
	Eisenhuth Horseless Vehicle Co. ....	Sprocket .....	7.50
	National Enameling and Stamping Co. ....	Soup-stock pots .....	45.00
	Stanley & Paterson (Incorporated) .....	Lamps, etc. ....	34.26
	W. O. Atwater .....	Expenses .....	121.00
17	Densmore Typewriter Co .....	Repairs to typewriter .....	9.35
31	C. F. Langworthy et al .....	Salaries .....	239.30
	Total second quarter .....		4,536.81

92 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

NUTRITION INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Jan. 2	W. O. Atwater et al	Salaries	\$969.15
3	Chas. D. Woods	Salary	84.20
5	J. M. Van Vleck	Electric power	84.36
	Middletown Gaslight Co	Gas	19.46
10	C. F. Langworthy	Traveling expenses	22.90
15	United States Envelope Co	Envelopes	6.47
	Eimer & Amend	Retorts, etc	19.00
16	A. B. Curtiss	Safe	52.88
	W. O. Atwater	Expenses	94.50
	Middletown Electric Light Co	Current	5.32
22	W. O. Atwater	Expenses	33.15
24	do	do	34.22
27	do	Traveling expenses	55.82
31	C. F. Langworthy et al	Salaries	244.50
Feb. 2	M. E. Jaffa	Report	500.00
4	Chas. D. Woods	Salary	86.10
	W. O. Atwater et al	Salaries	719.17
14	do	Expenses	152.25
	H. E. Bidwell	Salary	50.00
16	Wyckoff, Seamans & Benedict	Typewriter stand	94.50
	H. C. White	Services	250.00
	Felt & Tarrant Manufacturing Co	Comptometer	125.00
	The Middletown Electric Light Co	Electric power	14.74
	Pelton & King	Paper	19.50
20	H. A. Grindley	Report	500.00
28	Crosby Steam Gauge and Valve Co	Hydraulic indicator cock	11.00
	Kintaro Oshmia	Salary	75.00
	C. F. Langworthy et al	Salaries	221.00
Mar. 2	W. O. Atwater	Expenses	122.00
	W. O. Atwater et al	Salaries	594.39
	Chas. D. Woods	Salary	77.80
14	Middletown Gaslight Co	Gas	27.30
31	C. F. Langworthy et al	Salaries	244.50
	Total third quarter		5,611.18
Apr. 1	W. O. Atwater et al	Salaries	873.76
2	Chas. D. Woods	Salary	86.10
	C. E. Wait	Report	500.00
9	W. O. Atwater	Expenses	57.50
16	do	do	12.00
17	Middletown Electric Light Co	Current	12.99
18	Geo. M. Pratt	Coal	29.10
20	W. O. Atwater	Expenses	15.15
21	do	Traveling expenses	10.50
28	American Writing Machine Co	Paper	4.50
	Fred A. Schmidt	Pencils	1.30
May 2	Chas. D. Woods	Salary	82.40
	W. O. Atwater et al	Salaries	920.70
	Jno. M. Van Vleck	Electric lights	46.25
15	W. O. Atwater	Expenses	14.00
	M. E. Jaffa	Services	250.00
16	W. O. Atwater	Expenses	145.50
18	Pelton & King	Record blanks	7.50
	M. W. Hennigar	Prints	9.00
19	United States Envelope Co	Envelopes	6.30
20	Pelton & King	Residual sheets	9.00
	Yawman & Erbe Manufacturing Co	Files, etc.	47.40
26	Harry Snyder	Report on experiments	500.00
	H. Raymond	Comptometer, etc.	295.00
	The Middletown Electric Light Co	Electric power	38.16
	W. O. Atwater	Expenses	7.66
	do	do	9.75
June 2	Chas. D. Woods	Salary	85.00
	W. O. Atwater et al	Salaries	875.49
	do	Expenses	145.00
	do	Traveling expenses	61.13
3	R. D. Milner	do	64.75
19	Middletown Electric Light Co	Electric power	14.10
	Middletown Gaslight Co	Gas	27.02
23	Western Union Telegraph Co	Service	.66
	The S. S. White Dental Manufacturing Co.	Cylinder-yoke connections	9.60
	Eimer & Amend	Chemicals, etc	116.85
	J. M. Van Vleck	Electric power	27.30
24	W. O. Atwater	Traveling expenses	15.13
25	H. S. Grindley	Services	500.00
	Total fourth quarter		5,933.98

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## NUTRITION INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
<i>Supplemental.</i>			
1903.			
July 1	Harry Snyder	Report on food economy	\$259.00
	C. E. Wait	do	250.00
2	C. D. Woods	Salary	82.40
	W. O. Atwater et al	Salaries	817.20
16	M. H. Hennigar	Prints, etc	38.00
28	R. D. Milner	Expenses	10.08
Aug. 19	Bausch & Lomb Optical Co.	Graduates, etc	76.54
Sept. 18	Western Union Telegraph Co	Telegraph service	.44
	Total		1,524.66

## RECAPITULATION.

First quarter	\$2,230.96
Second quarter	4,536.81
Third quarter	5,611.18
Fourth quarter	5,953.98
Supplemental	1,524.66
Total	19,897.59

## IRRIGATION INVESTIGATIONS.

Date.	Name.	Nature of payment.	Total.
1902.			
July 25	Geo. P. Killian Co.	Boxes	51.50
31	Elwood Mead et al	Salaries	1,003.35
Aug. 4	Jas. W. Wilson et al	do	1,085.76
	Clarence T. Johnston et al	do	887.90
5	A. R. Whitson	Salary	100.00
11	A. R. Barnes & Co	Paper	27.50
14	Frank Adams	Traveling expenses	135.95
15	J. D. Stannard	do	39.40
19	Chas. G. Elliott	Salary	73.91
21	J. S. Green	Report	500.00
30	Elwood Mead et al	Salaries	1,002.06
Sept. 3	W. & L. E. Gurley	Insulators, etc	14.40
5	J. C. Stevens	Salary	35.00
	J. C. Nagle	do	67.50
	Clarence T. Johnston et al	Salaries	1,022.70
	do	Expenses	10.83
6	do	Traveling expenses	82.85
8	H. J. Waters	Salary	200.00
12	Frank Bond	Traveling expenses	35.15
	do	do	45.22
15	J. C. Nagle	Salary	130.00
17	A. R. Whitson	do	100.00
	O. V. P. Stout	Traveling expenses	469.54
	J. D. Stannard	do	40.00
	Austin B. Crane	Salary	70.00
	Clarence T. Johnston	Expenses	35.05
	W. & L. E. Gurley	Time recorders	28.80
	Jas. M. Wilson et al	Salaries	1,002.86
18	Oregon Short Line R. R. Co.	Passenger transportation	18.00
25	Jno. C. Parker	Tablets	8.64
	Elwood Mead	Traveling expenses	17.50
	do	do	296.95
26	American Writing Machine Co	Typewriter paper	9.00
27	W. B. Dunt n	Traveling expenses	29.31
30	Elwood Mead et al	Salaries	1,086.53
	Total first quarter		9,713.16
Oct. 1	Hiram Sapp	Office rent	180.00
6	Clarence T. Johnston et al	Salaries	761.40
	L. G. C. Mayer	Salary	35.33
	Austin B. Crane	do	40.00
	Wm. E. Smythe	Report	250.00
	C. G. Elliott	Traveling expenses	37.45
9	J. C. Nagle	Salary	130.00
15	Houghton & Delano	Films	4.80
16	Jas. M. Wilson et al	Salaries	748.80
	C. E. Tait	Traveling expenses	47.30
	Jay D. Stannard	do	63.15

94 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

IRRIGATION INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Oct. 16	Clarence T. Johnston	Traveling expenses	\$129.35
	do	Expenses	21.25
17	Fred A. Schmidt	Dividers, etc	5.42
	do	Drawing material	14.75
20	National Engraving Co	Cut	.75
21	A. R. Whitson	Salary	100.00
	Elwood Mead	Traveling expenses	146.35
	Jay D. Stannard	do	35.00
23	Woodward & Lothrop	Stool	2.10
24	Wyckoff, Seamans & Benedict	Repairs to typewriter	16.00
24	C. G. Elliott	Traveling expenses	63.80
	J. M. Wilson	Expenses	62.00
	do	Traveling expenses	25.85
31	Elwood Mead et al	Salaries	1,072.19
Nov. 3	O. V. P. Stout	Salary	84.20
	J. M. Wilson et al	Salaries	557.10
	A. E. Chandler	Expenses	22.26
4	A. R. Whitson	Salary	100.00
	Clarence T. Johnson et al	Salaries	991.00
	do	Traveling expenses	24.85
	O. V. P. Stout	do	83.72
	Frank Bond	do	81.67
	O. V. P. Stout	do	387.53
6	L. G. C. Mayer	Salary	84.20
	A. E. Chandler	Traveling expenses	10.00
	C. E. Tait	do	25.25
8	W. B. Dunton	do	85.40
10	Frank Adams	Expenses	48.00
17	Clarence T. Johnston	do	29.57
	C. G. Elliott	Traveling expenses	41.80
	E. R. Morgan	Salary	90.00
	J. C. Nagle	do	100.00
	Elwood Mead	Traveling expenses	38.30
18	Capital Traction Co	Tickets	3.00
	Baltimore and Ohio R. R. Co	Passenger transportation	12.75
19	The Chicago, Burlington and Quincy R. R. Co.	do	29.00
25	L. G. Carpenter	Salary	385.00
29	Elwood Mead et al	Salaries	1,031.20
Dec. 4	Austin B. Crane	Salary	165.00
	J. M. Wilson et al	Salaries	510.80
	Clarence T. Johnston et al	do	912.60
	American Writing Machine Co	Paper	18.00
	M. A. Seed Dry Plate Co	Lantern slides	13.13
6	L. G. C. Mayer	Salary	81.60
8	C. G. Elliot	do	130.40
	E. R. Morgan	do	110.00
	A. R. Whitson	do	100.00
	Library Bureau	Boxes	3.00
	A. E. Chandler	Traveling expenses	36.25
	Harry B. Needham	do	31.25
12	Wyckoff, Seamans & Benedict	Typewriter, etc	92.25
16	W. B. Dunton	Traveling expenses	35.45
19	Union Pacific R. R. Co	Passenger transportation	16.90
	The Cleveland, Cincinnati, Chicago and St. Louis Rwy. Co.	do	10.30
	Southern Rwy. Co.	do	17.50
	do	do	22.50
	Northern Pacific Rwy. Co	do	11.85
	Galveston, Harrisburg and San Antonio Rwy. Co.	do	19.55
	Denver and Rio Grande R. R. Co	do	6.80
27	L. C. G. Mayer	Traveling expenses	87.15
	J. C. Nagle	Salary	120.00
31	Elwood Mead	Traveling expenses	5.00
	Elwood Mead et al	Salaries	1,292.15
	Total second quarter		12,189.27
1903.			
Jan. 2	O. L. Waller	Salary	80.00
3	J. M. Wilson et al	Salaries	438.39
	C. G. Elliott	Traveling expenses	7.00
5	Hiram Sapp	Rent	180.00
6	A. R. Whitson	Salary	100.00
	Clarence T. Johnston et al	Salaries	1,007.70
	do	Expenses	20.15
10	Louise Ross	Traveling expenses	19.35
13	Fred A. Schmidt	Colors	2.98
15	E. R. Morgan	Salary	102.00

## Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## IRRIGATION INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Jan. 15	A. E. Chandler	Traveling expenses	\$25.25
	Clarence T. Johnston	do	70.52
	do	Expenses	28.20
19	K. B. Duncan	Traveling expenses	56.35
	Walter B. Dunton	do	73.50
24	Pittsburg, Cincinnati and St. Louis Rwy. Co.	Passenger transportation	16.00
	do	do	3.83
26	The Chesapeake and Ohio Rwy. Co.	do	16.95
27	Andrew B. Graham	Plates	25.00
	Denver and Rio Grande R. R. Co.	Passenger transportation	44.75
	Atlantic Coast Line R. R. Co.	do	15.55
29	United States Envelope Co.	Envelopes	7.80
31	Elwood Mead et al	Salaries	1,432.50
Feb. 2	Jno. C. Parker	Eyelets	2.15
	O. L. Waller	Salary	112.00
3	A. E. Chandler et al	Salaries	318.60
	Clarence T. Johnston et al	do	877.72
4	L. G. C. Mayer	Traveling expenses	18.75
	Elwood Mead	do	13.55
7	Capital Traction Co.	Car tickets	3.00
	A. R. Whitson	Salary	100.00
9	United States Express Co.	Transportation	5.55
11	Houghton & Delano.	Plate holders	6.00
12	Arthur P. Stover	Traveling expenses	48.25
	Adams Express Co.	Transportation	5.10
14	Frank Adams	Traveling expenses	78.48
	Walter B. Dunton	do	71.55
18	Cleveland, Cincinnati, Chicago and St. Louis Rwy. Co.	Passenger transportation	3.55
19	Pennsylvania R. R. Co.	do	6.00
	Pittsburg, Cincinnati, Chicago and St. Louis Rwy. Co.	do	16.00
	Oregon Short Line R. R. Co.	do	13.95
20	Saml. Fortier	Salary	395.00
	J. C. Stevens	do	35.00
	E. R. Morgan	do	75.00
	Clarence T. Johnston	Expenses	51.43
	The Denver Fire Clay Co.	Metal, water colors, etc	9.70
	Jno. C. Parker	Copyholder	2.00
25	A. E. Chandler	Traveling expenses	30.50
28	Elwood Mead et al	Salaries	1,413.61
Mar. 3	A. E. Chandler et al	do	287.80
	Edw. B. Voorhees	Report	200.00
	Wm. H. Dyer	Doors, etc	11.50
	Fredk. A. Schmidt	Tracing linens, etc	10.55
4	Clarence T. Johnston et al	Salaries	815.20
5	Hugh Reilly	Glass	3.80
	R. Carter Ballantyne	Envelopes, etc	5.03
9	C. G. Elliott	Traveling expenses	48.50
11	Church & Stephenson	Lumber	40.20
12	A. R. Whitson	Salary	100.00
14	Pullman Automatic Ventilation Co.	Installing ventilators	10.00
	Clarence T. Johnston	Expenses	16.25
	Elwood Mead	Traveling expenses	39.09
16	A. E. Chandler	do	25.25
17	M. Du Perow	Desk fans	25.00
19	Rudolph, West & Co.	Locks	.90
	Woodward & Lothrop	Towels	3.25
21	The Maurice Joyce Engraving Co.	Engraving	48.00
	W. H. Dyer	Molding	.60
22	Frank Bond	Traveling expenses	20.25
24	Richd. T. Ely	do	9.69
31	Elwood Mead et al	Salaries	1,318.66
	Total third quarter		10,525.73
Apr. 1	A. E. Chandler et al	Salaries	232.50
	Clarence T. Johnston et al	do	887.40
2	Yawman & Erbe Manufacturing Co.	Cabinet	14.00
3	C. G. Elliott	Salary	155.00
	The Maurice Joyce Engraving Co.	Engravings	43.00
4	Hiram Sapp	Rent	180.00
7	Jno. C. Parker	Tablets	4.32
6	Houghton & Delano.	Photographic supplies	3.64
	Rudolph, West & Co.	Drawer pulls	1.85
8	A. R. Whitson	Salary	100.00
13	Hugh Reilly	Glass	1.52
14	Burlington and Missouri River R. R. Co.	Transportation	2.67
16	C. G. Elliott	Traveling expenses	45.57

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## IRRIGATION INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Apr. 17	W. B. Moses & Sons	Matting, etc.	\$16.49
	Jas. N. Rupp	Scrapbooks	5.15
	The Maurice Joyce Engraving Co	Engraving	32.00
18	Southern Rwy. Co	Passenger transportation	33.05
	Northern Pacific Rwy. Co	do	2.95
	Wm. G. Davies	Traveling expenses	12.80
	Lee H. Patty	do	12.30
	E. M. Brown	do	14.30
	Washington Southern Rwy. Co	Passenger transportation	15.85
	Union Pacific R. R. Co	do	36.00
	Pennsylvania R. R. Co	do	10.00
	The Georgia R. R. Co.	do	9.30
	Chicago, Rock Island and Pacific Rwy. Co.	do	22.42
20	The S. A. Bristol Co	Cards	25.45
	The Denver Photo Materials Co	Films	14.60
	A. E. Chandler	Traveling expenses	35.60
23	Clarence T. Johnston	Expenses	33.85
	American Writing Machine Co	Paper	9.00
24	O. V. P. Stout	Expenses	32.40
	A. B. Hill	Traveling expenses	23.80
	O. W. Peterson	do	12.30
	E. B. Moore	do	12.30
28	Michigan Steel Boat Co	Boat	39.80
30	Elwood Mead et al	Salaries	1,030.55
May 4	Harry B. Needham	Salary	98.90
	C. G. Elliott	do	148.30
	Arthur P. Stover	do	82.40
	Clarence T. Johnston et al	Salaries	908.24
	do	Traveling expenses	173.05
8	M. Du Perow	Cord, etc.	2.71
	Harris & Shafer Co	Clock	8.40
	Adams Express Co.	Transportation	.25
	United States Express Co	do	.45
	do	do	1.35
	Postal Telegraph Cable Co	Service	.64
9	A. R. Whitson	Salary	100.00
	J. M. Wilson	do	150.00
15	F. R. Crane	Traveling expenses	11.81
	C. E. Tait	do	24.65
	L. B. Brainard	do	6.40
	Gustav E. Stechert	Publications	3.25
	United States Envelope Co	Envelopes	6.30
	Lemcke & Buechner	Journal, etc.	21.60
18	Arthur P. Stover	Traveling expenses	15.93
	C. G. Elliott	do	54.85
	O. V. P. Stout	do	28.37
	W. P. Gregory	do	25.10
25	H. G. Hotchkiss	do	12.30
29	Elwood Mead	do	247.65
	do	do	133.97
31	Elwood Mead et al	Salaries	1,055.06
June 2	C. G. Elliott	Salary	153.40
3	L. G. Hardman	do	100.00
	Central of Georgia Rwy. Co.	Passenger transportation	2.58
	Atlantic Coast Line R. R. Co.	do	31.70
	E. R. Morgan	Traveling expenses	76.55
5	W. & L. E. Gurley	Electric supplies	7.50
6	Jno. C. Parker	Paper	5.00
8	Clarence T. Johnston et al	Salaries	989.20
	Arthur P. Stover et al	do	332.60
9	Funk & Wagnalls Co.	Dictionary	15.00
10	Frank Adams	Traveling expenses	129.52
	E. R. Morgan	Salary	27.47
11	H. B. Needham	Traveling expenses	59.05
12	Clarence T. Johnston	Expenses	38.28
	American Writing Machine Co	Paper	18.00
15	A. R. Whitson	Salary	100.00
	Frank Adams	Traveling expenses	55.73
16	Elwood Mead	do	10.45
17	C. E. Tait	do	136.65
	Walter B. Dumton	do	36.35
	Chas. B. Lewis	Salary	100.00
18	Clarence T. Johnston	Expenses	34.21
19	E. L. Bristol	Books and cards	46.00
	Manhattan Electric Supply Co.	Shades	1.17
22	O. V. P. Stout	Traveling expenses	80.77
	American Writing Machine Co.	Letter paper	36.00
23	Western Union Telegraph Co	Service	7.74
24	A. J. McClatchie	Salary	30.00
	J. E. Roadhouse	Traveling expenses	62.45

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## IRRIGATION INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
June 24	C. G. Elliott	Traveling expenses	\$77.41
	Cleveland, Cincinnati, Chicago and St. Louis Rwy. Co.	Passenger transportation	34.25
	The Colorado and Southern Rwy. Co.	do	18.40
	Lehigh Valley R. R. Co.	do	21.35
	Pennsylvania R. R. Co.	do	5.57
	Fort Worth and Denver City Rwy. Co.	do	13.60
	The Atchison, Topeka and Santa Fe Rwy. Co.	do	60.90
	do	do	11.65
	The Chesapeake and Ohio Rwy. Co.	do	17.00
	do	do	44.00
	Burlington and Missouri River R. R. Co.	do	4.25
	Union Pacific R. R. Co.	do	27.75
	Houston and Texas Central R. R. Co.	do	2.80
	Northern Pacific Rwy. Co.	do	9.15
	Texas and New Orleans R. R. Co.	do	10.85
	Illinois Central R. R. Co.	do	25.35
25	Chicago and Northwestern Rwy. Co.	do	12.75
	Gulf, Colorado and Santa Fe Rwy. Co.	do	7.75
	Saml. Fortier	Traveling expenses	95.65
	Clarence T. Johnston	Expenses	.50
	do	do	5.00
	E. Morrison Paper Co.	Paper	1.00
	The Modern Machine Co.	Register pens	10.00
	Elwood Mead	Traveling expenses	23.25
	Fred A. Schmidt	Drawing paper	16.40
26	Chas. S. Jenkins	Map rack	50.00
29	Pennsylvania R. R. Co.	Passenger transportation	35.10
30	Elwood Mead et al.	Salaries	1,035.52
	Total fourth quarter		10,906.73
	<i>Supplemental.</i>		
July 1	Wyckoff, Seamans & Benedict	Typewriter	90.00
2	E. B. Voorhees	Salary	145.00
	W. B. Gregory	do	225.00
	L. G. C. Mayer	do	82.40
	C. G. Elliott	do	148.30
	A. P. Stover et al.	Salaries	583.70
	C. T. Johnston et al.	do	893.60
7	The Maurice Joyce Engraving Co.	Engravings	6.64
10	A. R. Whitson	Salary	100.00
	Jas. Withycombe	do	130.00
	O. L. Waller	do	765.00
11	Hiram Sapp	Rent of rooms	180.00
13	F. E. Warren Mercantile Co.	Clocks, etc.	10.50
	E. J. Pullman	Photographic supplies	107.97
	Samuel Fortier	Salary	765.00
	F. A. Schmidt	Planimeter	31.00
15	Geo. Walkinshaw	Salary	46.45
	W. C. Sturdevant	do	50.00
	W. F. Bartlett	Traveling expenses	78.80
16	Wm. Ballantyne & Son	Journal	1.00
20	W. H. Veerhoff	Molding	2.54
	E. J. Pullman	Plates	3.85
	Woodward & Lothrop	Cooler	3.62
	Hamburg-American Line	Passenger transportation	138.50
21	G. S. Walker	Desk support	9.00
	J. P. Friez	Water registers	290.00
	R. T. Ely	Salary	250.00
	A. F. Johnston	Traveling expenses	14.70
22	W. B. Dunton	do	82.75
	Appert Glass Co.	Cooler	10.00
23	E. L. Bristol	Register sheets	19.00
	J. E. Stinson	Photographic supplies	42.50
27	M. A. Aldrich	Salary	160.00
	Fred Roediger	do	59.68
28	Frank Adams	Traveling expenses	101.71
	J. E. Roadhouse	do	129.05
	C. G. Elliott	do	85.55
	S. Fortier	do	22.75
	C. T. Johnston	Expenses	50.64
29	Elwood Mead	Traveling expenses	8.25
Aug. 4	R. C. Ballantyne	Paper	32.50
5	F. E. Smith & Co.	Apparatus	297.50
	Holbrook, Merrill & Stetson	do	263.45
	A. E. Roedel	Films, etc.	14.30

98 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

IRRIGATION INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
<i>Supplemental—Continued.</i>			
1903.			
Aug. 5	The Denver Photo Materials Co.....	Photographic supplies .....	\$9.60
	A. P. Stover .....	Expenses .....	49.39
	O. V. P. Stout .....	Traveling expenses .....	51.32
14	A. P. Stover .....	do .....	69.05
15	The Geo. W. Knox Express Co. ....	Freight .....	1.95
17	J. C. Pascoe .....	Stop watch .....	25.00
19	W. & L. E. Gurley .....	Meters .....	240.20
	Dunham, Carrigan & Hayden Co .....	Engine, etc. ....	308.55
	Justiman Caire & Co. ....	Hydrometer, etc .....	7.50
	Geo. H. Fuller Desk Co. ....	Cabinet, etc .....	20.00
	M. A. Seed Dry Plate Co. ....	Plates, etc .....	94.12
	Wm. F. Bartlett .....	Traveling expenses .....	16.55
22	Arthur P. Stover .....	Expenses .....	116.68
	Clarence T. Johnston .....	Traveling expenses .....	114.35
25	W. B. Gregory .....	do .....	66.31
27	W. & L. E. Gurley .....	Registers .....	290.25
28	Morton A. Aldrich .....	Traveling expenses .....	70.55
Sept. 3	C. T. Johnston .....	Expenses .....	63.22
9	E. E. Morgan .....	Traveling expenses .....	114.55
17	L. G. C. Mayer .....	do .....	48.65
18	Western Union Telegraph Co .....	Telegraph service .....	8.30
19	Pennsylvania R. R. Co. ....	Passenger transportation .....	16.50
	Santa Fe, Prescott and Phoenix Rwy .....	do .....	27.80
	do .....	do .....	21.00
	Pittsburg, Cincinnati, Chicago and St. Louis Rwy. Co. ....	do .....	21.10
	The Colorado and Southern Rwy. Co .....	do .....	31.30
	do .....	do .....	19.15
	Northern Pacific Rwy. Co .....	do .....	48.35
	do .....	do .....	103.75
	Union Pacific R. R. Co. ....	do .....	31.70
	do .....	do .....	31.40
22	W. B. Gregory .....	Traveling expenses .....	101.20
Oct. 10	Postal Telegraph Cable Co .....	Telegraph service .....	2.25
19	W. B. Gregory .....	Expenses .....	100.30
31	Union Pacific R. R. Co. ....	Transportation .....	3.50
	Total .....		8,877.59

RECAPITULATION.

First quarter.....	\$9,713.16
Second quarter .....	12,189.27
Third quarter .....	10,525.73
Fourth quarter .....	10,906.73
Supplemental .....	8,877.59
Total .....	52,212.48

SETTLED BY TREASURY.

Date.	Name.	Nature of payment.	Total.
1902.			
Dec. 9	The Public Printer .....	Printing bulletin .....	\$179.96
	The Atchison, Topeka and Santa Fe Rwy. Co. ....	Passenger transportation .....	55.90
1903.			
Jan. 24	Southern Pacific Co. (Pacific System) .....	do .....	27.75
	do .....	do .....	35.95
Feb. 5	The Public Printer .....	Printing bulletins .....	99.16
Mar. 4	do .....	do .....	2,486.97
	do .....	do .....	43.09
	Southern Pacific Co. (Pacific System) .....	Passenger transportation .....	5.90
Apr. 13	The Public Printer .....	Binding .....	90.00
17	Southern Pacific Co. (Pacific System) .....	Passenger transportation .....	39.55
May 7	The Public Printer .....	Printing reports .....	1,275.50
June 23	Southern Pacific Co. (Pacific System) .....	Passenger transportation .....	5.90
26	The Public Printer .....	Printing bulletins .....	527.21
July 14	do .....	do .....	2,904.34
Sept. 21	Southern Pacific Co. (Pacific System) .....	Passenger transportation .....	105.45
	do .....	do .....	22.05
Nov. 10	do .....	do .....	20.00
	Total .....		7,924.68



Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## PUBLIC-ROAD INQUIRIES.

Date.	Name.	Nature of payment.	Total.
1902.			
July 16	M. O. Eldridge	Traveling expenses	\$24.89
	Goodridge Bros	Photos	8.10
17	F. H. Dodge	do	1.00
	A. C. Davis	Motor foundation	40.00
	Campbell & Edens	Photos	7.00
25	M. O. Eldridge	Traveling expenses	37.70
	Martin Dodge	do	120.55
31	Martin Dodge et al	Salaries	1,169.10
Aug. 1	Chas. T. Harrison	Salary	100.00
4	R. W. Richardson	do	176.00
	Jas. W. Abbott	do	200.00
5	Geo. W. King	do	27.42
	Edgar W. Sheets	do	30.00
	R. W. Richardson	Traveling expenses	81.40
	Chas. T. Harrison	do	68.79
	Jas. W. Abbott	do	82.12
	S. D. Willard	Photos	6.00
8	J. F. Brown	Salary	184.00
13	M. O. Eldridge	Traveling expenses	46.65
16	A. L. Murray	Lantern slides	5.20
	E. E. Faville	Photos	2.00
19	W. L. Spoon	Salary	100.00
	Julius H. Dodge	do	100.00
	T. H. Musson	do	78.00
	Houghton & Delano	Printing paper	1.35
	Julius H. Dodge	Traveling expenses	49.90
20	Rudolph West & Co	Door check	2.10
27	Martin Dodge	Traveling expenses	104.81
30	Edgar W. Sheets	Salary	78.00
	Geo. W. King	do	50.00
	Jno. Boston	do	62.90
	Chas. T. Harrison	do	100.00
	Martin Dodge et al	Salaries	1,289.50
Sept. 6	T. H. Musson	Salary	78.00
	Julius H. Dodge	do	100.00
	Jno. Boston	do	38.71
	J. F. Brown	do	176.00
	W. L. Spoon	do	100.00
9	M. O. Eldridge	Traveling expenses	66.25
10	Jas. W. Abbott	Salary	208.00
12	Jas. S. Topham	Stereopticon outfit	8.50
17	R. W. Richardson	Traveling expenses	85.68
	do	Salary	208.00
	Jas. W. Abbott	Traveling expenses	111.70
	Julius H. Dodge	do	44.03
	Chas. T. Harrison	do	65.79
23	G. Russell Taggart	do	24.85
	D. G. Haire	do	35.16
24	W. B. Moses & Sons	Oilcloths	2.00
	D. Bond	Photos	5.00
25	Jas. B. Lambie	Padlock	.70
	Julius H. Dodge	Expenses	11.44
26	Pennsylvania R. R. Co	Passenger transportation	17.00
30	Martin Dodge et al	Salaries	1,153.10
	Total first quarter		6,974.39
Oct. 1	Geo. W. King	Salary	50.00
	W. L. Spoon	do	100.00
	Geo. W. King	Traveling expenses	25.00
	Edgar W. Sheets	Salary	75.00
	Chas. T. Harrison	do	100.00
2	M. O. Eldridge	Traveling expenses	35.00
6	Edgar W. Sheets	do	49.82
9	M. O. Eldridge	do	21.08
10	Jno. Boston	Salary	75.00
	Julius H. Dodge	do	100.00
	Jay F. Brown	do	192.00
	T. H. Musson	do	78.00
16	Wm. Kendrick Hatt	do	48.91
	Julius H. Dodge	Traveling expenses	34.21
18	Jas. W. Abbott	Salary	208.00
	R. W. Richardson	do	208.00
21	do	Traveling expenses	68.98
	Jas. W. Abbott	do	44.40
	Chas. T. Harrison	do	77.75
31	Martin Dodge et al	Salaries	1,261.92
Nov. 3	Chas. T. Harrison	Salary	100.00
	Edgar W. Sheets	do	81.00
	Geo. W. King	do	50.00

100 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

PUBLIC-ROAD INQUIRIES—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Nov. 3	Jay F. Brown	Traveling expenses	\$14.15
4	M. O. Eldridge	do	32.81
6	Julius H. Dodge	Salary	100.00
	Jno. Boston	do	55.65
	Jay F. Brown	do	200.00
	W. L. Spoon	do	100.00
	E. W. Sheets	Traveling expenses	31.32
	G. Russell Taggart	do	136.08
8	R. W. Richardson	Salary	192.00
	Julius H. Dodge	Traveling expenses	35.36
17	R. W. Richardson	do	111.57
	Chas. T. Harrison	do	63.71
	Jas. W. Abbott	do	90.90
	R. L. Munce	Photos	3.00
	T. H. Musson	Salary	81.00
	Jas. W. Abbott	do	216.00
18	The Pennsylvania R. R. Co.	Passenger transportation	11.00
	Baltimore and Ohio R. R. Co.	do	8.65
	do	do	11.00
28	Edgar W. Sheets	Traveling expenses	18.92
29	Martin Dodge et al	Salaries	1,264.34
Dec. 1	W. K. Hatt	Salary	46.19
	Martin Dodge	Traveling expenses	316.57
2	Chas. T. Harrison	Salary	100.00
	Edgar W. Sheets	do	72.00
3	Geo. Wallace King	do	50.00
4	American Writing Machine Co.	Repairing typewriter	4.60
5	Martin Dodge	Traveling expenses	49.40
8	W. L. Spoon	Salary	100.00
	Jno. Boston	do	27.50
	Julius H. Dodge	do	100.00
	Chas. T. Harrison	Traveling expenses	18.50
	R. W. Richardson	do	89.42
	do	Salary	120.00
11	Jay F. Brown	do	160.00
12	Chas. T. Harrison	Traveling expenses	41.37
	M. O. Eldridge	do	22.17
	do	do	28.20
18	Jas. W. Abbott	do	77.90
	do	Salary	192.00
	T. H. Musson	do	72.00
19	Jno. Boston	do	14.52
	The Pennsylvania R. R. Co.	Passenger transportation	10.00
	Baltimore and Ohio R. R. Co.	do	16.65
	do	do	11.90
22	T. H. Musson	Salary	39.00
27	Julius H. Dodge	Traveling expenses	54.11
	D. G. Haire	do	24.05
	do	Salary	84.00
30	W. K. Hatt	do	84.23
	Martin Dodge et al	Salaries	1,375.30
	Total second quarter		9,263.11
1903.			
Jan. 3	Chas. T. Harrison	Salary	100.00
	G. Wallace King	do	40.32
	W. L. Spoon	do	100.00
5	Edgar W. Sheets	do	48.00
	Jay F. Brown	do	96.00
6	Chas. T. Harrison	Traveling expenses	48.54
8	M. O. Eldridge	do	25.00
	R. W. Richardson	Salary	104.00
12	Martin Dodge	Traveling expenses	40.20
15	Julius H. Dodge	Salary	100.00
	J. A. Holmes	do	200.00
	R. W. Richardson	Traveling expenses	45.80
	Edgar W. Sheets	do	18.25
17	Chas. T. Harrison	do	8.60
19	C. F. Ray	Photos	8.00
21	D. Frank Parker	Typewriter paper, etc	14.30
22	The Chesapeake and Potomac Telephone Co	Service	1.70
26	Julius H. Dodge	Traveling expenses	40.25
	Northern Pacific Rwy. Co	Passenger transportation	5.20
	Pennsylvania Co	do	11.00
27	Baltimore and Ohio R. R. Co.	do	18.99
	Louisville and Nashville R. R. Co	do	12.35
31	Martin Dodge et al	Salaries	1,521.70
Feb. 2	Chas. T. Harrison	Salary	100.00
	W. L. Spoon	do	100.00
4	The Hammond Typewriter Co	Typewriter	85.00

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## PUBLIC-ROAD INQUIRIES—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Feb. 9	United States Express Co	Transportation	\$2.65
	Jas. S. Topham	Repairing case	1.50
11	Martin Dodge	Traveling expenses	56.40
	The Murray Lyceum Bureau	Lantern slides	60.45
12	Adams Express Co	Transportation	1.80
14	Joseph A. Holmes	Salary	72.00
16	Jay F. Brown	do	88.00
19	Baltimore and Ohio R. R. Co	Passenger transportation	6.52
	Pennsylvania R. R. Co	do	10.50
	Pennsylvania Co	do	11.00
21	Martin Dodge	Traveling expenses	67.55
28	Martin Dodge et al.	Salaries	1,379.10
Mar. 2	M. O. Eldridge	Traveling expenses	75.31
3	Chas. T. Harrison	Salary	100.00
	W. L. Spoon	do	100.00
5	The Geo. W. Knox Express Co.	Transportation	.25
6	Julius H. Dodge	Salary	100.00
	Jay F. Brown	do	64.00
	Julius H. Dodge	Traveling expenses	32.06
12	do	Salary	100.00
14	do	Traveling expenses	23.58
	Jas. W. Abbott	do	68.98
	Martin Dodge	do	92.76
20	Library Bureau	Folders, etc.	2.00
23	The Chesapeake and Potomac Telephone Co.	Services, first quarter	6.25
	do	Services, second quarter	6.25
31	Martin Dodge et al.	Salaries	1,513.33
	Total third quarter		6,935.44
Apr. 1	M. O. Eldridge	Traveling expenses	95.43
2	R. W. Richardson	Salary	9.15
	Chas. T. Harrison	do	100.00
	B. P. Murray	Coloring slides	34.00
6	W. L. Spoon	Salary	100.00
7	Martin Dodge	Traveling expenses	8.40
8	J. H. Dodge	Salary	100.00
	M. O. Eldridge	Traveling expenses	22.15
	Jay F. Brown	Salary	88.00
18	Baltimore and Ohio R. R. Co	Passenger transportation	11.00
	do	do	11.00
20	Jas. S. Topham	Leather case	9.00
	M. O. Eldridge	Traveling expenses	17.70
30	Martin Dodge et al.	Salaries	1,252.37
May 6	Chas. T. Harrison	Salary	100.00
8	Adams Express Co	Transportation	1.05
	do	do	.65
	United States Express Co	do	6.74
	Postal Telegraph Cable Co.	Service	.51
9	J. B. Killebrew	Salary	75.81
	Jay F. Brown	do	120.00
	J. H. Dodge	do	100.00
	W. L. Spoon	do	100.00
	J. H. Dodge	Traveling expenses	45.44
	M. O. Eldridge	do	135.43
16	Bloomfield Longstreet	Salary	30.00
18	Library Bureau	Typewriter stands	10.00
	D. G. Haire	Salary	66.00
22	Martin Dodge	Traveling expenses	133.49
25	D. G. Haire	do	12.00
26	Chas. T. Harrison	do	88.36
31	L. W. Page et al.	Salaries	770.00
June 1	M. O. Eldridge	Traveling expenses	46.06
	E. W. Sheets	Salary	63.00
	Chas. T. Harrison	do	100.00
3	Central R. R. Co. of New Jersey	Passenger transportation	18.55
9	Wyckoff, Seamans & Benedict	Adjusting typewriter	.50
	The Chesapeake and Potomac Telephone Co	Service	6.25
10	Bloomfield Longstreet	Traveling expenses	4.35
11	J. H. Eldridge	do	8.71
12	W. B. Moses & Sons	Desk	34.00
	do	Door units, rivets, etc	21.50
13	J. H. Dodge	Salary	100.00
	D. F. Parker	Mimeograph	50.00
	Barber & Ross	Scissors	.40
15	J. F. Brown	Salary	80.00
	A. P. Andrews	do	60.00
16	Martin Dodge	Traveling expenses	69.80
17	United States Envelope Co	Envelopes	42.30
	J. H. Dodge	Traveling expenses	41.89

## 102 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## PUBLIC-ROAD INQUIRIES—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
June 17	Rowe Coal Co.	Rent of sprinkling cart	\$20.00
23	Library Bureau	Cards	3.00
	W. B. Moses & Sons.	Letter-press stand	8.00
	M. O. Eldridge	Traveling expenses	34.32
24	Chicago, Milwaukee and St. Paul Rwy. Co.	Passenger transportation	9.90
	St. Louis and San Francisco R. R. Co.	do	25.00
	Illinois Central R. R. Co.	Passenger transportation	7.50
	The Missouri Pacific Rwy. Co.	do	7.77
	The Chicago, Burlington and Quincy R. R. Co.	do	7.41
	Pennsylvania R. R. Co.	do	23.34
25	Western Union Telegraph Co.	Service	21.63
	The Chesapeake and Potomac Telephone Co.	do	.45
26	St. Louis and San Francisco R. R. Co.	Passenger transportation	12.50
	Baltimore and Ohio R. R. Co.	do	22.00
29	Pennsylvania R. R. Co.	do	11.50
	United States Envelope Co.	Envelopes	25.20
30	L. W. Page et al.	Salaries	745.00
	Total fourth quarter		5,382.51
	<i>Supplemental.</i>		
1903.			
July 2	J. H. Brigham	Traveling expenses	7.55
9	B. Longstreet	Salary	78.00
	A. P. Andrew	do	78.00
	D. G. Haire	do	78.00
10	R. W. Richardson	Traveling expenses	46.75
13	D. G. Haire	do	3.25
16	Chicago, Rock Island and Pacific Rwy Co.	Passenger transportation	15.40
22	J. H. Dodge	Traveling expenses	43.98
23	J. A. Holmes	Salary	228.00
25	J. F. Brown	do	32.00
28	E. W. Sheets	Traveling expenses	20.49
	L. M. Eagan	Expenses	150.00
29	The Chesapeake and Potomac Telephone Co.	Service	6.25
30	J. F. Brown	Traveling expenses	5.85
Aug. 4	M. Du Perrow	Fan	14.00
6	L. W. Page	Traveling expenses	13.30
15	The Chesapeake and Potomac Telephone Co.	Service	.15
	do	Moving telephone	3.60
19	Stark Tool Co.	Lathe, etc.	358.88
Sept. 3	C. T. Harrison	Traveling expenses	90.78
10	J. B. Lambie	Files, etc.	8.48
	Mackall Bros.	Crucible	31.50
18	Western Union Telegraph Co.	Telegraph service	14.89
	Postal Telegraph Cable Co.	do	2.26
19	Illinois Central R. R. Co.	Passenger transportation	7.50
	Baltimore and Ohio R. R. Co.	do	19.72
21	W. B. Moses & Sons.	Bookcase	21.50
Oct. 10	Postal Telegraph Cable Co.	Telegraph service	1.77
	United States Express Co.	Transportation	5.65
	Total		1,401.50

## RECAPITULATION.

First quarter	\$6,974.39
Second quarter	9,263.11
Third quarter	6,935.44
Fourth quarter	5,382.51
Supplemental	1,401.50
Total	29,956.95

## FOREIGN MARKET INVESTIGATIONS.

Date.	Name.	Nature of payment.	Total.
1902.			
July 12	Frank R. Rutter	Traveling expenses	\$18.27
31	B. E. Powell et al.	Salaries	250.40
Aug. 4	E. S. Newman	Ribbon, etc.	7.50
12	Frank H. Hitchcock	Traveling expenses	37.85
26	W. B. Moses & Sons	Bookcase	17.25
30	B. E. Powell et al.	Salaries	266.70

## Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## FOREIGN MARKET INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Sept. 24	Jno. C. Parker	Pencil pointer	83.50
	do	Envelopes	35.00
30	F. M. Dearing et al	Salaries	389.60
	Total first quarter		1,025.57
Oct. 10	W. B. Moses & Sons	Linoleum	2.67
24	Wyckoff, Seamans & Benedict	Cylinder, etc.	1.70
31	F. M. Dearing et al	Salaries	350.25
Nov. 29	E. S. Newman	Paper	6.00
	F. M. Dearing et al	Salaries	378.20
Dec. 2	F. Sharp	File, etc.	4.15
4	Frank H. Hitchcock	Traveling expenses	223.15
18	American Cycle Manufacturing Co	Repairs, bicycle	6.25
31	F. M. Dearing et al	Salaries	384.90
	Total second quarter		1,357.27
1903.			
Jan. 5	Lamb & Tilden	Stamps	9.33
13	Wyckoff, Seamans & Benedict	Typewriter, etc.	90.00
31	F. M. Dearing et al	Salaries	398.40
Feb. 2	Jno. C. Parker	Fountain pens	10.90
7	Frank H. Hitchcock	Traveling expenses	101.75
20	Jno. C. Parker	Knives for pencil pointer	1.30
25	M. Du Perow	Card, etc.	6.05
28	F. M. Dearing et al	Salaries	383.20
Mar. 5	The Chesapeake and Potomac Telephone Co	Service	6.25
	do	do	6.25
11	M. Du Perow	Shades	2.40
	National Electrical Supply Co.	Brass bases	9.72
	do	Supplies	8.65
31	F. M. Dearing et al	Salaries	398.40
	Total third quarter		1,432.61
Apr. 2	Pullman Automatic Ventilator Co	Ventilator	40.00
	Grant Carpenter	Repairs to arithmometer	28.00
	E. S. Newman	Ribbon for adding machine	1.50
3	Jno. C. Parker	Paper	50.00
11	Jas. B. Lambie	Excelsior	.95
14	E. S. Newman	Paper for adding machine	6.00
	Harris & Shafer Co	Clock	8.40
30	F. M. Dearing et al	Salaries	516.84
May 16	Wyckoff, Seamans & Benedict	Repairing typewriter	14.50
	Fred A. Schmidt	Repairing arithmometer	3.00
26	W. H. Lowdermilk	Book	4.50
29	E. Morrison Paper Co	Wrapping paper	4.20
	F. M. Dearing et al	Salaries	543.00
June 6	Jno. C. Parker	Fountain pen, etc.	17.00
12	R. Carter Ballantyne	Paper and envelopes	4.92
17	Wolf Bros	Envelopes	2.33
23	W. B. Moses & Sons	Chairs, etc.	124.45
	Western Union Telegraph Co	Service	2.91
25	The Maurice Joyce Engraving Co	Facsimile stamp	1.00
	United States Envelope Co	Envelopes	45.80
30	F. M. Dearing et al	Salaries	538.50
	Total fourth quarter		1,957.80
	<i>Supplemental.</i>		
July 16	E. S. Newman	Adding-machine paper	18.00
20	Library Bureau	Cards, etc.	199.88
	J. N. Rupp	Paper	27.50
	Chadwick Copying Book Co	Copying books	11.04
24	J. C. Parker	Pencils, etc.	17.87
Aug. 4	R. C. Ballantyne	Envelopes and paper	89.12
Sept. 18	Western Union Telegraph Co	Telegraph service	1.66
	Total		365.07

## RECAPITULATION.

First quarter	\$1,025.57
Second quarter	1,357.27
Third quarter	1,432.61
Fourth quarter	1,957.80
Supplemental	365.07
Total	6,138.32

104 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

SILK INVESTIGATIONS.

Date.	Name.	Nature of payment.	Total.
1902.			
Aug. 25	Henrietta A. Kelly	Salary	\$77.42
Sept. 6	do	do	150.00
	Total first quarter		227.42
Oct. 4	Henrietta A. Kelly	Salary	150.00
	do	Traveling expenses	95.77
9	Thos. A. Keleher	do	12.35
21	L. O. Howard	do	389.19
Nov. 6	do	do	10.05
	Henrietta A. Kelly	Salary	150.00
22	do	Traveling expenses	2.50
Dec. 8	do	Salary	150.00
20	L. O. Howard	Traveling expenses	26.73
	Total second quarter		876.59
1903.			
Jan. 5	Geo. W. Carver	Traveling expenses	48.52
13	Elizabeth Walter	Silkworm eggs	15.00
15	Henrietta A. Kelly	Traveling expenses	25.35
	do	Salary	150.00
	Antonin Fabre	Silkworm eggs	38.60
Feb. 17	A. Radaelli & Sons	do	135.10
	Gerald McCarthy	Cocoons	5.25
9	Henrietta A. Kelly	Traveling expenses	49.50
	do	Salary	150.00
28	R. S. Clifton et al	Salaries	280.00
Mar. 6	Henrietta A. Kelly	Salary	150.00
20	Wm. Brough	Die and tin boxes	70.00
31	R. S. Clifton et al	Salaries	310.00
	Total third quarter		1,427.32
Apr. 2	L. O. Howard	Traveling expenses	42.88
	Wm. Brough	Tin boxes	25.00
4	R. S. Clifton	Traveling expenses	38.95
16	Henrietta A. Kelly	Salary	150.00
17	Western Union Telegraph Co	Service	4.19
18	The Washington Woodworking Co	Boxes	46.88
	R. S. Clifton	Traveling expenses	23.00
28	Louis B. Magid	Silk-worm eggs	24.00
30	R. S. Clifton et al	Salaries	332.70
May 4	Henrietta A. Kelly	Salary	150.00
8	The Washington Woodworking Co	Racks	.48
	Postal Telegraph-Cable Co	Service	1.71
15	Louis B. Magid	Silk	4.80
18	I. P. Roosa	Expenses	126.90
26	M. J. Berthand Fils	2 silk reels	579.00
29	M. Du Perow	Silk cord, etc	2.78
31	R. S. Clifton et al	Salaries	404.83
June 3	Southern Rwy. Co	Passenger transportation	17.15
	do	do	17.50
	The Western Rwy. of Alabama	do	9.16
6	T. A. Keleher	Traveling expenses	3.10
9	The Washington Woodworking Co	Boxes	28.13
10	Rosa Garlati	Salary	25.00
	Camillo Garlati	do	35.00
	Henrietta A. Kelly	do	150.00
17	Ingegnoli Bros	Mulberry trees	4.47
19	The Okonite Co. (Limited)	Wire	1.25
22	Houghton & Delano	Film	19.20
23	C. M. Woolf & Co	Primer	1.25
	Mackall Bros	Carbon	3.20
25	The Washington Woodworking Co	Boxes	42.90
	C. M. Woolf & Co	Primer	1.25
30	Henrietta A. Kelly	Salary	150.00
	Rosa Garlati	do	25.00
	R. S. Clifton et al	Salaries	804.20
	Total fourth quarter		3,343.38
	<i>Supplemental.</i>		
1903.			
July 3	A. Hughes	Seed and trees	89.75
6	Camillo Garlati	Salary	35.00
	H. A. Kelly	Traveling expenses	43.35
	Rosa Garlati	do	45.20
7	R. S. Clifton	do	44.90
13	Wm. Brough	Tin boxes	50.00
	A. N. Candell	Salary	82.40
20	F. W. Bolgiano & Co	Burlap bags	.96

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd

## SILK INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
<i>Supplemental—Continued.</i>			
1903.			
July 20	Mackall Bros	Cotton batting	\$1.40
21	C. L. Marlatt	Expenses	140.69
Aug. 4	Chas. R. Edmonston	Baskets	7.50
15	The Geo. W. Knox Express Co.	Transportation	296.16
17	The Randolph Paper Box Co.	Boxes	127.75
28	Eugenie Tortell	Traveling expenses	14.00
Sept. 9	H. A. Kelly	do	61.90
18	Postal Telegraph Cable Co.	Telegraph service	3.15
Oct. 10	do	do	.54
12	S. Kann Sons & Co.	Bobbinet, etc.	3.90
	John B. Espey	Ladders, etc.	6.75
28	John C. Covert	Traveling expenses	242.43
	Total		1,237.13

## RECAPITULATION:

First quarter	\$227.42
Second quarter	876.59
Third quarter	1,427.32
Fourth quarter	3,343.98
Supplemental	1,237.13
Total	7,111.84

## VEGETABLE PATHOLOGICAL INVESTIGATIONS.

Date.	Name.	Nature of payment.	Total.
1902.			
July 23	Wyckoff, Seamans & Benedict	Typewriter	\$92.25
25	M. A. Carleton	Traveling expenses	16.55
	C. O. Townsend	do	25.59
26	M. Du Perow	Tubing, etc.	5.76
	Washington Railway and Electric Co.	Car tickets	2.00
28	E. Morrison Paper Co.	Tags	16.35
31	E. F. Smith et al.	Salaries	3,278.68
Aug. 1	Houghton & Delano	Films, etc.	49.55
	Wyckoff, Seamans & Benedict	Ribbons	1.38
	H. von Schrenk	Salary	210.60
	P. H. Dorsett	do	189.55
	Geo. G. Hedgcock	do	80.90
	Mark B. Lacy	do	50.50
	Perley Spaulding	do	40.40
	A. W. Edson	do	40.00
4	Thos. Cook & Son	Passenger transportation	15.00
5	H. C. Henrickson	Salary	50.50
	F. R. Holtzman	do	40.00
	A. J. Meyer	do	50.00
	Andrew M. Soule	do	25.30
	Alfred Atkinson	do	50.00
6	S. M. Tracy	do	50.00
	Leslie A. Fitz	do	50.00
	O. M. Vance	do	40.00
	Perley Spaulding	Traveling expenses	49.59
7	Newton B. Pierce	Salary	210.60
9	C. P. Hartley	Expenses	4.35
11	B. M. Duggar	Traveling expenses	13.00
	H. J. Webber	do	63.35
	J. L. Sheldon	Salary	25.30
	C. T. Rumbold	do	25.00
12	C. L. Shear	Traveling expenses	14.27
	M. Du Perow	Fans	159.90
	Wyckoff, Seamans & Benedict	Typewriter	92.25
	Church & Stephenson	Shelving	140.00
14	T. R. Robinson	Expenses	10.98
	C. P. Hartley	Traveling expenses	89.41
	do	Expenses	8.96
	H. von Schrenk	do	139.21
	do	Traveling expenses	65.00
	Geo. G. Hedgcock	Expenses	2.78
	do	Traveling expenses	30.60
15	The Folmer & Schwing Manufacturing Co.	Tripod	11.60
	Chas. Lentz & Sons	Counting apparatus	10.35
	Whitall Tatum Co.	Tubes, etc.	46.26

*Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.*

## VEGETABLE PATHOLOGICAL INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Aug. 15	Geo. T. Moore	Traveling expenses	\$14.85
16	Walter T. Swingle	Salary	189.55
	Peter H. Rolfs	do	168.50
18	Leslie A. Fitz	Expenses	15.68
	Peter H. Rolfs	do	10.10
	Richmond, Fredericksburg and Potomac R. R. Co.	Passenger transportation	3.50
	Southern Rwy. Co.	do	23.30
	do	do	3.86
19	Chris. Christensen	Salary	40.00
	American Writing Machine Co.	Typewriter paper	27.00
20	Rudolph, West & Co.	Casseroles, etc.	56.82
26	Houghton & Delano	Photo supplies	38.47
	Washington Gaslight Co.	Gas	3.30
	United States Electric Lighting Co.	Current	12.30
	do	do	1.04
	Z. D. Gilman	Laboratory supplies	85.48
	J. T. Walker Sons	Lime	.80
	Mackall Bros	Chemicals	8.93
	W. B. Moses & Sons	Chair	4.32
30	Perley Spaulding	Salary	40.40
	Jno. S. Cole	do	50.00
	Alfred Atkinson	do	50.00
	Mark B. Lacey	do	50.50
	Leslie A. Fitz	do	50.00
	F. W. Faurot	do	120.00
	P. H. Dorsett	do	189.55
	H. von Schrenk	do	210.60
	Newton B. Pierce	do	210.60
Sept. 3	E. F. Smith et al.	Salaries	3,415.88
	A. J. Meyer	Salary	50.00
	G. G. Hedgcock	do	80.90
	L. M. Rumsey Manufacturing Co.	Filter	19.16
	Scarritt Comstock Furniture Co.	Refrigerator	37.00
	Henry Heil Chemical Co.	Supplies	47.19
	Whitall Tatum Co.	Pipettes	25.70
	do	Jars, etc.	25.67
5	E. Morrison Paper Co.	Envelopes	10.00
	Vaughan's Seed Store	Seed corn	.96
6	W. A. Orton	Traveling expenses	165.88
8	R. Carter Ballantyne	Paper bags	8.26
	F. R. Holzmann	Salary	40.00
	S. M. Tracy	do	50.00
	Chris. Christensen	do	40.00
	Jno. L. Sheldon	do	25.30
	Peter H. Rolfs	do	168.50
	Otto M. Vance	do	40.00
	H. C. Henriksen	do	50.50
9	C. L. Shear	Traveling expenses	94.47
10	H. J. Webber	do	49.34
17	Andrew M. Soule	Salary	25.30
	A. W. Edson	do	61.09
	D. B. Swingle	Expenses	4.89
	Perley Spaulding	Traveling expenses	49.25
	Peter H. Rolfs	do	68.80
	Walter T. Swingle	Salary	189.55
18	Washington Southern Rwy. Co.	Passenger transportation	10.50
	do	do	31.70
	The Chesapeake and Ohio Rwy. Co.	do	12.75
	Burlington and Missouri River R. R. Co.	do	6.15
	Michigan Central R. R. Co.	do	13.66
	Pennsylvania R. R. Co.	do	59.70
	do	do	21.30
	Southern Rwy. Company	do	13.75
	The Western Rwy. of Alabama	do	9.60
	Geo. G. Hedgcock	Traveling expenses	16.25
	do	Expenses	3.38
	Seaboard Air Line Rwy.	Passenger transportation	4.20
19	Jno. C. Parker	Clips	.49
23	E. G. Schollander	Salary	50.00
	Geo. T. Moore	Traveling expenses	39.82
29	Caroline T. Rumbold	Salary	25.00
30	E. F. Smith et al.	Salaries	3,334.88
	Total first quarter		15,853.19
Oct. 2	Elias Nelson	Salary	39.20
3	H. C. Henriksen	do	49.00
	A. J. Meyer	do	50.00
	N. B. Pierce	do	203.80



Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## VEGETABLE PATHOLOGICAL INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Oct. 3	Mark B. Lacy .....	Salary .....	\$49.00
	Geo. G. Hedgcock .....	do .....	78.20
	Leslie A. Fitz .....	do .....	50.00
	P. H. Dorsett .....	do .....	183.40
	Jno. S. Cole .....	do .....	50.00
	E. G. Schollander .....	do .....	50.00
	Alfred Atkinson .....	do .....	50.00
	Caroline T. Rumbold .....	do .....	25.00
	H. von Schrenk .....	do .....	203.80
	A. W. Edson .....	do .....	78.20
	do .....	Traveling expenses .....	84.32
6	F. R. Holzmann .....	Salary .....	40.00
	Peter H. Rolfs .....	do .....	163.00
	Perley Spaulding .....	do .....	39.20
	F. W. Faurot .....	do .....	58.80
	D. W. Stockstill .....	Seed boxes .....	25.00
	W. Silas Sheetz .....	Camera, etc .....	132.58
	do .....	Photographic work .....	3.35
	do .....	do .....	39.72
	do .....	Printing frames .....	1.20
	Herman von Schrenk .....	Traveling expenses .....	151.88
7	W. M. Hayes .....	Salary .....	150.00
9	Otto M. Vance .....	do .....	40.00
	Jno. L. Sheldon .....	do .....	24.40
10	Geo. T. Moore .....	Traveling expenses .....	57.15
	W. Silas Sheetz .....	Apparatus .....	131.97
	do .....	Meters .....	3.75
	C. L. Shear .....	Traveling expenses .....	23.87
	S. M. Tracy .....	Salary .....	50.00
	Chris. Christensen .....	do .....	40.00
	M. A. Carleton .....	Traveling expenses .....	158.03
13	Rodney H. True .....	do .....	64.82
16	Newton B. Pierce .....	Expenses .....	77.38
	Perley Spaulding .....	do .....	17.64
	do .....	Traveling expenses .....	40.95
	Peter H. Rolfs .....	Expenses .....	35.80
	do .....	do .....	6.92
	do .....	Traveling expenses .....	3.00
	Leslie A. Fitz .....	Expenses .....	34.22
	S. M. Tracy .....	Traveling expenses .....	44.23
18	Houghton & Delano .....	Photographic supplies .....	22.83
	do .....	do .....	37.30
	Church & Stephenson .....	Lumber .....	64.20
	Z. D. Gilman .....	Bottles, etc .....	6.93
	do .....	Laboratory supplies .....	24.40
20	J. S. Chamberlain .....	Traveling expenses .....	84.74
	United States Envelope Co .....	Envelopes .....	14.96
	do .....	do .....	19.39
	Buffalo Dental Manufacturing Co .....	Pads .....	9.20
	M. G. Copeland Co .....	Flag .....	3.15
	American Writing Machine Co .....	Typewriter paper .....	27.00
	Sawyer & Wagner Co .....	Cards .....	4.80
	National Engraving Co .....	Plates .....	6.76
	Southern Printers' Supply Co .....	Electros .....	1.50
	R. Carter Ballantyne .....	Envelopes, etc .....	13.00
	National Electric Supply Co .....	Electric stove, etc .....	18.25
	Jno. C. Parker .....	Pen and paper .....	7.50
	Flossie M. Garner .....	Hemming towels .....	1.04
21	E. Morrison Paper Co .....	Bags .....	6.75
	Thos. Somerville & Sons .....	Nozzle .....	.75
	do .....	Link .....	4.25
	do .....	Pipe, etc .....	37.00
	Rudolph, West & Co .....	Card holders .....	12.34
	Bausch & Lomb Optical Co .....	Rubber caps .....	5.46
27	B. M. Dugger .....	Traveling expenses .....	71.33
	Newton B. Pierce .....	Expenses .....	145.25
	do .....	do .....	169.29
	Henry A. Miller .....	Traveling expenses .....	17.80
	T. R. Robinson .....	do .....	9.05
	C. L. Shear .....	do .....	8.80
	K. F. Kellerman .....	do .....	8.50
	D. B. Swingle .....	Expenses .....	12.35
	Andrew M. Soule .....	Salary .....	24.40
	Ernest N. Wilcox .....	do .....	39.20
28	Gus. A. Muller .....	Painting .....	70.00
	American Distributing Co .....	Alcohol .....	30.22
	The Bailey-Lebby Co .....	Cotton .....	132.00
	Richards & Co .....	Funnels, etc .....	21.50
	Field Force Pump Co .....	Nozzles .....	6.00
	J. R. Torry Razor Co .....	Cutters .....	14.00

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## VEGETABLE PATHOLOGICAL INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Oct. 28	Buxton Skinner Stationery Co	Filing cases	\$49.20
	Alexander Seed Co.	Oats	5.35
	Daniel Hiser	Pots	4.00
	M. C. Jensen	Traveling expenses	44.21
	Peter Rolfs	Expenses	56.61
	Wm. Krafft	Apparatus	75.00
29	Geo. T. Moore	Traveling expenses	46.85
	Fred A. Schmidt	Drawing table	8.75
	M. Du Perow	Plugs	1.30
	do	Desk fans	62.50
	Woodward & Lothrop	Clock, etc	12.50
	Hugh Reilly	Glass	2.48
	Barber & Ross	Brass	.96
	Lamb & Tilden	Stencil	1.00
	Mackall Bros	Cans, etc	15.10
	Wm. Krafft	Apparatus	42.90
	do	Microscope stands, etc	676.00
	H. von Schrenk	Expenses	173.53
31	Erwin F. Smith et al	Salaries	3,436.63
Nov. 1	E. G. Schoellander	Salary	50.00
	Perley Spaulding	do	40.40
	Mark B. Lacy	do	50.50
	Newton B. Pierce	do	210.60
	P. H. Dorsett	do	189.55
	F. W. Faurot	do	60.60
	Jno. S. Cole	do	50.00
	Alfred Atkinson	do	50.00
	Elias Nelson	do	40.40
3	Daniel Hiser	Glazed pots	25.00
5	T. S. Williams	Growing vegetables	97.50
	E. Bartholomew	Book	6.00
	H. von Schrenk	Expenses	79.46
	A. W. Edson	Salary	80.90
	Andrew M. Soule	do	25.30
	Geo. G. Hedgcock	do	80.90
	A. J. Meyers	do	50.00
	F. R. Holzmann	do	40.00
	H. von Schrenk	do	210.60
	Caroline T. Rumbold	do	25.00
	Walter T. Swingle	do	183.40
	do	do	189.55
	H. von Schrenk	Traveling expenses	47.94
	Geo. E. Morris	Prints, etc	35.50
	Whitall Tatum Co	Wire, etc	15.48
	do	Aquaria	36.00
	Wyckoff, Seamans & Benedict	Ribbons	2.75
	J. T. Walker Sons	Sand	1.25
	Chas. R. Edmonston	Filter	50.00
	Barber & Ross	Hardware	2.10
	E. G. Shafer & Co.	Pipe, etc	1.47
6	W. Silas Sheetz	Trimmer	3.25
	do	Case	6.00
	Merck & Co	Laboratory supplies	38.88
	H. C. Henricksen	Salary	50.50
	Peter H. Rolfs	do	168.50
	Jno. L. Sheldon	do	25.30
	Erker Bros. Optical Co.	Camera, etc	30.89
	do	Photographic supplies	22.30
	do	do	23.30
	Henry Heil Chemical Co.	Chemicals	8.60
	do	Laboratory supplies	6.43
	L. H. McCullough	Salary	20.85
	Backus Gas Heater and Fixture Co	Welsbach lights	9.25
	A. Volger Sheet Metal Manufacturing Co.	Labels	17.77
	Riddle Rehben Manufacturing Co.	Drying lumber	15.00
	Folmer & Schwing Manufacturing Co.	Camera	76.00
	J. Steckler Seed Co.	Oats	3.00
	The Chidlow Institute	Rent	50.00
	E. O. Painter Fertilizer Co	Fertilizer	42.25
	Whitall Tatum Co	Staining jar, etc	18.69
	do	Vials	26.52
7	H. J. Webber	Transportation	202.57
10	S. M. Tracy	Salary	50.00
	Chris. Christensen	do	40.00
	Otto M. Vance	do	40.00
	Leslie A. Fitz	do	50.00
	Jas. E. Converse	do	37.50
	Jesse B. Norton	Traveling expenses	19.85
	The Folmer & Schwing Manufacturing Co	Camera	83.70
	Eimer & Amend	Lenses, etc	46.36

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## VEGETABLE PATHOLOGICAL INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Nov. 10	Wood, Stubbs & Co	Oats	\$1.10
	O. M. Schwill & Co	do	3.60
11	Leslie A. Fitz	Traveling expenses	4.70
	A. F. Woods	do	154.01
13	Rudolph, West & Co.	Pipe, etc	40.71
	Mackall Bros	Chemicals	22.95
	Z. D. Gilman	Beakers, etc	101.13
17	E. N. Wilcox	Salary, October	40.40
	do	Salary, Nov. 1-15	19.57
	T. W. Wood & Sons	Oats	11.24
	do	do	.55
	M. B. McRae	Carpenter work	33.75
	Arthur H. Thomas Co.	Safety burner	3.75
	Bausch & Lomb Optical Co	Laboratory supplies	73.84
	Alex. Carlyle	Salary, August	50.00
	do	Salary, September	50.00
	do	Salary, October	50.00
	Barber & Ross	Screws, etc	4.91
	Geo. F. Muth & Co	Brushes	2.31
	Hugh Reilly	Glass	5.40
18	Lehigh Valley R. R. Co.	Passenger transportation	5.93
	Galveston, Harrisburg and San Antonio Rwy. Co.	do	18.20
	Great Northern Rwy. Co.	do	11.18
	Atlanta and West Point R. R. Co.	do	10.67
	Louisville and Nashville R. R. Co.	do	6.24
	Atlantic Coast Line R. R. Co.	do	4.77
	The Wabash R. R. Co.	do	19.51
	Atlantic Coast Line R. R. Co.	do	10.68
	do	do	14.26
	do	do	5.86
	Southern Rwy. Co.	do	52.45
	do	do	6.80
	Michigan Central R. R. Co.	do	10.94
	New York, New Haven and Hartford R. R. Co.	do	2.85
	do	do	40.15
	do	do	25.35
	Northern Pacific Rwy. Co.	do	13.96
	Central of Georgia Rwy. Co.	do	9.94
	Maine Central Rwy. Co.	do	8.50
	Baltimore and Ohio R. R. Co.	do	12.75
	The Lake Shore and Michigan Southern Rwy. Co.	do	12.95
	International and Great Northern Rwy. Co.	do	36.10
	Nashville, Chattanooga and St. Louis Rwy. Co.	do	3.75
	F. W. Bolgiano & Co.	Bags	4.00
	Mobile and Ohio R. R. Co.	Passenger transportation	2.56
	St. Louis and San Francisco R. R. Co.	do	51.50
	Gulf, Colorado and Santa Fe Rwy. Co.	do	6.00
	Southern Rwy. Co.	do	39.95
	Louisville and Nashville R. R. Co.	do	21.05
	Duluth, South Shore and Atlantic Rwy. Co.	do	9.10
	Pennsylvania R. R. Co.	do	47.80
	do	do	62.34
	do	do	26.99
	Chicago and Northwestern Rwy. Co.	do	8.10
19	Whithall Tatum Co.	Dishes	9.48
	R. P. Clarke Co.	Toweling	6.25
26	H. J. Webber	Expenses	38.00
	Chas. O. Townsend	Traveling expenses	115.90
29	Washington, Alexandria and Mt. Vernon Rwy. Co.	Tickets	11.25
	Erwin F. Smith et al	Salaries	3,419.55
Dec. 1	C. P. Hartley	Traveling expenses	153.00
	Elias Nelson	Salary	39.20
	Ernest G. Schollander	do	50.00
	F. W. Faurot	do	60.60
	A. W. Edson	Traveling expenses	119.70
2	W. B. Folmar	Cultivating	100.00
	James Murphy	Excavating	16.75
3	E. N. Wilcox	Salary	19.63
	Leslie A. Fitz	do	50.00
	C. P. Hartley	Expenses	93.91
	Erwin F. Smith	Traveling expenses	42.39
4	Andrew M. Soule	Salary	24.40
	Jonas E. Hite	do	25.00
	Henry K. Mooney	do	25.00

## 110 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

*Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.*

## VEGETABLE PATHOLOGICAL INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Dec. 4	Perley Spaulding	Salary	\$39.20
	Newton B. Pierce	do	203.80
	P. H. Dorsett	do	183.40
	Mark B. Lacy	do	49.00
	Jno. S. Cole	do	50.00
	H. von Schrenk	do	203.80
	The Geo. W. Knox Express Co	Transportation	2.29
	do	do	.25
	United States Electric Lighting Co	Current	11.06
	do	do	12.45
	Washington Gaslight Co	Gas	5.20
	do	do	3.00
	do	do	2.40
	M. A. Carleton	Expenses	53.02
	Louis Mesmer	Traveling expenses	44.50
	H. von Schrenk	Expenses	32.87
	B. M. Duggan	do	88.21
5	M. A. Carleton	do	21.29
	W. A. Orton	Traveling expenses	160.53
6	Geo. T. Moore	Expenses	10.75
	H. J. Webber	do	4.35
	Leslie A. Fitz	do	34.17
8	A. W. Edson	Salary	78.20
	Geo. G. Hedgcock	do	78.20
	Jno. S. Sheldon	do	24.40
	F. R. Holzman	do	40.00
	Alfred Atkinson	do	50.00
	L. H. McCullough	do	40.00
	H. C. Henricksen	do	49.00
	Peter H. Rolfs	do	163.00
	Geo. G. Hedgcock	Traveling expenses	8.95
	Jno. C. Parker	Pen	5.00
	Church & Stephenson	Lumber	6.00
	Henry Bernheimer	Radiators	48.93
	H. von Schrenk	Expenses	112.50
10	The C. J. McCubbin Co	Plumbing	26.50
	Church & Stephenson	Lumber	5.64
	do	do	13.75
	do	do	11.68
	do	do	16.50
11	Chris. Christensen	Salary	40.00
	Otto M. Vance	do	40.00
	Caroline T. Rumbold	do	25.00
	J. B. Evans	do	50.00
	do	do	50.00
	S. M. Tracy	do	50.00
	do	Traveling expenses	39.55
	Peter H. Rolfs	do	31.35
	A. W. Edson	do	125.70
12	T. R. Robinson	Expenses	4.05
	do	Traveling expenses	5.32
	Geo. G. Hedgcock	do	4.90
	Rudolph, West & Co	Hardware	9.02
	Z. D. Gilman	Covers, etc	2.41
	do	Cotton, etc.	7.90
	do	Laboratory supplies	66.80
	Woodward & Lothrop	Pans, etc	6.05
	Hugh Reilly	Glass	2.60
	do	do	3.84
	do	do	5.31
	Edw. S. Schmid	Sprinkler	1.00
	E. G. Schafer & Co	Plumbing material	1.53
	do	do	2.99
	do	do	7.82
	M. Du Perow	Motors	42.00
	Wyckoff, Seamans & Benedict	Ribbons	2.75
	do	Typewriter and cover	92.25
	J. T. Walker Sons	Sand	2.50
	Ernest Betz	Plumbing	10.75
	do	Pans	9.00
	Library Bureau	Boxes	12.00
	Peter Henderson & Co	Labels	6.00
	Erker Bros. Optical Co	Supplies	29.15
	do	Kodak, etc	46.50
	The Kny-Scheerer Co	Glass	9.30
	Arthur H. Thomas Co	Micrometer	4.37
	do	Supplies	15.46
	Biscayne Lumber and Supply Co	Lumber	27.71
13	The American Distributing Co	Alcohol	29.00
	Bausch & Lomb Optical Co	Peroxide	.70

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## VEGETABLE PATHOLOGICAL INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Dec. 13	A. J. Myer .....	Salary .....	\$50.00
	Bausch & Lomb Optical Co. ....	Slides .....	16.73
	do .....	Tubing .....	35.97
15	Jno. S. Cole .....	Salary .....	24.20
	Nora M. Kelley .....	do .....	29.03
16	The W. W. Biggs Heating and Ventilating Co. ....	Placing radiators .....	273.00
17	H. von Schrenk .....	Expenses .....	86.89
18	Andrew M. Soule .....	do .....	27.00
	Elias S. Rivers .....	Cultivating cotton .....	50.00
	J. T. Walker Sons .....	Gravel and sand .....	2.60
	Ernest Betz .....	Tin dishes, etc .....	3.30
	Missouri Pacific Rwy. Co. ....	Transportation .....	4.83
19	Mackall Bros .....	Chemicals .....	4.07
	Chicago, Milwaukee and St. Paul Rwy. Co. ....	Passenger transportation .....	12.25
	Georgia R. R. Co. ....	do .....	13.40
	Grand Rapids and Indiana Rwy. Co. ....	do .....	17.84
	Ann Arbor R. R. Co. ....	do .....	1.93
	The Oregon Railroad and Navigation Co. ....	do .....	46.55
	Union Pacific R. R. Co. ....	do .....	20.45
	do .....	do .....	8.82
	do .....	do .....	3.89
	Oregon Short Line R. R. Co. ....	do .....	7.60
	Missouri, Kansas and Texas Rwy. Co. ....	do .....	1.55
	Denver and Rio Grande R. R. Co. ....	do .....	31.00
	The Cleveland, Akron and Columbus Rwy. Co. ....	do .....	11.00
	Chicago, St. Paul, Minneapolis and Omaha Rwy. Co. ....	do .....	6.40
	Missouri Lines Chicago, Burlington and Quincy Rwy. Co. ....	do .....	11.50
	Central Vermont Rwy. Co. ....	do .....	4.62
	Georgia Southern and Florida Rwy. Co. ....	do .....	5.17
	Illinois Central R. R. Co. ....	do .....	6.85
	Boston and Maine R. R. Co. ....	do .....	2.52
	The Atchison, Topeka and Santa Fe Rwy. Co. ....	do .....	17.15
	do .....	do .....	3.35
	Chicago and Northwestern Rwy. Co. ....	do .....	50.82
	do .....	do .....	13.02
	The Chicago and Alton Rwy. Co. ....	do .....	8.10
	do .....	do .....	6.30
	Grand Trunk Rwy. Co. ....	do .....	7.90
	do .....	do .....	4.88
	The Hocking Valley Rwy. Co. ....	do .....	12.27
	The Lake Shore and Michigan Southern Rwy. Co. ....	do .....	5.00
	Central of Georgia Rwy. Co. ....	do .....	7.81
	do .....	do .....	5.16
	The New York, New Haven and Hartford R. R. Co. ....	do .....	40.00
	Pennsylvania R. R. Co. ....	do .....	43.65
	Baltimore and Ohio R. R. Co. ....	do .....	15.92
	Washington Southern Rwy. Co. ....	do .....	14.55
	The Cleveland, Cincinnati, Chicago and St. Louis Rwy. Co. ....	do .....	14.35
	Pennsylvania Co. ....	do .....	8.50
	Northern Pacific Rwy. Co. ....	do .....	24.28
	do .....	do .....	64.53
	Pere Marquette R. R. Co. ....	do .....	2.42
22	Edw. M. Grinder .....	Bricks .....	36.80
	Ben Einstein .....	Radiator .....	19.12
	Chas. R. Edmonston .....	Bougies .....	12.00
	Peter H. Rolfs .....	Traveling expenses .....	22.20
	do .....	Expenses .....	104.66
27	Newton B. Pierce .....	do .....	195.08
	Houghton & Delano .....	Photographic supplies .....	42.63
31	H. von Schrenk .....	Salary .....	210.60
	Erwin T. Smith et al. ....	Salaries .....	3,585.92
	Total second quarter .....		26,125.00
1903.			
Jan. 2	Jno. S. Cole .....	Salary .....	25.80
3	Leslie A. Fitz .....	do .....	50.00
	E. G. Schollander .....	do .....	50.00
	J. B. Evans .....	do .....	50.00
	F. W. Faurot .....	do .....	60.00
	Mark B. Lacy .....	do .....	50.50
	Alfred Atkinson .....	do .....	50.00

112 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

VEGETABLE PATHOLOGICAL INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Jan. 3	Andrew M. Soule	Salary	\$25.30
	A. J. Meyer	do	50.00
	Nora M. Kelley	do	30.97
	P. H. Dorsett	do	189.55
	M. A. Carleton	Expenses	23.00
	C. O. Townsend	do	41.70
	George G. Hedgcock	Salary	80.90
5	W. B. Hamlin	Stakes, etc	32.01
	Bradley M. Davis	Office rent	100.00
	Perley Spaulding	Salary	40.40
	A. W. Edson	do	80.90
	S. W. Tracy	do	50.00
	Peter H. Rolfs	do	168.50
	N. B. Pierce	do	210.60
	Perley Spaulding	Traveling expenses	53.09
	A. W. Edson	Expenses	9.58
	Magruder & Alexander	Bricklaying	21.00
	Washington Railway and Electric Co	Car tickets	3.00
	National Mortar Co.	Cement	5.44
	The Geo. W. Knox Express Co	Transportation	.25
	Clark & Davenport	Shade	2.00
	Rudolph, West & Co	Rugs, etc.	5.84
	Potomac Electric Power Co	Current	16.61
6	J. W. Watson	Pumps, etc.	16.40
	Buxton & Skinner Stationery Co	Stationery supplies	7.10
	Wm. D. Lambert	Potatoes	3.00
	A. Buchs's Sons	Corn sheller	15.25
	A. M. Beckers Lumber Co.	Lumber	3.20
	N. B. Pierce	Expenses	61.27
	Mallinckrodt Chemical Works	Chemicals	6.24
	Christian Becker	Scales	28.00
8	Church & Stephenson	Lumber	3.75
	do	do	6.21
	do	do	17.53
10	A. W. Edson	Traveling expenses	102.50
	do	Expenses	11.35
12	Z. D. Gilman	Cotton, etc	24.48
	Wyckoff, Seamans & Benedict	Repairs to typewriter	19.00
	do	Ribbons	2.75
	Church & Stephenson	Lumber	18.43
	W. Silas Sheetz	Trays	4.40
	Thos. Somerville & Sons	Supplies	16.25
	do	Brass unions, etc	1.17
	Geo. F. Muth & Co.	Helio paper	1.80
	do	Asphaltum	1.33
	Newton B. Pierce	Traveling expenses	119.35
13	Welsbach Co	Mantles, etc	1.90
	do	do	.70
	do	Lamps	9.75
14	American Writing Machine Co	Typewriter paper	27.00
	C. P. Hartley	Traveling expenses	2.00
15	Henry Heil Chemical Co	Chemicals, etc	15.66
	do	do	15.00
	do	Demijohn, etc	19.06
	do	Dishes, etc	26.64
	do	Chemicals, etc	37.49
	Geo. B. Swafford	Lumber, etc	9.50
	Library Bureau	Cases	30.00
	Whitall Tatum Co	Cover glasses	4.00
	do	Slides, etc	6.39
	do	Tubes	12.50
	Eimer & Amend	Chemicals	16.69
	Erker Bros. Optical Co	Photographic supplies	27.15
	do	do	22.40
	Robt. A. Simpson	Traveling expenses	8.00
	J. B. Evans	do	50.50
	M. C. Jensen	Traveling expenses (October)	18.69
	do	Traveling expenses (September)	31.72
	B. M. Duggar	Traveling expenses	44.43
	H. von Schrenk	Traveling expenses (November)	14.60
	do	Expenses	25.45
	do	Traveling expenses	97.85
	do	Expenses	103.00
16	Nora Kelley	Traveling expenses	34.70
	Chas. W. Dabney	Report	400.00
	Daniel Hiser	Saucers	12.00
	Alex. Carlyle	Salary	50.00
	Perley Spaulding	Traveling expenses	13.10
20	W. A. Orton	Expenses	1.00
	Leighton Foundry Machine Co	Grate bars	9.00
	H. J. Webber	Expenses	21.75

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## VEGETABLE PATHOLOGICAL INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Jan. 21	The Maurice Joyce Engraving Co	Engraved plate	\$0.50
	Washington Gaslight Co	Gas, November	7.60
	do	Gas, December	7.50
	Barber & Ross	Nails	1.39
	A. Zichtl	File boxes	22.50
	Mackall Bros	Turpentine	1.50
	The Geo. W. Knox Express Co.	Transportation	3.13
	do	do	16.31
	W. Silas Sheetz	Photo supplies	7.10
22	J. T. Walker Sons	Cement	1.25
	Newton B. Pierce	Expenses	4.69
	Postal Telegraph Cable Co	Service	.35
	J. T. Walker Sons	Sand	1.25
	Blue Line Transportation Co.	Transportation	1.22
23	Henry A. Miller	Traveling expenses	11.90
24	Kansas City Southern Rwy. Co.	Passenger transportation	13.10
	The Chicago, Burlington and Quincy R. R. Co.	do	1.25
	Evansville and Terre Haute R. R. Co.	do	6.60
	The Minnesota and St. Louis R. R. Co.	do	12.30
	The Pecos Valley and Northeastern Rwy. Co.	do	3.00
	Cincinnati, New Orleans and Texas Pacific Rwy. Co.	do	5.25
26	Northern Pacific Rwy. Co.	do	7.15
	Delaware, Lackawanna and Western Rwy. Co.	do	4.35
	Chicago Great Western Rwy. Co.	do	6.65
	The Pecos Valley and Northeastern Rwy. Co.	do	29.20
	Burlington and Missouri River R. R. Co.	do	61.35
	Union Pacific R. R. Co.	do	29.79
	The Atchison, Topeka and Santa Fe Rwy. Co.	do	28.75
	do	do	34.89
27	M. B. Waite	do	58.26
	New York, New Haven and Hartford R. R. Co.	do	10.00
	Michigan Central R. R. Co.	do	24.41
	Southern Rwy. Co.	do	17.50
	Atlantic Coast Line R. R. Co.	do	4.35
	do	do	15.73
	do	do	11.20
	Baltimore and Ohio R. R. Co.	do	14.61
	do	do	23.50
	The Cleveland, Cincinnati, Chicago and St. Louis Rwy. Co.	do	15.25
	do	do	20.25
	Louisville and Nashville R. R. Co.	do	29.35
29	Merck & Co	Gold chloride	2.63
	E. W. D. Holway	Books	3.12
	D. J. Griffith	Rent, land	18.00
	J. W. Bunch	do	12.00
	T. V. Munson	Cultivation of cotton	50.00
	J. L. Coker	do	50.00
	Church & Stephenson	Lumber	20.00
	do	do	28.40
	Welsbach & Co	Stand	5.00
	American Writing Machine Co	Typewriter paper	27.00
	Louis Hartig	Steel	.63
31	Erwin T. Smith et al	Salaries	3,590.60
Feb. 2	A. W. Edson	Salary	82.70
	H. van Schrenk	do	215.30
3	Jno. C. Ran	Ventilating fans	74.90
	Houghton & Delano	Plates, etc.	13.93
	P. H. Dorsett	Salary	193.75
	Louis Hartig	Scales	71.00
	W. T. Swingle	Salary Nov.-Jan	566.70
4	P. Lequeux	Apparatus	58.28
	A. B. Seymour	Book	6.00
	H. C. Davison & Co	Copying books	14.62
5	Peter H. Rolfs	Salary	172.20
	R. A. Moore	do	6.00
	Alfred Atkinson	do	50.00
7	Woodward & Lothrop	Couch, etc	42.50
9	J. L. Sheldon	Salary	25.80
	United States Express Co.	Transportation	10.80
	Church & Stephenson	Lumber	1.80
	W. B. Moses & Sons	Chair, etc	9.35

*Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.*

## VEGETABLE PATHOLOGICAL INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Feb. 9	Mackall Bros	Chemicals	\$1.41
	do	do	4.45
	Geo. F. Muth & Co.	Brushes, etc.	14.65
	The Geo. W. Knox Express Co.	Transportation	9.69
	Blue Line Transfer Co.	do	.25
11	C. L. Shear	Traveling expenses	7.45
	J. T. Walker Sons	Gravel, etc.	13.60
	Geo. T. Moore	Traveling expenses	97.60
12	F. R. Holzmann	Salary	40.00
	R. H. True	Traveling expenses	1.00
	D. B. Swingle	Expenses	4.26
	Adams Express Co.	Transportation	90.13
14	Stark Bros. Nursery and Orchard Co.	Apple tree grafts	48.40
	S. M. Tracy	Traveling expenses	6.70
	Geo. G. Hedgcock	do	8.90
16	Phillip Lindemeyr	Card board	1.30
	Houghton & Delano	Plates, etc.	20.62
	Thomas Somerville & Sons	Brass reducer, etc.	2.11
	do	Brass unions, etc.	8.66
17	W. A. Orton	Expenses	24.75
	do	do	27.75
18	Houghton & Delano	Photo supplies	51.68
	The Fred. Macey Co. (Limited)	File sections	36.00
	United States Envelope Co.	Envelopes	24.33
	Marx Schaefer	Cultivation of cotton	30.00
	Emil Greiner	Thermometers	15.00
	The Colorado & Southern Rwy. Co.	Passenger transportation	4.30
	Christ. Christenson	Salary	40.00
	Newton B. Pierce	do	215.30
	Nashville, Chattanooga and St. Louis Rwy. Co.	Passenger transportation	4.60
19	Pennsylvania R. R. Co.	do	6.50
	do	do	7.26
	Central Vermont Rwy. Co.	do	3.15
	Southern Rwy. Co.	do	17.50
	do	do	17.50
	do	do	22.65
	The Chicago, Burlington and Quincy R. R. Co.	do	4.45
	Atlantic Coast Line R. R. Co.	do	25.67
	The Chesapeake and Ohio Rwy. Co.	do	16.00
	Pere Marquette R. R. Co.	do	1.39
	Maricopa and Phoenix Rwy. Co.	do	2.10
	Southern Pacific Co.	do	64.20
	Standard Oil Co.	Oil and can	1.35
20	Wm. Krafft	Microscope	305.25
	Church & Stephenson	Lumber	91.11
	Jno. C. Parker	Copying paper	12.70
	E. F. Vemillion	Inspecting boilers	5.00
	F. P. May & Co.	Measures	10.00
21	C. L. & Theo. Bering Co.	Cultivation of cotton	50.00
	E. O. Painter Fertilizer Co.	Fertilizers	42.40
	J. A. Mason	Cultivation of cotton	50.00
	A. C. Rowe	Fire extinguisher	12.00
	Wm. Krafft	Chemicals	9.23
	do	Cover glasses	2.00
	do	Photo gelatin	3.60
	Jas. Brodie	Cultivation of cotton	10.00
	The Maurice Joyce Engraving Co.	Engraving plates	1.00
	Z. D. Gilman	Chemicals, etc.	38.36
	Thos. Somerville & Sons	Plumbing supplies	3.91
	do	do	25.13
	do	Apparatus	195.00
24	T. R. Robinson	Expenses	4.49
	Wyckoff, Seamans & Benedict	Adjusting typewriter	13.75
25	M. Du Perow	Card, etc.	2.66
	E. G. Schafer & Co.	Pipe, etc.	1.53
	do	do	5.26
	Rudolph, West & Co.	Hardware	6.20
	do	Drawer pulls, etc.	20.30
	Jas. B. Lambie	Glue	2.50
	Karl F. Kellermann	Traveling expenses	7.30
28	Eugene F. Smith et al.	Salaries	3,244.37
Mar. 3	Robert Josselyn	Culture caps	24.00
	The Chesapeake and Potomac Telephone Co.	Service	12.50
	do	do	12.50
	Mary Brickell	Rent	30.00
	Patk. J. O'Gara	Salary	37.40
	Jno. S. Cole	do	50.00
	Alfred Atkinson	do	50.00
	Geo. G. Hedgcock	do	74.60



Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## VEGETABLE PATHOLOGICAL INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Mar. 3	Mark B. Lacy	Salary	\$46.60
	P. H. Dorsett	do	175.00
	H. von Schrenk	do	184.40
	F. W. Faurot	do	60.00
	Jonas E. Hite	do	25.00
	H. K. Mooney	do	25.00
	Elias Nelson	do	37.40
	Perley Spaulding	do	60.00
	Nora M. Kelley	do	60.00
	Caroline T. Rumbold	do	25.00
	Leslie A. Fitz	do	50.00
	E. G. Schallander	do	50.00
	Andrew M. Soule	do	23.40
4	A. W. Edson	do	74.60
	H. C. Henriksen	do	46.60
	Woodward & Lothrop	Mirror	1.35
	E. Morrison Paper Co.	Paper	7.20
	Bausch & Lomb Optical Co.	Disks.	.58
	do	do	6.86
5	Potomac Electric Power Co.	Current	18.19
	do	do	14.41
	do	do	19.45
	Hugh Reilly	Glass ground	.38
	The Geo. W. Knox Express Co.	Transportation	.70
6	F. R. Holzmann	Salary	40.00
	J. B. Evans	do	50.00
	A. J. Meyer	do	50.00
	L. H. McCullough	do	40.00
9	The Fyricide Manufacturing Co.	Extinguishers	45.00
	W. M. Hays	Salary	248.30
	Jno. L. Sheldon	do	23.40
	Albert C. Ames	do	60.65
	W. E. Lynch	Raising cotton	25.00
	J. W. Crampton	Cement work	38.50
	Ernest Betz	Chimney, etc.	3.00
11	W. Silas Sheetz	Mounts	1.10
	J. T. Walker Sons	Lime and cement	6.25
	R. Carter Ballantyne	Tags, etc.	25.71
	American Writing Machine Co.	Typewriter paper	54.00
12	M. B. Waite	Traveling expenses	79.37
14	L. L. Olds	Oats	1.45
	H. von Schrenk	Expenses	64.09
16	Newton B. Pierce	Traveling expenses	9.35
	do	do	51.21
	do	Expenses	165.00
	do	do	148.24
	S. H. Smith	Cultivating cotton	12.50
	T. W. Wood & Sons	Oats	8.00
	Dudley M. Hughes	Cultivating cotton	50.00
	Christian Becker	Weights	29.75
	E. F. Brooks & Co.	Piping, etc.	196.95
17	Eimer & Amend	Balance	16.50
	Whitall, Tatum Co.	Bottles, etc.	25.07
	do	do	4.86
18	M. Du Perow	Tubes	.63
	do	Socket	.17
	do	Electric motor	120.00
	The E. F. Brooks Co.	Plumbing	129.34
	Houghton & Delano	Photo work	65.00
	F. & J. K. Bishop Art Co.	Rotax	7.88
	R. C. Keenan	Cultivating cotton	394.33
	S. M. Tracy	Salary	50.00
	E. Bartholomew	Book	6.00
	A. A. Heller	Specimens fungi	4.10
	Jno. Frost	Plumbing	35.55
	The Californian Development Co.	Cultivating cotton	50.00
	Wm. Henry Maule	Oats	1.95
	The Okonite Co. (Limited)	Wire	.25
	W. W. Rawson & Co.	Oats	1.00
	Northrup, King & Co.	do	2.47
	Iowa Seed Co.	do	1.85
	A. A. Berry Seed Co.	do	.75
19	H. von Schrenk	Expenses	22.38
	Geo. T. Moore	Traveling expenses	158.60
	The Geo. W. Knox Express Co.	Transportation	3.05
	Jas. B. Lambie	Zinc	1.40
	Rudolph, West & Co.	Pulleys, etc.	9.85
	Hugh Reilly	Glass	3.10
	Mrs. A. A. Winfield	Beef and eggs	.57
	do	Salt	.10
	W. Silas Sheetz	Lantern slides	12.50

116 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

VEGETABLE PATHOLOGICAL INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Mar. 19	M. Lindsay Rubber Co	Packing	\$0.20
	do	do	.20
	E. Morrison Paper Co	Tags	6.30
	Ernest Betz	Tinning roof	12.00
	do	Iron stack	10.00
	Edw. S. Schmid	Watering pot, etc	3.10
	National Mortar Co	Cement	10.32
	J. T. Walker Sons	Sand	7.50
	Wyckoff, Seamans & Benedict	Ribbons	2.75
	E. G. Schafer & Co	Pipe and tees	1.31
	Barber & Ross	Nails, etc	3.98
20	Whitall Tatum Co	Graduates	1.37
	Wm. Krafft	Cover and slides	9.35
	The Foulds Milling Co	Macaroni	1.02
	Standard Oil Co	Oil	.60
	Merck & Co.	Chemicals	2.59
21	Peter H. Rolfs	Salary	155.60
	Warren M. Whyte	Labels	24.00
23	Newton B. Pierce	Salary	194.40
	The E. F. Brooks Co	Valves	13.08
	Ernest Betz	Labor	3.75
	Potomac Electric Power Co.	Current	16.14
	Peter H. Rolfs	Expenses	13.85
	B. M. Duggar	Traveling expenses	76.90
	Chas. Lentz & Sons	Grinding knives, etc	7.40
	Arthur H. Thomas Co	Incubators, etc	280.50
	Duparquet, Huot & Moneuse Co	Boiler	21.00
	W. Silas Sheetz	Photo material	114.40
	Forsberg & Murray	Boiler, etc	73.00
	C. O. Townsend	Expenses	20.00
24	The Fred Macey Co. (Limited)	Guides and folders	13.10
	E. J. Pullman	Plates, etc	3.24
	E. G. Schafer & Co.	Boiler, etc	31.07
25	Peter H. Rolfs	Expenses	65.11
	do	do	53.92
	Peter Henderson & Co	Harrow truck, etc.	26.50
	Church & Stephenson	Lumber	19.21
	do	do	9.60
	do	do	2.80
	Jno. Mitchell, jr	Pipe, etc	8.86
	Washington Railway and Electric Co.	Fare tickets	3.00
26	C. O. Townsend	Traveling expenses	3.65
27	The Okonite Co. (Limited)	Wire	4.00
	F. G. Tracy	Cultivation of cotton	100.00
	Peter Henderson & Co	Oats	13.60
	R. C. Keenan	Rent land	6.00
	do	Picking cotton, etc	24.25
	F. F. Collins	Cultivating cotton	50.00
	G. L. Tabor	Cultivating orange hybrids	150.00
31	Erwin F. Smith et al	Salaries	3,426.30
	Total third quarter		23,552.38
Apr. 1	F. R. Holzmann	Salary	40.00
	Elias Nelson	do	41.30
	Geo. G. Hedgecock	do	82.70
2	W. Atlee Burkee & Co	Oats and bags	2.67
	Guild & Garrison	Pump, etc	750.00
	Washington Gaslight Co	Gas	.40
	do	do	9.20
4	A. W. Edson	Salary	82.70
	C. L. Shear	Traveling expenses	71.15
	A. W. Edson	do	79.40
6	S. M. Tracy	Salary	50.00
	J. E. Hite	do	25.00
	Andrew M. Soule	do	25.80
	Leslie A. Fitz	do	50.00
	Nora M. Kelley	do	60.00
	L. H. McCullough	do	40.00
	Peter H. Rolfs	do	172.20
	Patk. J. O'Gara	do	41.30
	A. J. Meyer	do	50.00
	E. G. Schollander	do	50.00
	J. B. Evans	do	50.00
	Caroline T. Rumbold	do	25.00
	H. C. Henriksen	do	51.70
	Mark B. Lacy	do	51.70
	P. H. Dorsett	do	193.75
	Newton B. Pierce	do	215.30
	H. von Schrenk	do	215.30

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd

## VEGETABLE PATHOLOGICAL INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Apr. 6	Jno. S. Cole	Salary	\$50.00
	Jas. E. Converse	do	25.00
	F. W. Faurot	do	60.00
	H. K. Mooney	do	25.00
	Leslie A. Fitz	Traveling expenses	12.25
9	W. B. Moses & Sons	Bookcase, etc	185.30
	do	do	132.06
	J. Karr's Sons	Clock	7.50
	M. G. Copeland Co.	Awning	56.83
	Ernest Betz	Funnels	6.00
	do	Tin roof	28.00
	R. P. Clarke & Co.	Towelng	11.88
	Alfred Atkinson	Salary	50.00
	Chris. Christensen	Salary, February	40.00
	do	Salary, March	40.00
13	E. G. Schafer & Co	Pipe	19.32
	Hugh Reilly	Glass	.84
	E. Morrison Paper Co	Packets, etc	21.25
	Woodward & Lothrop	Furniture, etc	55.05
	Hugh Reilly	Glass	7.08
14	Arthur H. Thomas	Balance and weights	4.60
	Stark Bros. Nurseries and Orchards Co	Seedlings	16.83
	do	Grafts	13.28
	Washington Southern Rwy. Co	Transportation	2.35
	do	do	2.88
	Erker Bros. Optical Co	Scalpels, etc	20.50
	Stephen C. Dawley	Drayage	.25
	N. B. Pierce	Rent, gardens	375.00
	Perley Spaulding	Salary	60.00
	Alex. Carlyle	do	150.00
15	John L. Sheldon	do	25.80
17	Thos. Somerville & Sons	Valves, etc.	5.18
	do	do	1.75
	Barber & Ross	Oilstone, etc	2.90
	Z. D. Gilman	Chemicals	8.52
	Western Union Telegraph Co	Service	9.18
18	Karl F. Kellerman	Traveling expenses	6.40
	Chicago, Burlington and Quincy R. R. Co.	Passenger transportation	4.45
	The Wabash R. R. Co	do	15.66
	Pittsburgh, Cincinnati, Chicago and St. Louis Rwy. Co.	do	64.00
	Pennsylvania R. R. Co.	do	74.75
	Nashville, Chattanooga and St. Louis Rwy. Co.	do	9.20
	Pennsylvania R. R. Co.	do	12.25
	Rutland R. R. Co	do	6.00
	Oscar Erickson	Salary	20.65
	Louisville and Nashville R. R. Co	Passenger transportation	27.50
	Chicago, Rock Island and Pacific Rwy. Co.	do	4.54
20	L. H. McCullough	Traveling expenses	2.85
	M. B. Waite	Expenses	113.90
21	Whitall, Tatum Co	Glass tubing	1.80
	do	Tubes	2.16
	do	Bottles	4.58
	Bausch & Lomb Optical Co	Forceps, etc	140.71
	do	Slides, etc	68.69
22	Judd & Detweiler	Mats	3.75
	Houghton & Delano	Photographic supplies	35.00
	John C. Parker	Files	44.20
23	R. F. Zerman	Oil	15.38
	N. Lind	Salary	20.65
	A. C. Ames	do	40.00
	W. T. Swingle	do	368.75
	Robt. Josslyn	Culture caps	9.42
	Cambridge Botanical Supply Co.	Covers, etc	34.42
	Geo. G. Hedcock	Traveling expenses	5.00
	W. Silas Sheetz	Developing machine	11.60
	Southern Rwy. Co.	Passenger transportation	20.66
24	M. Du Perow	Fans	37.50
25	Wm. Rennie	Oats	6.65
	Geo. T. Moore	Traveling expenses	148.65
	Merck & Co	Chemicals	11.73
	Saginaw Ladder Co	Ladders	4.48
	Moore & Wood	Barrels	1.60
	Wm. Krafft	Paraffin	.95
	do	Apparatus	264.90
	Andrus & Church	Section paper	3.75
	L. Heinburger	Soda, etc	48.95
	Flossie M. Garner	Hemming towels	2.06
27	Florence L. Dacy	Salary	65.98

## 118 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

*Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.*

## VEGETABLE PATHOLOGICAL INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Apr. 27	Francis Miller	Paraffin oil	53.25
28	S. C. Wright	Hardware	47.23
	T. W. Wood & Son	Rice and oats	.35
	T. R. Robinson	Expenses	2.10
30	Erwin F. Smith et al	Salaries	3,483.85
May 1	Patk. J. O'Gara	Traveling expenses	139.99
	Alfred Atkinson	Salary	50.00
	E. G. Schollander	do	50.00
	Patk. J. O'Gara	do	39.60
	Geo. G. Hedgcock	do	79.10
	Caroline T. Rumbold	do	25.00
	Newton B. Pierce	do	206.00
	J. E. Hite	do	25.00
	Andrew M. Soule	do	24.70
	N. Lind	do	40.00
	Jas. E. Converse	do	25.00
	Elias Nelson	do	40.00
	Nora M. Kelly	do	60.00
	H. K. Mooney	do	25.00
	H. von Schrenk	do	206.00
	Perley Spaulding	do	60.00
	Mark B. Lacy	do	49.50
	P. H. Dorsett	do	185.45
	F. W. Faurot	do	60.00
2	Z. D. Gilman	Bell, glass, etc	42.64
	A. H. Thomas Co	Salary	41.06
	A. J. Meyer	Expenses	50.00
	H. von Schrenk	Salary	170.30
4	Peter H. Rolfs	do	164.80
	L. H. McCullough	do	40.00
	Jno. S. Cole	do	50.00
7	Sylvester Balz	do	55.00
	J. B. Evans	do	50.00
	Leslie A. Fitz	do	50.00
	H. C. Henriksen	do	49.50
	Postal Telegraph Cable Co	Services	.65
	Jas. B. Lambie	Belting	5.50
	Washington Gaslight Co	Gas	.30
	do	do	7.10
	Mackall Bros	Chemicals	23.95
	do	do	5.03
	Chesapeake and Potomac Telegraph Co	Services	.40
	United States Express Co	Transportation	18.98
	Potomac Electric Power Co	Current	14.85
	Church & Stephenson	Lumber	9.52
	Rudolph, West & Co	Brushes, etc	8.83
	Hugh Reilly	Glass	1.50
	Thos. Somerville & Sons	Plumbers' supplies	5.04
	do	Cement, etc	3.08
9	S. M. Tracy	Salary	50.00
	Theodore Gross	Potatoes	6.00
13	D. B. Swingle	Expenses	5.34
	Geo. T. Moore	Traveling expenses	153.00
	A. W. Edson	do	17.70
15	Perley Spaulding	do	16.60
	Peter H. Rolfs	do	53.60
	C. O. Townsend	Expenses	53.82
	do	do	3.00
	Perley Spaulding	Traveling expenses	36.45
	F. R. Holzman	Services	40.00
	George G. Hedgcock	Traveling expenses	22.05
	F. S. Earle	Cultivating cotton	50.00
16	District of Columbia Paper Mfg. Co	Blotters	3.23
	A. Zichtl	Zinc plates	26.00
	F. W. Bolgiano & Co.	Potatoes	6.00
	Houghton & Delano	Plates	20.94
	Wyckoff, Seamans & Benedict	Repairing typewriter	1.70
	Thos. Somerville & Sons	Pulleys, etc	22.36
	E. Morrison Paper Co	Paper	3.00
	The Maurice Joyce Engraving Co.	Zinc plates	1.20
	Chas. R. Edmonston	Buckets	2.65
	Z. D. Gilman	Razor strops	.45
18	Wm. Krafft	Repairing microscope	3.00
	Chas. L. Smith	Fungi	30.00
	Wolf Bros	Paper	35.60
	Hougen Milling Co	Flour	8.00
	A. R. Hiller	Fungi	3.20
	Frank T. Budge	Pipe	30.00
	do	Gates	30.00
	L. W. Holt	Cultivating cotton	50.00

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## VEGETABLE PATHOLOGICAL INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
May 18	H. von Schrenk .....	Traveling expenses .....	865.74
	Peter H. Rolfs .....	Expenses .....	41.03
	do .....	do .....	61.24
19	W. Silas Sheets .....	Photo supplies .....	56.70
	J. T. Walker Sons .....	Lime .....	4.80
20	Voigtlaender & Son Optical Co. ....	Lens .....	79.27
	Oswald Weigel .....	Fungi .....	4.20
22	Houghton & Delano .....	Plates, etc. ....	19.48
	Eker Bros. Optical Co .....	Photo supplies .....	43.60
25	Washington, Alexandria and Mount Ver- non Rwy. Co. ....	Car tickets .....	48.80
26	J. P. Nawrath .....	Sponge .....	1.49
29	Z. D. Gilman .....	Tubing, etc. ....	25.17
31	Erwin F. Smith et al. ....	Salaries .....	3,744.23
June 1	Geo. G. Hedgcock .....	Salary .....	81.80
	Leslie A. Fitz .....	do .....	50.00
	L. H. McCullough .....	do .....	40.00
	Peter H. Rolfs .....	do .....	170.40
	N. Lind .....	do .....	40.00
	Perley Spaulding .....	do .....	60.00
	H. C. Henriksen .....	do .....	51.00
	H. von Schrenk .....	do .....	213.00
	Newton B. Pierce .....	do .....	213.00
	P. H. Dorsett .....	do .....	191.60
	Mark B. Lacy .....	do .....	51.00
	Jno. L. Sheldon .....	do .....	24.70
	F. W. Faurot .....	do .....	60.00
2	J. E. Hite .....	do .....	25.00
	Henry K. Mooney .....	do .....	25.00
	Jas. E. Converse .....	do .....	25.00
	J. B. Evans .....	do .....	50.00
	Jno. S. Cole .....	do .....	50.00
3	Southern Rwy. Co. ....	Passenger transportation .....	74.60
	do .....	do .....	61.11
	Chicago, Rock Island and Pacific Rwy. Co. ....	do .....	9.15
	do .....	do .....	69.97
	Central of Georgia Rwy. Co. ....	do .....	4.42
	do .....	do .....	7.25
	do .....	do .....	13.14
	Galveston, Harrisburg and San Antonio Rwy. Co. ....	do .....	42.20
	The Wabash R. R. Co. ....	do .....	8.70
	New York, Texas and Mexican Rwy. Co. ....	do .....	3.80
	The Texas and Pacific Rwy. Co. ....	do .....	11.80
	do .....	do .....	15.00
	Atlantic Coast Line R. R. Co. ....	do .....	8.08
	do .....	do .....	9.60
	do .....	do .....	9.42
	Louisville and Nashville R. R. Co. ....	do .....	47.50
	Texas and New Orleans R. R. Co. ....	do .....	37.30
	Pere Marquette R. R. Co. ....	do .....	8.12
	Florida East Coast Rwy. Co. ....	do .....	47.20
	St. Louis and North Arkansas R. R. Co. ....	do .....	11.01
	St. Louis, Keokuk and Northwestern R. R. Co. ....	do .....	4.45
	Nashville, Chattanooga and St. Louis Rwy. Co. ....	do .....	4.60
	Houston and Texas Central R. R. Co. ....	do .....	7.25
	International and Great Northern R. R. Co. ....	do .....	5.20
	Boston and Maine R. R. Co. ....	do .....	3.85
	New York, New Haven and Hartford R. R. Co. ....	do .....	12.25
	do .....	do .....	29.50
	New York Central and Hudson River R. R. Co. ....	do .....	4.46
	Washington Southern Rwy. Co. ....	do .....	15.85
	The Chesapeake and Ohio Rwy. Co. ....	do .....	28.00
4	Alfred Atkinson .....	Salary .....	50.00
	A. J. Meyer .....	do .....	50.00
5	C. L. Shear .....	Traveling expenses .....	13.43
6	C. P. Hartley .....	Expenses .....	5.00
	M. B. Waite .....	Traveling expenses .....	56.78
9	W. A. Orton .....	do .....	120.98
	Washington Gaslight Co. ....	Gas .....	8.50
	H. J. Webber .....	Expenses .....	80.28
	do .....	Traveling expenses .....	48.32
	Jesse B. Norton .....	do .....	36.46
	M. B. Waite .....	do .....	52.40
	do .....	do .....	7.00
10	Thos. W. Smith .....	Screen cloth .....	1.10

## 120 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd

## VEGETABLE PATHOLOGICAL INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
June 10	Elias Nelson	Salary	\$40.00
	E. G. Schollenger	do	50.00
11	Walter T. Swingle	do	377.05
12	W. B. Moses & Sons	Stool	4.50
	Hugh Reilly	Lights	12.70
	do	1 gallon supremis	2.50
	Rudolph, West & Co.	Hinges, etc	15.49
	Thos. Somerville & Sons	Iron	.78
	M. B. Waite	Expenses	117.56
	Leslie A. Fitz	do	5.37
	Peter H. Rolfs	do	83.53
	do	Traveling expenses	4.60
13	S. M. Tracy	do	32.01
	H. C. Henriksen	do	6.35
	Sylvester Balz	Salary	55.00
	Caroline T. Rumbold	do	19.35
	F. R. Holzmann	do	40.00
	H. von Schrenk	Expenses	120.58
	do	do	180.57
	Z. D. Gilman	Lime	4.90
	R. Carter Ballantyne	Envelopes	8.48
	Thos. W. Smith	Screenings	8.44
	Woodward & Lothrop	Basins, etc	7.13
	Hugh Reilly	Glass lights	.96
	Herman Baumgarten	Font rubber type style	1.30
	Chas. B. Cropley	Corn planter, etc	30.00
16	L. McCullough	Traveling expenses	18.53
	H. J. Webber	do	11.70
17	Eimer & Amend	Glass trough, etc	30.63
	Whitall-Tatum Co.	Test tubes	9.57
	do	Bottles	15.00
	do	Flasks	1.94
	do	Jars, etc	55.62
	Library Bureau	Cases	20.00
	Bausch & Lomb Optical Co.	Slides, etc	46.22
	Frank T. Budge	Twine, etc	17.70
	do	Nails, etc	17.89
	S. M. Tracy	Salary	50.00
	The Hoggson and Pettis Manufacturing Co.	Copying cloth	9.00
19		Salary	54.19
20	Christ. Christenson	do	40.00
	do	do	40.00
	Carl O. Rund	do	20.00
	do	do	40.00
	The Okonite Co. (Limited)	Wire	8.00
	The Deming Co	Knapsack spongers	20.27
	Wm. Krafft	Sterilizer, etc	66.65
	W. W. Crosier	Lumber	31.42
	Stark Bros. Nursery and Orchard Co	Root grafts	22.70
	do	do	50.69
	Erker Bros. Optical Co	Prints, etc	47.70
	do	do	47.85
	Henry Heil Chemical Co	Scales, etc	19.85
	Chas. W. Meggenhofer	Micrographic stands	40.00
	Spencer Lenz Co	Mechanical stage, etc	45.10
	The Goulds Manufacturing Co	Knapsack pump	9.15
	Henry Lutz & Sons	Plum trees	10.00
	A. A. Heller	Fungi	1.20
	Brookes Fertilizer Co	Chemical	2.45
	Wm Krafft	Paraffin	2.70
	F. F. Collins	Baling and hauling cotton	43.00
22	S. C. Cissel	Mixer	45.00
	The Oliver Typewriter Co	Typewriter	75.00
	Houghton & Delano	Photo supplies	37.76
	Alex. Schmid	Boxes	7.50
23	E. G. Schafer & Co	Bibbs	.29
	do	Pipe, etc	.44
	do	Tees	10.13
	Whitall, Tatum & Co	Corks	8.71
	H. C. Davison & Co	Copying books	14.62
	Library Bureau	Cards	6.00
	Folmer & Schwing Manufacturing Co	Lens, etc	65.18
	E. Morrison Paper Co	Tin foil and paper	.45
	do	Letter scale	2.00
	do	Paper	8.25
	do	Folders for cotton seed	12.00
	do	Paper	16.50
	Potomac Electric Power Co	Current	.43
	do	do	1.84
	do	do	1.80

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

VEGETABLE PATHOLOGICAL INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
June 23	Potomac Electric Power Co	Current	\$14.10
	do	do	14.42
	E. J. Pullman	Slide plates	1.88
	do	Albumen plates	1.32
	do	Films	8.00
	M. Du Perow	Plugs, etc	1.94
	do	Fan motor	12.50
	do	Tubing, etc	28.48
	Thos. Somerville & Sons	Galvanized ells	8.31
	do	Apparatus	42.23
	W. Silas Sheetz	Metal plate	1.00
	do	Scale, etc	3.49
	do	Plate holders, etc	22.00
	Mackall Bros	Chemicals	2.35
	do	do	7.90
	Brentano	Maps	1.00
	do	do	.25
	J. T. Walker Sons	Lime	.60
	Clark & Davenport	Carpet	19.25
	The J. C. Ergood Co	Pearline, etc	3.62
	Rudolph, West & Co	Tacks, etc	15.66
	W. B. Moses & Sons	Window shades, etc	23.10
	F. W. Bolgiano & Co	Potash, etc	1.00
25	Washington Southern Rwy. Co	Transportation	7.97
	do	do	1.15
	J. B. Hoffman	Drayage	11.20
	Pennsylvania R. R. Co.	Transportation	.37
	Oswald Weigel	Fungi	71.00
	C. O. Townsend	Traveling expenses	123.70
	Washington Gaslight Co.	Gas	6.10
26	Galveston, Harrisburg and San Antonio Rwy. Co.	Passenger transportation	37.80
	The Chicago, Burlington and Quincy R. R. Co.	do	4.45
	do	do	17.80
	Pennsylvania R. R. Co.	do	6.50
	do	do	33.00
	Chicago and Alton Rwy. Co	do	8.95
	do	do	8.95
	The Yazoo and Mississippi Valley R. R. Co.	do	9.30
	Central of Georgia Rwy. Co	do	7.25
	Nashville, Chattanooga and St. Louis Rwy. Co.	do	4.60
	The Wabash R. R. Co	do	25.84
	Illinois Central R. R. Co.	do	22.75
	New York, New Haven and Hartford R. R. Co.	do	8.00
	Gulf, Colorado and Santa Fe Rwy. Co.	do	4.55
	Andrew M. Soule	do	25.60
29	Louisville and Nashville R. R. Co	do	4.93
	Southern Rwy. Co.	do	23.50
	Neely Electric Construction and Supply Co	Electric supplies	1.44
	P. H. Dorsett	Traveling expenses	31.95
30	Erwin T. Smith et al	Salaries	3,669.15
	Total fourth quarter		26,085.79
	<i>Supplemental.</i>		
July 2	P. H. Dorsett	Salary	185.45
	C. S. Shear	Traveling expenses	29.10
3	N. B. Pierce	Expenses	305.71
	do	Salary	206.00
	H. von Schrenk	do	206.00
	G. G. Hedgcock	do	79.10
	A. M. Soule	Expenses	73.00
	do	Salary	24.70
	F. W. Faurot	do	60.00
	Perley Spaulding	do	60.00
	Alfred Atkinson	do	50.00
	L. A. Fitz	do	50.00
	E. G. Schollander	do	50.00
	H. C. Henriksen	do	49.50
	M. B. Lacy	do	49.50
	L. H. McCullough	do	40.00
	N. Lind	do	40.00
	Elias Nelson	do	40.00
	J. L. Sheldon	do	25.60
	J. E. Hite	do	25.00
	H. K. Mooney	do	25.00

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## VEGETABLE PATHOLOGICAL INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
<i>Supplemental—Continued.</i>			
1903.			
July 3	J. E. Converse .....	Salary .....	\$25.00
	C. T. Rumbals .....	do .....	13.33
	P. H. Rolfs .....	Expenses .....	9.65
	do .....	Traveling expenses .....	16.25
	do .....	Salary .....	164.80
6	R. E. B. McKennedy .....	Traveling expenses .....	67.06
7	W. A. Orton .....	do .....	17.10
	do .....	do .....	16.85
10	Alex. Carlyle .....	Salary .....	150.00
	N. M. Kelley .....	do .....	56.00
	S. Balz .....	do .....	55.00
	J. L. Sheldon .....	do .....	24.70
	F. R. Holzman .....	do .....	40.00
	Chris. Christensen .....	do .....	40.00
	J. S. Cole .....	do .....	50.00
	A. J. Meyer .....	do .....	50.00
	J. B. Evans .....	do .....	50.00
	do .....	Traveling expenses .....	22.30
11	R. A. Moore .....	Salary .....	6.00
	G. T. Moore .....	Traveling expenses .....	114.01
	Perley Spaulding .....	do .....	15.10
	B. M. Duggar .....	do .....	95.49
	Ernest Betz .....	Making copper dish .....	8.00
	do .....	Skylight .....	57.00
13	Church & Stephenson .....	Lumber .....	14.50
	C. O. Townsend .....	Traveling expenses .....	14.11
	do .....	Expenses .....	33.07
14	G. P. Killian Co .....	Paper boxes .....	6.50
	A. W. Edsen .....	Traveling expenses .....	11.25
15	C. Becker .....	Weights .....	40.76
	Folmer & Schwing Manufacturing Co. ....	Camera .....	82.70
	Bausch & Lomb Optical Co .....	Photo supplies .....	36.71
	T. W. Smith .....	Wire screens .....	10.78
	W. T. Swingle .....	Salary .....	185.45
	The M. Lindsay Rubber Co .....	Gum .....	3.05
	J. S. Topham .....	Trunk .....	9.25
	J. L. Loose .....	Plants .....	4.00
16	The G. W. Knox Express Co .....	Transportation .....	.70
	do .....	do .....	.75
	Washington, Alexandria and Mount Ver- non Rwy. Co. ....	Trip tickets .....	6.10
	Z. D. Gilman .....	Chemicals .....	63.21
17	Washington Rwy. and Electric Co .....	Car tickets .....	5.00
	Church & Stephenson .....	Lumber .....	22.25
	L. C. Corbett .....	Traveling expenses .....	23.75
	do .....	do .....	16.00
18	J. McL. Dodson .....	Lime .....	33.50
	T. W. Smith .....	Wire screens .....	21.92
20	Eimer & Amend .....	Files .....	21.51
	Whitall, Tatum & Co .....	Bottles .....	6.54
	do .....	do .....	8.61
	E. S. Schmid .....	Tobacco dust .....	3.00
	Woodward & Lothrop .....	Jar rubbers .....	.30
21	Mackall Bros .....	Chemicals .....	461.20
	Rudolph, West & Co .....	Screws, etc .....	13.85
	E. J. Pullman .....	Plates .....	.88
22	Library Bureau .....	Guides .....	2.88
	A. H. Thomas Co .....	Sterilizer .....	8.63
23	Berger Bros .....	Copper box .....	5.00
	M. A. Carleton .....	Expenses .....	112.04
	N. B. Pierce .....	Rent of gardens .....	125.00
24	E. C. Chillicott .....	Salary .....	12.00
	J. W. Cardy .....	Ells, etc .....	20.05
	Schnieders Bros .....	Psychrometers .....	4.20
	F. G. Tracy .....	Planting cotton .....	50.00
	L. W. Holt .....	do .....	50.00
	Buxton & Skinner Stationery Co .....	Filing cases .....	26.80
	Erker Bros. Optical Co .....	Films, etc .....	23.20
	do .....	Photo supplies .....	47.00
	do .....	do .....	48.75
	C. R. Rockwood .....	Planting cotton .....	25.00
	The Carborundum Co .....	Carborundum crystal .....	1.25
	Wm. Krafft .....	Balsam .....	3.00
	do .....	Micrometer, etc .....	17.10
	J. F. Beck .....	Copper tank .....	3.00
	Perley Spaulding .....	Traveling expenses .....	54.10
	S. M. Tracy .....	do .....	8.44
	G. L. Taber .....	Rent, etc .....	150.00
25	E. O. Painter Fertilizer Co .....	Fertilizer .....	39.00



Expenditures of Department of Agriculture for year ending June 30, 1963—Cont'd.

## VEGETABLE PATHOLOGICAL INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
<i>Supplemental—Continued.</i>			
1963, July 25	M. B. McRae	Carpenter work	\$42.75
	W. S. Sheetz	Plates, etc.	12.96
	M. G. Copeland Co	Awnings	10.85
28	S. M. Tracy	Salary	50.00
29	H. A. Miller	Traveling expenses	14.90
	The Chesapeake and Potomac Telephone Co.	Service	6.25
	do	do	6.25
	Washington Gaslight Co.	Gas	7.70
	Potomac Electric Power Co	Current	17.23
	Norfolk and Washington Steamboat Co	Transportation	8.25
	Herman & Kohlbausch	Apparatus	102.20
	Whitall, Tatum & Co.	Test tubes	1.33
Aug. 1	C. O. Rund	Salary	40.00
	W. M. Hayes	do	201.70
4	M. Du Perow	Sockets, etc.	3.65
5	Delaware, Lackawanna and Western R. R. Co.	Passenger transportation	48.60
	L. A. McCullough	Traveling expenses	6.61
	W. A. Orton	Expenses	9.49
	do	do	7.00
10	J. McL. Dodson	Lime	7.80
	C. S. Kessler & Bros	Auto pumps	10.00
12	G. T. Moore	Expenses	35.00
	C. O. Townsend	do	31.75
	Thos. Somerville & Sons	Leather belting	14.13
13	K. F. Kellerman	Traveling expenses	4.20
14	P. H. Rolfs	Expenses	30.18
	H. von Schrenk	do	104.61
	B. M. Duggar	do	40.80
	J. B. Evans	Traveling expenses	14.50
15	F. W. Bolgiano & Co	Steel wheels	5.50
	W. B. Moses & Sons	Table, etc.	19.50
	do	Rugs	4.90
	Thos. Somerville & Sons	Valves, etc.	5.27
	C. P. Hartley	Traveling expenses	90.34
	The Blue Line Transfer Co	Transportation	4.42
	Adams Express Co	do	21.50
	Z. D. Gilman	Tubing	4.49
	A. A. Winfield	Sugar	.53
	Z. D. Gilman	Chemicals	34.22
	do	Tubing	1.18
17	Andrew J. Lloyd & Co	Speed tester	1.50
	Emil Greiner	Cells	1.40
	Charles Cooper Co	20 pounds sulphuric acid	3.00
	Field Force Pump Co	Spray nozzles	9.00
	Reasoner Bros	Palms	13.10
	A. C. Bowers	Lumber	40.38
	S. H. Pendleton	do	37.66
	S. C. Wright	Pipe, etc.	37.30
	William F. Lutz	Wagon	67.50
	W. E. Marvin	Cultivating alfalfa	25.00
	M. A. Howe	Bibliography cards	27.82
	Flint & Walling Manufacturing Co	Tank	66.33
	Arthur H. Thomas Co	Water bath	60.50
19	P. H. Rolfs	Expenses	86.50
	Newton B. Pierce	do	90.84
20	Houghton & Delano	Photographic supplies	54.75
21	C. P. Hartley	Expenses	66.88
	W. H. Dyer	Box	8.50
	The Fred. Macey Co. (Limited)	Sections	38.00
24	Joseph S. Chamberlain	Expenses	40
25	Mackall Bros	Chemicals	9.07
	W. Silas Sheetz	Camera, etc.	63.40
	do	Lens, etc	43.33
	P. H. Rolfs	Expenses	19.05
	do	do	38.00
27	Challenge Wind Mill and Feed Mill	Engine	320.00
	Thomas Somerville & Sons	Valve	13.50
	Church & Stephenson	Lumber	45.09
Sept. 1	Newton B. Pierce	Expenses	70.34
	H. J. Webber	do	116.00
3	L. A. Fitz	do	7.05
4	Hugh Reilly	Glass lights	9.62
	do	do	9.84
10	M. Du Perow	Desk fans	59.40
11	W. E. Dyer	Binders	12.00
18	D. B. Swingle	Expenses	3.43
	R. H. True	Traveling expenses	7.70

124 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

VEGETABLE PATHOLOGICAL INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
<i>Supplemental—Continued.</i>			
1903. Sept. 18	Western Union Telegraph Co .....	Telegraph service .....	\$20.11
	do .....	do .....	6.62
	Postal Telegraph Cable Co .....	do .....	.20
	Washington Southern Rwy. Co .....	Transportation .....	15.85
	do .....	do .....	13.95
	Pennsylvania R. R. Co .....	do .....	25.50
	do .....	do .....	48.65
	do .....	do .....	22.25
	Louisville and Nashville R. R. Co .....	do .....	14.79
19	Chicago, Rock Island and Pacific Rwy. Co .....	do .....	3.12
	Seaboard Air Line Rwy .....	do .....	5.65
	Florida East Coast Rwy .....	do .....	30.65
	Pennsylvania Co .....	do .....	10.50
	The Wabash R. R. Co .....	do .....	11.55
	The Chesapeake & Ohio Rwy. Co .....	do .....	29.00
	Southern Railway Co .....	do .....	58.86
	New York, Philadelphia and Norfolk R. R. Co .....	do .....	16.60
	Atlantic Coast Line R. R. Co .....	do .....	15.85
	do .....	do .....	24.46
	do .....	do .....	15.85
	do .....	do .....	7.25
	New York Central and Hudson River R. R. Co .....	do .....	3.56
	do .....	do .....	24.25
22	Pennsylvania R. R. Co .....	do .....	36.77
	do .....	do .....	.82
	Chesapeake and Ohio Rwy. Co .....	do .....	1.50
	do .....	do .....	10.44
	Washington Southern Rwy. Co .....	do .....	5.25
Oct. 5	B. M. Duggar .....	Services .....	237.23
9	W. W. Jackson .....	Pump, etc .....	9.70
10	Woodward & Lothrop .....	Towels, etc .....	22.63
	Thos. Somerville & Sons .....	Pipe, etc .....	35.80
	Z. D. Gilman .....	Beakers, etc .....	12.85
	Geo. F. Muth & Co .....	Cardboard .....	9.90
	do .....	Asphaltum, etc .....	3.00
	United States Express Co .....	Transportation .....	73.55
12	J. E. Hurley .....	Sprockets, etc .....	17.80
21	Bausch & Lomb Optical Co .....	Burner, etc .....	6.75
22	Stark Bros. Nurseries .....	Labor, etc .....	15.00
	Whitall, Tatum Co .....	Jars .....	65.22
31	St. Louis and San Francisco R. R. Co .....	Passenger transportation .....	7.20
	Baltimore & Ohio R. R. Co .....	do .....	23.25
	Rutland R. R. Co .....	do .....	7.63
	Southern Pacific Co .....	do .....	13.80
Nov. 4	C. O. Townsend .....	Expenses .....	39.20
	Total .....		8,579.55

RECAPITULATION.

First quarter .....	\$15,853.19
Second quarter .....	26,125.00
Third quarter .....	23,552.38
Fourth quarter .....	26,085.79
Supplemental .....	8,579.55
Total .....	100,195.91

VEGETABLE PATHOLOGICAL INVESTIGATIONS.

SETTLED BY TREASURY.

Date.	Name.	Nature of payment.	Total.
1903. Jan. 24	Southern Pacific Co .....	Passenger transportation .....	\$48.80
Mar. 4	do .....	do .....	21.50
Sept. 21	do .....	do .....	77.75
	California Rwy. Co .....	do .....	77.75
	Pennsylvania R. R. Co .....	do .....	77.00
	Total .....		302.80

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## VEGETABLE PATHOLOGICAL INVESTIGATIONS.

[Appropriation for 1902-3.]

Date.	Name.	Nature of payment.	Total.
1902.			
June 30	Erwin F. Smith et al .....	Salaries .....	\$2,418.95
	Total fourth quarter, 1902 .....		2,418.95
July 2	Chas. T. Curtis .....	Salary .....	5.00
	Perley Spaulding .....	do .....	40.00
	P. H. Dorsett .....	do .....	148.30
10	C. L. Shear .....	Traveling expenses .....	16.00
	Total first quarter, 1903 .....		209.30
Nov. 18	Baltimore and Ohio R. R. Co .....	Passenger transportation .....	8.00
	do .....	do .....	2.67
	Pennsylvania R. R. Co .....	do .....	6.00
	Total second quarter .....		16.67
1903.			
Jan. 5	Newton B. Pierce .....	Microscopic instruments, etc .....	168.38
15	H. C. Henriksen .....	Salary .....	50.50
	Alex. Carlyle .....	do .....	50.00
	L. H. McCullough .....	do .....	40.00
	F. R. Holzmann .....	do .....	40.00
	J. L. Sheldon .....	do .....	25.30
	Caroline T. Rumbold .....	do .....	25.00
23	Elias Nelson .....	do .....	40.40
Feb. 3	Mark B. Lacy .....	do .....	51.70
	Elias Nelson .....	do .....	41.30
	F. W. Faurot .....	do .....	60.00
	Perley Spaulding .....	do .....	60.00
	Nora M. Kelley .....	Services .....	60.00
	A. J. Meyer .....	Salary .....	50.00
	Jno. S. Cole .....	do .....	50.00
	E. G. Schollander .....	do .....	50.00
	Leslie A. Fitz .....	do .....	50.00
	J. E. Hite .....	do .....	25.00
	H. K. Mooney .....	do .....	25.00
	Caroline T. Rumbold .....	do .....	25.00
	Andrew M. Soule .....	do .....	25.80
5	Christ. Christensen .....	do .....	40.00
	L. H. McCullough .....	do .....	40.00
	S. M. Tracy .....	do .....	50.00
	Geo. G. Hedgcock .....	do .....	82.70
	H. C. Henriksen .....	do .....	51.70
	J. B. Evans .....	do .....	50.00
17	Eimer & Amend .....	Duty on polariscope .....	67.05
Mar. 12	M. B. Wait .....	Traveling expenses .....	48.22
	Total third quarter .....		1,443.05

## RECAPITULATION.

Fourth quarter, 1902 .....	2,418.95
First quarter, 1903 .....	209.30
Second quarter .....	16.67
Third quarter .....	1,443.05
Total .....	4,087.97

## VEGETABLE PATHOLOGICAL INVESTIGATIONS—RENT.

Date.	Name.	Nature of payment.	Total.
1902.			
Aug. 8	Tyler & Rutherford (Incorporated) .....	Rent .....	\$133.33
Sept. 2	do .....	do .....	133.33
	Total first quarter .....		266.66
Oct. 5	Tyler & Rutherford (Incorporated) .....	Rent .....	133.33
Nov. 5	do .....	do .....	133.33
Dec. 12	do .....	do .....	133.33
	Total second quarter .....		399.99

126 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

VEGETABLE PATHOLOGICAL INVESTIGATIONS—RENT—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Jan. 12	Tyler & Rutherford (Incorporated)	Rent	\$133.33
Feb. 19	do	do	133.33
Mar. 16	do	do	133.33
	Total third quarter		399.99
Apr. 4	Tyler & Rutherford (Incorporated)	Rent	133.33
May 2	Amanda E. Brown	Rent, Sept. 1, 1902, to Apr. 30, 1903	240.00
21	Tyler & Rutherford (Incorporated)	Rent	133.33
June 13	do	do	133.33
	Total fourth quarter		639.99
	<i>Supplemental.</i>		
July 24	Tyler & Rutherford (Incorporated)	Rent	133.33
Aug. 7	A. E. Brown	do	60.00
	Total		193.33

RECAPITULATION.

First quarter	\$266.66
Second quarter	399.99
Third quarter	399.99
Fourth quarter	639.99
Supplemental	193.33
Total	1,899.96

POMOLOGICAL INVESTIGATIONS.

Date.	Name.	Nature of payment.	Total.
1902.			
July 12	H. P. Gould	Traveling expenses	\$7.15
16	Schneider Bros	Thermometers, etc	6.50
17	E. Morrison Paper Co.	Dodgers	11.88
	do	Tissue paper	.70
	E. J. Pullman	Tripod, etc	113.44
19	W. A. Taylor	Traveling expenses	24.60
	Geo. C. Hussman	do	29.75
25	J. T. Walker Sons	Lime	1.50
	E. J. Pullman	Kodak	5.40
	do	Flash lights, etc	5.82
	Frank B. Read	Fruit paper	2.00
	do	Fruit wraps	27.50
26	G. Harrold Powell	Traveling expenses	7.55
	W. A. Taylor	do	8.27
	H. P. Gould	do	10.78
	Theodor Leonhard	Beeswax	27.00
	Draper Manufacturing Co.	Charts	1.44
28	United States Envelope Co.	Envelopes	2.82
	do	do	12.60
30	H. P. Gould	Traveling expenses	12.51
	do	do	11.15
31	Wm. A. Taylor et al	Salaries	1,517.95
Aug. 4	Daniel Hiser	Pots	18.00
	G. H. Powell	Traveling expenses	34.78
	Draper Manufacturing Co.	Thermometers	50.00
6	H. P. Gould	Traveling expenses	14.10
	G. H. Powell	do	19.56
	E. J. Pullman	Photographic plates	4.98
	do	Solio print	.15
	R. P. Andrews & Co.	Paper	3.75
	do	Labels	.65
	do	Blotters	3.75
8	Mackall Bros	Sulphate copper	1.63
	Rudolph, West & Co.	Handles, etc	1.35
	Woodward & Lothrop	Ice cooler	3.87
	E. P. Schmitz	Bowls, etc	2.30
	C. C. Pursell	Books	5.40
11	Lamb & Tilden	Pads	3.25
14	H. P. Gould	Traveling expenses	12.50
	G. H. Powell	do	10.10
	W. B. Moses & Sons	Matting, etc	44.35

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## POMOLOGICAL INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Aug. 16	Yawman & Erbe Manufacturing Co.	Cards	87.95
	F. B. Read	Fruit paper	25.00
18	Southern Rwy Co.	Passenger transportation	16.50
	Washington Southern Rwy Co.	do	10.50
23	Julien P. Frieze	Thermographs	67.00
25	G. Harrold Powell	Traveling expenses	5.05
26	E. Morrison Paper Co.	Bags	7.50
	W. Silas Sheetz	Chemicals	1.35
	Jno. C. Parker	File case	10.00
	E. J. Pullman	Photographic supplies	2.90
	Blue Line Transfer Co.	Transportation	.60
28	Geo. C. Husmann	Traveling expenses	52.47
30	G. H. Powell	do	12.55
	W. A. Taylor et al.	Salaries	1,598.71
Sept. 3	Wolf Bros.	Envelopes	8.90
8	E. J. Pullman	Prints	1.20
	W. A. Taylor	Traveling expenses	49.76
18	Pennsylvania R. R. Co.	Passenger transportation	22.57
	do	do	19.86
	Seaboard Air Line R. R. Co.	do	31.10
20	G. H. Powell	Traveling expenses	3.40
24	Wm. A. Taylor	do	12.40
30	W. A. Taylor et al.	Salaries	1,701.60
	Total first quarter		5,751.65
Oct. 3	G. Harrold Powell	Traveling expenses	79.96
	S. H. Fulton	do	97.48
10	G. B. Brackett	do	10.05
	E. C. Butterfield	do	5.00
	S. H. Fulton	do	16.60
	H. P. Gould	do	70.33
	Wm. A. Taylor	Expenses	139.30
	do	do	80.32
21	Yawman & Erbe Manufacturing Co.	Binding cases	19.50
	E. J. Pullman	Tripod	2.00
	do	Photographic supplies	2.00
	do	Plates	4.40
	W. Silas Sheetz	Photographic supplies	8.98
	Wesley Webb	Specimens	15.00
22	Houghton & Delano	Seed plates	6.93
	M. Marx Bennett	Paintings	10.00
27	G. H. Powell	Traveling expenses	11.44
	do	do	10.31
	do	do	14.17
	H. P. Gould	do	123.30
	do	do	3.67
	Hugh Reilly	Glass	23.00
	R. P. Andrews & Co. (Incorporated)	Fruit wraps	10.00
	E. Morrison Paper Co.	Newspaper wraps	11.25
	Alex. Schmid	Boxes	19.00
	S. H. Fulton	Traveling expenses	15.64
	do	do	4.70
28	F. Newhall & Sons	Apples	39.00
29	M. Du Perow	Tube, etc.	7.66
	Jno. C. Parker	Case	3.50
	W. B. Moses & Sons	Tables	2.70
31	Wm. A. Taylor et al.	Salaries	1,744.45
Nov. 1	H. B. Wayland	Apples	54.00
	G. G. Hutchings	do	5.63
	M. Reeks	do	13.20
	Edwd. Hutchins	do	20.00
	The J. B. Orcutt Co.	Crates	9.92
	J. W. Rockwell	Boxes	6.25
	J. F. Taylor	Apples	21.66
	Wolf Bros.	Envelopes	2.97
	Montgomery Door and Box Co.	Boxes	14.00
	do	Boxes, etc.	101.85
	Reading Terminal Market	Pears	7.00
	do	Storage	6.80
	G. H. Rivenburg & Co.	Freight	9.20
	do	do	9.10
	do	do	10.65
	T. A. Farrand	do	6.02
	W. T. Flournoy	Apples	2.00
3	Lamb & Tilden	Stencil plate and letters	1.65
	Hugh Reilly	Shellac and brushes	1.30
	R. P. Andrews & Co. (Incorporated)	Paper	1.60
	do	do	1.60
	do	Fruit wraps	10.00

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## POMOLOGICAL INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Nov. 3	R. P. Andrews & Co, (Incorporated)	Fruit wraps	\$10.00
	do	do	10.00
	E. Morrison Paper Co	do	7.50
	do	do	7.50
	do	do	2.88
	E. J. Pullman	Cards	103.84
	do	Camera, etc	5.40
	do	Films	9.75
	do	Silver prints, etc	.95
	do	Rubber cloth	9.58
	do	Hinges, etc	.35
4	Rudolph, West & Co	Transportation	.35
	The Geo. W. Knox Express Co	do	.35
5	Frank B. Read	Fruit wraps	70.65
	G. Harrold Powell	Traveling expenses	.94
	do	do	29.58
7	W. D. Bigelow	Transportation	1.00
10	Wolf Bros	Envelopes	4.45
	Geo. H. McKay	Freight	13.23
13	W. H. Rupp, estate of	Desk pad	.60
	do	do	.75
	E. J. Pullman	Plates	4.00
	do	Powders, etc	.40
	Church & Stephenson	Lumber	20.25
17	F. A. Waugh	Freight	1.59
	Hartford Cold Storage Co	Storing fruit	22.05
	Grant G. Hutchins	Apples	156.25
	W. T. Mann	do	14.00
	Julien P. Frieze	Pens	4.50
	Jno. R. Galloway	Annunciator	4.00
	Collateral Loan and Jewelry Co	Gripsack	.69
	Chas. Wright	Peaches	50.00
	Barber & Ross	Stepladder	1.75
	M. Du Perow	Buttons	.45
	Jas. B. Lambie	Label holders	6.20
	Geo. F. Muth & Co	Diamond plaster	2.75
	Wm. A. Taylor	Traveling expenses	12.19
	do	do	101.12
18	Lehigh Valley R. R. Co.	Passenger transportation	11.20
	Maricopa, Phoenix and Salt River Valley R. R. Co.	do	4.00
	Southern California Rwy. Co.	do	4.75
	New York Central and Hudson River R. R. Co.	do	8.50
	do	do	11.28
	Seaboard Air Line Rwy. Co	do	24.65
	Southern Rwy. Co	do	11.75
	Michigan Central R. R. Co	do	7.00
	do	do	13.50
	Baltimore and Ohio R. R. Co	do	25.45
	do	do	12.78
	New York, New Haven and Hartford R. R. Co.	do	4.40
	The Pennsylvania R. R. Co.	do	24.44
	The Chesapeake and Ohio Rwy. Co	do	152.30
	do	do	20.20
	Central of Georgia Rwy. Co.	do	19.35
	do	do	3.48
	Central New England Rwy. Co.	do	1.65
	Central R. R. Co. of New Jersey	do	6.50
19	Mrs. Geo. E. Boggs	Apples, etc	11.50
	W. B. Moses & Sons	Hassocks	1.50
20	The Pennsylvania R. R. Co.	Passenger transportation	12.83
	do	do	34.47
22	E. J. Pullman	Solio prints	1.94
	S. H. Fulton	Traveling expenses	28.05
	G. H. Rivenburg & Co	Transportation	9.20
	Yawman & Erbe Manufacturing Co	Cards	23.50
29	W. A. Taylor et al	Salaries	1,654.60
Dec. 1	G. H. Powell	Traveling expenses	12.18
2	Grant G. Hitchings	Apples	4.38
3	Missouri Pacific Rwy. Co	Passenger transportation	.85
	Central Rwy. Co. of New Jersey	do	2.50
	do	do	2.50
5	E. Morrison Paper Co	Herbarium paper	5.50
	The Maurice Joyce Engraving Co	Stamps	1.00
	The Smith Premier Typewriter Co	Copyholder	2.00
8	Geo. J. Dodd	Apples	11.00
	S. L. Lupton	Apples and pears	55.00
	Geo. H. Rivenburg	Freight	10.50
	Reading Terminal Market Co	do	8.25

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

POMOLOGICAL INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Dec. 10	W. B. Moses & Sons.....	Hassocks and shades.....	\$3.30
11	W. A. Taylor.....	Expenses.....	115.00
12	W. M. French.....	Freight.....	14.00
19	Pennsylvania R. R. Co.....	Passenger transportation.....	1.85
	do.....	do.....	43.19
	Baltimore and Ohio R. R. Co.....	do.....	2.88
	New York Central and Hudson River R. R. Co.....	do.....	1.78
	Southern Rwy. Co.....	do.....	26.50
	New York, New Haven and Hartford R. R. Co.....	do.....	20.84
	The Lake Shore and Michigan Southern Rwy. Co.....	do.....	13.50
31	G. Harold Powell.....	Traveling expenses.....	29.65
	W. A. Taylor et al.....	Salaries.....	1,701.29
	Total second quarter.....		7,857.24
1903.			
Jan. 3	Geo. C. Husmann.....	Traveling expenses.....	292.10
5	S. H. & E. H. Frost.....	Transportation.....	14.63
	do.....	do.....	15.82
	do.....	do.....	21.19
	do.....	do.....	41.59
	S. H. Derby.....	Pears.....	1.40
	do.....	Apples.....	80.37
	do.....	Pears.....	679.71
	The Bunnell Telegraph and Electric Co.....	Wire.....	.63
	The Geo. W. Knox Express Co.....	Transportation.....	1.82
6	Western Cold Storage Co.....	Storage, etc.....	16.79
	F. M. Bradley.....	Pears, etc.....	27.33
	Reading Terminal Market.....	Freight, etc.....	1.01
	H. W. Miller.....	Peaches.....	20.80
	C. W. Nicholds.....	Box shooks.....	2.85
12	W. B. Moses & Sons.....	Typewriter cover.....	1.00
	Clark & Davenport.....	Carpets, etc.....	183.42
	Wyckoff, Seamans & Benedict.....	Repairs to typewriter.....	14.50
14	G. Harold Powell.....	Traveling expenses.....	4.30
	S. H. Fulton.....	do.....	14.40
15	East Shore of Virginia Produce Exchange.....	Potatoes.....	123.75
	A. A. Boggs.....	Apples.....	5.00
	J. H. Hale.....	Carriers.....	62.90
	S. H. Derby.....	Apples, etc.....	15.70
	Z. A. Gilbert.....	do.....	5.00
	Yawman & Erbe Manufacturing Co.....	Cards.....	25.25
	Fred L. Bradley.....	Apples.....	81.02
17	G. Harold Powell.....	Traveling expenses.....	6.40
19	W. K. Wonders.....	Salary.....	13.04
20	J. H. Hale.....	Peaches.....	267.54
	Chas. Quartley.....	Slides.....	7.50
22	Postal Telegraph Co.....	Service.....	3.47
	Blue Line Transfer Co.....	Transportation.....	4.96
24	Georgian Railroad.....	Passenger transportation.....	3.75
	Philadelphia and Reading Rwy. Co.....	do.....	2.50
	Atlantic City R. R. Co.....	do.....	1.00
26	The Lake Shore and Michigan Southern Rwy. Co.....	do.....	26.00
	New York Central and Hudson River R. R. Co.....	do.....	2.40
	Southern Pacific Co.....	do.....	7.00
	The Yazoo and Mississippi Valley R. R. Co.....	do.....	6.00
27	Michigan Central R. R. Co.....	do.....	14.95
	New York, New Haven and Hartford R. R. Co.....	do.....	2.25
	Baltimore and Ohio R. R. Co.....	do.....	4.00
	do.....	do.....	18.57
	The Cleveland, Cincinnati, Chicago and St. Louis Rwy. Co.....	do.....	16.00
	Louisville and Nashville R. R. Co.....	do.....	16.09
29	J. A. Ballinger.....	Potatoes.....	83.75
	Jno. J. Ross.....	do.....	30.00
	Wyckoff, Seamans & Benedict.....	Typewriter.....	40.00
31	Wm. A. Taylor et al.....	Salaries.....	1,805.55
Feb. 3	Whitford Bros. & Co.....	Apples.....	16.50
4	S. H. & E. H. Frost.....	Export charges.....	17.30
7	Woodward & Lothrop.....	Desk.....	17.25
9	United States Express Co.....	Transportation.....	4.95
	E. J. Pullman.....	Printing.....	.64
	do.....	Flash sheets.....	1.50

130 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

POMOLOGICAL INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Feb. 9	E. Morrison Paper Co	Manila paper	\$2.50
11	Edw. S. Schmidt	Manure	2.00
	Yawman & Erbe Manufacturing Co	Guides	4.00
12	Adams Express Co	Transportation	31.60
16	Hy. S. Chaffee	Pecans, etc.	38.73
	G. H. Powell	Traveling expenses	17.40
	S. H. & E. H. Frost	Apples	17.40
	Theo. Leonhard	Beeswax	27.00
17	Lamb & Tilden	Wheel for dater	1.10
18	The Oregon Railroad and Navigation Co	Passenger transportation	10.50
19	Baltimore and Ohio R. R. Co	do	17.00
	Pennsylvania R. R. Co	do	43.70
	Atlantic Coast Line R. R. Co	do	24.00
	Terre Haute and Indianapolis R. R. Co	do	19.00
	Atchison, Topeka and Santa Fe Rwy. Co.	do	23.62
	W. Silas Sheetz	Scales, etc.	4.50
20	S. H. & E. H. Frost	Freight charges	36.70
21	E. J. Pullman	Paper	.15
	do	Prints	7.12
24	G. Harold Powell	Traveling expenses	6.61
28	Silas Wilson	Seedlings	2.25
Mar. 3	Wm. A. Taylor et al	Salaries	1,626.40
	S. H. & E. H. Frost	Freight on pecans	39.25
	The Chesapeake and Potomac Telephone Co.	Service	6.25
	do	do	6.25
	do	do	6.25
	do	do	6.25
5	The Geo. W. Knox Express Co	Transportation	5.90
	Jas. B. Lambie	Label holders	.60
11	Wm. A. Taylor	Expenses	1.80
	do	do	15.22
	Darius E. Burton	Wire	.40
	W. Silas Sheetz	Plates	12.23
14	S. H. & E. H. Frost	Transportation	34.75
16	J. A. Ballinger	Sweet potatoes	117.50
	S. H. & E. H. Frost	Transportation	44.90
	Geo. T. Powell	Apples	201.75
	G. Harold Powell	Traveling expenses	16.15
19	The Geo. W. Knox Express Co	Transportation	2.10
23	S. H. Fulton	Traveling expenses	33.40
27	Wyckoff, Seaman & Benedict	Adjusting typewriter	8.20
31	W. A. Taylor et al	Salaries	1,743.89
	Total third quarter		8,461.46
Apr. 2	Edw. S. Schmidt	Labels	1.20
6	W. A. Taylor	Traveling expenses	23.06
7	Jas. S. Topham	Strap	.75
13	Woodward & Lothrop	Chair cushions	2.50
	M. Du Perow	Buzzer and button	.50
17	Densmore Typewriter	Repairs	1.25
	R. P. Andrews & Co. (Incorporated)	Chamois bags	1.57
	do	Tag labels	.80
18	Baltimore and Ohio R. R. Co	Passenger transportation	7.99
	Pennsylvania R. R. Co	do	22.40
	Southern Pacific Rwy. Co.	do	4.90
	Pennsylvania R. R. Co	do	4.00
25	G. Harold Powell	Traveling expenses	26.57
	The Draper Manufacturing Co.	Thermometer chart	.72
30	Wm. A. Taylor et al	Salaries	1,675.32
May 7	G. C. Hussmann	Traveling expenses	142.10
8	E. J. Pullman	Prints	8.64
	The M. Lindsay Rubber Co.	Packing	.75
	Adams Express Co	Transportation	16.15
	Clark & Davenport	Typewriter attachment	10.50
	United States Express Co	Transportation	2.90
	R. P. Andrews & Co. (Incorporated)	Chamois skin	3.88
	Postal Telegraph-Cable Co	Service	1.59
13	G. Harold Powell	Traveling expenses	13.05
16	Clark & Davenport	Hassocks, etc.	3.75
18	H. P. Gould	Traveling expenses	54.14
	The Randolph Paper Box Co	Cases	14.04
20	E. J. Pullman	Photo supplies	1.68
23	W. A. Taylor	Traveling expenses	10.20
	H. P. Gould	do	31.88
29	J. C. Parker	Repairs	4.65
31	W. A. Taylor et al	Salaries	1,779.62
June 3	Southern Rwy. Co.	Passenger transportation	77.00
	Atchison, Topeka and Santa Fe Rwy. Co.	do	5.90



## EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE. 131

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## POMOLOGICAL INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
June 3	Southern Pacific Co.....	Passenger transportation.....	\$3.10
	The Texas Pacific Rwy. Co.....	do.....	3.10
	Pennsylvania R. R. Co.....	do.....	59.20
	Morgan's Louisiana and Texas Railroad and Steamship Co.....	do.....	2.40
	do.....	do.....	3.60
	Baltimore and Ohio R. R. Co.....	do.....	2.88
	New York Central and Hudson River R. R. Co.....	do.....	2.96
5	The Pierce-Williams Co.....	Berry crates.....	18.75
	South Side Manufacturing Co.....	do.....	16.00
6	William A. Taylor.....	Expenses.....	53.96
9	Wagner Typewriting Co.....	Typewriter.....	87.50
10	Barber & Ross.....	Hasps.....	.60
	E. Morrison Paper Co.....	Paper.....	5.50
	W. Silas Sheetz.....	Chemicals.....	.80
12	W. B. Moses & Sons.....	Shades.....	5.00
	E. J. Pullman.....	Prints.....	4.18
16	G. Harold Powell.....	Traveling expenses.....	51.95
19	G. Marshall Woodrow.....	Manuscript.....	24.33
20	The Bennett Telephone and Electric Co.....	Wire.....	.48
22	The Hammond Typewriter Co.....	Mimeograph.....	16.00
23	Potomac Electric Power Co.....	Repairs to lamp.....	.20
	E. J. Pullman.....	Photo supplies.....	2.75
	do.....	do.....	9.58
	M. Du Perow.....	Desk fan.....	9.90
	do.....	do.....	9.90
	Rudolph, West & Co.....	Ice pick.....	.65
	W. Silas Sheetz.....	Blueprint.....	1.05
25	Jas. S. Topham.....	Repairs.....	.75
26	Pennsylvania R. R. Co.....	Passenger transportation.....	28.90
	New York, New Haven and Hartford R. R. Co.....	do.....	2.75
	Central R. R. Co. of New Jersey.....	do.....	6.50
	The Wabash R. R. Co.....	do.....	26.00
29	Baltimore and Ohio R. R. Co.....	do.....	9.90
	Washington Southern Rwy. Co.....	do.....	22.65
30	W. A. Taylor et al.....	Salaries.....	1,648.65
	Total fourth quarter.....		6,098.37
	<i>Supplemental.</i>		
July 2	Geo. H. Powell.....	Traveling expenses.....	12.08
	H. P. Gould.....	do.....	91.02
	G. C. Hussmann.....	do.....	60.55
17	W. A. Taylor.....	Expenses.....	112.60
18	G. P. Beveridge.....	Fence posts.....	75.00
	Alex. Schmidt.....	Mailing boxes.....	14.25
20	The Hammond Typewriter Co.....	Stand.....	3.50
	W. S. Sheetz.....	Glasses.....	.15
	do.....	Chemicals.....	3.00
	do.....	Tripod.....	4.40
24	J. C. Parker.....	Letter press.....	39.97
25	South Side Manufacturing Co.....	Panel ends.....	29.00
	do.....	Baskets.....	9.60
	Fred Macey Co. (Limited).....	Report sections.....	28.00
	W. S. Sheetz.....	Blue-print paper.....	7.04
	do.....	Plates.....	10.56
	Church & Stephenson.....	Lumber.....	36.21
	Wm. A. Taylor.....	Traveling expenses.....	14.00
	do.....	Expenses.....	98.66
Aug. 4	M. Du Perow.....	Cord.....	2.50
15	W. B. Moses & Sons.....	Chair.....	5.16
	do.....	do.....	5.90
	Hugh Reilly.....	Shellac, etc.....	1.15
	The Geo. W. Knox Express Co.....	Transportation.....	3.27
	E. Morrison Paper Co.....	Fruit wraps.....	10.80
	do.....	Newspaper dodgers.....	19.98
17	The South Side Manufacturing Co.....	Carriers.....	29.00
	The Randolph Paper Box Co.....	Pamphlet cases.....	23.00
	Yawman & Erbe Manufacturing Co.....	Table.....	4.25
	do.....	Cardcase, etc.....	23.00
21	Western Union Telegraph Co.....	Telegraph service.....	71.09
Sept. 18	do.....	do.....	47.66
	Postal Telegraph-Cable Co.....	do.....	1.02
	Washington Southern Rwy. Co.....	Passenger transportation.....	6.05
19	Seaboard Air Line Rwy.....	do.....	32.65
	Southern Rwy. Co.....	do.....	18.50
	Atlantic Coast Line R. R. Co.....	do.....	11.60

132 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

POMOLOGICAL INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
<i>Supplemental—Continued.</i>			
1903. Sept. 19	Georgia Southern and Florida Rwy .....	Passenger transportation .....	\$11.40
	Lehigh Valley R. R. Co.....	do .....	9.33
Oct. 10	Geo. F. Muth & Co.....	Sundries.....	2.75
23	The Fred Macey Co. (Limited).....	Sections, etc.....	48.50
26	Wm. A. Taylor.....	Expenses.....	172.90
31	St. Louis and San Francisco R. R. Co.....	Passenger transportation.....	30.25
	Baltimore and Ohio R. R. Co.....	do .....	28.20
	Total.....		1,269.50

RECAPITULATION.

First quarter.....	\$5,751.65
Second quarter.....	7,857.24
Third quarter.....	8,461.46
Fourth quarter.....	6,098.37
Supplemental.....	1,269.50
Total.....	29,438.22

SETTLED BY TREASURY.

Date.	Name.	Nature of payment.	Total.
1903. Jan. 24	Southern Pacific Co.....	Passenger transportation.....	\$25.50
July 14	do.....	do .....	6.10
28	do.....	do .....	89.95
	Total.....		121.55

BOTANICAL INVESTIGATIONS AND EXPERIMENTS.

1902. July 10	F. V. Coville.....	Traveling expenses.....	\$7.86
25	Ernest Betz.....	Boxes.....	3.50
26	K. Kneessi Sons.....	Straps.....	1.50
	Capital Traction Co.....	Fare tickets.....	5.00
	E. G. Schafer & Co.....	Pipe, etc.....	74.32
28	W. Silas Sheetz.....	Plates, etc.....	7.16
	District of Columbia Paper Manufacturing Co.....	Paper.....	5.28
	do.....	do .....	9.36
	Wm. Flynn.....	do .....	.90
	Vaughan's Seed Store.....	Sprinklers.....	7.50
31	R. H. True et al.....	Salaries.....	1,904.65
Aug. 1	Church & Stephenson.....	Flooring, etc.....	8.71
	District of Columbia Paper Manufacturing Co.....	Paper.....	14.40
	Martin W. Gorman.....	Salary.....	100.00
4	Torald Sollmann.....	do .....	130.65
	Lamb & Tilden.....	Stamp holder.....	.65
	E. B. Drake.....	Knife, etc.....	3.00
6	Fred. A. Schmidt.....	Paper.....	4.80
	Z. D. Gilman.....	Alcohol.....	2.14
7	Henry Allen.....	Grass seed.....	17.50
8	Mackall Bros.....	Potash, etc.....	4.20
	Rudolph, West & Co.....	Trowels, etc.....	22.04
	Woodward & Lothrop.....	Jars.....	2.25
	do.....	Muslin.....	.60
	do.....	do .....	.60
	F. W. Bolgiano & Co.....	Plaster, etc.....	19.00
9	O. F. Cook.....	Salary.....	189.55
11	Chas. Becker.....	White lead.....	5.60
	Eastman Kodak Co.....	Kodak.....	.15
	The Kny-Scheerer Co.....	Jars, etc.....	4.50
12	W. S. Sheetz.....	Screws.....	.50
14	Geo. M. Shull.....	Traveling expenses.....	18.49
	Whitall, Tatum Co.....	Vials and bottles.....	3.60
	do.....	Vials, etc.....	2.44
	Jas. R. Collins.....	Bags.....	1.60
	V. K. Chesnut.....	Traveling expenses.....	82.95

*Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.*

## BOTANICAL INVESTIGATIONS AND EXPERIMENTS—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Aug. 15	Wm. Kraft	Triplets	\$17. 10
18	Whitall, Tatum Co	Corks	13. 55
19	C. S. Schofield	Salary	126. 40
23	National Mortar Co	Cement, etc	20. 61
25	Merck & Co.	Chemicals	15. 00
	L. H. Dewey	Traveling expenses	53. 47
	American Can Co	Cans	6. 00
26	Houghton & Delano	Photo supplies	49. 51
	Washington Gaslight Co	Gas	1. 90
	United States Electric Lighting Co	Electric current	7. 39
	K. Kneesi Sons	Straps	. 65
	E. G. Shafer & Co.	Pipe, etc	7. 67
	Capital Traction Co	Tickets	5. 00
27	Eimer & Amend	Glass tubes	5. 10
30	R. H. True et al	Salaries	2, 019. 07
Sept. 2	O. F. Cook	Salary	189. 55
3	C. S. Scofield	do	126. 40
	M. W. Gorman	do	100. 00
	Whitall, Tatum Co	Laboratory supplies	4. 26
5	F. A. Walpole	Salary	126. 40
	do	do	126. 40
8	Geo. A. Shull	Traveling expenses	44. 01
	Torald Sollmann	Salary	150. 00
	R. M. Harper	do	100. 00
12	W. R. Beattie	Traveling expenses	33. 45
17	Y. K. Chesnut	Expenses	5. 35
	do	do	46. 81
18	Pennsylvania R. R. Co	Passenger transportation	78. 25
23	Jos. B. Davy	Expenses	109. 50
	Geo. F. Klugh	Traveling expenses	29. 98
	Y. K. Chesnut	do	115. 90
29	J. A. Murphy	Brickwork	45. 50
	Houghton & Delano	Photo supplies	37. 84
30	Carl S. Scofield	Expenses	49. 35
	do	Salary	122. 20
	R. H. True et al	Salaries	2, 157. 79
	Total first quarter		8, 814. 41
Oct. 1	Torald Sollmann	Salary	75. 00
2	O. F. Cook	do	183. 40
	Martin W. Gorman	do	100. 00
	F. A. Walpole	do	122. 20
3	Jos. W. Davy	Expenses	2. 50
	C. S. Scofield	do	26. 80
	do	do	124. 19
6	W. O. Richtmann	Traveling expenses	34. 70
	Geo. H. Shull	do	33. 03
	T. Sollmann	Expenses	59. 04
10	W. F. Wight	Traveling expenses	5. 59
13	Rodney H. True	do	51. 24
16	V. K. Chesnut	Expenses	45. 47
	do	Traveling expenses	105. 75
21	Rudolph, West & Co	Tools	10. 04
	Mayfield & Brown	Plow, etc	13. 20
	H. D. Feast & Co.	Compass	2. 00
	P. H. Heiskell, jr., & Co.	Knife	4. 50
	Densmore Typewriter Co	Repairs to typewriter	6. 40
	National Mortar Co	Fire brick, etc.	5. 36
	W. M. Galt & Co.	Hay	8. 95
	Houghton & Delano	Plates	3. 72
	Geo. F. Muth & Co.	Oil, etc	7. 24
	Wm. Kraft	Triplet	4. 50
	Frank L. Vance	Rice seed	2. 25
	Bausch & Lomb Optical Co	Laboratory supplies	15. 93
	Multum in Parvo Binder Co	Binders	2. 40
	Henry Allen	Jars	12. 50
	do	do	24. 00
22	F. A. Walpole	Expenses	20. 70
27	Edgar Brown	Traveling expenses	54. 08
	F. A. Walpole	do	139. 30
31	E. H. True et al	Salaries	2, 160. 65
Nov. 1	O. F. Cook	Salary	189. 55
	F. A. Walpole	do	126. 40
	C. S. Scofield	do	126. 40
	Martin W. Gorman	do	100. 00
	Aid Association for Blind	Reseating chairs	1. 30
	Carl S. Scofield	Traveling expenses	23. 05
	Wolf Bros	Envelopes	1. 78
3	Z. D. Gilman	Corks	1. 20

*Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.*

## BOTANICAL INVESTIGATIONS AND EXPERIMENTS—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Nov. 3	Densmore Typewriter Co.....	Repairs to typewriter.....	\$6.50
	Barber & Ross.....	Nails.....	4.50
	Whitall, Tatum Co.....	Flasks, etc.....	8.21
	Jas. B. Lambie.....	Padlocks.....	2.13
	Artimus H. Thomas Co.....	Pipettes.....	.81
	Randolph Paper Co.....	Pamphlet cases.....	6.10
	District of Columbia Paper Manufactur- ing Co.....	Blotting paper.....	18.00
	F. W. Bolgiano & Co.....	Harness.....	27.75
	Rudolph, West & Co.....	Bolts.....	.11
4	Silver Manufacturing Co.....	Carrier for cutter.....	20.25
	Folmer & Schwing Manufacturing Co.....	Brackets.....	1.50
	The Geo. W. Knox Express Co.....	Transportation.....	11.23
	do.....	do.....	.25
	Washington Gaslight Co.....	Gas.....	2.20
5	The Smith Premier Typewriter Co.....	Typewriter and case.....	92.25
6	P. T. Moran.....	Oats.....	12.30
	Thos. Somerville & Sons.....	Pipe, etc.....	15.06
	National Mortar Co.....	Sand.....	1.25
	C. M. Wolf & Co.....	Mower, etc.....	41.00
	Jas. S. Topham.....	Repairs to trunk.....	3.25
	Henry Lindemeyer & Sons.....	Paper.....	7.15
	Lehn & Fink.....	Cochineal, silver gray, etc.....	.72
	Whitall, Tatum Co.....	Laboratory supplies.....	9.50
	do.....	Corks, etc.....	9.08
8	J. A. Murphy.....	Brick laying.....	9.75
10	Eimer & Amend.....	Brushes, etc.....	37.11
	Randolph Paper Bag Co.....	Boxes.....	110.00
13	Houghton & Delano.....	Photo supplies.....	59.87
	do.....	do.....	11.58
	Mackall Bros.....	Alcohol, etc.....	28.18
	Z. D. Gilman.....	Laboratory supplies.....	62.48
	Church & Stephenson.....	Lumber.....	.18
	do.....	do.....	25.15
17	Woodward & Lothrop.....	Desk.....	17.25
	United States Envelope Co.....	Envelopes.....	5.64
	The Torsion Balance Co.....	Scale and weight.....	40.53
	Bausch & Lomb Optical Co.....	Flange.....	.75
	E. Morrison Paper Co.....	Herbarium paper.....	5.50
	Louis Hartig.....	Iron.....	.76
18	The Chesapeake and Ohio Rwy. Co.....	Passenger transportation.....	15.00
	Minnesota and International Rwy. Co.....	do.....	3.95
	Grand Trunk Rwy. Co.....	do.....	7.90
	New York, New Haven and Hartford Rwy. Co.....	do.....	12.25
	Chicago and Northwestern Rwy. Co.....	do.....	11.50
	Northern Pacific Rwy. Co.....	do.....	7.27
	The Pennsylvania R. R. Co.....	do.....	24.50
	Baltimore and Ohio R. R. Co.....	do.....	150.90
	Northern Pacific Rwy. Co.....	do.....	50.00
	do.....	do.....	30.97
	The Pennsylvania R. R. Co.....	do.....	10.00
	Chicago, St. Paul, Minneapolis and Omaha Rwy. Co.....	do.....	23.50
	Minnesota and International Rwy. Co.....	do.....	7.40
19	Whitall, Tatum Co.....	Pipettes.....	1.00
	do.....	Glass rods, etc.....	29.93
	W. M. Galt & Co.....	Oats and hay.....	16.75
	Library Bureau.....	Typewriter stand.....	5.00
	Thomas Somerville & Sons.....	Plumbers' supplies.....	5.42
	Daniel Hiser.....	Pots.....	15.20
20	W. B. Moses & Sons.....	Rugs.....	22.06
	F. A. Walpole.....	Traveling expenses.....	33.45
	Robert Smith Printing Co.....	Scrapbooks.....	4.00
22	F. W. Bolgiano & Co.....	Twine, etc.....	11.70
	C. S. Scofield.....	Traveling expenses.....	56.63
	T. Sollmann.....	Expenses.....	29.85
25	Geo. F. Muth & Co.....	Putty.....	1.75
	James B. Lambie.....	Belting.....	4.90
26	L. H. Dewey.....	Traveling expenses.....	10.56
	Janet R. Perkins.....	Salary.....	80.00
29	R. H. True et al.....	Salaries.....	2,274.82
Dec. 1	Woodruff Manufacturing Co.....	Doors.....	28.50
	do.....	Card cases.....	13.75
	V. K. Chesnut.....	Traveling expenses.....	97.55
	C. S. Scofield.....	Salary.....	122.20
3	O. F. Cook.....	do.....	183.40
	V. K. Chesnut.....	Expenses.....	21.76
	Chicago, St. Paul, Minneapolis and Omaha Rwy. Co.....	Passenger transportation.....	12.30

## Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## BOTANICAL INVESTIGATIONS AND EXPERIMENTS—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Dec. 3	Montana Rwy. Co	Passenger transportation	\$3.60
4	F. A. Walpole	Salary	65.22
	Jas. E. Converse	do	25.00
	Martin W. Gorman	do	100.00
	United States Electric Lighting Co	Electric current	5.80
	do	do	12.02
	Washington Gaslight Co.	Gas	5.60
	do	do	2.40
5	O. F. Cook	Traveling expenses	54.90
6	L. H. Dewey	do	18.35
10	W. B. Moses & Sons	Chair	4.75
	do	Table	6.50
10	W. R. Beattie	Expenses	62.72
12	Frederick J. Tayler	Traveling expenses	30.20
	Fred. A. Schmidt	Section paper	2.00
18	Houghton & Delano	Photo supplies	26.73
	O. F. Cook	Traveling expenses	31.91
19	Southern Pacific Company	Passenger transportation	10.30
	Baltimore and Ohio R. R. Co	do	8.00
	Southern R. R. Co	do	17.50
22	Jos. Mathy	Oven	34.00
31	E. Brown	Expenses	16.77
	R. H. True et al	Salaries	2,494.07
	Total second quarter		11,207.50
1903.			
Jan. 2	Harry Thompson et al	Labor	28.50
3	O. F. Cook	Salary	189.55
	C. S. Scofield	do	126.40
5	Fox Typewriter Co. (Limited)	Copyholder	4.00
	Robt. Gair	Paper pockets	29.48
	Keasbey & Mattison	Asbestos paper	1.60
	National Mortar Co	Cement	3.44
	Little & Page	Lamp, stove, etc	1.40
	do	do	1.40
	Administrators W. H. Rupp	Calendar pad	.30
	Melville Lindsay Rubber Co	Boots, etc	12.50
	Rudolph West & Co	Tarred paper, etc	12.34
	Potomac Electric Power Co	Electric current	11.68
	do	do	14.02
	American Writing Machine Co	Typewriter paper	27.00
	do	do	36.00
6	C. Bensinger	Duplicator, etc	6.15
	Syracuse Pottery Co	Saucers	20.85
	Merck & Co	Caffeine hydrochlorate	2.00
7	Thos. W. Riley	Manure	200.00
8	Church & Stephenson	Lumber	5.74
	do	do	79.75
12	W. B. Moses & Sons	Matting, etc	6.83
	do	Bookcase	8.00
	do	Desk, etc	42.80
	Wyckoff, Seamans & Benedict	Labor	3.00
	do	Typewriter	90.00
	Church & Stephenson	Lumber	97.20
	do	do	19.88
	W. Silas Sheetz	Velox, etc	4.05
	do	Printing board	2.00
	do	Scale and frame	1.65
15	J. H. Thiermeyer	Boxes	15.00
	W. M. Hayes	Planting machine	20.00
	Cambridge Botanical Supply Co	Label holder	1.62
	J. Ross Collins	Bags	5.76
	Whitall, Tatum Co	Bottles, etc	12.01
	Yawman & Erbe Manufacturing Co	Case and cards	9.55
	do	Copier	35.00
	Eimer & Amend	Sicoes	4.10
	Jas. E. Converse	Salary	25.00
16	Church & Stephenson	Lumber	9.10
	do	do	11.25
	do	do	68.00
	do	do	75.11
19	Vera K. Charles	Report	150.00
	Library Bureau	Cases, etc	17.76
	Robt. Gair	Envelopes	3.38
	United States Envelope Co	do	14.10
	Henry Allen	Vials and corks	24.00
	Wm. Krafft	Instruments	36.14
20	V. K. Chesnut	Expenses	1.00
	The Bunnell Telegraph and Electric Co	Lamps	16.20

*Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.*

## BOTANICAL INVESTIGATIONS AND EXPERIMENTS—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Jan. 21	E. Brown	Expenses July to December	\$99.95
	Thos. Somerville & Sons	Vise	1.50
	do	Hose cocks	3.12
	Potomac Electric Power Co	Current	17.24
	Washington Gaslight Co	Gas	12.00
	do	do	8.70
	Barber & Ross	Oil stove, etc.	11.40
	do	Brackets	.45
	do	Nails	5.60
	do	Glass	7.50
	E. G. Schafer & Co	Tees	3.39
	do	Pipe, etc	7.29
	do	Tees	8.96
	Woodward & Lothrop	Table	5.00
	National Mortar Co.	Cement	5.16
	F. W. Bolgiano & Co.	Horse blankets	6.25
	do	Wagon axle	13.50
	Z. D. Gilman	Corks, etc	18.77
	Yawman & Erbe Manufacturing Co	Cupboard, base, etc	44.25
	do	File sections	56.25
	Jno. Mitchell, jr	Pipes	9.45
	Mackall Bros	Soda	1.55
	The Geo. W. Knox Express Co	Transportation	1.10
	do	do	2.77
	The M. Lindsay Rubber Co.	Hose	1.00
	Jno. C. Parker	Typewriter paper	7.65
	D. Frank Parker	Typewriter chair	5.00
	W. H. Dyer	Wire molding	2.50
	Densmore Typewriter Co.	Card platen	12.50
22	Church & Stephenson	Lumber	70.35
	Postal Telegraph Cable Co	Service	.21
	Blue Line Transportation Co.	Transportation	.80
24	Rudolph, West & Co	Hardware	15.02
26	The Chesapeake and Potomac Rwy. Co.	Passenger transportation	30.00
	The Oregon Railroad and Navigation Co.	do	77.50
	Southern Pacific Co	do	22.05
	The Yazoo and Mississippi Valley R. R. Co.	do	5.40
	The Pullman Auto Ventilating Co	Ventilators, etc	24.00
	The M. Lindsay Rubber Co	Coat and boots	13.00
	Fredk. Carl	Electro-photo rocker	8.00
	Capital Traction Co	Fare tickets	5.00
	Yawman & Erbe Manufacturing Co	Sections, etc	44.25
	do	Copier	35.00
	W. M. Galt & Co	Hay	17.90
27	New York, New Haven and Hartford R. R. Co.	Passenger transportation	12.25
	Southern Rwy. Co	do	55.00
	Baltimore and Ohio R. R. Co	do	13.00
29	M. A. Howe	Index cards	9.45
	A. C. Rowe	Fire extinguishers	12.00
	Seabury & Johnson	Isinglass	7.50
31	E. G. Schafer & Co	Pipe, etc	4.04
Feb. 3	R. H. True et al	Salaries	2,505.36
	O. F. Cook	Salary	193.75
	Jas. E. Converse	do	25.00
	C. S. Schofield	do	129.20
	Jno. C. Parker	Baskets	32.48
	Thos. W. Smith	Doors	7.40
4	Barber & Ross	Axe	.75
	Okonite Co. (Limited)	Wire	4.00
6	R. F. Metzler	Speaking tube	12.00
7	Woodward & Lothrop	Chair, etc	6.35
9	United States Express Co.	Transportation	9.15
	W. B. Moses & Sons	Linoleum	34.83
	do	Shades, etc.	42.63
	Rudolph, West & Co	Hinges, etc.	9.42
	E. G. Schafer & Co	Pipe	2.78
	E. Morrison Paper Co	Tags, etc	2.90
	do	Gummed paper	3.00
	Z. D. Gilman	Chemicals	2.10
	M. Du Perow	Switches, etc	4.44
	do	Cord	7.45
	W. Silas Sheetz	Velox paper	2.10
	Barber & Ross	Doors	11.00
	The Geo. W. Knox Express Co	Transportation	11.67
	G. P. Killian	Boxes	18.00
	Yawman & Erbe Manufacturing Co	Paper	4.05
12	do	Base and sections	41.75
	Woodruff Manufacturing Co	Index cases	13.75
	Fred. A. Schmidt	Mounting maps	3.50

*Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.*

## BOTANICAL INVESTIGATIONS AND EXPERIMENTS—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Feb. 12	Rodney H. True	Traveling expenses	\$2.50
	Adams Express Co	Transportation	18.97
16	Houghton & Delano	Photo supplies	11.77
	do	do	7.15
	Thos. Somerville & Sons	Gas-hose cocks, etc	1.74
	Merck & Co.	Chemicals	3.00
17	J. T. Walker Sons	Lime	.30
	Church & Stephenson	Lumber	124.39
	Fredk. Carl	Repairing camera	1.75
18	United States Envelope Co	Envelopes	6.30
	do	do	3.78
19	Pennsylvania R. R. Co	Passenger transportation	8.00
	do	do	33.25
	Chicago and Northwestern Rwy. Co	do	11.50
	Illinois Central R. R. Co	do	18.00
20	Henry Allen	Vials	53.50
26	J. W. T. Duvel	Traveling expenses	82.11
28	R. H. True et al	Salaries	2,385.16
Mar. 3	The Arlington Co	Pyralin	4.38
	Henry J. Green	Thermometers	4.50
	J. H. Thiermeyer	Boxes	1.50
	The Okonite Co. (Limited)	Wire	2.50
	Lamb Wire Fence Co	Wire fence	9.60
	Henry Lindenmeyr & Son	Herbarium paper	38.40
	Parke, Davis & Co	Chemicals	4.64
	O. F. Cook	Salary	175.00
	Jas. E. Converse	do	25.00
	C. S. Schofield	do	116.60
	Henry Allen	Jars	26.00
	The Chesapeake and Potomac Telephone Co.	Services	5.22
	do	do	12.50
	do	do	12.50
	do	do	6.25
	Church & Stephenson	Lumber	12.76
	W. Silas Sheetz	Photographic supplies	10.45
	do	Lens	30.00
	W. H. Dyer	Wire molding	1.65
	M. Lindsay Rubber Co.	Blankets, etc	7.60
	Carrie Stake	Making sacks	22.00
	C. J. McCubbin Co	Lavatory, etc	25.00
	Edwd. Palmer	Mexican fiber plants	10.00
4	E. Brown	Expenses	16.80
	do	Traveling expenses	19.25
	do	Expenses	58.64
	Woodward & Lothrop	Muslin	2.30
	do	Furniture, etc	92.30
	E. Morrison Paper Co	Paper	6.40
5	Potomac Electric Power Co	Current	18.09
	Hugh Reilly	Glass	3.75
	R. C. Ballantyne	Tag board	2.75
11	M. Du Perow	Joints	.30
	do	Electrical supplies	7.50
	Jno. Mitchell, jr	Plumbers' supplies	2.89
	W. M. Galt & Co	Hay	18.06
	Z. D. Gilman	Burners, etc	59.22
	The J. C. McCubbin Co.	Hose bibs	2.70
	National Electrical Supply Co	Receipts	.44
	Carrie Stake	Sacks	22.50
	R. F. Metzel	Speaking tube	8.00
	Martin Wiegand	Doors	7.50
	Ernest Betz	Repairs to roof	4.50
	W. B. Moses & Sons	Shades	4.00
	do	Mats, mirrors, etc	5.40
	do	Desk	26.40
	do	do	34.00
	Thos. Somerville & Sons	Valves, etc	5.57
	do	Plumbing materials	13.43
	E. Morrison Paper Co	Memorandum books	.50
	do	Paper	6.00
	Fredk. Carl	Repairs to camera	7.00
12	W. O. Richtmann	Traveling expenses	39.39
	W. R. Beattie	do	70.49
14	The Folmer & Schwing Manufacturing Co	Camera stand	60.00
	B. L. Cunningham	Negatives	36.00
16	W. R. Beattie	Traveling expenses	4.20
17	Merck & Co	Chemicals	1.05
	Eimer & Amend	Apparatus	39.20
	Whitall, Tatum Co.	Condensers	25.69
	do	Glass tubing, etc	5.74

*Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.*

## BOTANICAL INVESTIGATIONS AND EXPERIMENTS—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Mar. 17	Whitall, Tatum Co. ....	Bottles	\$2.50
18	H. H. Ballard	Clips and keys	.70
19	The Geo. W. Knox Express Co.	Transportation	1.29
	The J. C. Ergood Co.	Brooms	1.33
	Barber & Ross	Sash	10.00
	Woodward & Lothrop	Jars	5.75
	Jas. S. Topham	Case and repairs	10.00
	do	Trunk	18.00
	do	Case	7.00
	Houghton & Delano	Photographic supplies	59.14
20	Henry J. Green	Thermometers	2.50
	Parke, Davis & Co.	Capsules	4.06
	Library Bureau	Stacking, etc	92.20
21	W. Silas Sheetz	Trays	5.55
	do	Camera, etc	37.45
	do	Films	45.60
	F. W. Bolgiano & Co.	Collars and whips	5.50
23	Woodward & Lothrop	Chairs, etc	30.35
	Potomac Electric Power Co.	Current	36.06
	C. S. Scofield	Traveling expenses	437.60
26	do	Expenses	37.40
	The Chesapeake and Potomac Telephone Co.	Service	6.25
	do	do	6.25
	Lester H. Dewey	Traveling expenses	18.95
31	R. H. True et al	Salaries	3,125.63
	Total third quarter		13,727.73
Apr. 2	Washington Gaslight Co.	Gas	1.00
	do	do	4.00
	W. B. Moses & Sons	Furniture, etc	163.73
	do	Linoleum	16.62
4	C. S. Scofield	Salary	129.20
10	Fredk. V. Coville	Expenses	12.30
	Geo. H. Shull	Traveling expenses	11.90
16	C. H. Delano & Son	Books	6.75
17	F. A. Schmidt	Level rod	13.00
	do	Paper, etc	4.31
	W. B. Moses & Sons	Water-cooler, etc	7.63
	Woodruff Manufacturing Co	Fitting up case	1.50
	W. Silas Sheetz	Chemicals, etc	5.15
	Yawman & Erbe Manufacturing Co	Files	11.00
	Jno. C. Parker	Labels, etc	2.26
	Barber & Ross	Nails, etc	14.71
	Church & Stephenson	Lumber	100.16
	do	do	7.08
	do	do	2.76
	E. Morrison Paper Co	Binder's board	2.60
	Z. D. Gilman	Rubber tubing	12.49
18	Washington Floral Co	Vases	.70
	The C. J. McCubbin Co.	Lavatory, etc	27.50
	M. Du Perow	Switches, etc	2.51
	Southern Rwy. Co.	Passenger transportation	4.15
	Northern Pacific Rwy. Co.	do	125.60
	Washington-Southern Rwy. Co.	do	3.50
	do	do	40.00
	Seaboard Air Line Rwy. Co.	do	13.65
	Western Rwy. of Alabama	do	20.96
	Galveston, Harrisburg and San Antonio Rwy. Co.	do	34.05
	Chicago, Rock Island and Pacific Rwy. Co.	do	20.50
20	Adams Express Co	Transportation	12.96
	Moore Bros	Typewriter	45.00
	Jas. N. Rupp	Memorandum books	5.00
	E. J. Pullman	Films	12.88
	W. Silas Sheetz	Paper, etc	10.70
	Jas. S. Topham	Trunk	9.50
	do	Repairing, etc	2.00
	Lutz & Co	Cases	8.00
	do	Portfolio, etc	7.00
	Multum in Parvo Binder Co.	Binders	2.00
21	J. M. Thorburn & Co.	Seeds	12.40
	Bausch & Lomb Optical Co	Chemicals	13.26
	Eimer & Amend	Flasks	35.70
	do	Pumps	6.25
	do	Sieves	3.60
	Darius E. Burton	Telegraph spoon	1.50
	Yawman & Erbe Manufacturing Co	Paper	4.50
	Houghton & Delano	Paper, etc	14.9



Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## BOTANICAL INVESTIGATIONS AND EXPERIMENTS—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Apr. 21	The Mathy Co.....	Boxes.....	\$34.00
	Lehn & Fink.....	Seeds.....	3.70
	The Okonite Co. (Limited).....	Wire.....	.81
	do.....	do.....	3.00
	do.....	do.....	3.15
	E. H. Sargent & Co.....	Pills.....	2.50
	W. Atlee Burpee & Co.....	Seeds.....	5.18
	Rand. McNally & Co.....	Maps.....	1.83
22	W. R. Beattie.....	Traveling expenses.....	16.20
	V. K. Chesnut.....	Expenses.....	8.04
23	Fredk. V. Coville.....	Traveling expenses.....	28.30
	District of Columbia Paper Manufactur- ing Co.....	Blotting paper.....	18.00
24	Martin Wiegand.....	Cases.....	103.00
	M. Du Perow.....	Heater.....	5.40
	Brentanos.....	Ink.....	1.50
25	Merck & Co.....	Chemicals.....	23.20
	Higgins & Waters.....	Seeds.....	.65
	United States Envelope Co.....	Envelopes.....	17.82
30	R. H. True et al.....	Salaries.....	3,048.40
May 1	Woodruff Manufacturing Co.....	Herbarium cases.....	347.00
2	W. B. Moses & Sons.....	Linoleum.....	13.25
	C. C. Georgeson.....	Manuscript.....	400.00
	W. B. Moses & Sons.....	Mirrors.....	2.75
4	C. S. Scofield.....	Salary.....	123.60
	Rodney H. True.....	Traveling expenses.....	19.75
	Blue Line Transportation Co.....	Transportation.....	2.09
	Jas. B. Lambie.....	Door track, etc.....	4.96
	Washington Gaslight Co.....	Gas.....	6.30
	do.....	do.....	7.20
	The Chesapeake and Potomac Telephone Co.....	Service.....	.10
	United States Express Co.....	Transportation.....	2.15
	Potomac Electric Power Co.....	Current.....	24.87
	Rudolph, West & Co.....	Halyards, etc.....	20.15
	do.....	Brackets, etc.....	4.80
	E. Morrison Paper Co.....	Paper.....	5.00
	do.....	Gummed paper.....	.40
	do.....	Binder's board.....	12.00
8	Woodward & Lothrop.....	Furniture.....	15.20
	do.....	Netting.....	4.50
9	E. Brown.....	Expenses.....	46.16
18	Burton L. Cunningham.....	Negatives.....	12.00
26	The Randolph Paper Box Co.....	Cases.....	17.25
	Viola McCohn.....	Photographs of plants.....	3.75
	Clark & Davenport.....	Altering carpet.....	4.50
	Capital Traction Co.....	Car tickets.....	2.00
29	Wyckoff, Seamans & Benedict.....	Copyholder, etc.....	4.45
	The Mathy Co. (Incorporated).....	Repairs.....	4.80
	do.....	Copper tanks.....	11.25
31	R. H. True et al.....	Salaries.....	2,919.27
June 2	C. S. Scofield.....	Salary.....	127.80
3	Northern Pacific Rwy. Co.....	Passenger transportation.....	59.30
	Seaboard Air Line Rwy. Co.....	do.....	10.90
	Pennsylvania R. R. Co.....	do.....	2.40
	Morgan's Louisiana and Texas Railroad and Steamship Co.....	do.....	12.30
	Atlantic Coast Line R. R. Co.....	do.....	8.60
	Texas and New Orleans R. R. Co.....	do.....	7.20
4	Geo. H. Shull.....	Traveling expenses.....	42.10
5	United States Mailing Case Co.....	Case, etc.....	4.18
	Haage & Schmidt.....	Chemicals.....	8.88
	Geo. Cogar.....	Seed, etc.....	33.45
	Chas. Lea.....	Licorice cuttings.....	5.00
	Library Bureau.....	Cases, etc.....	75.67
	Hance Bros. & White.....	Plate drug mill.....	36.50
	Mercke & Co.....	Chemicals.....	12.59
	do.....	do.....	12.04
	Wilcox & Harvey Manufacturing Co.....	Sheep markers, etc.....	3.50
	Robt. Gair Co.....	Seed bags.....	28.56
	V. K. Charles.....	Report on seeds.....	100.00
6	John C. Parker.....	Toilet paper.....	6.25
9	K. Kneessi Sons.....	Case for tripod.....	3.00
	Moore Bros.....	Repairing typewriter.....	3.50
	Houghton & Delano.....	Photographic supplies.....	16.88
	F. W. Bolgiano & Co.....	Seeder.....	8.40
	The Washington Woodworking Co.....	Molding.....	1.00
	do.....	do.....	1.12
	Washington Gaslight Co.....	Gas.....	6.80
	Potomac Electric Power Co.....	Current.....	31.41

*Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd*

## BOTANICAL INVESTIGATIONS AND EXPERIMENTS—Continued.

Date.	Name.	Nature of payment.	Total.
1903, June 9	The Chesapeake and Potomac Telephone Co.	Service	\$0.55
	Washington, Alexandria and Mount Vernon Rwy. Co.	Tickets	6.10
	S. P. Johnson	Typewriter	67.50
	Densmore Typewriter Co.	Repairs	4.00
	E. Brown	Traveling expenses	85.88
10	Jas. B. Lambie	Stones	2.00
	F. P. May & Co.	Grinders	2.00
	W. M. Galt & Co.	Hay	35.80
	do	Oats	19.50
	Edw. S. Schmid	Rabbits	4.50
	The Burnet Co.	Batteries	1.14
	District of Columbia Paper Manufacturing Co.	Gray matrix	14.40
	M. Lindsay Rubber Co.	Sponge bag	2.00
	P. G. Afflick	Lime	1.50
	Jas. S. Topham	Case	11.00
	C. Becker	Lead	5.60
	Z. D. Gilman	Flasks, etc.	7.50
	Mackall Bros.	Chemicals	12.04
	Geo. F. Muth & Co.	Oil, etc.	18.97
	Barber & Ross	Repairs	13.50
	M. Du Perow	Rheostat	5.00
	do	Lamps	1.10
	do	Fan	12.50
	do	Fans	25.00
	do	do	37.50
	W. Silas Sheetz	Plates	3.52
	do	Photographic supplies	48.30
	Thos. W. Smith	Moldings	4.40
	do	Screen	9.80
	Martin W. Gorman	Salary	100.00
12	Woodward & Lothrop	Thread	6.08
	Thos. Somerville & Sons	Valves	9.45
	Rudolph, West & Co.	Locks	22.30
	Hugh Reilly	Glass	.90
	do	Glass lights	19.60
	W. B. Moses & Sons	Shades	6.00
	E. J. Pullman	Photographic supplies	1.10
	do	do	4.12
	Rodney H. True	Expenses	2.97
13	V. K. Chesnut	Traveling expenses	7.60
	M. G. Copeland Co.	Flag	3.15
	Standard Oil Co.	Barrel of dynamo	6.00
	L. H. Dewey	Traveling expenses	205.14
17	Eimer & Amend	Tubes	7.00
	do	Sieve	2.35
	do	Torsion balances	70.00
	do	Chemicals, etc.	12.38
	do	do	5.58
	Whitall, Tatum Co.	Reagents	18.29
	do	Vials	1.81
	G. E. Stechert	Books	36.75
	The Randolph Paper Box Co.	Boxes	80.00
	do	do	18.48
	do	do	39.75
	United States Envelope Co.	Envelopes	15.60
	Peter Henderson & Co.	Harrow	19.00
19	Albert Ovenden	Collection of plants	16.07
	C. P. Goerz	Repairs	1.50
	McKesson & Robbins	Diruetin knolls	3.10
20	Wm. Krafft	Chemicals	47.78
	J. M. Thorburn & Co.	Opium poppy	2.50
23	Fredk. J. Tyler	Traveling expenses	25.85
	Eimer & Amend	Chemicals	20.78
	The Mathy Co.	Brass trays	80.00
	The Geo. W. Knox Express Co.	Transportation	.25
26	Chicago, St. Paul, Minneapolis and Omaha Rwy. Co.	Passenger transportation	11.50
	Pennsylvania R. R. Co.	do	14.13
	do	do	25.00
	Louisville and Nashville R. R. Co.	do	18.68
	Seaboard Air Line Rwy. Co.	do	7.05
	Lehigh Valley R. R. Co.	do	12.63
	Chicago, Rock Island and Pacific Rwy. Co.	do	16.00
29	The Bunnell Telephone and Electric Co.	Electric supplies	.72
30	R. H. True et al.	Salaries	2,484.80
	Total fourth quarter		13,037.13

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## BOTANICAL INVESTIGATIONS AND EXPERIMENTS—Continued.

Date.	Name.	Nature of payment.	Total.
<i>Supplemental.</i>			
1903.			
July 2	E. Brown	Expenses	84.62
6	C. S. Scofield	Salary	123.60
	G. W. Collins	Traveling expenses	11.21
	do	Expenses	25.00
11	V. K. Chesnut	do	11.96
	C. S. Scofield	do	7.37
	do	Traveling expenses	71.55
	W. W. Tracy, jr.	do	160.95
	Woodruff Manufacturing Co.	Cases	160.00
14	E. Brown	Expenses	26.34
	do	Traveling expenses	12.50
15	M. W. Gorman	do	172.58
	L. F. Winter	Testing machine	66.15
20	Mackall Bros	Chemicals	4.11
	do	do	15.38
	do	do	5.25
	Library Bureau	Binders	27.00
	W. M. Galt & Co.	Hay	35.80
	F. A. Schmidt	Apparatus	11.25
	do	do	2.35
	F. W. Bolgiano & Co.	Brake lever	12.60
	Bausch & Lomb Optical Co.	Stand	18.00
	do	Photographic supplies	31.50
	E. S. Schmid	Rabbits	3.00
	G. F. Muth & Co.	Oil finish	15.78
	do	Brushes, etc	1.40
	Woodward & Lothrop	Clock, etc	22.95
	do	Table	5.00
	E. J. Pullman	Plates	6.60
	do	do	2.51
	Whitall, Tatum & Co.	Bottles	25.08
	do	Testing tubes	25.28
	do	Bottles	2.53
	do	Jars	2.97
21	Geo. W. Knox Express Co.	Transportation	5.17
	G. H. Skull	Traveling expenses	1.00
	Clark & Davenport	Carpet	50.19
	Rudolph, West & Co.	Brass hinges, etc	1.40
	do	Doorstops	7.50
	Woodward & Lothrop	Chairs, etc	13.20
23	Chas. Scribner's Sons	Books	8.10
24	Houghton & Delano	Seed plates	40.66
	American Cycle Manufacturing Co.	Bicycle	40.00
	J. N. Rose	Botanical book	9.20
	R. B. Merchant	Map	1.60
	J. S. Topham	Case	11.00
25	R. MacKenzie	Fiber machine	100.00
	Houghton & Delano	Lens	143.09
	The J. H. Day Co.	Percolator	5.00
	Rochester Optical and Camera Co.	Bellows, etc	14.50
	M. G. Copeland Co.	Awnings	63.55
	W. S. Sheetz	Camera, etc	43.80
	do	Plate holders	5.75
	do	Films, etc	8.45
	The Folmer & Schwing Manufacturing Co.	Lens	65.18
28	Bockhandel en Drunkkery	Publication	5.04
29	Church & Stephenson	Lumber	38.21
	do	do	84.83
	Washington Gaslight Co.	Gas	6.30
	do	do	5.90
	Potomac Electric Power Co.	Current	28.47
	do	do	27.63
	Whitall, Tatum Co.	Bottles	18.26
	do	do	4.17
	Eimer & Amend	Balance and weights	103.70
	do	Funnel, etc	8.40
	do	Chemicals	20.75
	Bausch & Lomb Optical Co.	do	62.32
	do	Balance and weights	82.15
	The Chesapeake and Potomac Telephone Co.	Service	12.50
	Norfolk and Washington Steamboat Co.	Transportation	23.43
	D. F. Parker	Chair	5.00
	do	Paper	4.50
	E. J. Pullman	Photo supplies	1.10
Aug. 4	M. Du Perow	Buzzers	5.36
	do	Plug	.55

142 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

BOTANICAL INVESTIGATIONS AND EXPERIMENTS—Continued.

Date.	Name.	Nature of payment.	Total.
<i>Supplemental—Continued.</i>			
1903.			
Aug. 4	Barber & Ross	Bolt, etc	\$0.95
	F. W. Bolgiano & Co.	Dried blood	1.25
	do	Cotton bags	9.00
	C. R. Edmonston	Filter	7.00
	S. Kann, Sons & Co	Canton flannel	5.49
7	E. Brown	Traveling expenses	72.10
12	W. R. Beattie	Expenses	53.48
	W. S. Hoge & Bro.	Cotton-seed meal	1.50
	Thos. Somerville & Sons	Machine	96.00
	J. S. Haas	Lettering, etc	26.00
	do	Brass sign	28.00
14	F. V. Coville	Traveling expenses	1.50
	M. G. Copeland Co	Awnings	3.10
15	James B. Lambie	Oil cans	4.13
	W. B. Moses & Sons	4 pieces opaque	2.00
	do	Chair	5.16
	E. Morrison Paper Co	Paper	1.20
	do	do	3.36
	Louis Hartig	Wire	11.25
	The Geo. W. Knox Express Co	Transportation	.88
	do	do	2.25
	The Chesapeake and Potomac Telephone Co	Call, Baltimore, Md	.30
	do	do	.50
	Z. D. Gilman	Syringes	4.00
	do	Chemicals	2.45
	do	Dishes, etc	44.49
	do	Tubing, etc	30.49
	Hugh Reilly	Glass	3.80
	do	do	5.20
	do	do	9.12
17	Interstate Clipping Bureau	Clippings	1.35
	Parke, Davis & Co	Chemicals	6.60
	Paul Klincksuck	Publications	16.50
	Geo. H. Woodhull	Service, etc	88.00
	Merck & Co.	Chemical	3.00
20	Barber & Ross	Pliers, etc.	1.20
21	The M. Lindsay Rubber Co	Mat	.15
25	Mackall Bros	Chemicals	2.55
	do	do	4.98
Sept. 10	Merck & Co.	do	49.00
	Woodward & Lothrop	Screens	161.00
	J. C. Parker	Copyholder, etc	5.90
	Z. D. Gilman	Tubing, etc	2.62
18	Western Union Telegraph Co	Telegraph service	3.02
	do	do	.92
	Missouri, Kansas and Texas Rwy. Co.	Passenger transportation	4.35
	Maine Central R. R. Co	do	14.35
	Boston and Maine R. R	do	5.20
	Pennsylvania R. R. Co.	do	11.20
	Galveston, Harrisburg and San Antonio Rwy. Co.	do	45.45
19	Lake Shore and Michigan Southern Rwy. Co.	do	14.75
	The Chesapeake and Ohio Rwy. Co	do	61.20
	Burlington and Missouri River R. R. in Nebraska.	do	29.50
	The Wabash R. R. Co.	do	14.22
	Rutland R. R. Co.	do	14.13
	Northern Pacific Rwy. Co	do	13.50
	Baltimore and Ohio R. R. Co	do	11.40
	Pennsylvania Company	do	11.00
	Chicago and North Western Rwy. Co.	do	7.24
	Pere Marquette R. R. Co	do	6.40
	Southern Rwy. Co.	do	21.10
	Lehigh Valley R. R. Co.	do	8.00
Oct. 10	Postal Telegraph Cable Co.	Telegraph service	.53
	The Geo. W. Knox Express Co.	Transportation	8.79
	United States Express Co.	do	22.54
28	Blue Line Transfer Co.	do	3.49
31	The Lake Shore and Michigan Southern Rwy. Co	do	14.25
	New York, New Haven and Hartford R. R. Co.	do	4.00
	Michigan Central R. R. Co	do	6.75
	Total		3,453.16

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## RECAPITULATION.

First quarter.....	\$8,814.41
Second quarter.....	11,207.50
Third quarter.....	13,727.73
Fourth quarter.....	13,037.13
Supplemental.....	3,453.19
Total.....	50,239.93

## SETTLED BY TREASURY.

Date.	Name.	Nature of payment.	Total.
1903.			
Mar. 11	The Public Printer.....	Printing cards.....	\$1.99
June 23	Southern Pacific Co.....	Passenger transportation.....	20.00
	do.....	do.....	42.15
Sept. 21	Pennsylvania R. R. Co.....	do.....	77.00
	Southern California Rwy. Co.....	do.....	45.00
	Total.....		186.14

## BOTANICAL INVESTIGATIONS, ETC.—RENT.

1902.			
Oct. 15	Jane E. Howlett.....	Rent quarter ending September 30, 1902.	\$180.00
1903.			
Jan. 16	do.....	Rent October-December, 1902.....	180.00
Feb. 12	Jno. H. Nowlan and W. R. Deeble.....	Rent December 23, 1902-January 31, 1903.	328.76
Mar. 9	do.....	Rent February.....	230.13
	Total.....		738.89
May 8	Jno. H. Nowlan and W. R. Deeble.....	Rent March.....	265.08
	do.....	Rent April.....	250.00
June 9	do.....	Rent May.....	250.00
	Total.....		765.08
	<i>Supplemental.</i>		
July 11	Jno. H. Nowlan and W. R. Deeble.....	Rent June.....	250.00
	Total rent.....		1,933.97

## GRASS AND FORAGE PLANT INVESTIGATIONS.

1902.			
July 11	A. S. Hitchcock.....	Traveling expenses.....	\$23.75
17	F. Barteldes & Co.....	Millet.....	2.40
26	C. R. Ball.....	Expenses.....	4.35
	A. R. Barnes & Co.....	Paper.....	6.60
	K. Kneessi Sons.....	Strap.....	1.50
28	Fred. A. Schmidt.....	Dividers, etc.....	4.20
	District of Columbia Paper Manufacturing Co.....	Paper.....	4.32
30	C. R. Ball.....	Traveling expenses.....	13.50
31	A. S. Hitchcock et al.....	Salaries.....	759.90
Aug. 1	Elias Nelson.....	Salary.....	40.40
	E. L. Morris.....	do.....	40.00
4	T. W. Wood & Sons.....	Seeds.....	30.94
	A. S. Hitchcock.....	Traveling expenses.....	80.15
6	P. L. Ricker.....	do.....	67.65
	E. L. Morris.....	do.....	52.17
8	Fred. A. Schmidt.....	Rubber.....	.90
	Mackall Bros.....	Chloride of gold, etc.....	2.20
	Rudolph, West & Co.....	Iron, etc.....	14.95
	Woodward & Lothrop.....	Stool.....	2.10
	Houghton & Delano.....	Films, etc.....	44.89
11	P. O. Vanatter.....	Salary.....	67.40
14	A. D. Dunn.....	Traveling expenses.....	50.80
	do.....	Expenses.....	.40
15	Byron Hunter.....	Salary.....	40.00
16	A. D. Dunn.....	do.....	40.00
	Henry N. Lackenby.....	Seeds.....	76.00

## 144 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## GRASS AND FORAGE PLANT INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Aug. 18	E. N. Wilcox	Salary	\$40.40
	J. B. Davey	Expenses	12.00
	W. Atlee Burpee & Co	Seeds	18.34
	Southern Rwy. Co	Passenger transportation	13.95
	do	do	23.00
20	W. G. Spillman	Traveling expenses	113.35
22	David Griffiths	do	168.44
23	P. L. Ricker	do	77.40
25	The Cutaway Harrow Co.	Weeder and hoe	12.90
26	H. N. Lackenby	Seeds	76.00
29	A. S. Hitchcock	Traveling expenses	65.06
	Elias Nelson	Salary	40.40
	A. S. Hitchcock et al	Salaries	766.65
Sept. 8	P. O. Vanatter	Salary	67.40
	A. D. Dunn	do	40.00
	Ernest N. Wilcox	do	40.40
10	Byron Hunter	do	40.00
	E. L. Morris	Traveling expenses	70.55
	do	Salary	40.00
	P. L. Ricker	Traveling expenses	15.25
17	E. N. Wilcox	do	35.01
	do	do	37.07
	Byron Hunter	do	15.25
	A. D. Dunn	do	43.25
	David Griffiths	do	35.55
18	Pennsylvania R. R. Co	Passenger transportation	19.25
	D. A. Saunders	Expenses	110.00
	Southern Rwy. Co	Passenger transportation	13.90
	Astoria and Columbia River R. R. Co	do	5.37
	Champlain Transportation Co.	do	11.65
	Seaboard Air Line Rwy. Co.	do	5.90
22	Carleton R. Ball	Expenses	4.35
25	Geo. W. Millar & Co	Manila paper	.68
26	W. M. Pollock	Traveling expenses	8.10
29	Houghton & Delano	Photo supplies	14.64
30	A. S. Hitchcock et al	Salaries	723.77
	Grant P. Smith	Labor	7.50
	Total first quarter		4,303.60
Oct. 2	P. O. Vanatter	Salary	65.20
	A. S. Hitchcock	Traveling expenses	7.70
	do	do	17.30
3	E. L. Morris	Salary	40.00
	Jos. B. Davy	Traveling expenses	33.60
4	J. P. Brass	Sand	18.00
	Carleton R. Ball	Traveling expenses	101.54
	do	Expenses	4.35
6	A. D. Dunn	Salary	40.00
	J. B. Gay	Expenses	25.00
10	W. J. Spillman	Traveling expenses	12.45
	E. L. Morris	do	43.31
16	J. B. Gay	Expenses	9.45
21	E. Morrison Paper Co	Paper	1.80
	do	Manila paper	5.50
	Geo. P. Killian Co.	Boxes	10.00
	Rudolph, West & Co	Screening	1.71
	T. W. Wood & Sons	Clover seed	26.90
	Northrup, King & Co	Seeds	26.00
22	Lawyer & Wagner Co	Films	10.80
	A. D. Dunn	Traveling expenses	36.25
	H. H. Stem	Photos	12.60
	Library Bureau	Cards	3.75
	do	Cabinet, etc.	223.40
23	W. J. Spillman	Traveling expenses	19.00
	The Fred Macey Co. (Limited)	Cases, cards, etc	28.40
	Houghton & Delano	Photo supplies	33.35
27	David Griffiths	Traveling expenses	35.85
	P. L. Ricker	do	31.30
	C. E. Ball	Expenses	4.35
29	Mackall Bros	Chemicals	2.75
	do	do	6.94
30	E. N. Wilcox	Traveling expenses	51.29
31	A. S. Hitchcock et al	Salaries	788.50
Nov. 1	P. O. Vanatter	Salary	67.40
	Bausch & Lomb Optical Co	Glass, etc	2.82
4	The Geo. W. Knox Express Co.	Transportation	.50
	T. W. Wood & Sons	Seeds	6.25
10	Geo. W. Moss	Passenger transportation	60.00
	Seaman A. Knapp	Salary, July-October	334.20

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## GRASS AND FORAGE PLANT INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Nov. 10	D. A. Saunders.....	Expenses.....	\$49.50
13	Mackall Bros.....	Ammonia.....	.48
	E. J. Pullman.....	View box.....	31.00
	Rudolph, West & Co.....	Hardware.....	.60
	Church & Stephenson.....	Lumber.....	3.98
	do.....	do.....	4.61
17	E. N. Wilcox.....	Traveling expenses.....	68.33
	do.....	do.....	17.09
	S. L. Watkins.....	Roots.....	2.00
	E. J. Bowen.....	Seeds.....	96.50
	Washington, Alexandria and Mount Ver- non Rwy. Co.....	Tickets.....	7.50
18	Denver and Rio Grande R. R. Co.....	Passenger transportation.....	22.40
	Lehigh Valley R. R. Co.....	do.....	7.50
	Houston and Texas Central R. R. Co.....	do.....	5.75
	The Yazoo and Mississippi Valley R. R. Co.....	do.....	6.85
	New York Central and Hudson River R. R. Co.....	do.....	2.23
	Louisville and Nashville R. R. Co.....	do.....	11.38
	Seaboard Air Line R. R. Co.....	do.....	17.50
	Baltimore and Ohio R. R. Co.....	do.....	9.15
	Pennsylvania R. R. Co.....	do.....	10.00
	New York, New Haven & Hartford R. R. Co.....	do.....	3.60
	Northern Pacific Rwy. Co.....	do.....	1.85
	do.....	do.....	2.80
	Port Worth and Rio Grande Rwy. Co.....	do.....	2.70
	Maine Central R. R. Co.....	do.....	11.64
	Columbus, Sandusky and Hocking R. R. Co.....	do.....	3.30
	Boston and Maine R. R. Co.....	do.....	4.00
	Mobile and Ohio R. R. Co.....	do.....	6.91
	Pennsylvania R. R. Co.....	do.....	18.00
	The Oregon R. R. and Navigation Co.....	do.....	9.50
	do.....	do.....	17.70
	do.....	do.....	5.40
20	Pennsylvania Co.....	do.....	17.50
	Mackall Bros.....	Chemicals.....	2.52
22	W. J. Spillman.....	Traveling expenses.....	9.55
	E. J. Pullman.....	Velox.....	9.00
25	Houghton & Delano.....	Photo supplies.....	14.34
29	A. S. Hitchcock et al.....	Salaries.....	652.85
Dec. 1	Merritt Harper.....	Salary.....	50.50
	do.....	do.....	49.00
	Seaman A. Knapp.....	do.....	81.60
4	P. O. Vanatter.....	do.....	65.20
	Seabury & Johnson.....	Isinglass.....	9.00
	T. W. Wood & Sons.....	Seeds.....	14.54
	do.....	do.....	.95
	F. Barteldes & Co.....	do.....	11.00
6	David Griffiths.....	Traveling expenses.....	65.67
	do.....	do.....	146.85
	Jno. C. Barker.....	Tags.....	3.60
8	R. W. Downs.....	Seeds.....	1.00
	A. V. Stubenrauch.....	Traveling expenses.....	33.10
11	J. S. Cotton.....	Expenses.....	4.50
12	A. V. Stubenrauch.....	Traveling expenses.....	38.55
	David Griffiths.....	do.....	104.70
	do.....	do.....	5.00
	Rudolph, West & Co.....	Bolts.....	.20
	Jas. M. Ayres.....	Express charges.....	5.00
	The Fred Macey Co. (Limited).....	Catalogues, etc.....	54.73
13	do.....	Filing section.....	42.00
	J. B. Gay.....	Seeds.....	16.00
17	do.....	Expenses.....	19.25
	Church & Stephenson.....	Lumber.....	22.22
	do.....	do.....	30.74
	E. J. Pullman.....	Velox paper.....	1.60
	do.....	Velox paper, etc.....	12.25
	do.....	Mounts.....	12.42
19	Baltimore and Ohio R. R. Co.....	Passenger transportation.....	33.15
	Boston and Maine R. R. Co.....	do.....	2.50
	Chicago, Burlington and Quincy R. R. Co.....	do.....	2.87
	Southern Rwy. Co.....	do.....	35.00
	Pere Marquette Rwy. Co.....	do.....	21.91
	Pennsylvania R. R. Co.....	do.....	13.00
	New York Central and Hudson River R. R. Co.....	do.....	5.00
31	A. S. Hitchcock et al.....	Salaries.....	650.45
	Total second quarter.....		5,082.07

## 146 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## GRASS AND FORAGE PLANT INVESTIGATIONS—Continued.

Date	Name.	Nature of payment.	Total.
1903.			
Jan. 3	Jonas E. Hite	Salary	\$25.00
	H. K. Mooney	do	25.00
	J. S. Cotton	do	250.00
	do	do	50.00
	do	Traveling expenses	43.60
5	J. M. Thorburn & Co	Seeds	.36
	Merritt Harper	Salary	50.50
	J. B. Gay	Expenses	14.90
	E. Morrison Paper Co	Binders board	5.00
	R. P. Andrews & Co. (Incorporated)	Manila paper	3.56
10	W. J. Spillman	Expenses	1.38
12	Mackall Bros	Soda, etc	4.50
13	E. Morrison Paper Co	Railroad che ks	12.00
	American Writing Machine Co	Paper	18.00
15	United States Envelope Co	Envelopes	14.10
	do	do	15.12
	The Randolph Paper Box Co	Boxes	21.60
	P. O. Vanatter	Salary	67.40
	Seaman A. Knapp	do	84.20
	A. V. Stubenrauch	Expenses	50.00
	do	do	100.00
16	M. A. Scoville	Salary	200.00
20	A. S. Hitchcock	Expenses	1.00
21	E. J. Pullman	Photo paper	2.65
	do	Velox	3.50
	do	Plates, etc.	7.22
	Mackall Bros	Soda	2.00
	The Geo. W. Knox Express Co.	Transportation	2.08
26	The Lake Shore and Michigan Southern Rwy. Co.	Passenger transportation	2.81
27	Baltimore and Ohio Rwy. Co	do	17.50
	Pennsylvania R. R. Co	do	10.00
31	A. S. Hitchcock et al	Salaries	719.92
Feb. 2	Merritt Harper	Salary	51.70
3	P. O. Vanatter	do	68.90
	A. S. Hitchcock	Traveling expenses	649.71
5	J. S. Cotton	Salary	50.00
6	Daisy Taylor	do	6.00
7	Woodward & Lothrop	Oil stove	5.00
9	United States Express Co	Transportation	6.00
	E. J. Pullman	Albuma paper	1.20
	Z. D. Gilman	Sulphuric acid	.27
	Geo. F. Muth & Co	Tee square	.55
11	Houghton & Delano	Photographic supplies	2.64
	Jno. B. Espey	Scale	8.00
12	Adams Express Co	Transportation	8.15
14	A. B. Leckenby	Seed	50.00
	The Fred Macey Co	File holders, blanks	1.00
	J. M. Thorburn & Co	Seeds	1.25
16	Wolf Bros	Envelopes	2.18
	Library Bureau	Catalogue, etc	33.50
17	S. M. Tracy	Traveling expenses	55.16
19	Chicago and Northwestern Rwy. Co	Passenger transportation	3.29
	Pere Marquette R. R. Co	do	12.76
25	Jas. B. Lambie	Tin cups	.24
	Capital Traction Co	Fare tickets	2.00
28	A. S. Hitchcock et al	Salaries	798.61
Mar. 3	Merritt Harper	Salary	46.60
	J. R. Collins	Seed bags	40.10
	The Chesapeake and Potomac Telephone Co.	Service	6.25
	do	do	6.25
5	The Geo. W. Knox Express Co.	Transportation	.25
6	J. S. Cotton	Salary	50.00
	Phares O. Vanatter	do	62.20
11	Lawyer & Wagner Co	Card cutters	18.00
	Z. D. Gilman	Chemicals	1.00
	C. C. Williams	File holders	10.00
	Yawman & Erbe Manufacturing Co	Cases	54.00
14	R. H. Forbes	Salary	98.90
	A. V. Stubenrauch	Traveling expenses	8.35
16	Houghton & Delano	Photographic supplies	23.52
	W. J. Spillman	Expenses	3.45
18	C. K. Dodge	Seeds	.75
	Library Bureau	Cards	7.50
	The Fred Macey Co. (Limited)	Guides	4.00
19	A. V. Stubenrauch	Expenses	18.34
	The Geo. W. Knox Express Co	Transportation	.34
	Rudolph, West & Co	Iron	.90
	E. J. Pullman	Photo supplies	27.69



Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## GRASS AND FORAGE PLANT INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Mar. 20	J. T. Willard	Expenses	59.06
26	E. J. Pullman	Hypo.	.80
31	A. S. Hitchcock et al	Salaries	894.75
	Total third quarter		4,976.01
Apr. 1	Phares O. Vanatter	Salary	68.90
2	F. Barteldes & Co	Seeds	2.24
	Merritt Harper	Salary	51.70
	Henry & Lee	Seeds	42.30
	The Fred Macey Co. (Limited)	Cards, etc	16.08
6	J. S. Cotton	Salary	50.00
	Carleton R. Ball	Traveling expenses	25.35
10	W. J. Spillman	do	13.55
11	Jno. C. Parker	Tags, etc	1.75
13	Woodward & Lothrop	Shades, etc	3.60
	Blue Line Transportation Co	Transportation	.40
14	F. Barteldes & Co	Seeds	23.43
	Germain Seed Co	do	5.00
	T. W. Wood & Son	do	.45
	United States Envelope Co	Envelopes	5.60
16	M. T. Tracy	Card map index	25.00
18	Southern Pacific Co.	Passenger transportation	67.65
24	W. J. Spillman	Traveling expenses	43.88
25	A. S. Hitchcock	do	27.25
	Wm. Henry Maule	Corn, etc	.30
28	J. Steckler Seed Co. (Limited)	Seeds	1.30
	Henry Lindenmeyer & Sons	Paper	38.40
	J. M. Thorburn & Co	Seeds	2.65
	E. J. Pullman	Lens, etc	36.67
	do	Plates, etc	9.22
30	A. S. Hitchcock et al	Salaries	913.98
May 1	Jas. Withycombe	Expenses	10.00
	The Planters Manufacturing Co	Seeds	23.50
	Stryker & Co	do	4.80
	Sutton & Sons	do	4.02
	A. R. Barnes & Co	Paper	3.30
	Lilly, Bogardus & Co	Seeds	5.40
	J. M. Thorburn & Co	Beans	1.30
	Phares O. Vanatter	Salary	65.90
2	Z. D. Gilman	Ammonia	.68
	Washington, Alexandria and Mount Ver- non Rwy. Co.	Fare tickets	30.00
	W. J. Spillman	Seeds	1.00
	David Griffiths	Traveling expenses	95.45
	A. S. Hitchcock	do	104.46
	W. J. Spillman	do	12.95
7	J. S. Cotton	Salary	50.00
8	American Steel and Wire Co	Wire, etc.	1,603.39
	W. J. Spillman	Traveling expenses	8.65
	The Geo. W. Knox Express Co	Transportation	.95
	Jas. B. Lambie	Hammer	.47
	Adams Express Co	Transportation	13.10
	Mackall Bros	Chemicals	5.40
	United States Express Co	Transportation	.85
	Norfolk and Washington Steamboat Co	Passenger transportation	5.00
13	W. A. Ball	Traveling expenses	8.55
15	F. Barteldes & Co	Seed	2.25
	C. T. Milligan	Lantern	61.65
	T. W. Wood & Son	Seeds	30.00
	Texas Seed and Floral Co	do	1.10
	The Fred Macey Co. (Limited)	Blank guides	1.70
	Peter Henderson & Co	Seeds	1.40
	The Hoggson & Pettis Manufacturing Co.	Copying cloth, etc	9.00
18	David Griffiths	Traveling expenses	112.25
	Geo. Anhagen	Salary	6.67
22	Washington, Alexandria and Mount Ver- non Rwy. Co.	Car tickets	20.00
	W. B. McCleary	Wire fence	906.87
	J. M. Thorburn & Co	Seeds	18.35
	May, Stern & Co.	Desk, etc.	33.25
	Seabury & Johnson	Isinglass	18.00
26	Mark W. Johnson	Seeds	.49
	F. E. Cable	Focusing cloth	.75
	Wager Computing Scale Co	Scale	.75
	Capital Traction Co.	Tickets	35.00
	E. J. Pullman	Photo supplies	36.67
	do	do	6.67
	W. H. Veerhoff	Frame	3.25

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## GRASS AND FORAGE PLANT INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
May 29	Jno. C. Parker	Pencil sharpener	80.65
	E. Morrison Paper Co	Paper	4.10
	Fred. A. Schmidt	Pair forceps	.80
	M. Du Perow	Desk fans	29.70
31	A. S. Hitchcock et al	Salaries	877.30
June 1	Merritt Harper	Salary	49.50
2	A. V. Stubenrauch	Expenses	46.00
	do	Traveling expenses	18.75
3	Southern Rwy. Co	Passenger transportation	43.35
	do	do	62.80
	Northern Pacific Rwy. Co	do	9.95
	Galveston, Harrisburg and San Antonio Rwy. Co.	do	6.85
	Louisville and Nashville R. R. Co	do	27.35
	Baltimore and Ohio R. R. Co	do	69.80
	Louisiana Western R. R. Co	do	5.00
5	L. A. Clinton	Expenses	28.80
	Merritt Harper	Salary	51.00
	J. S. Cotton	do	50.00
	W. B. McCleary	Building fence	919.05
	Jas. K. Metcalf	Seeds	112.95
	Library Bureau	Tin tray	1.00
	The Fred Macey Co. (Limited)	File	18.00
10	W. M. Pollock	Traveling expenses	56.83
	Z. D. Gilman	Chemicals	9.03
	Geo. F. Muth & Co	Kerosene oil	.75
12	Rudolph, West & Co	Screw-driver	.23
	W. B. Moses & Sons	Chairs	23.60
	E. J. Pullman	Photo supplies	21.20
	do	do	22.23
13	Jno. C. Parker	Paper	11.00
	The Columbia Photo Supply Co	Photo supplies	30.50
	P. O. Vanatter	Salary	68.20
	American Writing Machine Co	Paper	45.00
	Franklin Co	Pens	6.00
17	Whitall Tatum Co	Vials and corks	17.96
	German Seed and Plant Co	Seeds	2.00
	do	Beans, etc	.25
	Vaughan's Seed Store	Plants	.72
	L. A. Clinton	Expenses	14.15
	D. H. Saunders	do	50.00
19	L. C. Barley	Mules	250.00
	J. B. Gay	Expenses	11.50
20	Mrs. G. Brenizer	Lantern slide	1.00
	I. P. Roosa	Expenses	.36
	Bausch & Lomb Optical Co	Photo supplies	23.48
	The Belcher & Taylor Agricultural Tool Co	Plow	42.00
	Seabury & Johnson	Isinglass	9.00
	Northrop, King & Co	Grass	.43
	T. W. Wood & Sons	do	.20
22	W. M. Pollock	Traveling expenses	88.16
23	W. B. McCleary	Building fence	276.98
	do	do	667.03
	Lawyer & Wagner	Films	5.40
	C. M. Woolf & Co	Weeder	6.50
	J. M. Thorburn & Co	Seeds	38.90
	E. Morrison Paper Co	Paper	6.25
	W. B. Moses & Sons	Water cooler	5.50
	F. Barteldes & Co	Grass seeds	4.40
	The Fred Macey Co. (Limited)	Report sections	28.00
	T. W. Wood & Sons	Pearl millet	1.25
	do	Grass seed	.30
	Library Bureau	Cards	7.50
	E. J. Pullman	Photo supplies	21.00
	do	do	21.13
24	Carleton R. Ball	Traveling expenses	5.15
25	The Chesapeake and Potomac Telephone Co	Service	.25
	W. H. Lowdermilk	Map	.25
	Jas. S. Topham	Repairs to camera case	.50
26	Pennsylvania R. R. Co	Passenger transportation	12.00
	Southern Rwy. Co	do	38.19
	Maricopa, Phoenix and Salt River Valley R. R. Co.	do	5.95
	Baltimore and Ohio R. R. Co	do	21.00
	Peninsular and Occidental Steamship Co	do	6.00
	The Wabash R. R. Co	do	6.28
	W. J. Spillman	Traveling expenses	81.36
	Houghton & Delano	Seed plates	4.32
	T. W. Wood & Sons	Peas, etc	18.85
	B. L. Robinson	Packing specimens	5.00

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## GRASS AND FORAGE PLANT INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
June 29	Washington, Alexandria and Mount Vernon Rwy. Co.	Trip books	\$12.20
	C. E. Brereton	Photo printing	32.00
30	A. S. Hitchcock et al.	Salaries	939.12
	Total fourth quarter		10,358.72
	<i>Supplemental.</i>		
July 1	F. B. Mumford	Expenses	500.00
	R. H. Forbes	Salary	100.80
	Merritt Harper	do	49.50
3	M. A. Scovel	do	300.00
	J. S. Cotton	do	50.00
	P. O. Vanatter	do	65.90
11	Arizona Agricultural Experiment Station	Expenses	32.20
	S. M. Tracy	do	4.10
	David Griffiths	Traveling expenses	73.92
	P. L. Ricker	do	28.80
13	W. M. Krafft	Apparatus	24.70
	C. R. Ball	Traveling expenses	54.09
	C. E. Brereton	Making photo prints	17.50
15	M. A. Crosby	Traveling expenses	43.42
	J. M. Westgate	Salary	54.97
	Eastman Kodak Co	Photo supplies	9.85
	do	do	9.77
17	E. L. Morris	Traveling expenses	41.64
	do	Salary	17.33
	J. A. Widtsoe	do	200.00
	G. M. Tucker	Expenses	68.40
	A. S. Hitchcock	Traveling expenses	125.62
	J. M. Westgate	do	78.52
	L. A. Clinton	do	7.05
20	J. M. Thorburn & Co.	Grass seed	40.75
	Cambridge Bottle Supply Co	Paper, etc	29.53
21	Mackall Bros	Chemicals	4.69
	Woodward & Lothrop	Desk	78.84
	Rudolph, West & Co	Mower	11.50
	E. J. Pullman	Varnish, etc	5.20
	do	Camera	46.00
	do	Tripod, etc.	7.80
	Church & Stephenson	Lumber	113.33
	do	do	122.50
	do	do	13.34
	do	do	18.75
24	F. A. Schmidt	Compass, etc	115.00
	G. V. Nash	Monograph	250.00
	C. M. Woolf & Co	Cultivator	10.50
	United States Envelope Co	Envelopes	53.40
	J. S. Topham	Camera case	14.00
27	C. S. Brent & Bros	Grass seed	16.50
	Ellis Keystone Agricultural Works	Thrasher	115.65
	Dario Martinez	Repairing fence	40.00
28	J. L. Owen	Salary	90.00
29	D. A. Saunders	Traveling expenses	9.58
	J. T. Willard	Expenses	25.00
	D. A. Saunders	do	36.23
	The Fred Macey Co. (Limited)	File cases, etc	51.50
	E. J. Pullman	Photo supplies	56.28
Aug. 3	Houghton & Delano	do	91.50
4	Lawyer & Wagner Co	Grafic holders	3.00
	District of Columbia Paper Manufacturing Co.	Matrix	7.20
	F. W. Bolgiano & Co.	Apparatus	112.15
5	J. T. Willard	Expenses	38.45
14	Elias Nelson	do	80.58
	G. M. Tucker	Traveling expenses	129.19
15	Z. D. Gilman	Chemicals	17.65
	The Geo. W. Knox Express Co.	Transportation	2.85
	Z. D. Gilman	Chemicals	6.80
	The Geo. W. Knox Express Co.	Transportation	4.82
	The Chesapeake and Potomac Telephone Co	Calls to Falls Church, Va	.30
	Rudolph, West & Co	Hinges	3.99
17	Drum Seed and Floral Co	Seeds	.70
	The Fred Macey Co. (Limited)	Bookcase, etc	36.00
	do	do	36.00
21	J. T. Walker Sons	Lime	3.75
25	Mackall Bros	Chemicals	23.60
	J. B. Gay	Expenses	3.00
Sept. 11	J. M. Westgate	do	.60

150 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

GRASS AND FORAGE PLANT INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
<i>Supplemental—Continued.</i>			
1903, Sept. 18	Western Union Telegraph Co .....	Telegraph service .....	\$8.53
	do .....	do .....	5.09
	Southern Pacific Co .....	Passenger transportation .....	6.45
	do .....	do .....	6.45
	Cincinnati, New Orleans and Texas Pacific Rwy. Co. ....	do .....	9.25
	Pennsylvania R. R. Co. ....	do .....	16.55
	do .....	do .....	24.75
	Missouri, Kansas and Texas Rwy. Co. ....	do .....	4.35
19	The Missouri Pacific Rwy. Co .....	do .....	11.05
	The Colorado and Southern Rwy. Co .....	do .....	7.65
	The Wabash R. R. Co .....	do .....	\$9.15
	Pere Marquette R. R. Co .....	do .....	4.38
	Burlington and Missouri River R. R. in Nebraska. ....	do .....	22.87
	Atlantic Coast Line R. R. Co. ....	do .....	14.75
	Southern Rwy. Co. ....	do .....	11.80
	Michigan Central R. R. Co .....	do .....	8.72
	New York Central and Hudson River R. R. Co. ....	do .....	8.00
	The Pullman Co. ....	do .....	5.00
	Chicago and Alton Rwy. Co. ....	do .....	3.75
	Florida East Coast Rwy .....	do .....	16.10
24	Brentanos .....	Maps .....	3.75
Oct. 10	Postal Telegraph Cable Co .....	Telegraph service .....	.20
	Blue Line Transfer Co .....	Transportation .....	.25
	United States Express Co .....	do .....	7.15
22	O. G. Hempstead & Co .....	Freight on seeds .....	13.07
31	Cleveland, Cincinnati, Chicago and St. Louis Rwy. ....	Transportation .....	20.25
	Chicago and Northwestern Rwy. Co .....	Passenger transportation .....	30.16
	Baltimore and Ohio R. R. Co. ....	do .....	25.25
	Fort Worth and Denver City Rwy. Co .....	do .....	5.55
	Pere Marquette R. R. Co .....	do .....	8.58
	Total .....		4,284.93

RECAPITULATION.

First quarter .....	\$4,303.60
Second quarter .....	5,082.07
Third quarter .....	4,976.01
Fourth quarter .....	10,358.72
Supplemental .....	4,284.93
Total .....	29,005.33

SETTLED BY TREASURY.

Date.	Name.	Nature of payment.	Total.
1902, Dec. 9	Southern Pacific Co .....	Passenger transportation .....	\$56.00
1903, Sept. 21	The Chesapeake and Ohio Rwy. Co .....	do .....	275.38
			331.38

SPECIAL AGENT.

1902, Sept. 25	A. S. Hitchcock .....		\$1,000.00
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EXPERIMENTAL GARDENS AND GROUNDS.

1902, July 17	L. G. Orndorff .....	Mower .....	\$12.00
23	S. Jacobs & Sons .....	Glass .....	967.00
	Edwd. S. Schmid .....	Stakes .....	42.00
	do .....	Nicotine .....	7.20
	F. W. Bolgiano .....	Mower .....	17.00
26	E. G. Schafer & Co .....	Pipe, etc .....	9.42
	Jno. M. Beavers .....	Barrels .....	6.00
	F. W. Bolgiano .....	Salt .....	3.00
	Daniel Hiser .....	Pots .....	100.00

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## EXPERIMENTAL GARDENS AND GROUNDS—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
July 28	Samuel Bensinger	Horses	\$155.00
	Edw. S. Schmid	Cloth, etc	17.96
	do	Raffia	3.00
	Chas. Becker	White lead	5.60
	J. J. Murphy	Excavation	120.00
31	E. M. Byrnes et al	Salaries	1,269.35
Aug. 1	J. T. Walker Sons	Lime	7.50
	Houghton & Delano	Plates	7.05
6	Hugh Reilly	Glass	9.45
11	National Mortar Co.	Cement	8.60
	Rudolph, West & Co	Hammers, etc	69.98
	Edw. S. Schmid	Soap, etc	15.00
14	Hugh Reilly	Glass	33.28
20	James B. Lambie	Oil stoves, etc	5.10
	do	Drawer pulls	2.40
23	Nathan Smith & Sons	Wire arches	33.80
26	United States Electric Lighting Co	Arc lamps	77.35
	do	Electric current	3.69
	E. Morrison Paper Co	Ledger paper	8.60
	J. T. Walker Sons	Cement	12.50
	Rudolph, West & Co	Screws, etc	1.17
	Church & Stephenson	Lumber	347.75
	do	do	182.87
	W. Silas Sheetz	Paper, etc	6.60
	Jas. B. Lambie	Hardware	6.20
	Louis Hartig	Steel	5.02
29	Edw. S. Schmid	Silkoleen thread	3.75
	do	Atomizer, etc	.70
	National Mortar Co.	Cement	10.32
	E. G. Schafer & Co	Pipe	3.02
	Houghton & Delano	Films	2.40
	Thos. Somerville & Sons	Plumber supplies	3.12
30	Jas. J. Murphy	Brickwork	136.80
	E. M. Byrnes et al	Salaries	1,258.10
Sept. 4	Chas. Becker	White lead	11.20
5	Mathew Myers	Manure	20.00
8	E. G. Schafer & Co	Pipe, etc	19.40
20	W. H. Larman	Boilers	1,000.00
30	E. M. Byrnes et al	Salaries	1,236.05
	Total first quarter		7,283.30
Oct. 14	Thos. Ragan	Sod	130.00
15	W. H. Larman	Boilers	890.00
16	Geo. F. Muth & Co.	Oil	3.15
	The Oliver Typewriter Co	Repairs to typewriter	6.00
	S. Eann, Sons & Co	Denim, etc	1.21
	W. H. Bairstow	Chimney cap	5.50
	Columbia National Sand and Dredging Co.	Sand, etc	7.30
	National Mortar Co.	Cement	10.32
	Edw. S. Schmid	Knives	8.00
	do	Cans, etc	49.45
	J. L. Dillon	Tees	4.80
	Columbia National Sand and Dredging Co.	Sand	4.50
17	J. J. Murphy	Brick laying	461.90
	W. B. Moses & Sons	Rugs	32.00
	Thomas Somerville & Sons	Fittings	1.50
	do	do	11.40
18	Geo. T. Langdon	Bricks	25.50
22	Geo. F. Muth & Co.	Putty, etc	18.40
	C. A. Schneider's Sons	Beams, etc	34.56
	Stumph & Lyford	Rug	2.00
	The Brennan Construction Co.	Repairing roads	191.64
	Church & Stephenson	Lumber	106.00
	Thos. Somerville & Sons	Plumbing materials	5.20
23	W. B. Moses & Sons	Door mats	2.44
	do	Brass	5.88
27	C. J. McCubbin Co.	Pipe	75.20
29	Edw. S. Schmid	Baskets	2.40
	Chas. R. Edmonston	Jars	1.44
	do	Vases	4.50
	M. Du Perow	Buzzers	.35
	Jno. C. Parker	Ink, etc	1.55
	Thomas Somerville & Sons	Hardware	2.36
31	E. M. Byrnes et al	Salaries	1,229.48
Nov. 3	Thos. Somerville & Sons	Valves	28.56
	Barber & Ross	Nails, etc	3.78
	Rudolph, West & Co	Tin, etc	10.89
	do	Levels	1.25
4	Peter Henderson & Co	Plant labels	18.65

152 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

EXPERIMENTAL GARDENS AND GROUNDS—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Nov. 4	United States Electric Lighting Co	Use arc lamps	\$7.75
	do	do	74.50
	Mackall Bros	Cyanide of potash	5.00
13	National Mortar Co	Cement	5.16
	E. G. Schafer & Co	Pipe	13.90
	do	Plumbing material	484.82
	Chas. Becker	Red lead	5.60
	Rudolph, West & Co	Carpenters' tools, etc.	80.41
	Thos. Somerville & Sons	Plumbing material	7.19
	do	do	9.58
	Church & Stephenson	Lumber	8.79
17	Henry A. Dreer (Incorporated)	Thermometers	13.50
	Columbia National Sand and Dredging Co.	Gravel	1.50
	Barber & Ross	Nails	10.40
	M. Du Perow	Electric supplies	1.17
29	E. M. Byrnes et al	Salaries	1,129.58
Dec. 1	Thos. Somerville & Sons	Plumbing materials	52.40
	Edw. Hurdle	Gutters	41.80
2	do	Repairs	35.00
	United States Electric Lighting Co	Rent, lamps	3.00
	do	Electric lights, September	7.50
4	do	Electric lights, grounds, September.	70.48
	do	Electric lights, September	.80
	do	Electric lights, August	2.84
	do	do	7.25
	American Writing Machine Co	Paper	9.00
	Church & Stephenson	Lumber	55.00
	do	do	36.25
	do	do	10.88
	Magruder & Alexander	Brick laying	30.00
5	E. M. Byrnes	Expenses	5.10
6	National Mortar Co.	Cement	1.72
	Daniel Hiser	Pots	22.50
	Frank Libbey & Co	Lumber	37.05
	Jno. C. Parker	Dictionary stand	5.70
8	Draper Manufacturing Co.	Thermometer charts	3.00
	Church & Stephenson	Lumber	9.10
	do	do	127.73
10	Washington Gaslight Co.	Gas	105.00
	S. S. Shedd & Bros	Water heater	9.00
24	Edwd. Hurdle	Chimney caps	21.00
	J. J. Murphy	Bricks	16.00
31	E. M. Byrnes et al	Salaries	1,154.98
	Total second quarter		7,137.99
1903.			
Jan. 5	H. G. Hodge	Pecans	12.00
	Rudolph, West & Co.	Felt, etc.	41.58
	Thos. Ragan	Potting sod	23.75
	Standard Oil Co.	Tanks	8.50
	Edward Hurdle	Elbows	4.00
	Rudolph, West & Co.	Latches, etc.	8.74
	Edw. S. Schmid	Punk	7.20
	Potomac Electric Power Co.	Electric current	.78
	do	Arc lamp	7.50
	do	Electric current	6.30
	do	Arc lamp	7.50
	do	do	7.75
	do	do	13.75
	do	do	74.87
	do	do	77.40
6	E. M. Byrnes	Expenses	8.25
	Church & Stephenson	Lumber	73.90
	Jas. B. Lambie	Grindstone	4.25
12	J. C. Ergood Co	Brooms	5.30
	Edwd. Hurdle	Drums	9.00
	S. D. Hauck	Horse blanket, etc.	4.40
	Houghton & Delano	Photographic supplies	1.50
	Church & Stephenson	Lumber	28.76
	do	Sills, etc.	16.00
	Thos. Somerville & Sons	Clamps	.85
	Geo. F. Muth & Co.	Kerosene	5.72
	do	Lanterns	3.40
13	Thos. W. Smith	Doors	6.30
14	American Blower Co.	Trap	91.50
16	Church & Stephenson	Lumber	250.50
21	Potomac Electric Power Co.	Current	.67
	do	do	.81
	do	do	3.80

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## EXPERIMENTAL GARDENS AND GROUNDS—Continued.

Date.	Name.	Nature of payment.	Total.
1903, Jan. 21	Potomac Electric Power Co	Arc lamp	87.75
	do	do	7.75
	do	Lighting grounds	77.18
	Washington Gaslight Co	Gas	13.00
	do	do	7.90
	Barber & Ross	Locks, etc	3.25
	E. G. Schafer & Co	Pipe, etc	241.92
	do	do	5.34
	Rudolph, West & Co.	Hardware	4.85
	Mackall Bros	Chemicals	9.85
	Jno. B. Espey	Can	.75
	Thos. W. Smith	Doors, etc	12.04
	Jas. B. Lambie	Tin cups	.38
23	Thos. Meehan & Sons	Apple stocks, etc	4.00
	The Wm. Kane Manufacturing Co.	Copper tube	12.00
	S. S. Shedd	Oil stove	6.50
24	Geo. F. Muth & Co	Putty	3.50
	do	Lanterns	3.64
29	National Mortar Co.	Cement	17.20
	Thos. W. Smith	Windows	9.60
	E. G. Schafer & Co	Screws	10.00
31	E. M. Byrnes et al	Salaries	1,191.69
Feb. 3	Daniel Hiser	Flower pots, etc.	88.50
	The C. J. McCubbin Co	Pipe	192.88
4	Chas. Becker	White lead	28.00
6	Edwd. Hurdle	Pipe, etc	15.50
	The Alexandria Iron Works	Grate bars	46.58
7	Woodward & Lothrop	Chairs, etc.	7.50
	E. M. Eyrnes	Expenses	5.90
9	United States Express Co.	Transportation	.30
	Church & Stephenson	Lumber	8.70
	Rudolph, West & Co.	Hinges	4.30
	Chas. Becker	Paint	3.00
	Hugh Reilly	Turpentine, etc	26.45
	E. Morrison Paper Co.	Pencils, etc	1.30
	Francis Miller	Drop black	1.20
	Barber & Ross	Nails, etc	7.70
	The Geo. W. Knox Express Co	Transportation	4.09
11	Jno. Mitchell, jr	Pipe	36.84
	Mayfield & Brown	Fertilizer	26.00
12	Adams Express Co	Transportation	36.41
16	Thos. Somerville & Sons	Plugs, etc	5.03
	do	Plates, etc	6.54
17	J. T. Walker Sons	Pipe covering	6.14
	Thos. Ragan	Manure	6.00
	Columbia National Sand Dredging Co	Sand	1.60
20	National Mortar Co.	Cement	34.40
	J. T. Walker Sons	Lime	.75
	The C. J. McCubbin Co	Steam fittings	32.78
21	Thos. Somerville & Sons	Plumbing material	6.85
	do	do	10.08
	do	do	93.68
25	E. G. Schafer & Co.	do	5.72
	do	do	57.07
28	E. M. Byrnes et al	Salaries	1,135.40
Mar. 3	The Hollands Manufacturing Co	Heaters, etc	2.67
	Vilmorin, Andrieux et Cie	Plants	3.22
	The Chesapeake and Potomac Telephone Co.	Service	7.00
	do	do	7.00
	Church & Stephenson	Lumber	73.05
	do	do	126.90
	Thos. Ragan	Manure	5.00
5	Potomac Electric Power Co	Current	.42
	do	do	5.32
	do	Lighting grounds	92.81
	Hugh Reilly	Glass	2.88
	Jas. B. Lambie	Hardware	3.18
	do	Mortising machine	25.00
7	E. M. Byrnes	Expenses	5.52
9	The Hydrocarbon Burner Co.	Khotal stove	4.50
11	E. S. Schmid	Insecticide	7.20
	Columbia National Sand Dredging Co	Gravel	3.96
	F. W. Bolgiano	Wagon hames	2.50
	Thos. Somerville & Sons	Charcoal	1.00
	E. G. Schafer & Co.	Heating apparatus	1.14
	do	do	2.64
	Church & Stephenson	Shingles	5.67
16	Nathan Smith & Son	Chrysanthemums	30.20
	Houghton & Delano	Seed plates	3.58

154 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

EXPERIMENTAL GARDENS AND GROUNDS—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Mar. 19	Thos. Somerville & Sons	Heating apparatus	\$28.04
	Rudolph, West & Co	Hardware	2.94
	Barber & Ross	Nails	2.55
23	Potomac Electric Power Co	Lighting grounds	81.90
	do	Current	7.51
	do	Lamps	1.60
26	Washington Gaslight Co.	Gas	1.20
	do	do	10.50
28	Chas. White	Clover sod	8.50
31	E. M. Byrnes et al.	Salaries	1,242.02
	Total third quarter		6,217.93
Apr. 6	E. M. Byrnes	Expenses	5.37
	W. J. Campbell	Repairs to mower	3.75
	Edwd. S. Schmid	Peat	8.75
	Louis Hartig	Iron, etc	11.47
7	M. Shughrue	Repairs to pump	3.75
	Danl. Hiser	Pots	15.00
	Jas. B. Lambie	Hardware	7.22
	Barber & Ross	Butts	.50
	do	Nails, etc	16.00
9	Church & Stephenson	Lumber	20.00
13	E. G. Schafer & Co	Plumbing, etc	2.99
	E. Morrison Paper Co	Manila envelopes	4.50
14	E. Frank Coe Co.	Fertilizer	10.75
	F. & L. Kahn & Bros	Burners	2.30
	Arthur H. Thomas Co	Rubber tubing	3.23
17	Z. D. Gilman	Thermometer	1.50
	The J. C. Ergood Co	Brooms	6.50
18	Louis Hartig	Iron, etc	2.71
	Danl. Hiser	Flower pots	8.00
	J. T. Walker Sons	Lime	3.00
	C. H. Serrim	Boiler patterns	6.00
	Warren M. Whyte	Boiler, etc.	5.40
25	W. H. May & Son	Track, etc.	9.00
30	E. M. Byrnes et al	Salaries	1,191.10
May 8	Danl. Hiser	Pots	6.40
	E. F. Brooks	Heater	10.00
	W. G. Orr & Co	Fruit cans	1.00
	Washington Gaslight Co.	Gas	1.80
	do	do	.10
	E. G. Schafer & Co.	Valves, etc.	15.47
	The Chesapeake and Potomac Telephone Co.	Service	7.00
	United States Express Co.	Transportation	1.65
	Potomac Electric Power Co	Current	7.35
	do	Lighting grounds	93.00
	Thos. Somerville & Sons	Plugs, etc	1.15
9	S. D. Houck	Saddle	6.00
16	Jas. B. Lambie	Clamps	21.25
18	E. M. Byrnes	Expenses	.30
21	Thos. Ragen	Manure	5.00
26	Edwd. Hurdle	Water heater	10.00
	Blue Line Transfer Co	Transportation	3.32
29	E. G. Schafer & Co	Valves, etc	25.56
	E. M. Byrnes et al	Salaries	1,083.75
June 6	E. M. Byrnes	Expenses	3.39
9	Washington Gaslight Co.	Gas	.80
	do	do	.40
	Potomac Electric Power Co	Current	4.29
	do	Arc lamps	89.67
	do	do	93.00
	do	Current	2.84
	W. H. Douglas	Plumbing supplies	2.50
10	Jas. B. Lambie	Vise	7.00
	S. D. Houck	Cart hames	2.00
	Edwd. Hurdle	Iron pipe	2.25
	Geo. F. Muth & Co.	Oil, etc	46.97
	W. Silas Sheetz	Machine, etc	9.30
12	Rudolph, West & Co	Sash cord	25.45
	Thos. Somerville & Sons	Clamps	1.90
	do	Caps, etc	1.19
13	Church & Stephenson	Shingles	68.19
23	J. T. Walker Sons	Lime	.75
	Church & Stephenson	Lumber	36.25
	Mackall Bros	Potassium	7.50
	Thos. Somerville & Sons	Asbestos, etc	3.41
	Woodward & Lothrop	Buckets	1.94
	Jas. B. Lambie	Shears	18.60



## EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE. 155

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## EXPERIMENTAL GARDENS AND GROUNDS—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
June 25	The Andrew Joyce Carriage Co	Lubricant	\$0.75
	Colonial National Sand Dredging Co	Gravel	.29
26	Church & Stephenson	Posts	23.45
30	E. M. Byrnes et al	Salaries	998.50
	Total, fourth quarter		4,101.47
	<i>Supplemental.</i>		
July 7	S. D. Houck	Repairing harness	3.50
	Church & Stephenson	Lumber	8.00
21	Rudolph, West & Co	Shears, etc	5.50
29	The Chesapeake and Potomac Telephone Co.	Service	7.00
	Washington Gaslight Co	Gas	13.20
	Potomac Electric Power Co.	Current	87.34
	do	do	2.06
Aug. 12	Thos. Somerville & Sons	Threads, etc	7.57
21	Edward Hurdle	Stovepipe, etc	.65
	Columbia National Sand Dredging Co.	Building S. dock	1.80
Sept. 3	E. M. Byrnes	Expenses	3.20
	Olds & Whipple	Tenting cloth	40.32
Oct. 10	Geo. F. Muth & Co.	Oil	.85
	United States Express Co	Transportation	19.85
	do	do	4.88
	Total		192.22

## RECAPITULATION.

First quarter	\$7,283.30
Second quarter	7,137.99
Third quarter	6,217.93
Fourth quarter	4,101.47
Supplemental	192.22
Total	26,932.91

## ARLINGTON EXPERIMENTAL FARM.

Date.	Name.	Nature of payment.	Total.
1902.			
July 14	C. R. Lake	Twine binders	\$50.00
26	Depue & Church	Oats and corn	93.00
	F. W. Bolgiano	Seed drill, etc	37.35
	do	Cowpeas	18.00
28	H. C. Yoke	Horse	170.00
	A. F. Burgess	Horses	275.00
31	L. C. Corbett et al	Salaries	851.27
Aug. 1	W. H. May & Son	Harrow	35.00
	Cropley & Boteler	Bridle bits, etc.	19.47
4	J. M. Rixey	Mules	175.00
	J. C. Nelson	Manure	20.00
26	Henry K. Field & Co	Flooring, etc	43.22
	Depue & Church	Oats and corn	55.80
	E. J. Pullman	Plates	2.10
	Louis Hartig	Pads, etc	3.50
27	W. Silas Sheetz	Camera, etc	18.30
30	L. C. Corbett et al	Salaries	859.00
Sept. 11	L. C. Corbett	Traveling expenses	13.05
30	L. C. Corbett et al	Salaries	820.00
	Total first quarter		3,559.06
Oct. 2	Magruder & Alexander	Bricklaying	75.00
3	E. D. Shackelford	Mare	150.00
	J. M. Rixey	Horse	137.00
17	Magruder & Alexander	Bricklaying	60.00
27	Depue & Church	Feed	55.80
	W. Silas Sheetz	Lens	46.00
	do	Shutter	32.03
	Louis Hartig	Horse brushes, etc	6.64
	P. H. Heiskell, jr., & Co	Bolts, sections, etc	8.40
31	L. C. Corbett et al	Salaries	823.50

156 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

ARLINGTON EXPERIMENTAL FARM—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Nov. 1	H. J. Davie	Drill tires, etc	\$4.00
3	Thos. Somerville & Sons	Valve	1.22
	E. M. Grinder	Brick	500.00
13	National Mortar Co	Cement	51.60
	Rudolph, West & Co	Horseshoes, etc	8.96
	Wm. Walter's Son	Repairs to buggy	5.00
	Church & Stephenson	Lumber	4.89
	do	do	72.50
	do	do	11.20
17	Magruder & Alexander	Laying brick	165.00
	C. A. Schneider's Sons	Stoves	8.80
	Jas. M. Rixey	Sand	75.00
29	L. C. Corbett et al	Salaries	769.75
Dec. 1	C. A. Schneider's Sons	Stoves	1.60
3	Edwd. M. Grinder	Brick	255.00
4	Magruder & Alexander	do	63.00
6	National Mortar Co	Cement	6.88
	do	do	8.60
	W. H. May & Sons	Millet, etc	24.97
	Cropley & Boteler	Hardware, plaster, etc	41.13
8	Edwd. M. Grinder	Bricks	152.00
	J. McL. Dodson	Lime	42.00
10	F. W. Bolgiano & Co	Blankets, etc	5.25
27	Houghton & Delano	Solio paper	6.00
31	L. C. Corbett et al	Salaries	711.00
	Total second quarter		4,389.22
1903.			
Jan. 5	Cropley & Boteler	Knives	12.45
8	Church & Stephenson	Lumber	27.72
	do	do	35.56
	do	do	106.00
	Jas. B. Lambie	Nails	.60
9	L. C. Corbett	Traveling expenses	64.35
	W. H. May & Son	Steel track, etc	20.10
12	L. C. Corbett	Expenses	51.56
	W. Silas Sheetz	Camera, etc	25.40
	Geo. F. Muth & Co	Scale	.90
13	Church & Stephenson	Lumber	1,216.78
15	Thos. Meehan & Sons	Seeds	9.75
16	Louis Hartig	Scales	47.50
21	Geo. F. Muth & Co	Oil, etc	34.26
	Louis Hartig	Iron, etc	8.81
	Barber & Ross	Nails	2.40
	do	do	7.20
	do	do	24.70
	Thos. W. Smith	Building material	229.49
	W. Silas Sheetz	Envelopes	8.55
23	Thos. Meehan & Sons	Apple stock, etc	6.15
	Chas. Sebastine	Framing rafters	10.00
	Jas. Roberts	Thrashing	32.00
24	Woodward & Lothrop	Desk and chairs	19.80
29	Louis Hartig	Scale	23.50
31	L. C. Corbett et al	Salaries	694.50
Feb. 3	T. W. Smith	Box frame, etc	7.13
	Walter Roberts	Feed	36.00
6	do	do	20.00
	Chas. Newlon	Setting windows, etc	33.00
9	Church & Stephenson	Lumber	55.21
	W. B. Moses & Sons	Chair	4.70
	Barber & Ross	Tin plate, etc	17.45
11	P. H. Heiskell, jr., & Co	Hardware	17.10
14	The Allegheny Orchard Co	Seedlings	47.25
17	Wm. Krafft	Microscope	37.18
	Church & Stephenson	Roof boards	29.00
	G. G. Boteler	Pipe	.60
20	J. T. Walker Sons	Paper, lime, etc	4.25
	P. Mann & Co	Wagon skein	1.50
28	L. C. Corbett et al	Salaries	507.35
Mar. 3	W. L. King	Knives	4.45
19	Blue Line Transfer Co	Transportation	.74
	Barber & Ross	Snips	1.60
31	L. C. Corbett et al	Salaries	572.50
	Total third quarter		4,117.04
Apr. 7	W. H. May & Son	Buckwheat	2.80
17	Barber & Ross	Nails	15.15
	W. B. Moses & Sons	Desk	23.40

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## ARLINGTON EXPERIMENTAL FARM—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Apr. 18	G. G. Boteler	Files	\$21.15
24	Chas. Becker	White lead	5.60
25	C. A. Schneider's Sons	Stove	4.80
28	W. H. May & Son	Shellers, etc	13.35
25	Fred A. Schmidt	Profile paper	11.10
30	L. C. Corbett et al	Salaries	684.85
May 8	Geo. F. Muth & Co.	Brushes	2.07
	Louis Hartig	Hardware	5.12
	do	do	12.58
	Henry K. Field & Co	Door	40.00
	Warren M. Whyte	Labels	3.25
	United States Express Co	Transportation	.45
	do	do	.75
	Church & Stephenson	Lumber	5.48
9	H. K. Field & Co	Doors	40.00
22	L. C. Corbett	Expenses	16.15
26	Lewis Roesch	Plants	9.74
	Harry K. Field & Co	Doors	36.50
	F. W. Bolgiano & Co	Nails, etc	20.00
29	Z. D. Gilman	Chemicals	1.50
31	L. C. Corbett	Salaries	749.50
June 9	W. H. May & Sons	Cart	22.50
	W. M. Galt & Co	Hay	35.80
	George F. Muth & Co	Brushes, etc	3.46
20	J. A. Finnell & Co	Oak	25.00
	do	Telephone poles	25.00
22	Houghton & Delano	Plates	2.88
	G. G. Boteler	Farming implements	18.45
23	W. M. Galt & Co	Oats	39.00
	W. B. Moses & Sons	Desk	34.00
	Barber & Ross	Wrench	1.70
	do	Nails, etc	11.50
25	Louis Hartig	Wire stretcher	2.25
26	Church & Stephenson	Lumber	8.18
	W. M. Galt & Co	Hay	8.95
	The H. P. Densher Co	Soil pulverizer	42.00
29	United States Envelope Co	Envelopes	6.45
30	L. C. Corbett et al	Salary	742.60
	Total fourth quarter		2,754.61
	<i>Supplemental.</i>		
July 13	J. J. Harrison & Son	Apple trees	6.10
18	Yawman & Erbe Manufacturing Co	Sections	32.75
20	M. G. Parsons	Salary	12.50
24	W. H. May & Son	Rope, etc	32.10
Aug. 4	Barber & Ross	Nails	9.55
15	The George W. Knox Express Co	Transportation	.73
17	Yawman & Erbe Manufacturing Co	Sections	41.40
Sept. 9	do	File case, etc	43.75
	Total		178.88

## RECAPITULATION.

First quarter	\$3,559.06
Second quarter	4,389.22
Third quarter	4,117.04
Fourth quarter	2,754.61
Supplemental	178.88
Total	14,998.81

## INVESTIGATING PRODUCTION OF DOMESTIC SUGAR.

Date.	Name.	Nature of payment.	Total.
1902.			
Aug. 19	Chas. F. Saylor	Salary	\$225.00
	do	Expenses	8.80
	do	Traveling expenses	86.17
23	The Press Clipping Bureau	Clippings	5.00
Sept. 6	do	do	5.00
12	Chas. F. Saylor	Salary	225.00

158 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

INVESTIGATING PRODUCTION OF DOMESTIC SUGAR—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Sept. 12	Chas. F. Saylor	Traveling expenses	\$100.11
	do	Expenses	12.90
	Total first quarter		667.98
Oct. 7	Chas. F. Saylor	Salary	225.00
	do	Expenses	6.45
	do	Traveling expenses	54.29
Nov. 10	do	Expenses	3.90
	do	Salary	225.00
	do	Traveling expenses	48.26
18	Chicago and Northwestern Rwy. Co.	Passenger transportation	10.15
	Minneapolis and St. Louis R. R. Co.	do	8.00
22	The Press Clipping Bureau	Clippings	5.00
Dec. 3	Chicago and Northwestern Rwy. Co.	Passenger transportation	3.15
	Union Pacific R. R. Co.	do	4.41
5	Chas. F. Saylor	Salary	225.00
	do	Expenses	9.20
	do	Traveling expenses	111.34
12	The Press Clipping Bureau	Clippings	5.00
	Total second quarter		944.15
1903.			
Jan. 15	Chas. F. Saylor	Expenses	21.35
	do	Salary	225.00
	do	Traveling expenses	55.72
	Brentanos	Fountain pen	5.00
24	Erie R. R. Co.	Passenger transportation	5.00
26	Chicago Great Western Rwy. Co.	do	6.75
	Chicago, Milwaukee and St. Paul Rwy. Co.	do	13.16
27	Pennsylvania R. R. Co.	do	6.50
Feb. 5	C. F. Saylor	Expenses	40.15
	do	Traveling expenses	29.75
	do	Salary	225.00
19	Pennsylvania R. R. Co.	Passenger transportation	17.00
	Chicago and Northwestern Rwy. Co.	do	2.55
	do	do	11.50
	Chicago, St. Paul, Minneapolis and Omaha Rwy. Co.	do	11.50
Mar. 9	C. F. Saylor	Salary	225.00
17	do	Expenses	66.50
	Total third quarter		967.43
Apr. 8	Chas. F. Saylor	Traveling expenses	60.25
	do	Salary	225.00
	do	Expenses	44.05
17	The Press Clipping Bureau	Clippings	20.00
18	Michigan Central R. R. Co.	Passenger transportation	9.34
	The Lake Shore and Michigan Southern Rwy. Co.	do	15.22
	Pere Marquette R. R. Co.	do	9.34
	The Minnesota and St. Louis R. R. Co.	do	8.00
	Chicago, Rock Island and Pacific Rwy. Co.	do	18.15
May 9	Chas. F. Saylor	Salary	225.00
	do	Expenses	48.05
	do	Traveling expenses	45.05
	do	do	85.87
	do	Salary	225.00
12	do	Expenses	5.00
24	Pennsylvania Co.	Passenger transportation	15.94
	Pennsylvania R. R. Co.	do	17.00
	Chicago, Rock Island and Pacific Rwy. Co.	do	20.30
	Total fourth quarter		1,097.06
	<i>Supplemental.</i>		
July 9	C. F. Saylor	Traveling expenses	59.95
	do	Salary	225.00
16	Chicago, Milwaukee and St. Paul Rwy. Co.	Passenger transportation	11.50
	Chicago, Rock Island and Pacific Rwy. Co.	do	38.45
Aug. 10	C. F. Saylor	Expenses	4.70
17	The Press Clipping Bureau	Clippings	15.00
19	Northern Pacific Rwy. Co.	Passenger transportation	12.78
Oct. 31	do	do	12.60
	Total		379.98

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## RECAPITULATION.

First quarter.....	\$667.98
Second quarter.....	944.15
Third quarter.....	967.43
Fourth quarter.....	1,097.56
Supplemental.....	379.98
Total.....	4,057.10

## TEA-CULTURE INVESTIGATIONS.

Date.	Name.	Nature of payment.	Total.
1902.			
Aug. 15	Jno. H. Kinsler	Salary	\$84.20
Sept. 10	do	do	84.20
	Lela R. Gadsden	do	5.64
24	Jno. H. Kinsler	Traveling expenses	23.60
	Total first quarter		197.64
Oct. 2	Jno. H. Kinsler	Salary	81.60
3	Lela R. Gadsden	do	25.00
Nov. 10	Jno. H. Kinsler	do	84.20
	Lela R. Gadsden	do	25.00
Dec. 3	San Antonio and Aransas Pass Rwy. Co.	Passenger transportation	6.20
4	Jno. H. Kinsler	Salary	81.60
	do	Traveling expenses	89.65
8	Lela R. Gadsden	Salary	25.00
18	Rodney H. True	Traveling expenses	84.93
19	Southern Rwy. Co.	Passenger transportation	14.50
	do	do	41.45
31	J. H. Kinsler	Salary	84.20
	Total second quarter		643.33
1903.			
Jan. 5	I. P. Roosa	Expenses	15.86
9	L. C. Corbett	Traveling expenses	73.39
15	Lela R. Gadsden	Salary	25.00
20	Stewart, McLeod & Co.	Tea rollers.	462.32
	Davidson & Co. (Limited)	Compressing machine	235.64
	Killebon & Co.	Tea seed	177.92
	J. P. Williams & Bros.	do	109.50
24	San Antonio and Aransas Pass Rwy. Co.	Passenger transportation	7.15
27	Louisville and Nashville R. R. Co.	do	8.48
31	J. H. Kinsler	Salary	86.10
Feb. 5	Lela R. Gadsden	do	25.00
11	W. O. Richtmann	Weights	7.50
12	I. P. Roosa	Expenses	23.76
19	Jno. H. Kinsler	Traveling expenses	28.90
	Chicago and Northwestern Rwy. Co.	Passenger transportation	3.92
	Southern Rwy. Co.	do	13.00
28	Elva E. Hicks	Salary	77.80
Mar. 6	Lela R. Gadsden	do	25.00
	Jno. H. Kinsler	do	77.80
	do	Expenses	42.20
17	Eimer & Amend	Balance	65.00
21	Chas. U. Shepard	Expenses	37.10
31	Elva E. Hicks	Salary	86.10
	Total third quarter		1,714.44
Apr. 6	Lela R. Gadsden	Salary	25.00
	Jno. H. Kinsler	do	86.10
13	Hugh Reilly	Plates	8.00
14	The Folmer & Schwing Manufacturing Co.	Camera	50.60
	R. S. Long	Hopper	47.50
17	Western Union Telegraph Co.	Service	21.42
	do	do	36.60
18	E. G. Schafer & Co.	Pipe, etc	147.65
	International and Great Northern R. R. Co.	Passenger transportation	30.05
	Southern Rwy. Co.	do	17.76
	Baltimore and Ohio R. R. Co.	do	17.50
	Bausch & Lomb Optical Co.	do	110.36
30	Elva E. Hicks	Salary	82.40
May 1	Jno. H. Kinsler	do	82.40
	Geo. F. Mitchell	do	16.00
7	do	do	39.60
	Lela R. Gadsden	do	25.00
8	The Geo. W. Knox Express Co.	Transportation	.25
	Adams Express Co.	do	.35
15	R. S. Long	Repairing machine	45.00

160 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

TEA-CULTURE INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
May 15	I. W. Brandell	Flasks	\$4.50
16	Houghton & Delano	Paper	1.80
22	Chas. U. Shepard	Expenses	100.30
31	W. O. Richtmann et al	Salaries	204.40
June 3	Morgan's Louisiana and Texas Railroad and Steamship Co.	Passenger transportation	6.55
	Atlantic Coast Line R. R. Co.	do	23.25
5	J. P. Williams & Bros.	Tea seed	146.00
	Jno. H. Kinsler	Salary	85.20
	The Bailey Lebbby Co.	Steam hose	37.25
	do	Pulley, etc	46.50
10	Geo. F. Mitchell	Salary	49.80
11	Lela R. Gadsden	do	25.00
12	Rodney H. True	Traveling expenses	13.80
17	Eimer & Amend	Chemical thermometer	8.00
	do	Barometer	46.50
23	W. Silas Sheetz	Photo supplies	30.00
	I. P. Roosa	Expenses	37.54
	Eimer & Amend	Rubber tubes, etc	61.55
	Henry J. Green	Thermometer	4.00
	Bausch & Lomb Optical Co.	Water bath	21.50
26	Washington Southern Rwy. Co.	Passenger transportation	15.85
	do	do	15.85
	do	do	15.85
30	W. O. Richtmann et al	Salaries	197.80
	Total fourth quarter		2,079.33
	<i>Supplemental.</i>		
July 1	W. O. Richtmann	Traveling expenses	77.07
7	Yawman & Erbe Manufacturing Co.	Sections, etc	45.25
11	I. P. Roosa	Expenses	34.89
	C. U. Shepard	do	24.14
13	J. H. Kinsler	do	408.73
15	G. F. Mitchell	Salary	39.60
	L. R. Gadsden	do	25.00
	J. H. Kinsler	do	82.40
	do	Traveling expenses	52.25
	W. Silas Sheetz	Camera, etc	33.80
	J. H. Kinsler	Expenses	3.73
17	Remington Manufacturing Co.	Remington still and cage	35.00
18	Stewart, McLeod & Co.	Apparatus	73.00
25	Bausch & Lomb Optical Co.	Labels, etc	61.34
29	The Geo. W. Knox Express Co.	Transportation	.28
Aug. 15	Edward Kremers	Traveling expenses	41.97
25	Arthur H. Thomas Co.	Tintometer, etc	242.64
26	Edward Kremers	Salary	25.00
Sept. 18	do	do	25.00
	Western Union Telegraph Co.	Telegraph service	3.51
	do	do	.69
	Pennsylvania R. R. Co.	Passenger transportation	23.90
	do	do	5.30
	Texas and New Orleans R. R. Co.	do	31.85
	Washington Southern Rwy. Co.	do	15.85
	Atlantic Coast Line R. R. Co.	do	31.70
	Southern Rwy. Co.	do	35.56
Oct. 14	M. Du Perow	Electric motor	102.86
	United States Express Co.	Transportation	44.00
19	I. P. Roosa	Expenses	78.52
21	Eimer & Amend	Balance	11.25
31	Atlantic Coast Line R. R. Co.	Passenger transportation	31.70
	Chicago, Milwaukee and St. Paul Rwy. Co.	do	21.42
Nov. 13	M. Du Perow	Regulator	9.00
	Total		1,778.14

RECAPITULATION.

First quarter	\$197.64
Second quarter	643.33
Third quarter	1,714.44
Fourth quarter	2,079.33
Supplemental	1,778.14
Total	6,412.88

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## PURCHASE AND DISTRIBUTION OF VALUABLE SEEDS.

Date.	Name.	Nature of payment.	Total.
1902.			
July 5	B. T. Galloway	Traveling expenses	88.62
18	C. F. Wheeler	do	40.68
19	D. W. Galehouse	do	5.66
25	E. Morrison Paper Co	Books	2.40
	N. Studer	Verbena plants	1.44
	L. G. Orndorff	Rye grass	1.71
	Western Seed and Irrigation Co.	Seeds	1,409.32
	J. M. McCullough's Sons	Cucumber seed	90.00
	Dayton Paper Novelty Co	Boxes	28.00
	Edwin R. Bullinger	Books	3.00
	Denys Zirngiebel	Pansy seed	5.00
	Wolf Bros	Envelopes	8.90
26	A. J. Pieters	Traveling expenses	15.00
	Henry A. Dreer	Lilium harrisii	55.00
	M. Du Perow	Fans	25.00
	Jas. A. Berberick	Registers	20.00
28	Fred. A. Schmidt	Paper	1.80
	Jas. Y. Leech	Repairs—bicycle	2.50
	Wolf Bros	Envelopes	5.06
31	A. J. Pieters et al	Salaries	2,730.65
Aug. 1	Church & Stephenson	Shelving, etc	18.01
	do	Boards	6.38
6	E. Morrison Paper Co.	Sheet holders	2.75
	do	do	.95
	do	Tags	6.00
8	W. W. Tracy, jr	Traveling expenses	87.10
	Woodward & Lothrop	Mirror and screen	10.00
	do	Stand	3.62
11	Fred. A. Schmidt	Paper	3.87
	J. P. Nawrath	Twine	15.40
	W. A. Burpee	Portulaca	2.00
	R. A. Smith Manufacturing Co	Stamp holder	1.75
14	F. W. Bolgiano & Co.	Seeds, etc	2,239.00
	Jno. E. W. Tracy	Traveling expenses	315.95
	W. B. Moses & Sons	Furniture, etc	60.82
	United States Envelope Co.	Envelopes	6.93
	Library Bureau	Stand and cards	22.60
15	W. G. Johnston & Co	Ledgers	20.50
	Leonard Seed Co	Seeds	790.95
16	Eberhard Faber	Bands	139.63
26	Houghton & Delano	Photographic supplies	6.21
	Geo. P. McCabe	Traveling expenses	34.35
	United States Electric Lighting Co	Lamps	1.24
	E. G. Schafer & Co	Pipe, etc	5.01
	Capital Traction Co	Tickets	10.00
27	Jno. C. Parker	Letter press, etc	57.22
29	The Evening Star Newspaper Co	Advertising	4.76
	The Washington Times Co	do	6.75
	The Evening Star Newspaper Co	do	5.04
	The Washington Post Co	do	6.97
30	A. J. Pieters et al	Salaries	2,729.35
Sept. 2	R. P. Andrews & Co. (Incorporated)	Wrapping paper	90.00
3	F. M. Hollister	Negatives	7.50
5	W. H. McCray	Labor and materials, warehouse	4,000.00
	W. I. Jochum	Traveling expenses	4.75
6	Vanderbilt Express Co	Freight charges	6.11
11	L. C. Corbett	Traveling expenses	50.00
12	B. T. Galloway	do	21.35
18	Pennsylvania R. R. Co	Passenger transportation	4.00
	Central Vermont Rwy Co	do	8.61
30	A. J. Pieters et al	Salaries	2,985.25
	W. H. McCray	Labor and materials, warehouse	4,550.00
	Total first quarter		22,808.42
Oct. 1	T. W. Wood & Son	Seeds	7,717.00
3	Will W. Tracy, jr	Traveling expenses	64.41
4	A. D. Shamel	do	7.90
14	E. M. Byrnes	do	16.40
16	Geo. F. Muth & Co.	Oil, etc	33.95
	Geo. R. Jennings	Shade fixtures	3.00
	Chas. Becker	White lead	5.60
	do	do	28.00
	Walker & Hazleton	Repairing bicycle	9.00
17	United States Envelope Co	Envelopes	10.83
	W. B. Moses & Sons	Brass binding	6.00
	do	Burlap	6.00
	do	Matting, etc	38.75
	Lamb & Tilden	Sponge rubber	8.75

162 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

PURCHASE AND DISTRIBUTION OF VALUABLE SEEDS—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Oct. 17	Geo. W. Churchill	Salary, July to October	\$60.00
	Lamb & Tilden	Rubber type, etc	2.30
	Thos. Somerville & Sons	Plumbers' supplies	.90
20	Jno. C. Parker	Pencil pointer	3.50
21	Bausch & Lomb Optical Co	Coddington	1.55
22	F. W. Bolgiano & Co	Seed	9.80
	Church & Stephenson	Lumber	20.80
	do	do	15.00
23	Robt. Buist & Co	Seeds	675.00
	J. M. Thorburn & Co	do	47.50
	T. W. Wood & Sons	Oats	5.50
	J. T. Willard	Wheat	49.00
	W. B. Moses & Sons	Rubber	8.51
	D. Frank Parker	Typewriter paper	6.90
	Brentanos	Scale	3.75
	Landvoigt & Co	Paste	1.90
25	Neely Electric Co	Electric supplies	2.29
	Goodwin, Harries & Co	Seeds	162.00
	do	do	5,696.74
27	R. P. Clarke Co	Bags	152.20
	The C. J. McCubbin Co	Plumbing	24.00
	do	do	36.00
	do	do	38.40
	Wyckoff, Seamans & Benedict	Typewriter and cover	90.00
	E. G. Schafer & Co	Pipe, etc	13.02
	Geo. B. Massey	Traveling expenses	30.72
28	Maurice Joyce Engraving Co	Plate	.50
	Jno. Mitchell, jr	Plumbing materials	70.91
	Robt. Gair	Seed bags	29.28
	Peter Henderson & Co	Bulbs	14.00
	C. G. Hopkins	Salary	60.00
29	Chas. R. Edmunston	Jars	1.92
	Library Bureau	Sand	5.00
	M. Du Perow	Shade	1.25
	Thos. Somerville & Sons	Bends	3.04
	Mackall Bros	Potash, etc	5.00
31	A. J. Pieters et al	Salaries	3,251.24
Nov. 3	Woodward & Lothrop	Chairs, etc	11.66
	Thos. Somerville & Sons	Fittings	25.60
	E. J. Pullman	Photographic supplies	2.35
	Rudolph, West & Co	Hinges, etc	2.47
4	Library Bureau	Binders	26.40
10	C. G. A. Voight	Wheat	21.80
	F. N. Meyer	Salary	50.00
	Capital Traction Co	Tickets	10.00
	A. J. Pieters	Traveling expenses	25.50
	Autographic Register Co	Slips	73.85
	Wm. K. Harris	Rubber plants	50.00
	Norfolk and Washington Steamboat Co	Transportation	130.23
13	Houghton & Delano	Solio paper	2.65
	National Mortar Co	Cement	1.72
	Rudolph, West & Co	Saw, etc	3.28
	do	Building paper	1.50
	Thos. Somerville & Sons	Plumbing material	73.18
	do	do	24.98
	Z. D. Gilman	Chemicals	.90
	Church & Stephenson	Lumber	86.34
	do	do	86.68
	do	do	35.35
17	J. M. Lupton	Labor, etc	50.00
	The Globe Register Co	Carbon rolls	2.40
	Henry A. Dreer (Incorporated)	Labels	59.00
	W. G. Orr & Co	Satchel baskets	10.00
	American Writing Machine Co	Typewriter paper	22.50
	Broderick Bros	Radiator	39.00
	Woodward & Lothrop	Cloth, etc	5.73
	do	Pails and hod	1.15
18	Pennsylvania R. R. Co	Passenger transportation	42.50
	Denver and Rio Grande R. R. Co	do	50.00
	New York Central and Hudson River R. R. Co.	do	11.94
	The Wabash R. R. Co	do	40.63
	Michigan Central R. R. Co	do	7.00
	Baltimore and Ohio R. R. Co	do	13.00
	The Colorado and Southern Rwy. Co	do	6.50
	The Long Island R. R. Co	do	4.20
	do	do	4.20
	New York Central and Hudson River R. R. Co.	do	4.58
	Pennsylvania R. R. Co	do	19.50



Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## PURCHASE AND DISTRIBUTION OF VALUABLE SEEDS—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Nov. 18	The Oregon Railroad and Navigation Co.	Passenger transportation	\$7.30
19	Okonite Co. (Limited)	Wire	14.75
	W. Atlee Burpee & Co	Seeds	1,551.70
	Vaughan's Seed Store	do	107.60
	J. M. Thorburn & Co	do	40.00
	do	do	19.00
	Houghton & Delano	Photographic supplies	6.60
	W. B. Moses & Sons	Mat	1.22
	Thos. Somerville & Sons	Pipe hook plates	3.85
	do	Plumbing supplies	3.81
	W. Silas Sheetz	Photo supplies	21.58
20	Geo. F. Muth & Co.	Paints, etc	31.08
	The C. J. McCubbin Co	Pipe	60.55
	E. G. Schafer & Co.	Pipe, etc	291.85
	Vaughan's Seed Store	Seeds	1,380.00
21	Thos. Somerville & Sons	Lavatories, etc	45.90
	do	Tubes	.30
22	Broderick Bros	Radiators	17.80
	M Du Ferow	Tubes, etc	27.16
	Jno. Mitchell, jr	Plumbers' supplies	43.25
	Ellwanger & Barry	Trees	6.00
	N. H. Willett Drug Co.	Cotton seed	2.25
25	Geo. F. Muth & Co	Paint	33.08
29	A. J. Pieters et al	Salaries	3,237.37
Dec. 1	Edw. S. Schmid	Packing moss	14.00
	E. G. Schafer & Co.	Pipe, etc	47.40
	J. E. W. Tracy	Traveling expenses	447.06
2	W. M. Girardeau	Seeds	2,451.60
	J. M. Thorburn Co.	Beet seeds	1,500.00
	Western Seed and Irrigation Co.	Seeds and bags	111.28
3	Wm. H. Lacy	Plastering, etc	192.30
	Pacific Coast Steamship Co	Passenger transportation	18.00
4	The Geo. W. Knox Express Co	Transportation	1.35
	F. N. Meyer	Salary	50.00
	Northrup-King Co	Seeds	3,843.00
	J. M. Thorburn & Co	do	320.00
5	The Washington Times Co	Advertising	6.30
6	National Mortar Co	Cement	1.72
	Lamb & Tilden	Pads, etc	6.20
	Jno. C. Parker	Files	2.10
	The C. J. McCubbin Co	Plumbing	18.45
8	F. Barteldes & Co	Seeds	1,755.50
	W. F. Allen	Strawberry plants	244.00
	Henry A. Dreer (Incorporated)	Plants	630.71
	J. P. Nawrath	Twine	14.42
	T. S. Hubbard Co	Currant plants	20.40
	The Stumpp & Walter Co	Seeds	84.20
	Whitall, Tatum Co	Graduates	2.06
	Capital Traction Co	Tickets	10.00
	Thos. Cook & Son	Passenger transportation	6.50
12	Rudolph, West & Co	Hardware, etc	13.80
	Z. D. Gilman	Alum and soda	.46
	Barber & Ross	Nails, etc	9.06
	Palman Moog	Bulbs	3,337.00
	Johnson & Stokes	Seeds	89.60
	G. L. Taber	Orange trees	4.00
	Elton Fullmer	Analysis of beets	5.00
	D. L. Pierson	Pecans	25.00
	T. S. Hubbard Co	Grape vines	541.50
	Henry A. Dreer (Incorporated)	Seeds	46.50
	Thos. Meehan & Sons (Incorporated)	do	4.45
	E. J. Spangler & Co.	Bags	11.15
	F. Barteldes	Seeds, etc	162.90
15	J. E. W. Tracy	Traveling expenses	10.80
16	M. M. Miesse & Son	Seeds	262.00
	T. W. Wood & Son	do	200.00
17	Jerome B. Rice Seed Co.	do	1,207.22
	E. Morrison Paper Co	Pencils	.50
19	Baltimore & Ohio R. R. Co	Passenger transportation	16.50
	Pennsylvania Co	do	13.50
	Southern Rwy. Co	do	6.75
	Pennsylvania R. R. Co	do	14.00
22	F. P. Starr	Wiring warehouse	45.00
	do	Moving telephone	2.50
24	Jas. T. O'Brien	Gas fitting	25.00
31	A. J. Pieters et al	Salaries	3,219.23
	Total second quarter		48,321.65

164 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

PURCHASE AND DISTRIBUTION OF VALUABLE SEEDS—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Jan. 2	F. P. Starr	Call bells	\$11.00
3	F. N. Meyer	Salary	50.00
5	Jerome B. Rice Seed Co.	Beet seed	494.28
	L. G. Carpenter	Sugar beets	100.00
	W. D. Hoard	Barley	50.00
	Henry A. Dreer (Incorporated)	Bulbs	85.50
	J. M. Thorburn & Co	Beet seed	70.40
	Edw. S. Schmid	Packing moss	210.00
	American Writing Machine Co.	Typewriter stand	3.50
6	The Folmer & Schwing Manufacturing Co.	Repairs to camera	2.60
	W. Atlee Burpee	Seeds	3.50
	C. C. Morse & Co	do	19.75
	The Okonite Co. (Limited)	Wire	10.00
	G. L. Taber	Fruit trees	14.45
7	F. P. Starr	Moving telephone	* 5.00
	The Brown Bag Filling Machine Co.	Putting up seeds	6,553.07
12	Jas. A. Berberich	Paper	5.80
	C. A. Muddiman & Co	Hot plate	3.50
	M. Du Perow	Electric supplies	3.75
	do	do	2.25
	Woodward & Lothrop	Desk	24.50
	Thos. Somerville & Sons	Unions, etc	2.34
	do	Fittings	22.28
13	Thos. W. Smith	Doors, etc	16.65
14	F. P. Starr	Call bell	13.00
15	J. M. Thorburn & Co	Seeds	1,700.00
	Thos. Meehan & Sons (Incorporated)	Trees, etc	517.60
	T. S. Williams	Seeds	699.58
	The Albert Dickinson Co	do	216.58
16	R. P. Summerkamp	Rice	15.00
	T. W. Wood & Sons	Beans	10.50
	Geo. W. Churchill	Salary	59.68
	Thos. Meehan & Sons (Incorporated)	Plants	279.00
20	J. E. W. Tracy	Traveling expenses	16.00
	E. F. Spears & Sons	Grass seed	777.60
	Chas. Parker	Seed	454.00
	Robt. Gair	Envelopes	59.47
	Robt. Craig	Plants	75.00
	T. S. Hubbard Co	do	36.50
21	A. J. Pieters	Expenses	21.40
	do	Traveling expenses	28.56
	J. T. Walker & Sons	Pipe	12.60
	Maurice Joyce Engraving Co.	Plates	.50
	Neely Electric Construction and Supply Co	Bushings, etc	10.85
	E. G. Davis	Labor	159.51
	do	do	58.98
	E. G. Shafer & Co	Tees, etc	11.98
	do	Ells	.76
	do	Pipes	1.21
	Hugh Reilly	Turpentine	2.60
	do	Glass	3.05
	Woodward & Lothrop	Kettle and pan	2.30
	do	Can	1.25
	do	Mirrors	5.00
	do	Pens and cards	5.80
	do	Desk	17.25
	United States Electric Lighting Co	Lamps	10.24
	W. B. Moses & Sons	Table, etc	52.77
	M. Du Perow	Electric supplies	6.47
	do	Wire, etc	8.14
	C. J. McCubbin Co.	Repairs	2.88
	E. Morrison Paper Co.	Cards and pencils	2.00
	Rudolph, West & Co	Brushes, etc	7.80
	The Smith Premier Typewriter Co	Repairs	8.25
	Mackall Bros	Soda	2.00
	do	Lime	2.40
	The Geo. W. Knox Express Co.	Transportation	245.05
	D. Frank Parker	Typewriter	18.36
	Thos. W. Riley	Manure	100.00
22	Jos. A. Berberich	Prepared paper	3.90
	T. W. Wood & Son	Peas	2,750.00
	Postal Telegraph Cable Co	Service	.20
23	J. R. Collins	Bags	405.05
	J. M. Thorburn & Co	Seeds	665.00
	Waldo Rohnert	do	71.10
	Wyckoff, Seamans & Benedict	Repairs	9.75
24	B. T. Galloway	Traveling expenses	37.85
	Thos. Somerville & Sons	Fittings	2.03
	do	Values	9.88
	Northern Pacific Rwy. Co	Passenger transportation	10.40

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## PURCHASE AND DISTRIBUTION OF VALUABLE SEEDS—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Jan. 24	Cincinnati Northern R. R. Co	Passenger transportation	\$10.00
26	The Geo. W. Knox Express Co	Transportation	28.24
27	Louisville and Nashville R. R. Co	Passenger transportation	20.63
	Michigan Central R. R. Co	do	14.25
28	The Brown Bag Filling Machine Co	Putting up seeds	6,424.92
	Geo. P. Killian Co	Paper boxes	206.70
	Geo. F. Muth & Co	Brushes, etc	23.77
29	United States Envelope Co	Envelopes	40.80
	Leonard Tufts	Trees	36.00
	Church & Stephenson	Lumber	5.78
	do	Jambs and transoms	18.60
	do	do	27.35
	do	Lumber	28.10
	do	do	38.27
	do	do	49.40
	do	do	64.77
	do	do	87.48
	do	do	134.00
	Yawman & Erbe Manufacturing Co	Sections	47.00
	Jno. Mitchell, jr	Pipe, etc	8.92
	Ernest Betz	Burner	12.00
31	A. J. Pieters et al	Salaries	3,319.41
Feb. 2	J. M. Thorburn & Co	Seeds	425.00
	do	do	125.00
	do	do	1,317.50
	D. V. Burrell	Bags	96.63
	J. Ross Collins	Bulbs	99.80
	Polman Mooy	Millet	38.25
	J. R. Henry	Ribbons	6.75
3	D. Frank Parker	Envelopes	318.00
4	United States Envelope Co	Copyholder	2.00
	Fox Typewriter Co. (Limited)	Seed	18.64
	D. I. Bushnell & Co	do	1.90
	J. H. H. Boyd	Salary	50.00
5	F. N. Meyer	Shipping tags, etc	26.05
6	Jno. C. Parker	Barrels	12.00
	Jno. M. Beavers	Desks, etc	18.90
7	Woodward & Lothrop	Screen, etc	23.93
9	W. B. Moses & Sons	Corrugated paper	12.00
	E. Morrison Paper Co	Pencils	1.20
	do	Cabinet, etc	12.15
	Yawman & Erbe Manufacturing Co	Sections	26.10
	do	Cabinet, etc	28.58
	Blue Line Transportation Co	Transportation	.50
	do	do	3.00
11	Geo. P. McCabe	Traveling expenses	19.15
	Jas. T. O'Brien	Gas fittings	2.50
	F. W. Bolgiano & Co	Seeds	60.83
	do	do	430.80
	Wyckoff, Seamans & Benedict	Typewriter, etc	90.00
	do	do	92.25
	Yawman & Erbe Manufacturing Co	Sections	43.25
12	American Writing Machine Co	Bond paper	18.00
	Capital Traction Co	Car tickets	10.00
	Adams Express Co	Transportation	2.35
14	The Goodwin Harris Co	Seeds	6,695.00
	Northrup, King & Co	do	4,375.20
	Jerome Rice Seed Co	do	3,479.00
	The Henry Phillips Seed and Implement Co	do	700.00
	do	do	1,729.83
	T. W. Wood & Sons	do	2,414.80
	T. S. Williams	do	600.00
	Elias L. Rivers	do	300.00
	J. M. Thorburn & Co	do	78.98
16	The Draper Manufacturing Co	Repairing thermometers	6.75
	The Geo. W. Knox Express Co	Transportation	.62
	do	do	35.08
	Thos. Somerville & Sons	Pump, etc	3.60
	do	Pipe, etc	8.29
	The Brown Bag Filling Co	Seeds	6,683.01
	S. J. Reuter	do	10.00
	H. Weber & Sons	do	12.00
17	N. L. Willet Drug Co	do	9.75
	D. F. Parker	Typewriter paper	10.20
	Church & Stephenson	Lumber	15.26
	F. W. Bolgiano & Co	Harness	30.00
18	W. W. Tracy, sr	Salary	116.67
	New York, New Haven and Hartford R. R. Co	Passenger transportation	7.80

166 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

PURCHASE AND DISTRIBUTION OF VALUABLE SEEDS—Continued.

Date.	Name.	Nature of payment	Total.
1903.			
Feb. 19	The Pennsylvania R. R. Co.....	Passenger transportation.....	\$10.00
	The Long Island R. R. Co.....	do.....	4.20
	Baltimore and Ohio R. R. Co.....	Transportation.....	52.92
	Bobbinck & Atkins.....	Lilacs.....	4.50
	S. J. Goddard.....	Plants.....	10.00
20	J. M. Thorburn & Co.....	Seed mixture.....	15.35
	J. T. Jones.....	Cotton seed.....	225.00
	D. M. Ferry & Co.....	Seeds.....	847.98
	C. F. Moore.....	Cotton seed.....	500.00
	T. J. King.....	do.....	120.00
	Peter Henderson & Co.....	Seeds.....	74.05
	Jerome B. Rice Seed Co.....	do.....	3,285.45
	T. W. Wood & Son.....	Tobacco seed.....	517.25
	do.....	do.....	12.50
21	do.....	do.....	100.00
	The Maurice Joyce Engraving Co.....	Engraving.....	5.50
24	Yawman & Erbe Manufacturing Co.....	Index section, etc.....	15.75
	D. W. Galenhouse.....	Traveling expenses.....	6.00
25	Edwd. H. Morrison.....	Sugar-beet seed.....	900.00
	American Writing Machine Co.....	Typewriter paper.....	22.50
	C. A. Muddiman.....	Burners.....	1.20
	Jas. B. Lambie.....	Locks.....	1.50
28	Geo. Meier & Co.....	Gum arabic.....	10.00
	A. J. Pieters et al.....	Salaries.....	3,365.23
Mar. 3	M. Cushman & Co.....	Corn.....	300.00
	T. W. Wood & Sons.....	Seeds.....	45.75
	Jas. B. Allen.....	Cotton seed.....	375.00
	C. G. Hopkins.....	Sugar beets.....	95.27
	W. Atlee Burpee & Co.....	Seeds.....	352.40
	F. Barteldes & Co.....	do.....	27.25
	The Globe Register Co.....	Paper.....	33.60
	W. Atlee Burpee & Co.....	Seeds.....	1,456.50
	do.....	do.....	263.75
	do.....	do.....	171.44
	Jno. M. Parker.....	Cotton seed.....	200.00
	E. J. Spangler & Co.....	Bags.....	8.79
	Fancher Creek Nurseries (Incorporated).....	Berry plants.....	1.90
	J. M. Thorburn & Co.....	Teosinte.....	12.50
	do.....	Seeds.....	12.71
	do.....	do.....	18.90
	do.....	do.....	21.80
	do.....	do.....	36.10
	do.....	do.....	1,008.00
	Henry A. Dreer (Incorporated).....	Plants.....	110.00
	The Chesapeake and Potomac Telephone Co.....	Service.....	12.50
	do.....	do.....	12.50
	F. P. May & Co.....	Trucks.....	19.00
	Wyckoff, Seamans & Benedict.....	Ribbons.....	1.65
	do.....	Typewriter.....	119.25
	Daniel Hiser.....	Flower pots.....	8.00
	Lamb & Tilden.....	Daters.....	12.00
	W. W. Tracy, sr.....	Traveling expenses.....	46.89
4	do.....	Salary.....	116.73
	F. N. Meyer.....	do.....	50.00
	The Brown Bag Filling Machine Co.....	Putting up seeds.....	6,355.29
	Wolf Bros.....	Envelopes.....	3.50
5	Potomac Electric Power Co.....	Current.....	2.04
	Hugh Reilly.....	Glass.....	.72
7	The Andrew J. Joyce Carriage Co.....	Wagon top.....	48.00
9	T. J. King.....	Cotton seed.....	120.00
	Mary Best.....	Sorghum seed.....	500.00
	do.....	Seeds.....	50.00
	The Henry Phillips Seed and Implement Co.....	do.....	896.00
	do.....	do.....	126.00
	Geo. W. Millar & Co.....	Manila paper.....	31.20
	Peter Henderson & Co.....	Seeds.....	51.20
	do.....	do.....	109.10
	Jno. Griffin.....	Cotton seed.....	500.00
	The Albert Dickenson Co.....	Clover seed.....	127.50
	D. M. Ferry & Co.....	Seeds.....	3.83
	Northrup, King & Co.....	do.....	4.46
	Vilmorin, Audrieux & Co.....	do.....	742.76
	Peter Fisher.....	Cuttings.....	5.00
	J. M. Thorburn & Co.....	Seeds.....	171.60
11	A. J. Pieters.....	Traveling expenses.....	17.20
	J. E. W. Tracy.....	do.....	18.40
	Yawman & Erbe Manufacturing Co.....	Sections.....	49.10
	E. Morrison Paper Co.....	Bags.....	19.77
	Jno. C. Parker.....	Carbon paper.....	15.00

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

PURCHASE AND DISTRIBUTION OF VALUABLE SEEDS—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Mar. 11	The Hammond Typewriter Co	Typewriter stand	\$3.50
14	Robt. Gair	Envelopes	7.26
16	Cleveland Seed Co	Beans	2,017.00
	Saml. G. Stoney	Rice	12.00
	D. M. Ferry & Co	Seeds	15.29
	Henry F. Mitchell	do	1.34
	J. M. Thorburn & Co	do	81.25
	Henry C. Anthony	do	173.00
	E. Brown	Traveling expenses	25.93
	Geo. P. McCabe	Expenses	2.50
18	E. Morrison Paper Co	Bags	33.93
	J. L. Taber	Peach scions	.75
	The Brown Bag Filling Machine Co.	Putting up seeds	6,324.83
19	W. W. Tracy, sr	Salary	125.00
20	T. W. Wood & Sons	Seeds	62.50
	J. M. Thorburn & Co	do	158.25
	E. J. Spangler & Co	Satchel seed bag	22.08
	Alburtus N. Clark	Corn	3.75
	Clucus & Doddington Co.	Bulbs	67.00
	J. M. Thorburn & Co	Seeds	12.87
	do	do	145.25
	do	Beans	666.93
	do	Seeds	768.65
	J. C. Robinson	Sweet corn	932.00
21	Wyckoff, Seamans & Benedict	Typewriters	182.25
	do	do	90.00
	E. F. Price & Co	Prepared paper	49.00
	H. Webber & Sons	Carnation cuttings	21.50
	C. C. Morse & Co	Seeds	149.33
	do	do	399.41
	Jas. H. Shepard	Wheat	280.00
	Wm. Henry Maule	Seeds	3.16
	Portland Seed Co	do	105.00
	Henry Nungesser & Co	do	102.01
	do	Chrysanthemums	6.72
	Henry A. Dreer (Incorporated)	Seeds	17.75
	J. M. Thorburn & Co	do	74.84
	The Goodwin-Harries Co	do	2,226.00
23	Potomac Electric Power Co	Electric connections	16.80
	Woodward & Lothrop	Desk and stool	26.60
	Potomac Electric Power Co	Current	5.46
	C. C. Morse & Co	Seeds	298.58
24	Vilmorin, Andrieux & Co	do	56.47
25	The Stumpf & Walter Co.	do	70.95
26	Washington Gaslight Co	Gas	.90
	F. W. Bolgiano & Co	Seeds	251.05
	Church & Stephenson	Lumber	34.87
	do	do	82.50
	Daniel Heiser	Pots	15.00
	F. W. Wood & Sons	Seeds	414.00
	J. Bolgiano & Son	Beans	232.75
	T. W. Wood & Sons	Corn	316.50
	do	Tobacco seed	65.00
	do	Seeds	9.16
	W. Atlee Burpee	do	169.71
	J. M. Thorburn & Co	do	126.25
	do	do	18.00
	Henry A. Dreer (Incorporated)	do	50.40
	do	Dahlias, etc	12.50
	Vaughan's Seed Stores	Seed	9.80
	Yawman & Erbe Manufacturing Co	File	14.50
27	R. P. Andrews & Co. (Incorporated)	Manila paper	243.00
	Jas. S. Topham	Repairing trunk	7.50
	Autographic Register Co	Slips	88.20
	Reichart & Schulte	Peas	35.60
31	A. J. Pieters et al	Salaries	3,912.97
	Total third quarter		105,863.57
Apr. 1	W. W. Tracy, sr	Salary	133.30
	F. N. Meyer	do	50.00
2	The Henry Phillips Seed and Implement Co	Seeds	7.90
	do	do	945.12
	do	do	3,038.75
	The E. B. Clark Co.	do	1,169.85
	do	do	325.00
	J. M. Thorburn & Co	do	19.55
	do	do	40.50
	W. Atlee Burpee & Co	do	17.72

*Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.*

## PURCHASE AND DISTRIBUTION OF VALUABLE SEEDS—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Apr. 2	W. Atlee Burpee & Co	Seeds	\$80.00
	do	do	1,125.65
	Jerome B. Rice Seed Co	do	480.00
	Comstock, Ferre & Co	do	47.70
	Stumpf & Walter Co	do	17.50
	Bobbinck & Atkins	Fruit trees	85.50
	D. M. Ferry & Co	Seeds	73.32
	E. W. Bullinger	Postal and Shippers' Guide	3.75
	Washington Gaslight Co	Meter connections	4.50
	F. W. Bolgiano & Co	Seeds	9.40
	do	do	6.78
	do	do	32.65
	American Writing Machine Co	Paper	77.40
	Capital Traction Co	Tickets	10.00
	W. B. Moses & Sons	Table, etc.	16.66
3	Jas. L. Reid	Seed corn	8.45
	Portland Seed Co	Seeds	7.15
	The Maurice Joyce Engraving Co	Cut, signature	.50
4	A. D. Shamel	Salary	120.00
	The Brown Bag Filling Machine Co	Putting up seed	4,421.07
6	The Andrew J. Joyce Carriage Co	Repairs to wagon	12.00
10	The Hammond Typewriter Co	Typewriter stand	3.50
11	Jno. C. Parker	Fountain pen	5.00
	do	Letter-file boards	9.91
	F. W. Bolgiano & Co	Fertilizer	15.60
	J. Louis Loose	Azalea plants	54.00
	W. H. May & Son	Oats	9.75
	Edw. S. Schmid	Labels	2.25
	do	do	34.00
	J. Baumgarten & Sons	Numbering machines	52.50
	Wyckoff, Seamans & Benedict	Typewriter, etc	92.25
	J. B. Kendall	Drill, etc	14.00
13	Woodward & Lothrop	Burlap and chair	22.50
	M. Du Perow	Electric supplies	2.73
	Hugh Reilly	Turpentine	2.50
	Brentano's	Note books	5.16
	The Maurice Joyce Engraving Co	Engraving	1.50
	do	Cut, signatures	1.00
	Blue Line Transfer Co	Transportation	11.10
14	Lilly, Borgardus & Co	Seeds	3.50
	Autograph Register Co	Paper	31.50
	C. C. Morse & Co	Lettuce seed	4,275.00
	do	Parsnip seed	702.54
	do	Onion seed	664.56
	do	Lettuce seed	264.42
	Stumpf & Walter Co	Seeds	2.55
	Henry A. Dreer (Incorporated)	do	186.25
	D. M. Ferry & Co	do	9.11
	Washington and Southern Rwy. Co	Transportation, seeds	12.15
	do	do	60.00
	do	do	70.20
	do	do	59.40
	do	do	.62
	do	do	.94
	The Randolph Paper Box Co	Pamphlet cases	10.13
	Eberhard Faber	Bands	50.66
	T. W. Wood & Sons	Seeds	26.65
	do	do	17.70
	Wabash R. R. Co	Transportation, seeds	.19
	W. W. Tracy, jr	Expenses	22.75
16	Thos. Meehan & Sons	Trees	24.40
	The Geo. W. P. Jerrard Co	Potatoes	17.90
	United States Envelope Co	Envelopes	31.50
	Vaughan's Seed Store	Seeds	63.84
	The Henry Phillips Seed and Implement Co	Sweet corn	399.00
	G. W. Oliver	Traveling expenses	28.70
	Vanderbilt's Express Co	Transportation, beans	3.57
	P. Mann & Co	Plant bed cloth	1.08
	The Hammond Typewriter Co	Stands	7.00
	P. H. Heiskell, jr., & Co	Pease	282.50
	The Geo. W. Knox Express Co	Transportation, seeds	178.14
	Western Union Telegraph Co	Service	17.96
	Fredk. W. Kelsey	Seeds	40.50
18	Littlefield, Alvord & Co	Transportation	46.73
	do	do	19.49
	Northern Pacific Rwy. Co	Passenger transportation	60.25
	Union Pacific R. R. Co	do	2.00
	Burlington and Missouri River R. R. Co	do	31.65
	Pennsylvania R. R. Co	do	6.50

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## PURCHASE AND DISTRIBUTION OF VALUABLE SEEDS—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Apr. 18	Pennsylvania R. R. Co.	Passenger transportation	\$14.25
	do	do	16.50
	do	do	30.00
	The Missouri Pacific Rwy. Co	do	5.75
	Chicago, Rock Island and Pacific Rwy. Co.	do	22.11
	The Pennsylvania R. R. Co.	Transportation	4.80
21	California Nursery Co	Vines	125.84
	J. M. Thorburn & Co	Beans	14.00
	do	Climbers	9.88
	T. V. Munson & Son	Grape vines	182.60
	Yawman & Erbe Manufacturing Co	Case	22.00
	The Dayton Paper Novelty Co	Paper, etc	31.20
	W. Atlee Burpee & Co.	Seeds	5.84
	Peter Henderson & Co	do	2.81
	August Rolker & Sons	do	10.00
	Bush & Sons	Grape vines	29.80
	The Utah Sugar Co	Beet seeds	15.00
22	W. W. Long	Traveling expenses	7.65
23	C. C. Morse & Co.	Seeds	102.59
	F. W. Bolgiano & Co	do	107.00
	do	do	23.54
24	Capital Traction Co	Car tickets	10.00
	The Brown Bag Filling Machine Co	Putting up seeds	5,960.57
25	Henry A. Dreer (Incorporated)	Seeds	2.94
	Robt. Gair Co.	Bags	7.50
	J. P. Nawrath	Twine	30.52
28	W. M. Hays	Barley	25.00
	J. M. Thorburn & Co	Seeds	18.15
	The Henry Phillips Seed and Implement Co	do	32.50
	T. W. Wood & Sons	do	341.59
	Will W. Tracy	Traveling expenses	59.37
	C. P. Hartley	Expenses	61.17
	Edw. S. Schmid	Labels	50.00
30	A. J. Pieters et al	Salaries	3,786.55
May 1	W. W. Tracy, sr	Salary	247.25
	J. N. Meyer	do	50.00
	Western Seed and Irrigation Co	Sweet corn	1,377.00
	Whitney-Eckstein Seed Co	Seeds	236.78
	A. N. Jones	do	136.80
	Leonard Tufts	do	22.75
	H. C. & J. B. Agnew	do	7.50
	J. M. Thorburn & Co	do	10.43
2	Z. D. Gilman	Filters	14.40
	M. G. Copeland Co	Awnings	45.26
	Brentanos	Memorandum books	2.00
	Edw. S. Schmid	Labels	38.00
	do	do	38.00
	E. Brown	Traveling expenses	9.00
7	J. E. W. Tracy	do	27.44
8	Barber & Ross	Wire nails	2.13
	Chas. Becker	White lead	1.40
	Edw. S. Schmid	Labels	7.00
	Z. D. Gilman	Scales, etc	3.40
	The G. W. Knox Express Co	Transportation	4.79
	E. J. Pullman	Slide cases	3.00
	Wm. Ballantyne	Tags	45.10
	Adams Express Co.	Transportation	47.06
	do	do	5.60
	do	do	1.25
	Washington Gaslight Co.	Gas	1.40
	do	do	1.60
	American Cycle Manufacturing Co	Bicycle	40.00
	W. B. Moses & Sons	Stool	4.50
	do	Burlap	8.00
	Yawman & Erbe Manufacturing Co	Guides	5.25
	Chesapeake and Potomac Telegraph Co	Service	3.89
	do	do	.80
	United States Express Co	Transportation	1.55
	do	do	11.55
	Potomac Electric Power Co	Current	6.63
	F. W. Bolgiano & Co	Seed corn	462.88
	Postal Telegraph Cable Co	Service	.60
	A. J. Pieters	Traveling expenses	14.16
	do	do	50.60
11	The Brown Bag Filling Machine Co	Putting up seeds	3,710.65
13	W. W. Tracy, jr	Expenses	67.22
15	Brown Bag Filling Machine Co	Putting up seeds	2,445.64
	N. B. Keeney & Son	Seeds	1,465.00
	Crumbaugh & Kuehn	do	383.15

170 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

PURCHASE AND DISTRIBUTION OF VALUABLE SEEDS—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
May 15	The Livingston Seed Co	Seed peas	\$253.75
	The Albert Dickinson Co	Seeds	283.61
	C. H. Billingsley	Superintending work	31.00
	The Fyricide Manufacturing Co	Fyricide extinguishers	40.50
	Kellogg Switchboard and Supply Co	Wall set, No. 28	9.00
	Thos. Meehan & Sons (Incorporated)	Seeds	18.16
	Henry A. Dreer	do	30.80
	do	Pot labels	26.17
	J. P. Nawrath	Twine	31.22
	do	do	177.63
20	A. Lamson-Scribner	Traveling expenses	8.70
22	Edw. S. Schmid	Wire netting	18.00
	do	Paper	17.40
	do	Labels, etc	162.50
	Wyckoff, Seamans & Benedict	Typewriter, etc	90.00
	The Acetylene Co	Carbide	3.75
	Brentanos	Fountain pen	15.00
	do	Memorandum books	3.00
	J. M. Thorburn & Co	Seeds	1.50
	do	do	5.00
	T. W. Wood & Sons	do	70.00
	Henry A. Dreer	do	50.50
	Franklin Davis Nursery Co	do	30.50
	H. Weber & Son	do	40.00
	J. H. Lane & Co	Tenting cloth	29.04
	Euclid Avenue Nursery Co	Trees (fruit)	20.00
	Peter Remberg	Rooted cuttings	32.00
25	Lewis Roesch	Trees, etc	31.50
	Henry Fish	Beans	3.05
	The Okonite Co. (Limited)	Electric supplies	34.50
	Edw. S. Schmid	Peat	12.50
27	W. W. Tracy, sr	Traveling expenses	17.90
29	F. P. May & Co	Bristle sweeps	3.00
	Yawman & Erbe Manufacturing Co	Catalogue cards	30.00
	do	Sections	17.50
	D. Frank Parker	Paper	8.16
	R. P. Andrews & Co. (Incorporated)	do	42.00
	Daniel Hiser	Flower pots	30.00
	American Writing Machine Co	Paper	43.20
	M. Du Perow	Desk fan	12.50
	do	do	12.50
	The Powell Botanic Co	Plants	47.50
31	A. J. Pieters et al	Salaries	3,763.31
June 1	Edw. I. Knight	Salary	60.00
	W. W. Tracy, sr	do	255.50
3	The Michigan Central R. R. Co	Passenger transportation	21.15
	The Wabash R. R. Co	do	14.25
5	F. W. Thatcher	Testing beets	11.90
	J. R. Collins	Bags	42.33
	J. Ross Collins	do	296.61
	Hensien Manufacturing Co	Seed planters, etc	7.90
	The E. G. Hill Co	Seeds	32.00
	do	do	44.20
	The Powell Botanic Co	Plants	47.50
6	C. F. Wheeler	Traveling expenses	10.20
9	American Writing Machine Co	Paper	18.00
	Houghton & Delano	Photo supplies	4.93
	F. W. Bolgiano & Co	Plaster	7.00
	Potomac Electric Power Co	Current	6.15
	Washington Gaslight Co	Gas	1.60
	F. W. Bolgiano & Co	Fertilizer	42.00
	W. S. Clark	Plants	45.00
10	Edw. S. Schmid	Manure	25.00
	do	Bellows, etc	144.50
	Geo. F. Muth & Co	Brushes, etc	9.73
	M. Du Perow	Desk fans	25.00
	W. Silas Scheetz	Slides, etc	6.24
12	W. B. Moses & Sons	Looking glass	4.50
	do	Water cooler	5.50
	do	Chair	5.90
	do	Water cooler	6.38
	do	Tables	12.70
	do	do	17.85
	do	do	23.35
	do	Desk	23.40
	Thos. Somerville & Sons	Galvanized eils	2.44
	Jno. C. Parker	Machine, etc	18.50
	Woodward & Lothrop	Stands	20.74
	Rudolph, West & Co	Mowers	41.71



## Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## PURCHASE AND DISTRIBUTION OF VALUABLE SEEDS—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
June 12	B. T. Galloway	Traveling expenses	34.00
	do	do	70.05
13	Washington Gaslight Co.	Gas	1.20
	Potomac Electric Power Co.	Current	6.31
	Jno. R. Galloway	Fans	100.00
17	The Hoggson & Pettis Manufacturing Co.	Cloths, etc	12.75
	J. M. Thorburn	Corn	1.50
	do	Seeds	60.00
	Peter Henderson & Co.	do	2.00
	Vaughan's Seed Store	Lawn sprinklers	40.80
19	C. P. Goerz	Repairs	1.50
20	The Hoggson & Pettis Manufacturing Co.	Copying cloths	12.75
	Napa Valley Nursery Co.	Grapevines	28.15
	Armour & Co.	Fertilizers	202.50
	J. P. Nawrath	Twine	32.34
	The E. Howard Clock Co.	Clock	81.00
	Geo. W. Miller & Co.	Wrapping paper	90.00
	The Burnet Co.	Electric supplies	3.04
	Henry A. Dreer	Seeds	6.54
	W. Atlee Burpee & Co.	do	60.00
	Iowa Seed Co.	Maize, etc	5.05
22	Houghton & Delano	Films	1.80
	Littlefield, Alvord & Co.	Shoreing floor	15.00
	Will W. Tracy, sr.	Traveling expenses	47.76
23	Edw. S. Schmid	Paper	47.50
	do	Paste, etc	42.50
	do	Wire	3.75
	do	Labels	36.00
	Jas. B. Lambie	Screws	6.44
	do	Wheelbarrows	15.00
	Chas. Becker	Paint, etc	6.60
	W. Silas Sheetz	Photo supplies	29.85
	Geo. Meiers & Co.	Gum arabic	10.00
	The Armour Fertilizer Works	Fertilizer	70.25
	Rudolph, West & Co.	Rope, etc	98.95
	Thos. W. Smith	Window screens	60.40
	F. W. Bolgiano & Co.	Chemicals	12.50
	Woodward & Lothrop	Chairs, etc	63.40
	W. B. Moses & Sons	do	10.32
	E. Morrison Paper Co.	Paper, etc	7.66
	Northrup, King & Co.	Watermelon seeds	361.00
	E. G. Schafer & Co.	Galvanized pipes, etc.	23.98
	Francis Miller	Oil	.60
	Wyckoff, Seamans & Benedict	Adjusting typewriter	6.35
	J. Baumgarten & Sons	Stamp rack	1.80
	J. T. Walker's Sons	Supplies	18.00
24	J. E. W. Tracy	Traveling expenses	77.76
	D. W. Galehouse	do	5.50
25	Washington Southern Rwy. Co.	Transportation	19.55
	do	do	58.91
	do	do	14.85
	do	do	3.60
	Pennsylvania R. R. Co.	do	3.47
	The Maurice Joyce Engraving Co.	Facsimile signature	.50
26	Boston and Maine R. R. Co.	Passenger transportation	6.10
	Michigan Central R. R. Co.	do	14.25
	Maine Central R. R. Co.	do	6.00
	Pennsylvania R. R. Co.	do	9.90
	do	do	42.00
	Baltimore and Ohio R. R. Co.	do	17.50
	Lehigh Valley R. R. Co.	do	9.22
	Chicago and Northwestern Rwy. Co.	do	26.40
	The Pullman Co.	do	2.50
	The G. W. Knox Expres Co.	do	16.45
	Morgan's Louisiana and Texas Railroad and Steamship Co.	do	25.80
	Southern Rwy. Co.	do	31.60
	The Dayton Paper Novelty Co.	Boxes	11.60
	Church & Stephenson	Lumber	51.00
	do	do	358.53
	Yawman and Erbe Manufacturing Co.	Card case	6.50
	do	Letter file	29.50
	Jas. B. Lambie	Zinc and wire nails	29.65
	Eberhard Faber	Bands	46.13
	Mackall Bros	Chloride of lime	7.20
	F. R. Pierson Co.	Nephrolepis	30.00
	Hugh Reilly	Turpentine	5.00
	E. G. Schafer & Co.	Black pipe	167.53
	Edw. Hurdle	Tin roof	17.00

172 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

PURCHASE AND DISTRIBUTION OF VALUABLE SEEDS—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
June 26	Edw. Hurdle	Iron gutter	\$2.80
27	W. J. Spillman	Traveling expenses	21.50
30	A. J. Pieters et al	Salaries	3,629.25
	Total fourth quarter		55,278.91
	<i>Supplemental.</i>		
July 1	W. W. Tracy, sr	Expenses	36.30
	do	Salary	247.25
	E. G. Knight	do	60.00
	The Brown Bag-filling Machine Co.	Extra labor	117.65
	H. A. Dreer	Seeds	306.00
2	A. J. Pieters	Traveling expenses	239.69
3	E. L. Coy	do	12.00
8	W. W. Tracy, sr.	Expenses	29.50
	do	Traveling expenses	8.00
	do	Expenses	121.50
11	Daniel Hiser	Flower pots	138.00
13	Vredenburg & Co.	Plates	3.00
	Ford Seed Co.	Corn	4.00
	Church & Stephenson	Lumber	14.44
	E. Morrison Paper Co	Envelopes	40.00
15	The M. Lindsay Rubber Co.	Paraffin apron, etc	7.50
	United States Envelope Co	Envelopes	13.75
	Henry A. Dreer	Seeds	250.00
	Edw. Palmer	Beans	20.00
	Houghton & Delano	Films, etc	46.96
18	The G. W. Knox Express Co	Transportation	3.98
20	Woodward & Lothrop	Clocks, etc	38.00
21	Church & Stephenson	Lumber	45.41
	do	Door, etc	11.25
	do	Lumber	25.00
	do	Window stool	7.20
	E. G. Schafer & Co	Tees	8.24
	do	do	39.25
	R. P. Andrews & Co. (Incorporated)	Paper	275.08
	Rudolph, West & Co	Locks, etc	14.94
22	Great Northern Rwy. Co	Transportation	52.26
	J. E. W. Tracy	Traveling expenses	24.90
23	The Rudolph Paper Bag Co	Cases	12.00
24	J. T. Thornson	Stamping paper	45.00
25	The International Postal Supply Co	Rent of machine	66.67
	do	do	100.00
	J. R. Collins	Cotton bags	590.25
	E. S. Schmid	Galvanized wire	7.07
	T. W. Smith	Door frames, etc	86.46
29	Church & Stephenson	Lumber	70.75
	The Chesapeake and Potomac Telephone Co.	Service	6.25
	Washington Gaslight Co.	Gas	1.20
	Potomac Electric Power Co	Current	10.59
	J. C. Parker	Carbon paper, etc	27.50
	D. F. Parker	Paper	37.74
Aug. 4	Barber & Ross	Nails	7.35
	Louis Hartig	Scale	27.00
	do	Iron	6.38
	The Washington Post Co	Advertisement	6.97
	A. J. Pieters	Expenses	12.03
	do	Seed	12.89
6	J. C. Parker	Boxes, etc	75.50
12	C. F. Wheeler	Traveling expenses	46.11
	W. H. Dyer	Lumber	2.10
15	W. B. Moses & Sons	Water cooler	5.50
	do	Indexes	1.05
	The Geo. W. Knox Express Co	Transportation	3.75
	The Chesapeake and Potomac Telephone Co.	Calls	2.15
	Z. D. Gilman	Paraffin, etc	2.58
	The Geo. W. Knox Express Co	Transportation	.25
17	Yawman & Erbe Manufacturing Co	Cupboard, etc	39.75
	E. J. Spangler & Co	Paper bags	53.79
	Yawman & Erbe Manufacturing Co	Cabinet	47.25
18	Church & Stephenson	Lumber	60.30
19	Andrew M. Soule	Oats, etc	200.00
Sept. 8	A. J. Pieters	Traveling expenses	16.85
9	Yawman & Erbe Manufacturing Co	File case, etc.	40.25
10	Barber & Ross	Hinges	.50
18	Western Union Telegraph Co	Telegraph service	15.87

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

PURCHASE AND DISTRIBUTION OF VALUABLE SEEDS—Continued.

Date.	Name.	Nature of payment.	Total.
<i>Supplemental—Continued.</i>			
1903. Sept. 18	Postal Telegraph Cable Co .....	Telegraph service .....	\$4.01
	Morgan's Louisiana and Texas Railroad and Steamship Co. ....	Passenger transportation .....	1.55
	Missouri, Kansas and Texas Rwy. Co .....	.....do .....	21.90
	St. Louis and San Francisco R. R. Co .....	.....do .....	8.10
	Galveston, Harrisburg and San Antonio Rwy. Co. ....	.....do .....	16.35
	Pennsylvania R. R. Co .....	.....do .....	16.50
19	Baltimore and Ohio R. R. Co. ....	.....do .....	25.35
	Illinois Central R. R. Co. ....	.....do .....	18.00
	The Yazoo and Mississippi Valley R. R. Co. ....	.....do .....	6.20
	The Wabash R. R. Co .....	.....do .....	4.35
	The Long Island R. R. Co .....	.....do .....	4.20
	Seaboard Air Line Rwy .....	.....do .....	23.55
	Southern Rwy. Co. ....	.....do .....	20.95
	Chicago and Alton Rwy. Co .....	.....do .....	13.90
	Central of Georgia Rwy. Co .....	.....do .....	8.15
	Pittsburg, Cincinnati, Chicago and St. Louis Rwy. Co. ....	.....do .....	7.00
21	Geo. F. Muth & Co. ....	Oil .....	1.30
22	Baltimore and Ohio R. R. Co. ....	Transportation .....	69.10
	.....do .....	.....do .....	4.80
	.....do .....	.....do .....	11.99
	.....do .....	.....do .....	45.96
	Pennsylvania R. R. Co .....	.....do .....	10.88
	.....do .....	.....do .....	60.00
	.....do .....	.....do .....	93.17
	Chesapeake and Ohio Rwy. Co. ....	.....do .....	544.59
	.....do .....	.....do .....	8.12
	New York Central and Hudson River R. R. Co. ....	.....do .....	1.90
Oct. 10	Postal Telegraph Cable Co .....	Telegraph service .....	1.62
	Adams Express Co .....	Transportation .....	2.28
	Geo. F. Muth & Co. ....	Oil, etc .....	23.27
	United States Express Co .....	Transportation .....	179.85
	.....do .....	.....do .....	214.14
12	Yawman & Erbe Manufacturing Co .....	Cards, etc .....	51.00
	.....do .....	.....do .....	48.00
22	P. A. Nebeker .....	Alfalfa seed .....	12.60
27	W. W. Tracy, sr .....	Expenses .....	9.13
31	The Missouri Pacific Rwy. Co .....	Transportation .....	27.75
	Missouri, Kansas and Texas Rwy. Co .....	.....do .....	18.65
	International and Great Northern R. R. Co. ....	.....do .....	6.25
Nov. 13	The Brown Bag-filling Machine Co .....	Bags .....	1,531.35
	Total .....		7,186.96

RECAPITULATION.

First quarter .....	\$22,808.42
Second quarter .....	48,321.65
Third quarter .....	105,843.57
Fourth quarter .....	56,278.91
Supplemental .....	7,186.96
Total .....	240,459.51

PURCHASE AND DISTRIBUTION OF VALUABLE SEEDS—SETTLED BY TREASURY.

Date.	Name.	Nature of payment.	Total.
1903. Jan. 24	Southern Pacific Co. ....	Passenger transportation .....	\$32.40
Mar. 4	.....do .....	.....do .....	16.75
June 23	.....do .....	.....do .....	64.85
Sept. 29	Pennsylvania R. R. Co .....	.....do .....	77.00
Sept. 21	Southern Pacific Co. ....	.....do .....	23.70
	Total .....		214.70
<i>Special agents.</i>			
1902. July 1	Ernest A. Bessey .....		2,500.00

174 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

FOREIGN SEED AND PLANT INTRODUCTION.

Date.	Name.	Nature of payment.	Total.
1902.			
July 25	Z. D. Gilman	Chloride of lime	\$0.60
28	The Smith Premier Typewriter Co.	Card platin	4.50
31	G. W. Oliver et al	Salaries	333.50
Aug. 18	Peter H. Rolfs	Expenses	33.65
25	H. B. Phillips	Salary	20.00
25	Edw. S. Schmid	Tree labels	12.50
	R. Carter Ballantyne	Letter books	3.70
30	G. W. Oliver et al	Salaries	333.50
Sept. 8	H. B. Phillips	Salary	20.00
	E. A. Bessey	Salary, July	126.40
	do	Salary, August	126.40
30	Geo. W. Oliver et al	Salaries	323.00
	Total first quarter		1,337.75
Oct. 3	P. H. Rolfs	Expenses	138.00
6	C. R. Callander	Plants	41.90
	H. B. Phillips	Salary	20.00
13	E. A. Bessey	do	122.20
16	P. H. Rolfs	Expenses	82.70
27	Wyckoff, Seamans & Benedict	Typewriter	17.00
31	G. W. Oliver et al	Salaries	333.50
Nov. 1	J. W. Kerr	Almond trees	10.00
	J. M. Thorburn & Co.	Seeds	96.00
4	The Geo. W. Knox Express Co	Fruits	9.67
	H. B. Phillips	Salary	20.00
5	Jennie H. Ericson	Fruits	.47
6	G. Onderdonk	Salary, September	13.33
	do	Salary, July	87.10
	do	Salary, August	100.00
	J. A. Pierpoint	Tubes	6.00
8	E. A. Bessey	Salary	126.40
10	Norfolk and Washington Steamboat Co.	Transportation	48.00
13	Houghton & Delano	Plates	6.42
18	International and Great Northern R. R. Co.	Passenger transportation	36.15
19	F. A. Tschiffely, jr.	Carbon	6.50
29	A. L. Scribner et al.	Salaries	225.20
Dec. 2	Jos. C. Cree	Papers, etc.	7.43
	G. Onderdonk	Peach seeds	74.40
4	H. B. Phillips	Salary	20.00
	Vilmorin, Andreux & Co	Seeds	1.06
	Seaman A. Knapp	Express	143.20
	do	Expenses	366.73
	G. Onderdonk	Traveling expenses	138.85
12	H. B. Phillips	Expenses	27.85
	Seaman A. Knapp	do	222.55
16	Jno. S. Cole	Traveling expenses	10.70
	Dr. Henry N. Ridley	Seeds	5.00
18	Geo. Bunyard & Co	Fruit trees	39.54
	Thos. Rivers & Son	do	126.85
	Great Northern Rwy. Co	Transportation	103.30
31	A. L. Scribner et al	Salaries	232.40
	Total second quarter		3,036.40
1903.			
Jan. 5	H. B. Phillips	Salary	20.00
10	M. A. Carleton	Traveling expenses	46.50
	do	Expenses	15.75
15	Yawman & Erbe Manufacturing Co	Case	48.00
	I. P. Roosa	Expenses	3.09
20	Newton B. Pierce	Traveling expenses	41.40
	Seaman A. Knapp	Expenses	159.50
	H. B. Phillips	do	57.72
21	Edw. S. Schmid	Moss	4.20
	The Geo. W. Knox Express Co	Transportation	95.53
22	Moyses Benams	Seed	2.05
26	H. B. Phillips	Expenses	8.85
27	Southern Rwy. Co.	Passenger transportation	33.30
31	A. L. Scribner et al	Salaries	237.70
Feb. 4	S. A. Knapp	Traveling expenses	45.75
5	H. B. Phillips	Salary	20.00
7	Woodward & Lothrop	Wash stand	7.00
9	United States Express Co	Transportation	1.94
	Dan Hiser	Flower pots	33.00
11	Edw. S. Schmid	Labels	45.50
12	Seaman A. Knapp	Salary	86.10
14	Fred Stockwell	do	50.00
	F. Dutilh & Co.	Flax seed	20.14

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## FOREIGN SEED AND PLANT INTRODUCTION—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Feb. 16	Robert Gair	Bags	514.10
19	Chicago and Northwestern Rwy. Co	Passenger transportation	33.40
	Terre Haute and Indianapolis R. R. Co	do	19.25
26	E. Mathy	Flaxseed	25.20
28	A. L. Scribner et al	Salaries	214.60
Mar. 3	The Chesapeake and Potomac Telephone Co.	Service	6.25
	do	do	6.25
5	The Geo. W. Knox Express Co.	Transportation	1.60
9	Fred Stockwell	Salary	50.00
	H. B. Phillips	do	20.00
16	D. S. Bliss	Traveling expenses	22.20
18	Vilmorin, Andrieux & Co	Almond trees	7.93
	do	Acorns	32.51
21	Seaman A. Knapp	Salary	77.80
25	Cooper, Taber & Co. (Limited)	Seeds	12.83
	A. Sellmer	do	40.66
	W. W. Johnson & Son (Limited)	do	7.41
	Peter H. Rolfs	Traveling expenses	283.32
31	A. L. Scribner et al	Salaries	173.70
	Total third quarter		2,132.03
Apr. 2	B. J. Agadjanian	Pistachio scions	27.50
	Hurst & Son	Seeds	35.75
6	Jno. C. Cole	Traveling expenses	8.80
	Seaman A. Knapp	Salary	86.10
	H. B. Phillips	do	20.00
	Fred Stockwell	do	50.00
13	Edw. Hurdle	Iron tanks	42.50
14	Great Northern Rwy. Co.	Transportation	5.25
	Sluis & Groot	Seeds	10.41
	Tokyo Plant, Seed and Implement Co.	Chrysanthemum plants	25.90
16	J. B. Cognet	Plants	5.93
17	The Geo. W. Knox Express Co.	Transportation	3.71
	Western Union Telegraph Co.	Services	3.45
21	Edw. S. Schmid	Labels	10.00
	F. C. Heinemann	Radish seed	8.50
22	Frank Jolly	Seeds	15.49
23	Seaman A. Knapp	Expenses	41.75
27	F. W. Bolgiano & Co.	Putting up alfalfa seed	28.50
30	Grace Bell et al.	Salaries	108.80
May 1	Thos. H. Kearney	Traveling expenses	316.95
	H. B. Phillips	Salary	20.00
	Seaman A. Knapp	do	82.40
4	Thos. H. Kearney	Expenses	6.15
5	Fred. Stockwell	Salary	50.00
7	Latham & Co.	Mango plants	52.75
8	Edw. S. Schmid	Knives, etc.	30.90
	The J. C. Ergood Co.	Brooms	2.65
	United States Express Co.	Transportation	53.33
	Postal Telegraph Cable Co.	Service	7.74
13	Frank Harrison	Engraving cards	14.50
15	Seaman A. Knapp	Expenses	226.58
16	Frank Harrison	Fountain pen	3.50
18	Seaman A. Knapp	Expenses	35.00
	do	do	44.00
19	The Geo. W. Knox Express Co.	Transportation	15.51
20	Vilmorin, Andrieux & Co	Seeds	27.28
	Peter H. Rolfs	Expenses	45.15
22	Seaman A. Knapp	Traveling expenses	63.26
	Daniel Hiser	Flower pots	90.75
	Houghton & Delano	Photo supplies	30.40
	do	do	75.50
	Robt. Thom	Plants	523.28
	Champagne Freres (Limited)	Dried dates	12.52
31	Grace Bell et al.	Salaries	112.40
June 3	Pennsylvania R. R. Co.	Passenger transportation	25.85
4	Fred. Stockwell	Labor	50.00
	G. Onderdonk	Salary	100.00
	Edgar Metcalfe	do	41.94
	Seaman A. Knapp	do	85.20
	H. B. Phillips	do	20.00
9	Washington Gaslight Co.	Gas	50
12	Haage & Schmidt	Seeds	7.69
	Rudolph, West & Co	Hose	47.50
	W. B. Moses & Sons.	Book case	8.00
	do	Desk	47.50
13	Houghton & Delano	Plates, etc	4.10

176 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

FOREIGN SEED AND PLANT INTRODUCTION—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
June 17	Yawman & Erbe Manufacturing Co	Cards	\$96.00
19	M. B. Stevens	Traveling expenses	35.60
	I. P. Roosa	Expenses	21.18
20	Yawman & Erbe Manufacturing Co	File case	28.00
	Vilmorin, Audrieux & Co	Vegetable seeds	5.94
22	M. A. Carleton	Traveling expenses	116.16
23	Rudolph, West & Co	Night latches	3.50
	W. Silas Sheetz	Photo supplies	47.30
	Jas. B. Lambie	Zinc	2.80
25	The Yokohama Nursery Co	Hemp seed	10.20
	Washington Gaslight Co	Gas	.10
26	Chicago and Northwestern Rwy. Co	Passenger transportation	7.07
	Pennsylvania R. R. Co	do	36.50
	Southern Rwy. Co	do	42.90
	Washington Southern Rwy. Co	do	10.60
27	M. B. Stevens	Traveling expenses	48.80
29	Seaman A. Knapp	Expenses	182.62
	I. P. Roosa	do	27.96
	do	do	26.33
	P. H. Dorsett	Traveling expenses	31.75
30	Grace Bell et al.	Salaries	108.80
	Total fourth quarter		3,831.63
	<i>Supplemental.</i>		
July 3	E. A. Metcalfe	Salary	50.00
	S. A. Knapp	do	82.40
	G. Onderdonk	do	100.00
	H. B. Phillips	do	20.00
	Fred Stockwell	do	50.00
11	W. T. Swingle	Expenses	41.77
	G. Onderdonk	Traveling expenses	123.31
	M. B. Stevens	do	16.05
15	Houghton & Delano	Camera, etc.	45.80
	W. M. Whyte	Copper floats	10.50
	Alex. Schmidt	Mailing boxes	23.75
	Barr & Sons	Flowers	13.99
17	Church & Stephenson	Lumber	40.00
25	G. L. Tabor	Propagating orange trees	74.50
29	Washington Gaslight Co	Gas	.20
Aug. 15	The Geo. W. Knox Express Co	Transportation	41.48
	Haage & Schmitt	Seeds	2.42
25	S. A. Knapp	Expenses	107.09
26	Thos. S. Ware	Plants	20.84
	J. P. William	Seeds	27.98
Sept. 18	S. A. Knapp	Traveling expenses	96.80
	Western Union Telegraph Co	Telegraph service	6.51
	do	do	5.69
	The Texas and Pacific Rwy. Co	Passenger transportation	37.80
	Southern Pacific Rwy. Co	do	3.80
	Morgan's Louisiana and Texas Railroad and Steamship Co.	do	26.85
19	Baltimore and Ohio R. R. Co	do	18.00
	The Wabash R. R. Co	do	7.50
	Seaboard Air Line Rwy	do	32.00
	Michigan Central R. R. Co	do	14.25
22	Galveston, Harrisburg and San Antonio Rwy. Co.	do	29.19
	Chicago and Northwestern Rwy. Co	Freight	10.98
	do	do	3.08
	Great Northern Rwy. Co	do	.71
Oct. 18	Seaman A. Knapp	Expenses	13.25
31	Atlantic Coast Line R. R. Co	Passenger transportation	9.80
	Total		1,408.29

RECAPITULATION.

First quarter	\$1,337.75
Second quarter	3,066.40
Third quarter	2,132.03
Fourth quarter	3,831.63
Supplemental	1,408.29
Total	11,776.10

## Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## FOREIGN SEED AND PLANT INTRODUCTION—SETTLED BY TREASURY.

Date.	Name.	Nature of payment.	Total.
1903.			
Mar. 4	The Baltimore and Ohio R. R. Co	Transportation	\$2.54
June 23	Southern Pacific Co	Passenger transportation	16.00
	Total		18.54
	<i>Special agents.</i>		
1902.			
July 1	Thos. H. Kearney		3,000.00
	Ernst A. Bessey		4,000.00
1903.			
May 29	Henry L. Bolley		500.00
	Total		7,500.00

## BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.

1902.			
July 17	E. Morrison Paper Co	Cards	\$1.00
	Edw. S. Schmid	Feed	7.00
	Parker, Bridget & Co	Coats	3.00
	B. B. Ernschaw & Bro	Oats	12.60
18	Wm. E. Mowrer	Traveling expenses	3.00
19	Della Brown	Services	9.78
	Henry E. Alvord	Traveling expenses	26.53
21	H. W. Mills & Co	Wire	29.14
22	Ch. Wardell Stiles	Traveling expenses	22.05
	Wagner Typewriter Co	Type, etc.	1.46
	S. Kann, Sons & Co	Oilcloth, etc	1.51
	Ernest Betz	Pipe	4.50
	Henry Evans	Roach paste	3.00
	District of Columbia Paper Manufacturing Co.	Paper	29.70
	J. P. Nawrath	Twine	10.19
	Library Bureau	Desks, etc	59.25
23	Queen & Co. (Incorporated)	Thermometers	7.20
	Theo. W. Estler	Alum	2.55
24	D. E. Salmon	Traveling expenses	42.23
26	Arch. McBride	do	27.55
28	S. M. Birch Lumber Co	Lumber	25.77
29	Geo. E. Howard & Co	Labels	800.00
31	A. Y. Gray	Hogs	67.50
	Marion Dorsett et al	Salaries	4,608.06
Aug. 2	Geo. E. Howard & Co	Labels	800.00
	Levi Wells	Services	125.00
4	B. F. Van Valkenburg	do	150.00
	H. A. Hedrick et al	Salaries	478.30
	Julius Huelsen et al	do	672.00
	W. H. Rose et al	do	1,150.40
	Geo. A. Myers & Co	Paper	27.50
	Eureka Blotter Bath Co	Copying cloth	6.05
	Lamb & Tilden	Ink	6.00
	F. W. Huntington et al	Salaries	155.10
	Samuel E. Bennett et al	do	887.50
	Edw. P. Dowd et al	do	178.50
	Nathan K. Pegley et al	do	254.30
	Albert Dean et al	do	606.50
	Thos. W. Carnachan et al	do	1,897.32
	H. D. Mayne	Services	101.10
	E. L. Volgenau	do	117.90
	Jos. W. Parker	do	117.90
	Leslie J. Allen	do	117.90
	Thos. A. Bray	do	117.90
	Wm. G. Shaw	do	117.90
	Geo. W. Browning	do	117.90
	Harry D. Paxson	do	117.90
	Thos. Castor	do	117.90
	Peter I. Kershner	do	117.90
	Geo. E. Totten	do	117.90
	Louis Metsker	do	117.90
	A. H. Wallace	do	117.90
	Harry B. Adair	do	117.90
	E. J. Foreman	do	101.10
	W. D. Jordan	do	101.10
	Albert N. Irwin	do	101.10
	W. L. Johnson	do	101.10

178 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Aug. 4	Clarence A. Clawson	Services	\$110.10
	Louis A. Klein	do	110.10
	Dan. McCunningham	do	110.10
	Harry L. McDonald	do	75.80
	Chas. A. Brown	do	75.80
5	Edw. S. Schmid	Feed and seed	15.00
	Merrill W. Lang	Traveling expenses	94.88
	C. L. Morin	Services	101.10
	Wm. H. Wade	do	75.80
	Chas. A. Schaufler et al.	Salaries	1,039.70
	Geo. C. Paville et al.	do	294.80
6	Edw. S. Schmid	White mice	1.50
	B. B. Ernsaw & Bro	Oats	13.60
	Southern Printers' Supply Co.	Electrotype	3.55
7	Don C. Ayer et al.	Salaries	3,994.72
	Harry N. Waller et al.	do	2,945.23
	A. R. Wake et al.	do	941.33
	U. G. Houck et al.	do	2,797.39
	Jas. J. Brougham et al.	do	1,315.60
	Albert E. Behnke et al.	do	1,206.10
	Lewis R. Baker et al.	do	922.80
	Geo. W. Pope et al.	do	783.33
	Boyd Baldwin et al.	do	628.20
	Edw. P. Schaffter et al.	do	603.51
	F. W. Ainsworth et al.	do	363.10
	J. C. Milnes et al.	do	286.40
	Joseph Miller et al.	do	254.30
	Louis K. Green et al.	do	239.10
	Geo. Ditewig et al.	do	269.50
	Jos. M. Good et al.	do	178.50
	W. J. Murphy et al.	do	178.50
	W. S. Cass et al.	do	178.50
	Fredk. Braginton et al.	do	178.50
	Wesley M. Neil et al.	do	178.50
	W. H. Gibbs et al.	do	161.70
	W. R. Fleming	Services	101.10
	Jas. W. Davis	do	75.80
8	E. Sudendorf	Butter	447.14
	Geo. E. Howard & Co.	Labels	800.00
	Lutz & Co.	Saddle, etc	37.50
	H. P. Pillsbury	Meal and straw	260.00
	J. M. Jeffries	Services	20.00
	F. P. Shea	Mare	50.00
	Rudolph, West & Co.	Wrench, etc	22.54
	Mackall Bros	Glycerine, etc	50.65
	Saml. E. Bennett	Use horse and buggy	38.00
	No Ears	Pasturing horse	29.90
	G. W. Judd	Corn	22.50
	G. M. Reeves	Pigs	21.00
	Travis & Defreecer	Fencing and nails	14.40
	Geo. S. Hickox	Services	117.90
	Jno. McBirney	do	134.80
	Lowell Clarke	do	117.90
	Walter E. Howe	do	117.90
	Matthias S. Lantz	do	117.90
	Frank C. Eells	do	117.90
	Hugh M. Rowe	do	117.90
	David C. Hanawalt	do	117.90
	Robt. H. Treacy	do	117.90
	Geo. A. Bond	do	117.90
	Nathl. B. Smith	do	117.90
	Clinton H. Bugbee	do	117.90
	Roy N. Drake	do	117.90
	J. Otis Jacobs	do	117.90
	R. A. Ramsay	do	117.90
	Warren Worcester	do	101.10
	A. R. Glaisyer	do	101.10
	I. W. O'Rourke	do	101.10
	H. J. Hammond	do	101.10
	Thos. White	do	101.10
	Frisbie T. Suit	do	101.10
	Wilton F. Crewe	do	101.10
	Howard D. Ebey	do	75.80
	W. R. Dennis	do	75.80
	A. J. Smith	do	75.80
	David R. Hodges	do	75.80
	Edw. A. Bunday	do	75.80
	Jas. Irwin	do	84.20
	Patrick Dorsey	do	6.00
	Harry F. Hume	do	56.00



Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Aug. 8	Jno. A. Bell	Services	\$48.00
	Wm. E. Mowrer	do	75.80
	A. J. Pistor	do	117.90
	Geo. W. Butler	do	117.90
	W. J. Kennedy	do	100.00
	D. Cumming	do	65.00
	Allen A. Holcombe	do	117.90
	M. O. Anderson	do	117.90
	M. W. Lang	do	125.00
	Jno. Forbes et al.	Salaries	2,923.44
	Chas. H. Zink et al.	do	1,769.29
	Wm. Thompson et al.	do	1,236.94
	Albert J. Payne et al.	do	1,056.10
9	O. E. Dyson et al.	do	9,071.89
	W. J. Stewart et al.	do	5,865.59
	Arda Watson et al.	do	884.94
	Jno. W. Burton et al.	do	2,178.23
	Arthur B. Morse et al.	do	178.50
11	Yawman & Erbe Manufacturing Co	Cards	8.55
	Eimer & Amend	Pipettes, etc	6.80
	Z. D. Gilman	Needles, etc	10.85
	J. T. Walker Sons	Lime	7.50
	American Ice Co	Ice	42.13
12	E. A. de Schweinitz	Expenses	16.05
	Houghton & Delano	Velox	3.50
13	A. Y. Gray	Hogs	45.00
14	S. M. Birch Lumber Co.	Lumber	19.70
	Whitall, Tatum Co	Test tubes	6.60
	do	Glass rods	.90
	Yawman & Erbe Manufacturing Co	Binding case	8.40
	Wm. Krafft	Cover slips	3.40
	Pehr Ehrenhiem	Office rent	30.00
	St. Louis National Stock Yards	do	50.00
	A. G. G. Richardson et al.	Salaries	7,493.84
	E. N. Hutchinson et al.	do	486.70
	Thos. J. Turner et al.	do	833.80
	Henry P. Ormsby et al.	do	190.00
	Richd. W. Tuck et al.	do	401.14
	W. B. Niles et al.	do	538.20
	Frank D. Ketchum et al.	do	988.10
	F. L. De Wolf et al.	do	239.10
	Trajan A. Shipley et al.	do	321.50
	Jas. S. Kelly et al.	do	239.10
	Richd. J. Blanche et al.	do	178.50
	Niels C. Sorensen et al.	do	1,866.00
	Rice P. Steddum et al.	do	205.60
	Geo. S. Baker et al.	do	422.80
	Robt. Darling et al.	do	193.70
	Chas. Loveberry et al.	do	252.70
	Chas. Keane et al.	do	421.10
	O. B. Hess et al.	do	195.40
	F. W. Bicknell	Services	200.00
	Jas. M. Turner	do	75.80
	Willis B. Lincoln	do	117.90
	Fredk. T. Dolan	do	117.90
	W. P. Ellenberger	do	117.90
	W. D. Collyer	do	200.00
	F. M. Perry	do	117.90
	Jas. Fleming	do	106.52
	Thos. O'Shaughnessy	do	75.80
	Murray J. Myers	do	101.10
	G. W. Ward	do	117.90
	Hervey T. Potter	do	5.00
	Tresey Cowan	do	17.95
	W. E. Hill	do	101.10
	Frank A. Paddock	do	9.78
	Chas. Cowie	do	136.00
	E. L. Volgenau	Traveling expenses	10.20
	W. D. Collyer	do	6.20
	Henry T. Potter	do	2.75
	Geo. W. Pope	do	6.74
	C. L. Morin	do	4.55
	C. A. Clawson	do	9.05
	Wm. G. Shaw	do	16.10
	Wm. C. Honan	do	20.05
	Boyd Baldwin	Office expenses	5.47
	Geo. W. Pope	do	2.09
	W. H. Rose	do	8.85
	Clarence Loveberry	do	5.75
	Thos. J. Turner	do	6.22

180 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Aug. 14	A. G. G. Richardson	Office expenses	\$8. 15
	Wm. Lochte	Repairing cart	7. 00
	do	Horseshoeing, etc	13. 00
	W. B. Moses & Sons	Refrigerator, etc	18. 39
15	A. P. Little	Stationery, etc	6. 75
	Mendenhall Transportation Co	Hauling	12. 00
	A. Haumball	Repairing chair	2. 00
	E. F. Goodall	Record	5. 50
	The American News Co	Eureka Farmer clips	9. 55
	Emory Davis	Inkstand	4. 50
	W. H. Wray	Traveling expenses	8. 14
	J. F. Ryder	do	30. 00
	Fredk. T. Dolan	do	6. 35
	A. J. Pistor	do	7. 59
	A. H. Wallace	do	18. 00
	Chas. Cowie	do	24. 00
	F. L. Russell	do	7. 25
	David R. Hodges	do	8. 50
	Walter E. Howe	do	3. 75
	Allen A. Holcombe	do	20. 80
	Chas. A. Brown	do	3. 25
	Geo. E. Totten	do	22. 65
	Louis A. Klein	do	13. 35
	Geo. W. Browning	do	4. 90
	Peter I. Kershner	do	5. 75
	Wilton F. Crewe	do	4. 00
	W. H. Wray	Office rent	2. 73
	W. B. Niles	do	35. 40
	Saml. E. Bennett	do	13. 02
	W. H. Wray	Services	387. 50
	Caroline Burnaby	do	40. 00
	J. F. Ryder	do	168. 50
	F. L. Russell	do	16. 00
16	Granville H. Parks	do	134. 80
	Library Bureau	Cards	2. 50
	Densmore Typewriter Co	Repairing machine	37. 50
	Geo. E. Howard & Co	Meat-inspection labels	800. 00
18	W. B. Niles	Traveling expenses	10. 89
19	Carrie Ehlers	Services	42. 39
	Rosanna McDonnell	do	29. 35
	R. Carter Ballantyne	Stationery	50. 02
20	J. T. Thomson	Stamping letter paper	16. 77
	R. W. Burrell	Galvanized pipe	41. 24
	Chas. Hubinger	Hardware	42. 75
	R. J. O'Brien	Oats, etc	9. 55
	Biddell & Bogart Printers' Supply Co	Paints, etc	12. 28
	Jno. J. Hayes	Traveling expenses	12. 90
	Thos. Castor	do	28. 70
	Dan. McCunningham	do	25. 42
	Albert N. Irwin	do	20. 50
	Jos. W. Parker	do	7. 00
	Harry McDonald	do	14. 05
	Wm. D. Jorden	do	80. 29
	H. D. Mayne	do	29. 95
	G. W. Ward	do	30. 75
	F. M. Perry	do	36. 20
	Wm. F. Pfaeaging	do	14. 40
	Chas. M. Day	do	36. 78
	Robt. H. Treacy	do	17. 10
	Howard D. Ebey	do	22. 25
	Julius Huelson	Office expenses	6. 30
21	Church & Stephenson	Lumber	384. 56
	Geo. E. Howard & Co	Meat-inspection labels	800. 00
	Alec Adams	Horses	20. 00
22	Jno. McBirney	Traveling expenses	89. 00
	J. Otis Jacobs	do	78. 55
	Edwd. A. Bundy	do	5. 00
	E. T. Davison	do	91. 93
	R. A. Ramsay	do	46. 25
	W. P. Ellenberger	do	67. 44
	Thos. White	do	9. 50
	A. R. Glaisyer	do	24. 60
	Geo. S. Hickox	do	51. 85
	do	Office expenses	4. 35
	Lowell Clarke	do	79. 30
	Warner Worcester	Traveling expenses	27. 50
	Frank C. Wells	do	25. 50
	Matthias S. Lantz	do	13. 00
	Frisbie T. Suit	do	17. 75
	Hugh M. Rowe	do	35. 8

## Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Aug. 22	Nathl. B. Smith	Traveling expenses	\$34.30
	D. C. Hanawalt	do	81.75
	Isaac W. O'Rourke	do	84.05
	Harry D. Paxson	do	12.45
	Ernest J. Foreman	do	17.00
	Leslie J. Allen	do	40.95
	Jno. J. Hayes	Services	111.96
25	H. E. Alvord	Traveling expenses	64.56
	H. J. Hammond	do	33.50
	Clinton H. Bugbee	do	110.00
	Louis Metsker	do	72.35
	O. B. Hess	do	87.00
	W. S. Cass	do	34.00
	Robt. Darling	do	25.00
	F. D. Ketchum	do	25.00
	Albert E. Behnke	do	35.00
	Russell G. Merrill	Hire of horse, etc	15.00
	O. E. Dyson	Traveling expenses	20.25
	do	Horse hire	25.00
	S. W. Burt	do	25.00
	Jno. C. Lorenzen	Horse hire, etc	35.10
	Jno. B. Sine	do	35.00
	Chas. Hacker	do	19.00
	American Electric Co.	Electric fans	29.00
	Jas. J. Brougham	Horse and buggy	40.00
	Jas. W. Davis	do	18.00
	Don C. Ayer	do	15.00
	Chas. Keane	do	25.00
	E. C. Schroeder	Expenses	8.20
	Henry E. Alvord	Butter	1.12
26	Washington Gaslight Co.	Gas	41.90
	United States Electric Lighting Co.	Current	48.77
	Ernest Betz	Repairs to skylight	2.25
	Edwd. S. Schmid	White mice	1.50
	Blue Line Transfer Co.	Drayage	2.60
	Thos. Somerville & Sons	Soapstone	4.40
27	Edwd. L. Wells	Traveling expenses	1.00
	Roy N. Drake	do	52.75
	A. J. Smith	do	63.00
	Levi Wells	do	74.18
	Cut Meat (Indian)	Horse	10.00
	Eberhard Faber	Rubber bands	3.00
	D. Dullaghan	Feeding horse, etc	7.50
	R. W. Burrell	Galvanized pipe	31.09
	Passaic Feed Co.	Oats, hay, etc	38.35
	Bausch & Lomb Optical Co.	Chemical apparatus, etc	101.63
	M. P. Bush	Sand soap	1.80
	Lutz & Co.	Martingale, etc	3.75
28	Oscar Hiatt	Shoats	40.00
	Tooie A. Geddes	Traveling expenses	219.37
	Z. D. Gilman	Chemical apparatus, etc	76.10
	Tooie A. Geddes	Services	168.50
30	Marion Dorset et al	Salaries	4,765.50
Sept. 2	D. P. Collins	Cattle	111.00
3	E. Sudendorf	Butter	1,364.58
	Simpson McIntire	do	4.80
	F. P. Shea	Hogs	120.00
	Merrill W. Lang	Traveling expenses	164.39
4	D. E. Salmon	do	58.33
	Geo. E. Howard & Co.	Labels	800.00
	do	do	800.00
5	E. F. Vermillion	Inspecting boiler	5.00
	National Electric Supply Co.	Repairing motor	18.00
	Z. D. Gilman	Thermometer, etc	62.86
	Depue & Church	Oats	11.20
	Castelberg National Jewelry Co.	Silk	1.25
	M. G. Copeland & Co.	Awning	19.45
	L. S. Depue	Oats	280.00
	A. D. Melvin	Traveling expenses	17.00
9	Granville H. Parks	Services	134.80
	W. R. Fleming	do	101.10
	J. W. Davis	do	75.80
	A. R. Wake et al.	Salaries	1,389.55
	F. L. De Wolf et al.	do	239.10
	Louis A. Robinson et al.	do	1,062.60
	Thos. W. Carmachan et al.	do	1,904.90
	Chas. A. Schaffer et al.	do	988.58
	Chas. H. Zink et al.	do	737.70
	W. J. Murphy et al.	do	178.50
	Fredk. W. Ainsworth et al.	do	363.00

## 182 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Sept. 9	Jno. Forbes et al.	Salaries	\$3,002.26
	Julius Huelsen et al.	do	663.83
	H. A. Hedrick et al.	do	478.30
10	Edw. P. Dowd et al.	do	178.50
	Jos. M. Good et al.	do	178.50
	U. G. Houck et al.	do	2,974.70
	Harry N. Waller et al.	do	2,817.08
	Saml. E. Bennett et al.	do	887.50
	F. W. Huntington et al.	do	153.10
	W. H. Rose et al.	do	1,150.40
	Edw. P. Schaffter et al.	do	617.18
	Albert E. Behnke et al.	do	1,206.10
	Geo. Ditewig et al.	do	269.50
	F. L. Russell	Services	16.00
	Thos. O'Shaughnessy	do	75.80
	F. W. Bicknell	do	200.00
11	Geo. E. Howard & Co.	Labels	800.00
	A. G. G. Richardson et al.	Salaries	7,495.03
	Don C. Ayer et al.	do	3,991.60
	Wm. Thompson et al.	do	1,126.51
	Frank D. Ketchum et al.	do	1,011.67
	Jas. J. Brougham et al.	do	1,276.57
	A. J. Payne et al.	do	1,056.10
	Niels C. Sorensen et al.	do	1,806.00
12	Louis K. Green et al.	do	243.10
	W. S. Cass et al.	do	178.50
	Clarence Looeberry et al.	do	252.70
	Richd. W. Tuck et al.	do	420.70
	Jas. S. Kelly et al.	do	239.10
	Wesley N. Niel et al.	do	178.50
	Richd. J. Blanche et al.	do	141.38
	Thos. J. Turner et al.	do	833.80
	Nathan K. Fegley et al.	do	254.30
	Fredk. Braginton et al.	do	178.50
	Boyd Baldwin et al.	do	628.20
	Chas. Keane et al.	do	421.10
	E. M. Hutchinson et al.	do	471.49
	Henry P. Armsby et al.	do	190.00
	Geo. W. Pope et al.	do	947.10
	Geo. S. Baker et al.	do	422.80
	O. B. Hess et al.	do	195.40
	Trajan A. Shipley et al.	do	321.50
	Arthur B. Morse et al.	do	178.50
	Rice P. Steddom et al.	do	205.60
	D. E. Salmon	Traveling expenses	91.75
	Louis K. Green	do	4.57
	W. S. Cass	Use horse, etc.	34.00
	American Ice Co	Ice	34.71
	J. D. Frazee	Towel service	3.50
	do	do	3.28
	Chas. Keane	Use horse, etc.	25.00
13	O. E. Dyson et al.	Salaries	13,319.76
15	Joshua Miller et al.	do	254.30
	W. B. Niles et al.	do	556.70
	Lewis R. Baker et al.	do	922.80
	Geo. C. Faville et al.	do	294.80
	W. H. Gibbs et al.	do	161.70
	E. T. Davison et al.	do	347.07
	W. B. Niles	Expenses	28.25
	do	Traveling expenses	7.20
	Eli Swallow	Mare	10.00
	Sleeping Bear	do	10.00
	Katie Loafer	do	10.00
	St. Louis National Stock Yard	Rent	50.00
	Benj. Lessert	Mares	20.00
	G. W. Judd	Corn	22.32
16	Caroline Burnaby	Service	40.00
	J. F. Ryder	do	168.50
	W. H. Wray	do	387.50
	do	Traveling expenses	8.38
	do	Expenses	3.27
	J. F. Ryder	Traveling expenses	30.00
	Geo. E. Howard & Co.	Labels	800.00
17	Robt. Darling et al.	Salaries	193.70
	Albert Dean et al.	do	606.50
	Bertha I. Allen et al.	do	4,604.15
	B. L. Stine	Expenses	9.50
	Julius Huelsen	do	6.90
	Boyd Baldwin	do	5.12
	Saml. E. Bennett	do	13.24

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Sept. 17	E. N. Hutchinson	Expenses	\$10.00
	Geo. W. Pope	do	2.01
	W. H. Rose	do	11.85
	Thos. J. Turner	do	6.02
	E. A. de Schweinitz	do	21.58
	Frank C. Eells	Traveling expenses	51.75
	W. F. Pfaeving	do	19.00
	Walter E. Howe	do	4.25
	Edw. A. Bundy	do	4.50
	Hervey T. Potter	do	8.75
	H. D. Mayne	do	27.45
	Chas. Cowie	do	9.90
	C. L. Morin	do	4.45
	F. L. Russell	do	7.25
	Harry D. Paxson	do	19.50
	Geo. E. Totten	do	6.10
	Louis A. Klein	do	12.65
	Western L. Johnson	do	17.45
	Clarence A. Clawson	do	11.90
	Chas. A. Brown	do	11.45
	Ernest J. Foreman	do	8.00
	Geo. C. Moser	do	7.10
	E. L. Volgenau	do	1.45
	do	do	6.65
	Matthias S. Lantz	do	30.00
	Thos. White	do	21.40
	A. J. Pistor	do	5.77
	W. P. Ellenberger	do	69.76
	Fredk. T. Dolan	do	8.50
	Clarence Loveberry	do	30.10
	Geo. S. Becker	do	5.00
	M. J. Myers	do	43.72
	Geo. W. Pope	do	8.12
	Chas. M. Day	do	25.09
	F. M. Perry	do	31.90
	W. D. Collyer	do	3.30
	Geo. S. Hickox	do	36.30
	Jno. McBirney	do	97.00
	S. R. Burch	do	21.15
	Howard D. Ebey	Service	75.80
	Matthias S. Lantz	do	117.90
	Wilton F. Crewe	do	101.10
	Frank C. Eells	do	117.90
	Wm. Pfaeving	do	75.80
	David R. Hodges	do	75.80
	Walter E. Howe	do	117.90
	Roy N. Drake	do	117.90
	Geo. A. Bond	do	117.90
	D. C. Hanawalt	do	117.90
	Clinton H. Bugbee	do	117.90
	Frisby T. Suit	do	101.10
	N. L. Townsend	do	117.20
	Nath. B. Smith	do	117.20
	Albert N. Irwin	do	101.10
	Hugh M. Rowe	do	117.90
	Edw. A. Bundy	do	75.80
	Harvey T. Potter	do	20.00
	H. D. Mayne	do	101.10
	D. Cumming	do	85.00
	Geo. W. Ward	do	117.90
	Wm. E. Mowrer	do	75.80
	Merrill W. Lang	do	125.00
	Levi Wells	do	125.00
	W. D. Collyer	do	200.00
	B. F. Van Valkenburg	do	150.00
	Chas. Cowie	do	112.00
	C. L. Morin	do	101.10
	F. M. Perry	do	117.90
	Jos. M. Turner	do	75.80
	Robt. H. Treacy	do	117.90
	Geo. W. Browning	do	117.90
	A. H. Wallace	do	117.90
	Louis Metsker	do	117.90
	Harry D. Paxson	do	117.90
	Thos. A. Bray	do	117.90
	Wm. G. Shaw	do	117.90
	Jos. W. Parker	do	117.90
	Harry B. Adair	do	117.90
	Thos. Castor	do	117.90
	L. J. Allen	do	117.90

## 184 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

*Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.*

## BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1902.	Geo. E. Totten	Service	\$117.90
Sept. 17	Peter I. Kershner	do	117.90
	Louis A. Klein	do	101.10
	W. L. Johnson	do	101.10
	Harry L. McDonald	do	75.80
	Wm. D. Jordan	do	191.10
	Dan McCunningham	do	101.10
	Clarence A. Clawson	do	101.10
	Chas. A. Brown	do	75.80
	Ernest J. Foreman	do	101.10
	E. L. Volgenau	do	117.90
	A. J. Pistor	do	117.90
	W. P. Ellenberger	do	117.90
	Wm. B. Lincoln	do	117.90
	Murray J. Myers	do	101.10
	Fredk. T. Dolan	do	117.90
	Robt. Darling	Use horse, etc	25.00
	Arthur R. Glaisyer	Service	101.10
	H. J. Hammond	do	101.10
	Geo. S. Hickox	do	117.90
	Jno. McBirney	do	134.80
	W. R. Dennis	do	75.80
	I. W. O'Rourke	do	101.10
	Thos. Redmond	do	75.80
	Warren Worcester	do	101.10
	Henry R. McNally	do	75.80
	Lowell Clarke	do	117.90
	J. Otis Jacobs	do	117.90
	Jno. J. Hayes	do	117.90
	R. A. Ramsey	do	117.90
	A. J. Smith	do	75.80
	M. O. Anderson	do	117.90
	Wm. H. Wade	do	75.80
	Thos. White	do	101.10
	W. E. Hill	do	101.10
	Geo. W. Butler	do	117.90
	A. A. Holcombe	do	117.90
	W. J. Kennedy	do	100.00
	Patek. Dorsey	do	30.00
	Harry F. Hume	do	41.09
	do	do	16.00
	M. E. Knowles	do	20.00
	Jas. Irwin	do	84.20
	Rudolph, West & Co.	Level, etc	21.75
	Wm. Lochte	Shoeing horses	10.75
	P. Mann & Co.	Paris green	1.00
	Ernest Betz	Repairing skylight	2.50
	Wyckoff, Seamans & Benedict	Card cylinder, etc	8.35
	Thos. Somerville & Sons	Steam packing	7.02
	M. Du Perow	Fiber, etc	4.35
	Yawman & Erbe Manufacturing Co.	Cabinet	75.00
	Chas. Blindman	Mare	15.00
	D. Dullaghan	Care of mares	46.50
	Thompson & Feeson	do	13.71
	C. H. Little	Mare	15.00
	Dan Hanniff	Mare and colt	15.00
	J. J. Brougham	Use horse and buggy	40.00
	Jno. B. Sine	do	35.00
	Jno. C. Lorenzen	do	35.10
	S. W. Burt	do	25.00
	O. E. Dyson	do	25.00
	The Anderson Lumber Co.	Lumber	34.58
	Wm. Krafft	Glass slides, etc	12.40
	Bausch & Lomb Optical Co.	Test tubes, etc	35.20
	Eimer & Amend	Neutral red	.81
	E. Sudendorf	Butter	116.28
	Pehr Ehrenheim	Office rent	30.00
	He Dog	Mare	15.00
	A. E. Behnke	Use horse and buggy	35.00
	Saml. E. Bennett	do	38.00
	Jas. W. Davis	do	18.00
	Don C. Ayer	do	15.00
	F. D. Ketchum	do	25.00
	Russell G. Merrill	do	15.00
	Chas. Hacker	do	19.00
	B. O. Ewing	Mares	145.00
	Whitall, Tatum Co.	Dishes	10.50
	C. H. Bugbee	Traveling expenses	130.75
	Nathaniel B. Smith	do	21.00
	Jos. W. Parker	do	18.34

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Sept. 17	Thos. Castor	Traveling expenses	\$93.30
	Dan. McCunningham	do	38.92
	Wm. C. Honan	do	19.65
	Jno. A. Bell	do	64.00
	Jno. C. Milnes et al	Salaries	286.40
	Vermont Farm Machine Co.	Thermometers	10.80
18	Lansburgh & Bro	Initials	3.20
	The Geo. W. Knox Express Co.	Transportation	.25
	Pennsylvania R. R. Co.	Passenger transportation	6.50
	The Chicago, Burlington & Quincy R. R. Co.	do	34.50
19	Allen A. Holcombe	Traveling expenses	42.35
	Peter I. Kershner	do	9.10
	Arch. H. Wallace	do	49.70
	Roy N. Drake	do	43.75
	Warner Worcester	do	42.75
	H. M. Rowe	do	75.65
	Geo. S. Hickox	Expenses	4.00
	H. M. Rowe	do	9.00
	E. J. Brooks & Co.	Compressor glasses	79.50
20	Barber & Ross	Gauge, etc	3.22
22	Geo. E. Howard & Co.	Labels	800.00
	F. P. Shea	Hogs	120.00
	L. G. Orndorff	Rye	7.50
	E. T. Davison et al.	Salaries	437.90
	do	Traveling expenses	104.50
	Wm. D. Jordan	do	74.57
	Leslie J. Allen	do	72.05
	Louis Metsker	do	45.50
	Wm. G. Shaw	do	31.45
	Albert N. Irwin	do	68.50
	Morris L. Townsend	do	82.20
	Robt. H. Treacy	do	29.75
	David R. Hodges	do	43.75
	Frisby T. Suit	do	51.50
	Wilton F. Crewe	do	15.15
	Lowell Clark	do	89.85
	Howard D. Ebey	do	56.00
	I. W. O'Rourke	do	94.55
	M. W. Lang	do	34.26
23	Allen D. Melvin	do	42.00
	M. E. Knowles	do	67.50
	H. J. Hammon	do	25.25
	Toole A. Geddes	do	198.39
	Levi Wells	do	119.77
	Toole A. Geddes	Services	168.50
	Fredk. W. Ainsworth	Expenses	8.80
24	Arthur A. Glaisyer	Traveling expenses	51.00
	Henry R. McNally	do	42.80
	G. W. Ward	do	20.25
	D. E. Salmon	do	15.95
25	A. P. Johnson	Card cylinder	7.50
	J. Otis Jacobs	Traveling expenses	57.75
	R. A. Ramsay	do	87.50
	Eimer & Amend	Metal, etc	6.79
	Wolf Bros	Envelopes	6.00
	Edw. S. Schmid	Feed	14.00
	do	Mucilage	2.00
	R. P. Andrews & Co	Penholders	1.74
	Depue & Church	Oats	11.20
26	E. C. Schroeder	Expenses	5.34
	Henry Lucas	Corn	48.00
	H. O. Alley	Pigs	20.00
	Thos. Redmond	Traveling expenses	96.70
	Jno. J. Hayes	do	33.50
	New York Central and Hudson River R. R. Co.	Passenger transportation	3.25
	Lehigh Valley R. R. Co.	do	11.05
	Louisville and Nashville R. R. Co.	do	12.27
	Pennsylvania R. R. Co.	do	57.86
29	Jno. H. Van Dyke	Traveling expenses	100.40
	Geo. E. Howard & Co.	Labels	800.00
30	Marion Dorset et al.	Salaries	4,653.85
	Total first quarter		190,560.99
Oct. 1	F. W. Bicknell	Traveling expenses	269.68
	Henry E. Alvord	do	84.25
	Geo. M. Whitaker	Services	120.00
	Levi Wells	do	125.00
	B. F. Van Valkenburgh	do	150.00

186 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Oct. 1	M. W. Lang	Services	\$125.00
	F. W. Bicknell	do	200.00
	Eimer & Amend	Tubes, etc.	154.35
	The American News Co	Blotters	5.75
	The J. A. Van Winkle Co.	Pipe	16.13
	S. M. Birch Lumber Co.	Cement, etc.	23.58
	Geo. A. Morrington	Gasoline	15.98
	Chas. Hubinger	Screws, etc.	35.87
	Adolph Kroll	Carbolic acid	18.55
	The Friedenwald Co	Stamps	862.46
	E. Sudendorf	Butter for export	517.22
2	F. P. Shea	Pigs	200.00
	Jno. C. Parker	Pens, etc	84.94
	W. D. Collyer	Services	200.00
3	Jno. R. Mohler	Traveling expenses	75.62
	W. H. Rose et al.	Salaries	1,114.20
	H. A. Hedrick et al	do	463.40
4	Saml. E. Bennett et al	do	2,705.20
	Edw. P. Schaffter et al	do	598.80
	Nathan K. Fegley et al.	do	246.40
	A. E. Behnke et al	do	1,165.32
	Joshua Miller et al	do	246.40
	Fredk. Braginton et al	do	173.00
	Harry N. Waller et al.	do	2,739.83
	Geo. W. Pope et al	do	848.30
	Albert J. Payne et al	do	1,022.80
	Jos. M. Good et al.	do	173.00
	Julius Huelsen et al	do	651.00
	Geo. C. Faville et al.	do	285.40
	C. A. Schaulfer et al	do	948.80
	F. W. Huntington et al	do	147.80
	Lewis R. Baker et al	do	894.40
	Edw. P. Dowd et al	do	173.00
	E. H. Callin & Co	Emery cake	1.20
6	Rudolph F. Hagel	Mare	25.00
	J. C. Sheffield	do	5.00
	Jos. Kocer	do	50.00
	Thompson & Fuson	do	12.85
	D. Dullaghan	Care of mares	15.00
	Rice P. Sleddom et al.	Salary	198.80
	Albert Dean et al.	do	587.00
7	American Ice Co	Ice	30.90
	Patk. Dorsey	Services	37.50
	Harry F. Hume	do	58.80
	E. L. Volgenau	do	114.20
	Hervey T. Potter	do	48.00
	F. M. Perry	do	114.20
	H. D. Mayne	do	97.80
	Allen A. Holcombe	do	114.20
	Jas. Irwin	do	81.60
	W. H. Wade	do	73.40
	C. L. Morin	do	97.80
	G. H. Parks	do	130.40
	Richd. J. Blanche	do	114.20
	D. Cumming	do	100.00
	Jos. W. Parker	do	114.20
	Leslie J. Allen	do	114.20
	Geo. W. Browning	do	114.20
	Harry D. Paxson	do	114.20
	Peter I. Kershner	do	114.20
	Geo. E. Totten	do	114.20
	Harry B. Adair	do	114.20
	Louis Metsker	do	114.20
	Thos. A. Bray	do	114.20
	Wm. G. Shaw	do	114.20
	Thos. Castor	do	114.20
	A. H. Wallace	do	114.20
	Albert N. Irwin	do	97.80
	C. A. Clawson	do	97.80
	W. L. Johnson	do	97.80
	Dan. McCunningham	do	97.80
	Louis A. Klein	do	97.80
	Wm. D. Jorden	do	97.80
	Harry L. McDonald	do	73.40
	Ernest J. Foreman	do	52.17
	F. L. De Wolf et al	Salaries	219.96
	Louis K. Green et al	do	231.80
	Boyd Baldwin et al	do	608.60
	Thos. J. Turner et al	do	807.40
	W. B. Niles et al	do	560.10



Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Oct. 7	W. J. Murphy et al .....	Salaries .....	8173.00
	F. W. Ainsworth et al .....	do .....	348.00
	Henry F. Armsby et al .....	do .....	185.00
	Jno. Forbes et al .....	do .....	2,919.80
	Jno. W. Purton et al .....	do .....	2,112.57
	Geo. Ditewig et al .....	do .....	257.13
	James Fleming et al .....	do .....	1,018.64
9	Walter J. Stewart et al .....	do .....	5,625.04
	Thos. D. Henry Building Co .....	Building barn .....	8,490.39
	Jas. Stikeman .....	Office rent .....	125.00
	Emma J. Adams et al .....	do .....	120.00
	New England Telephone and Telegraph Co.	Service .....	12.50
	T. F. Rogers, agent .....	Office rent .....	52.50
	City Telephone Co .....	Service .....	3.00
	The Chesapeake and Potomac Telephone Co.	do .....	12.00
	F. D. Ketchum .....	Use horse and buggy .....	25.00
	C. Deaderick .....	Office rent .....	30.00
	N. Rufus Gill .....	do .....	31.25
	Emma Curran, administratrix .....	do .....	21.00
	The Maryland Telephone and Telegraph Co.	do .....	12.00
	Herbert J. Harwood .....	do .....	62.50
	Gerald E. Street .....	Services .....	24.00
	Fifty associates .....	Office rent .....	90.00
	New England Telephone and Telegraph Co.	Service .....	52.50
	Saml. E. Bennett .....	Use horse and buggy .....	38.00
	Bay State Clean Towel Co .....	Towel service .....	3.75
10	O. E. Dyson et al .....	Salaries .....	9,058.55
	David R. Hodges .....	Services .....	73.40
	W. R. Dennis .....	do .....	73.40
	Howard D. Ebey .....	do .....	73.40
	Geo. W. Butler .....	do .....	114.20
	S. H. Caldwell .....	do .....	29.35
	A. J. Pistor .....	do .....	114.20
	W. E. Mowrer .....	do .....	73.40
	Wm. R. Fleming .....	do .....	97.80
	Jas. W. Davis .....	do .....	73.40
	M. O. Anderson .....	do .....	114.20
	Jno. McBirney .....	do .....	130.40
	Warner Worcester .....	do .....	114.20
	Thos. White .....	do .....	114.20
	N. L. Townsend .....	do .....	114.20
	Robt. H. Treacy .....	do .....	114.20
	Nathl. B. Smith .....	do .....	114.20
	Hugh M. Rowe .....	do .....	114.20
	R. A. Ramsay .....	do .....	114.20
	Isaac W. O'Rourke .....	do .....	114.20
	Matt S. Lantz .....	do .....	114.20
	J. Otis Jacobs .....	do .....	114.20
	H. J. Hammond .....	do .....	114.20
	David C. Hanawalt .....	do .....	114.20
	Arthur R. Glaisyer .....	do .....	114.20
	Frank C. Eells .....	do .....	114.20
	Walter E. Howe .....	do .....	114.20
	Jno. J. Hayes .....	do .....	114.20
	Roy N. Drake .....	do .....	114.20
	Lowell Clarke .....	do .....	114.20
	Clinton H. Bugbee .....	do .....	114.20
	Geo. A. Bond .....	do .....	114.20
	Wilton F. Crewe .....	do .....	97.80
	Henry R. McNally .....	do .....	82.34
	Wm. Yenner .....	do .....	73.40
	A. J. Smith .....	do .....	73.40
	do .....	Traveling expenses .....	79.00
	William Pflaeging .....	Services .....	73.40
	Fredk. O. Pettey .....	do .....	73.40
	Thos. Redmond .....	do .....	73.40
	Chas. A. Brown .....	do .....	73.40
	Fredk. T. Dolan .....	do .....	114.20
	W. P. Ellenberger .....	do .....	114.20
	Willis B. Lincoln .....	do .....	114.20
	Murray J. Myers .....	do .....	97.80
	J. M. Turner .....	do .....	73.40
	Geo. S. Hickox .....	do .....	114.20
	E. A. de Schweinitz .....	Expenses .....	20.25
	The M. Lindsay Rubber Co .....	Hose .....	12.00
	Z. D. Gilman .....	Paraffin, etc .....	43.95
11	W. E. Hill .....	Services .....	97.80
	Wm. Thompson et al .....	Salaries .....	1,199.63
	Jas. S. Kelly et al .....	do .....	173.00
	W. S. Cass et al .....	do .....	173.00

## 188 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Oct. 11	Wesley N. Neil et al.	Salaries	\$173.00
	Geo. S. Baker et al.	do	399.59
	Frank D. Ketchum et al.	do	923.45
	Trojan A. Shipley et al.	do	311.00
	O. B. Hess et al.	do	189.20
	Neils C. Sorensen et al.	do	1,808.00
	W. H. Gibbs et al.	do	156.60
	Chas. Keane et al.	do	407.80
	A. B. Morse et al.	do	173.00
	Chas. H. Zink et al.	do	1,682.37
	U. G. Houck et al.	do	2,826.11
	R. P. Andrews & Co.	Printing envelopes	82.68
	D. P. Collins	Cattle	175.00
	S. R. Burch	Traveling expenses	23.15
13	Geo. E. Howard & Co.	Labels	800.00
	J. B. Williamson, jr.	Meal, etc.	230.00
14	Lamb & Tilden	Ink	2.70
	Elizabeth Wilson et al.	Tract of land	10,000.00
16	Richd. W. Tuck et al.	Salaries	375.84
	E. N. Hutchinson et al.	do	463.80
	Jas. J. Brougham et al.	do	1,273.80
	A. R. Wake et al.	do	1,125.20
	A. G. G. Richardson et al.	do	7,400.18
	D. C. Ayer et al.	do	3,860.93
	J. C. Milnes et al.	do	277.20
	David C. Hanawalt	Traveling expenses	95.00
	H. D. Mayne	do	24.70
	C. L. Morin	do	12.15
	F. M. Perry	do	12.70
	Allen A. Holcombe	do	33.37
	Hervey T. Potter	do	11.75
	E. L. Volgenau	do	17.30
	Joshua Miller	Expenses	6.90
	W. B. Niles	Traveling expenses	5.25
	Chas. Cowie	do	12.40
	Chas. W. Barnhart	do	4.70
	C. H. Zink	do	9.55
	E. T. Davison	Expenses	6.42
	H. A. Hedrick	do	10.80
	Ephraim Dietrich	do	2.15
	W. H. Rose	do	14.50
	Hiram Jerome	do	9.20
	Henry N. Waller	do	17.50
	Boyd Baldwin	do	5.12
	Linus E. Sargent	do	10.35
	N. C. Sorenson	do	13.10
	Jos. M. Good	do	9.80
	Jas. J. Brougham	Use horse and buggy	40.00
	The Real Estate and Improvement Co.	Rent of land	56.25
	Chas. A. Schaufler	Use horse and buggy	105.00
	Geo. Meier & Co.	Bronze	1.80
	Chadwick Copying Book Co.	Books	44.40
	Dennison Manufacturing Co.	Tags	4.08
	Chicago Car Seal and Manufacturing Co.	Seals	45.00
	Sharp & Smith	Retractor	5.95
	Andrew M. Soule	Manuscript	702.00
	D. Frank Parker	Paper	23.60
	Lillie M. Crowell	Services	6.52
	Estelle G. Davis	do	37.50
	Bessie D. Ogden	do	22.83
	W. J. Kennedy	do	100.00
	G. W. Ward	do	114.20
	F. L. Russell	do	120.00
	Chas. Cowie	do	160.00
17	R. Carter Ballantyne	Pens, etc.	11.80
	Jas. B. Lambie	Belting, etc.	21.68
	E. Morrison Paper Co.	Paper	.65
	Thos. Somerville & Sons	Metal	2.10
18	Clarence Loveberry et al.	Salaries	244.60
	Robt. Darling et al.	do	187.60
	Albert E. Behnke	Expenses	20.36
	Frank E. Pollitt	Services	43.04
	St. Louis National Stock Yards	Office rent	50.00
	Thos. A. Bray	Use horse and buggy	75.00
	The Cincinnati Union Stock Yards	Office rent	45.00
	The Bell Telephone Co.	Service	40.00
	Nathan K. Fegley	Expenses	5.75
	W. S. Cass	Use horse and buggy	34.00
	Russell G. Merrill	do	15.00
	Pebr Ehrenheim	Office rent	30.00

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Oct. 18	New Telephone Co	Service	520.00
	Armstrong Steam Laundry	Towel service	1.93
	Belt R. R. and Stock Yard Co	Office rent	30.00
	Chas. Keane	Use horse and buggy	25.00
	Sunset Telephone and Telegraph Co	Service	10.50
	Iowa Telephone Co	do	12.00
	The Sioux City Stock Yards Co	Office rent	60.00
	Wounded	Mare	10.00
	Plenty Relation	do	10.00
	S. J. Moore	do	12.50
	Running Hawk	Stallion and mare	40.00
	Little Killer	Mare	10.00
	W. A. Widney	do	32.00
	W. B. Gillett	do	10.00
	Hattie Broadus	do	12.50
	St. Joseph Stock Yards Co	Office rent	135.00
	St. Joseph Coal Co.	Ice	4.50
	T. O. Strong	Typewriter ribbon	2.25
	Missouri and Kansas Telephone Co	Service	12.50
	Boston Ice Co.	Ice	3.60
	Metropolitan Coal Co.	Coal	7.95
	Fred. C. Hartwell	Posts, etc	5.70
	Albert E. Behnke	Use horse, etc	35.00
	Nebraska Telephone Co	Service	13.50
	Frontier Towel Supply Co	Towel service	18.74
	Jas. W. Davis	Use horse, etc	18.00
	Glynn & Smith	Drayage	4.25
	R. W. Burrell	Services	37.80
	do	Pipe, etc	12.12
	Geo. A. Myers & Co.	Paper	16.50
	The Consumers Co	Drinking water	3.00
	Union Stock Yards and Transit Co	Coal	9.45
	do	Rent of office	375.00
	Gahan & Byrne	do	675.00
	Chicago Towel Supply Co	Towel services	131.49
	A. P. Little	Blotters	1.00
	Chicago Telephone Co	Service	43.75
	Stock Yard Paint Co	Tacks, etc	1.63
	S. W. Burt	Use horse, etc	25.00
	Hibbard, Spencer, Bartlett & Co	Clippers	4.80
	Iowa Telephone Co.	Service	4.50
	E. L. Coleman	Office rent	12.00
	A. G. G. Richardson	Expenses	3.09
	Cutler & Neilson Paint and Color Co	Oil, etc	8.05
	G. W. Tourtellot	Office rent	45.00
	People's Ice and Fuel Co.	Ice	2.90
	Martin Laundry and Towel Co.	Towel service	8.93
	Armour Packing Co.	Service	4.17
	Mendenhall Transfer Co.	Drayage	2.50
	Missouri and Kansas Telephone Co.	Service	16.00
	Wagner Typewriter Co.	Cylinder, etc.	5.40
	New York and New Jersey Telephone Co.	Service	11.75
	Weehawken Stock Yard Co.	do	2.55
	Wm. Lochte	Horseshoeing	10.00
	F. P. Shea	Cattle	120.00
20	Fredk. O. Pettey	Traveling expenses	23.10
	Fredk. T. Dolan	do	15.35
	L. A. Robinson	do	2.00
	Jno. P. O'Leary	do	1.20
	Bernhard P. Wende	do	4.20
	Geo. W. Pope	do	5.40
	A. G. G. Richardson	do	16.90
	Saml. E. Bennett	do	20.17
	Jno. A. Bell	do	23.28
	Louis K. Green	do	3.03
	Wm. H. Skinner	do	2.55
	Wm. C. Honan	do	20.05
	A. H. Wallace	do	17.75
	A. J. Pistor	do	12.40
	Geo. C. Moser	do	8.95
	Wm. G. Shaw	do	17.00
	Geo. S. Baker	do	5.85
	Edw. P. Schaffter	do	5.12
	Thos. J. Turner	Expenses	5.80
	T. A. Shipley	do	10.20
	Geo. S. Hickox	do	3.00
	A. G. G. Richardson	do	8.40
	C. H. Zink	do	150.00
	A. G. G. Richardson	do	9.30
	Geo. W. Pope	do	4.74

190 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1902. Oct. 20	Chas. M. Day	Expenses	\$1.80
	Saml. E. Bennett	do	6.82
	do	do	11.99
	Jno. Forbes	do	12.37
	Geo. C. Faville	do	19.10
	Jas. J. Brougham	do	21.00
	Albert Dean	do	8.52
	Don. C. Ayer	Use horse	15.00
	Jno. B. Sine	Use horse and buggy	35.00
	Jno. C. Lorenzen	do	35.10
	O. E. Dyson	Use horse	25.00
	Robt. Darling	Use horse and buggy	25.00
	C. H. Polk	Shotes	24.00
	Jno. Forbes	Keep of horse, etc	54.00
	Chas. Hacker	Use horse and buggy	19.00
	Geo. E. Howard & Co.	Labels	800.00
	The Kansas City Stock Yards Co.	Office rent	45.00
	Rudolph, West & Co	Saw, etc	6.74
21	W. M. Galt & Co.	Oats	39.00
22	Castelberg's National Jewelry Co	Clock	2.50
	Bourbon Stock Yard Co	Office rent	30.00
	The Friedenwald Co	Certificates	42.50
	Rice P. Steddom	Expenses	5.94
	Louis K. Green	do	14.15
	Wm. Thompson	do	4.61
	E. T. Davison	do	16.92
	Clarence A. Clawson	Traveling expenses	7.75
	Geo. E. Totten	do	31.05
	Geo. W. Browning	do	2.25
	W. L. Johnson	do	5.80
	Peter I. Kershner	do	5.15
	Geo. C. Faville	do	6.25
	W. S. Cass	do	4.05
	L. Enos Day	do	6.61
	Chas. A. Brown	do	19.00
23	Walter E. Howe	do	12.80
	Albert Dean	do	12.25
	Louis A. Klein	do	17.70
	Thos. Castor	do	21.05
	Wm. F. Pflaeging	do	20.50
	Geo. W. Ward	do	11.75
	Jno. A. Bell	Services	48.00
	Geo. W. Butler	Expenses	75.55
	W. B. Niles	do	16.45
	Julius Huelson	do	9.51
	Chas. R. Edmonston	Grinding machine	1.20
	E. Morrison Paper Co	Cards	8.40
	Woodward & Lothrop	Sapolio, etc	7.20
24	Warren Worcester	Traveling expenses	42.50
	Nathanl. B. Smith	do	32.50
	B. Graham	do	3.75
	Albert N. Irwin	do	38.95
	Harry L. McDonald	Traveling expenses, August	20.55
	do	Traveling expenses, September	16.30
	The Fowler Manufacturing Co	Towels	3.31
	J. F. Ryder	Traveling expenses	30.00
	W. H. Wray	do	16.70
	do	Services	375.00
	Caroline Burnaby	do	40.00
	Tooie A. Geddes	do	163.00
	J. F. Ryder	do	163.00
	Kehoe Livery and Trucking Co	Team and driver	9.00
	Muzzy Bros	Rye, etc	5.05
	R. P. Andrews & Co. (Incorporated)	Paper	22.50
	National Mortar Co	Cement	17.20
	Wyckoff, Seamans & Benedict	Paper	13.10
	Lutz & Co	Graphite, etc	35.70
	Boaz Cheese Factory	Cheese	70.34
	J. B. Gilbert & Co	do	75.79
	H. J. Noyes	do	62.81
	P. H. Kasper	do	70.56
	The Union Cheese Co	do	69.81
25	F. M. Cann	Care of mares	11.77
	New York Telephone Co.	Service	25.90
	R. J. Richardson & Co.	Cheese	185.12
	Merchants' Refrigerating Co. of New York	Storage	116.49
	A. B. Hargrave	Cheese	168.00
	W. C. Dunham & Co.	do	215.28
	Triumph Dairy Co	do	138.00
	Miller Lock Co	Repairing keys	6.20

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Oct. 25	Whithall, Tatum Co.	Bottles	\$13.76
	Eimer & Amend	do	10.70
	David C. Hanawalt	Traveling expenses	83.00
	Jno. McBirney	do	76.00
	Wilton F. Crewe	do	30.55
	Thos. White	do	18.50
	H. M. Rowe	do	94.35
	Wm. Jenner	do	25.20
	Clinton H. Bugbee	do	115.75
	J. Otis Jacobs	do	106.45
	E. T. Davison	do	90.67
	Jos. B. Clancy	do	13.80
	Toolie A. Geddes	do	135.53
27	M. W. Lang	do	76.44
	Levi Wells	do	69.15
28	Geo. S. Hickox	do	49.86
	H. J. Hammond	do	116.25
	N. L. Townsend	do	54.50
	Frank C. Eells	do	52.00
	Lowell Clarke	do	92.60
	Robt. A. Treacy	do	48.40
	J. J. Hayes	do	71.00
	David R. Hodges	do	59.75
	A. J. Smith	do	73.50
	Roy N. Drake	do	60.75
	Howard D. Ebey	do	55.80
	Thos. Redmond	do	92.00
	E. J. Foreman	do	14.50
	Harry D. Paxson	do	26.65
	Jos. W. Parker	do	29.95
	F. L. Russell	do	46.85
	Chas. M. Day	do	27.94
	Rice P. Steddom	do	46.05
	Ernest N. Hutchinson	Expenses	46.50
	New York Telephone Co	Service	19.90
	E. Faber	Pencils, etc	200.71
29	Leslie J. Allen	Traveling expenses	51.05
	Henry R. McNally	do	77.00
	Louis Metsker	do	71.50
	Dan McCunningham	do	67.02
	W. A. Willard	do	59.61
	Willis B. Lincoln	do	47.46
	R. A. Ramsay	do	75.75
	T. B. Cracroft	do	86.65
	E. C. Schroeder	Expenses	8.87
	U. G. Houck	do	18.30
	Albert J. Payne	do	14.78
	O. E. Dyson	do	34.33
	Chas. A. Schaulfer	do	37.35
	American Tag Co	Tags	132.00
	Geo. E. Howard & Co.	Labels	800.00
	W. B. Moses & Sons	Papering room	9.70
	Mackall Bros	Chemicals	22.76
	do	do	17.73
	Barber & Ross	Nails	19.50
	do	Tacks	2.00
	Jas. N. Rupp	Ink	6.00
	A. Hannibal	Casters	30.00
	Holzmark Furniture Co	Stool	4.50
30	I. W. O'Rourke	Traveling expenses	111.25
	Murray J. Myers	do	54.27
	E. T. Davison et al	Salaries	466.70
31	Marion Dorset et al	do	4,660.61
Nov. 1	W. D. Collyer	Services	200.00
	Levi Wells	do	125.00
	B. F. Van Valkenburgh	do	150.00
	M. W. Lang	do	125.00
	F. W. Bicknell	do	200.00
	W. P. Ellenberger	Traveling expenses	109.46
	W. D. Jorden	do	78.89
	A. D. Melvin	do	87.60
	M. S. Lantz	do	93.50
	Bausch & Lomb Optical Co.	Tubes, etc.	36.66
	Queen & Co. (Incorporated)	Thermometers	7.20
	Hurry Little Tail	Mare and colt	35.00
	Jas. K. DeWolf	Mare	15.00
	He Dog	Stallion and mare	40.00
	Jno. Slow Bear	Mare	15.00
	Joe Adams	do	20.00
	W. Bateman	Stallion	100.00

192 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Nov. 1	Eimer & Amend	Rubber band, etc.	\$4.86
3	M. G. Copeland Co.	Ensign	3.15
	Geo. E. Howard & Co.	Labels	800.00
	A. Wilson & Bro.	Hauling coal	14.83
	Edwd. S. Schmid	Rats	1.50
	United States Envelope Co.	Envelopes	39.00
	Geo. F. Thompson	Traveling expenses	35.90
	E. N. Hutchinson	do	37.40
4	United States Electric Lighting Co.	Electric current	48.28
	do	do	43.04
	Washington Gaslight Co.	Gas	42.00
	do	do	41.70
	The Geo. W. Knox Express Co.	Transportation	1.22
	Thos. Castor	Services	117.90
	Harvey D. Paxson	do	117.90
	Louis Metsker	do	117.90
	A. H. Wallace	do	117.90
	Geo. E. Totten	do	117.90
	Clarence A. Clawson	do	101.10
	W. G. Shaw	do	117.90
	Leslie J. Allen	do	117.90
	Geo. W. Browning	do	117.90
	Harry B. Adair	do	117.90
	Jos. W. Parker	do	117.90
	Thos. A. Bray	do	117.90
	Harry L. McDonald	do	75.80
	Albert N. Irwin	do	101.10
	Wm. D. Jordan	do	101.10
	Louis E. Klein	do	101.10
	Ernest J. Foreman	do	101.10
	Western L. Johnson	do	101.10
	Peter I. Kirshner	do	117.90
	Dan. McCunningham	do	101.10
	Patrick Dorsey	do	40.50
	Harry F. Hume	do	60.60
	Albert Dean et al.	Salaries	606.50
	Samuel E. Bennett et al.	do	2,731.80
	Julius Huelsen et al.	do	672.00
	Nathan K. Fegley et al.	do	254.30
	H. A. Hedrick et al.	do	478.30
5	Wm. Krafft	Customs duties	6.20
	Chicago Car Seal and Manufacturing Co.	Car seals	164.25
	Chas. Lentz & Sons	Knife	1.55
	Church & Stephenson	Lumber	474.31
	R. P. Andrews & Co. (Incorporated)	Pencils	1.10
	Granville H. Parks	Services	134.80
	W. H. Wade	do	75.80
	Allen A. Holcombe	do	117.90
	Jas. Irwin	do	84.20
	H. D. Mayne	do	101.10
	E. L. Valgenau	do	117.90
	C. L. Morin	do	101.10
	D. Cumming	do	95.00
	U. G. Houck	do	134.80
	Harvey N. Waller et al.	Salaries	2,826.90
	Albert J. Payne et al.	do	1,040.92
	Boyd Baldwin et al.	do	628.20
	Jos. S. Kelly et al.	do	178.50
	Edwd. P. Dowd et al.	do	178.50
	F. L. De Wolf et al.	do	239.10
	W. J. Murphy et al.	do	178.50
	Fredk. Bradinton et al.	do	178.50
	Chas. A. Schauffler et al.	do	975.10
	Richd. J. Blanche et al.	do	178.50
	Lewis R. Baker et al.	do	1,023.90
	A. E. Behnke et al.	do	1,206.10
	E. P. Schaffter et al.	do	615.28
6	Z. D. Gilman	Ether, etc.	49.26
	The Freidenwald Co.	Stamps	519.10
	A. J. Pistor	Services	117.90
	Geo. W. Butler	do	117.90
	W. P. Ellenberger	do	117.90
	Murray J. Myers	do	101.10
	Jos. M. Turner	do	75.80
	Fredk. T. Dolan	do	117.90
	Willis B. Lincoln	do	117.90
7	Henry E. Alvord	Traveling expenses	157.80
	Jos. B. Clancy et al.	Salaries	3,103.33
	C. H. Zink et al.	do	1,800.30
	Wesley N. Neil et al.	do	178.50

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Nov. 7	Geo. C. Faville et al.	Salaries	\$294.80
	Don C. Ayer et al.	do	3,970.96
	Jno. Forbes et al.	do	2,859.04
	Jas. J. Brougham et al.	do	1,483.09
	W. H. Rose et al.	do	1,150.40
	Geo. W. Pope et al.	do	902.50
	Fredk. W. Ainsworth et al.	do	339.44
	Trajan A. Shipley et al.	do	323.50
	Wm. Thompson et al.	do	1,903.80
	Geo. Ditewig et al.	do	269.50
	Joshua Miller et al.	do	250.44
	Louis K. Green et al.	do	239.10
	Jos. M. Good et al.	do	178.50
	F. W. Huntington et al.	do	155.10
	Rice P. Steddom et al.	do	205.60
	W. H. Gibbs et al.	do	161.70
	W. B. Niles et al.	do	657.70
8	Jas. Fleming et al.	do	1,043.92
	O. E. Dyson et al.	do	8,935.38
	Jno. W. Burton et al.	do	2,154.85
	Walter J. Stewart et al.	do	5,489.57
	Fredk. W. Ainsworth	Expenses	8.35
	Boyd Baldwin	do	5.12
	D. E. Salmon	Traveling expenses	79.19
	F. M. Perry	do	23.20
	Rice P. Steddom	do	11.95
	E. L. Volgenau	do	20.80
	Matthias S. Lantz	Services	117.90
	Lowell Clarke	do	117.90
	N. L. Townsend	do	117.90
	H. J. Hammond	do	117.90
	Walter E. Howe	do	117.90
	Robt. M. Treacy	do	117.90
	Geo. A. Bond	do	117.90
	Frank C. Eells	do	117.90
	M. O. Anderson	do	117.90
	Hugh M. Rowe	do	117.90
	Wm. R. Fleming	do	101.10
	Wilton F. Crewe	do	101.10
	David C. Hanawalt	do	117.90
	Fredk. O'Pettey	do	75.80
	Clinton H. Bugbee	do	117.90
	Chas. A. Brown	do	75.80
	W. R. Dennis	do	75.80
	Nathl. B. Smith	do	117.90
	Jno. J. Hayes	do	117.90
	Thos. Redmond	do	75.80
	I. W. O'Rourke	do	117.90
	Howard D. Ebey	do	75.80
	Wm. Yenner	do	75.80
	Jno. McBirney	do	134.80
	Wm. Pflaeging	do	75.80
	J. Otis Jacobs	do	117.90
	David R. Hodges	do	75.80
	Jas. W. Davis	do	75.80
	A. J. Smith	do	75.80
	Warren Worcester	do	117.90
	Henry R. McNally	do	101.10
	Wm. E. Mowrer	do	75.80
	Thos. White	do	117.90
	R. A. Ramsay	do	117.90
	Arthur A. Glaisyer	do	117.90
	Geo. S. Hickox	do	117.90
	Jno. A. Bell	do	92.00
	The Anderson Lumber Co.	Lumber	24.35
	H. W. Mills & Co.	Chain, etc	39.89
	Adrian Post	Sand	23.00
	Jno. Van Winkle	Mare	125.00
	Geo. E. Howard & Co.	Labels	800.00
	R. L. Cooper	Use horse and buggy	30.00
	Wm. M. Galt & Co.	Oats	615.50
	Ernest Betz	Refrigerating closets	168.00
	Wm. Lochte	Shoeing horses	19.57
	W. H. Hoeke	Cedarine	1.50
	L. G. Orndorff	Harness	11.00
	Chas. Hacker	Use horse, etc	19.00
	Chas. Hubinger	Nails, etc	13.75
	W. S. Cass	Use horse, etc	34.00
	Saml. E. Bennett	do	38.00

194 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Nov. 8	E. J. Brooks & Co.....	Seals.....	\$6.85
	F. D. Ketchum.....	Use horse, etc.....	25.00
	R. J. Richardson & Co.....	Cheese.....	204.87
	Russell G. Merrill.....	Use horse, etc.....	15.00
	A. E. Behnke.....	do.....	35.00
	Jno. J. Brougham.....	do.....	40.00
	La Crosse Cheese and Butter Co.....	Cheese.....	184.25
	S. R. Depreecé.....	Corn.....	15.60
	Don C. Ayer.....	Use horse, etc.....	15.00
	A. H. Baker & Co.....	Cheese.....	229.56
	A. S. Chandler.....	Calf.....	25.00
	E. Sudendorf.....	Butter.....	494.64
	Jas. W. Davis.....	Use horse, etc.....	18.00
	Pehr Ehrenhiem.....	Office rent.....	30.00
10	Wolf Bros.....	Envelopes.....	9.90
	S. M. Birch Lumber Co.....	Lumber.....	214.16
	Geo. A. Monington.....	Tinning and slating.....	109.05
	Campbell, Morrell & Co.....	Brick.....	69.00
	Falstrom & Tornquist Co.....	Plumbing material.....	170.00
	James Radcliffe & Sons.....	Iron cover, etc.....	32.00
	F. P. Shea.....	Hogs.....	127.50
	Thos. J. Turner et al.....	Salaries.....	833.80
	Clarence Loveberry et al.....	do.....	252.70
	Frank D. Ketchum et al.....	do.....	1,015.53
	O. B. Hess et al.....	do.....	195.40
	Geo. S. Baker et al.....	do.....	422.80
	Henry P. Armsby et al.....	do.....	190.00
	E. N. Hutchinson et al.....	do.....	485.36
	A. R. Wake et al.....	do.....	1,014.64
	Robt. Darling et al.....	do.....	193.70
	N. Sorensen et al.....	do.....	1,870.00
	W. S. Cass et al.....	do.....	178.50
	Arthur B. Morse et al.....	do.....	178.50
	W. E. Hill.....	Services.....	101.10
	Danl. R. Frost.....	do.....	17.61
	F. L. Russell.....	do.....	144.00
	Geo. W. Ward.....	do.....	117.90
	F. M. Perry.....	do.....	117.90
	Geo. M. Rommel.....	Traveling expenses.....	93.47
11	E. A. de Schweinitz.....	Expenses.....	19.21
12	A. G. G. Richardson et al.....	Salaries.....	7,675.56
13	Chas. Keane et al.....	do.....	421.10
	Houghton & Delano.....	Films.....	7.80
	Mackall Bros.....	Carbolic acid, etc.....	10.60
	R. Carter Ballantyne.....	Baskets.....	1.64
	Duncan Stewart.....	Traveling expenses.....	24.75
	Henry J. Washburn.....	do.....	2.90
17	Hervey T. Potter.....	Services.....	3.00
	Chas. Cowie.....	do.....	152.00
	W. J. Kennedy.....	do.....	100.00
	Ray N. Drake.....	do.....	117.90
	Richd. W. Tuck et al.....	Salaries.....	370.16
	J. C. Milnes et al.....	do.....	422.80
	Ernest N. Hutchinson.....	Expenses.....	15.25
	Chas. M. Day.....	do.....	67.90
	Julius Huelsen.....	do.....	10.30
	E. C. Schroeder.....	do.....	6.25
	Thos. J. Turner.....	do.....	6.07
	W. H. Rose.....	do.....	9.45
	A. G. G. Richardson.....	do.....	12.70
	Geo. S. Baker.....	Traveling expenses.....	5.00
	Murray J. Myers.....	do.....	118.71
	Willis B. Lincoln.....	do.....	46.88
	U. G. Houck.....	do.....	80.85
	Geo. W. Pope.....	do.....	7.23
	Fredk. T. Dolan.....	do.....	6.55
	Ernest N. Hutchinson.....	do.....	38.30
	W. D. Collyer.....	do.....	11.40
	Allen A. Holcombe.....	do.....	36.26
	Peter I. Kershner.....	do.....	8.30
	Albert N. Irwin.....	do.....	30.35
	Chas. Cowie.....	do.....	19.45
	F. L. Russell.....	do.....	50.60
	W. D. Collyer.....	do.....	81.12
	F. W. Bicknell.....	do.....	465.26
	C. L. Morin.....	do.....	15.75
	H. D. Mayne.....	do.....	24.95
	T. Byron Cracraft.....	do.....	9.45
	Wm. C. Honan.....	do.....	21.00
	W. B. Niles.....	do.....	10.75



Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Nov. 17	W. B. Niles.....	Expenses.....	\$24.70
	Arthur R. Glaisyer.....	Traveling expenses.....	15.00
	Chas. F. Flocken.....	do.....	13.50
	M. Du Perow.....	Rubber tape.....	2.50
	Jas. B. Lambie.....	Hammers, etc.....	4.89
	Woodward & Lothrop.....	Buckets.....	7.14
	The J. C. Ergood Co.....	Brooms.....	6.50
	Edw. S. Schmid.....	Feed.....	14.00
	do.....	Mice.....	2.00
	H. Dinwoody Furniture Co.....	Linoleum, etc.....	86.70
	Jno. B. Sine.....	Use horse and buggy.....	35.00
	O. E. Dyson.....	do.....	25.00
	Jno. C. Lorenzen.....	do.....	33.75
	Chas. Keane.....	do.....	25.00
	S. W. Burt.....	do.....	25.00
	R. J. O'Brien.....	Oats, etc.....	45.00
	S. M. Birch Lumber Co.....	Lumber.....	40.03
	C. H. Polk.....	Shoats.....	32.00
	Wm. E. Phillips.....	Service.....	8.00
	The Friedenwald Co.....	Certificates.....	90.63
	The Anderson Lumber Co.....	Lumber.....	46.57
	do.....	do.....	38.00
	A. S. Chandler.....	Calf.....	23.10
	W. M. Breshner.....	Mare.....	25.00
	J. I. Holcombe Manufacture Co.....	Duster.....	6.50
	Peter Van Splinter.....	Plastering.....	115.00
	St. Louis National Stock Yards.....	Office rent.....	50.00
	F. H. Black.....	Mare.....	15.00
	A. & H. E. Cook.....	Cheese.....	4.55
	The Anderson Lumber Co.....	Cement.....	33.83
	Robt. Darling.....	Use horse and buggy.....	25.00
18	Wm. M. Galt & Co.....	Bran, etc.....	251.15
	Northern Pacific Rwy. Co.....	Passenger transportation.....	8.85
	do.....	do.....	4.40
	Pennsylvania R. R. Co.....	do.....	49.75
	Chicago, Milwaukee and St. Paul Rwy. Co.....	do.....	5.70
	Chicago, St. Paul, Minneapolis and Omaha Rwy. Co.....	do.....	7.00
	Great Northern Rwy. Co.....	do.....	2.90
	Pittsburg, Cincinnati, Chicago and St. Louis Rwy. Co.....	do.....	6.90
	The Atchison, Topeka and Santa Fe Rwy. Co.....	do.....	30.00
	Louisville and Nashville R. R. Co.....	do.....	3.50
	Oregon Short Line R. R. Co.....	do.....	10.50
	Southern Rwy. Co.....	do.....	8.65
19	J. F. Ryder.....	Traveling expenses.....	44.11
	David R. Hodges.....	do.....	46.40
	Western L. Johnson.....	do.....	31.75
	Laomer West.....	do.....	12.30
	Wm. E. Mowrer.....	do.....	28.06
	Chas. M. Day.....	do.....	33.82
	Wm. G. Shaw.....	do.....	37.45
	Chas. A. Brown.....	do.....	10.89
	Harry D. Paxson.....	do.....	33.30
	Levi Wells.....	do.....	116.11
	Jno. McBirney.....	do.....	17.25
	Louis A. Klein.....	do.....	1.30
	Fredk. O. Pettey.....	do.....	27.65
	A. H. Wallace.....	do.....	29.75
	Jos. W. Parker.....	do.....	15.40
	Clarence A. Clawson.....	do.....	21.60
	Howard D. Ebey.....	do.....	18.85
	W. H. Wray.....	do.....	7.76
	Geo. W. Pope.....	Expenses.....	5.70
	Wm. H. Wade.....	do.....	7.50
	Samuel E. Bennett.....	do.....	16.08
	Geo. M. Rommel.....	do.....	1.35
	W. H. Wray.....	do.....	2.24
	J. F. Ryder.....	Services.....	168.50
	Toolie A. Geddes.....	do.....	168.50
	W. H. Wray.....	do.....	387.50
	Caroline Burnaby.....	do.....	40.00
	Louisa Wells.....	Office rent.....	51.09
	Bausch & Lomb Optical Co.....	Triplets.....	6.12
	Plenty Horse.....	Mares.....	154.00
	Jacob Heil.....	Repairing rooms.....	22.00
	Dreamer.....	Mare.....	15.00
20	E. G. Schafer & Co.....	Ells, etc.....	3.67
	do.....	do.....	2.95

196 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Nov. 20	Geo. E. Howard & Co.	Labels	\$800.00
	Pennsylvania Co	Passenger transportation	7.00
	Arthur R. Glaisyer	Traveling expenses	78.35
	Wm. Jenner	do	43.00
21	Wilton F. Crewe	do	50.75
	W. P. Ellenberger	do	68.25
	Robt. H. Treacy	do	57.00
	R. A. Ramsay	do	100.25
	Nathaniel B. Smith	do	45.45
	Warner Worcester	do	61.75
	H. M. Rowe	do	81.20
	Isaac W. O'Rourke	do	84.30
	David C. Hanawalt	do	68.75
	M. W. Lang	do	176.86
	Thos. Redmond	do	74.25
	Granville H. Parks	do	7.90
	T. S. Buck Manufacturing Co	Rubber cement, etc	19.35
	W. E. Pratt	Hog ringers	6.30
	Morris Miller	Decorating house	46.00
	American Tag Co	Tags	220.00
	Geo. F. Muth & Co.	Kerosene oil, etc	14.88
	Rudolph, West & Co	Cattle tags	80.05
	American Ice Co	Ice	25.88
	W. T. Burrows	Services	15.00
	Potomac Electric Power Co	Electric current	42.20
22	Wm. Krafft	Cover slips	5.20
	Thos. Castor	Traveling expenses	74.35
	N. L. Townsend	do	64.60
	Ernest J. Foreman	do	27.85
	W. F. Pflaeging	do	45.25
	M. S. Lantz	do	67.00
	Walter E. Howe	do	30.75
	Dan. McCunningham	do	66.34
	Lowell Clarke	do	68.35
	Roy N. Drake	do	89.50
	Leslie J. Allen	do	49.25
	Louis Metsker	do	77.45
	Wm. D. Jorden	do	71.21
25	R. W. Hickman	do	142.38
	Geo. S. Hickox	do	73.11
	W. R. Dennis	do	112.95
	do	do	130.00
	do	do	76.25
	do	do	76.25
	Thos. White	do	38.65
	Henry McNally	do	90.00
	Frank C. Eells	do	73.00
	Clinton H. Bugbee	do	117.25
	E. T. Davison	do	113.81
	G. W. Ward	do	37.25
	Tooie A. Geddes	do	231.75
	W. H. Wray	Expenses	25.66
	Tooie A. Geddes	do	12.44
	Mackall Bros	Corks, etc	36.18
	F. J. Marley	Trap rock	30.00
26	S. R. Burch	Traveling expenses	120.95
28	The D. Henry Building Co	Building barns	16,386.96
	F. P. Shea	Hogs	127.50
	Chas. Hubinger	Scrapers, etc	23.96
	J. Otis Jacobs	Traveling expenses	110.80
29	Geo. E. Howard & Co.	Labels	800.00
	do	do	800.00
	Marion Dorsett et al	Salaries	4,840.72
	Chas. F. Flocken	Services	97.80
Dec. 1	National Electrical Supply Co.	Fan	15.00
	W. J. Kennedy	Services	100.00
	B. F. Van Valkenburgh	do	150.00
	W. D. Collyer	do	200.00
	Levi Wells	do	125.00
	M. W. Lang	do	125.00
2	C. W. & R. M. Bowen Co	X-ray plates	11.25
	Jno. Hastie	Corn	30.00
	The Beveridge Lumber Co.	Posts	64.00
	Wolf Bros	Envelopes	49.50
	Jno. C. Parker	Ink	82.03
	E. T. Davison et al	Salaries	426.65
3	Marion Dorsett	Traveling expenses	34.25
	E. P. Dowd et al	Salaries	173.00
	Lewis R. Baker et al	do	992.20
	Boyd Baldwin et al	do	608.60

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1902. Dec. 3	A. E. Behnke et al.	Salaries	\$1,265.60
	Sam. E. Bennett et al.	do	2,642.38
	H. A. Hedrick et al.	do	465.40
	Julius Huelsen et al.	do	651.00
	W. H. Rose et al.	do	1,114.20
	Edwd. P. Schaffter et al.	do	576.76
	Rice P. Steddum et al.	do	198.80
	Albert J. Payne et al.	do	1,022.80
	Albert Dean et al.	do	489.20
	Jas. Irwin	Services	81.60
	Louis A. Klein	do	97.80
	Wm. D. Jordan	do	97.80
	Harry L. McDonald	do	73.40
	Geo. C. Moser	do	97.80
	Albert N. Irwin	do	97.80
	Clarence C. Clawson	do	97.80
	Dan McCuningham	do	97.80
	Ernest J. Foreman	do	97.80
	W. L. Johnson	do	97.80
	Wm. G. Shaw	do	114.20
	Jos. W. Parker	do	114.20
	Harry D. Paxson	do	114.20
	Leslie J. Allen	do	114.20
	Thos. A. Bray	do	114.20
	Harry D. Adair	do	114.20
	Peter I. Kershner	do	114.20
	Geo. E. Totten	do	114.20
	Louis Metsker	do	114.20
	Arch. H. Wallace	do	114.20
	Thos. Castor	do	114.20
	Geo. W. Browning	do	114.20
	St. Louis and San Francisco R. R. Co.	Passenger transportation	15.55
	Fort Worth and Denver City Rwy. Co.	do	20.30
	Chicago, Milwaukee and St. Paul Rwy. Co.	do	11.50
	Chicago, St. Paul, Minneapolis and Omaha Rwy. Co.	do	14.80
	Pittsburg, Cincinnati, Chicago and St. Louis Rwy. Co.	do	18.00
	Missouri Lines of Chicago, Burlington and Quincy R. R. Co.	do	3.95
	do	do	5.80
4	Murray J. Myers	Services	97.80
	W. P. Ellenberger	do	114.20
	Willis B. Lincoln	do	114.20
	J. M. Turner	do	73.40
	Fredk. T. Dolan	do	114.20
	H. D. Mayne	do	97.80
	C. L. Morin	do	97.80
	Ernest J. Volgenau	do	114.20
	Allen A. Holcombe	do	114.20
	Geo. S. Hickox	do	114.20
	Nathaniel B. Smith	do	114.20
	A. J. Smith	do	73.40
	Hugh M. Rowe	do	114.20
	A. J. Pistor	do	114.20
	Isaac W. O'Rourke	do	114.20
	Wm. E. Mowrer	do	73.40
	Henry R. McNally	do	97.80
	J. Otis Jacobs	do	114.20
	Walter E. Howe	do	114.20
	R. A. Ramsay	do	114.20
	Warren Worcester	do	114.20
	Thos. White	do	114.20
	Robt. H. Treacy	do	114.20
	N. L. Townsend	do	114.20
	Thos. Redmond	do	73.40
	Matthias S. Lantz	do	114.20
	John McBirney	do	130.40
	Fredk. O. Petty	do	73.40
	Geo. A. Bond	do	114.20
	Wilton F. Crewe	do	97.80
	Clinton H. Bugbee	do	114.20
	W. R. Dennis	do	73.40
	Chas. A. Brown	do	73.40
	Lowell Clarke	do	114.20
	Roy N. Drake	do	114.20
	Howard D. Ebey	do	73.40
	Frank C. Eells	do	114.20
	Arthur R. Glaisyer	do	114.20
	Wm. Pflaeging	do	73.40

## 198 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Dec. 4	Jno. J. Hayes	Services	\$114.20
	David C. Hanawalt	do	114.20
	H. J. Hammond	do	114.20
	David R. Hodges	do	73.40
	Washington Gaslight Co.	Gas	43.70
5	Wagner Typewriter Co.	Repairing typewriter	5.00
	Barber & Ross	Nails, etc	46.33
	Jno. Forbes et al.	Salaries	3,009.79
	Harry N. Waller et al	do	2,715.92
	Chas. H. Zink et al	do	1,736.72
	Geo. W. Pope et al	do	518.60
	T. A. Shipley et al	do	309.00
	Fredk. Braginton et al	do	173.00
	Geo. Ditewig et al	do	261.00
	Nathan K. Fegley et al	do	246.40
	Joshua Miller et al	do	246.40
	Geo. C. Faville et al	do	285.40
	F. L. De Wolf et al.	do	219.96
	Wilber J. Murphy et al	do	173.00
	Jos. M. Good et al.	do	173.00
	Wesley N. Neil et al.	do	173.00
8	W. S. Cass et al	do	173.00
	Jas. S. Kelly et al	do	173.00
	Chas. A. Schaufler et al.	do	932.91
	Jos. B. Clancy et al	do	3,055.32
	W. H. Gibbs et al	do	156.69
	Richd. J. Blanche et al	do	183.76
	W. B. Niles et al	do	573.10
	Thos. J. Turner et al	do	807.40
	Jas. J. Brougham et al.	do	1,433.17
	F. Auerbach Bros	Office rent	30.00
	Saml. E. Bennett	Use horse, etc	38.00
	Wm. E. Phillips	Service	8.00
	Metropolitan Coal Co	Wood, etc	7.00
	J. W. Cleveland	Knobs, etc	7.76
	Peter Van Splinter	Repairing well	5.00
	P. H. Merchant	Mare	55.00
	Ed. Calkins	do	95.00
	Chas. Hacker	Use horse and buggy	19.00
	Russell G. Merrill	do	15.00
	W. S. Cass	do	34.00
	Jas. J. Brougham	do	40.00
	Geo. E. Howard & Co.	Envelopes	118.25
	do	Labels	800.00
	Albert E. Behnke	Use horse and buggy	35.00
	Don C. Ayer	do	15.00
	Jas. W. Davis	do	18.00
	The Friedenwald Co	Stamps	68.44
	do	do	563.76
	Chicago Car Seal and Manufacturing Co	Seals and tags	153.15
	Armour & Co	Soap	3.20
	The Burnet Co	Batteries	4.76
	F. W. Bicknell	Traveling expenses	313.03
	Geo. W. Butler	Services	114.20
	D. Cumming	do	100.00
	Jno. A. Bell	do	32.00
	F. W. Bicknell	do	200.00
9	Andrew Hyde	Traveling expenses	6.45
	A. D. Melvin	do	84.70
	Jas. Fleming et al	Salaries	852.78
	Jno. W. Burton et al.	do	2,205.03
	O. E. Dyson et al.	do	8,314.09
	Walter J. Stewart et al	do	5,590.96
10	Niels C. Sorensen et al	do	1,822.40
	Richd. W. Tuck et al	do	384.08
	A. R. Wake et al	do	981.05
	Don. C. Ayer et al	do	3,842.14
	A. G. G. Richardson et al	do	7,513.28
	A. G. G. Richardson	Expenses	11.85
	American Ice Co	Ice	24.00
	W. B. Moses & Sons	Indexes, etc	6.00
	Houghton & Delano	Seed plates, etc	12.17
	Yayman & Erbe Manufacturing Co.	Cases	4.00
11	W. L. Hiatt et al	Salaries	422.45
	Geo. S. Baker et al	do	409.40
	F. W. Huntington et al	do	147.80
	Clarence Loveberry et al	do	223.20
	E. N. Hutchinson et al.	do	434.02
	O. B. Hess et al.	do	189.20
	Robt. Darling et al	do	187.60

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1902. Dec. 11	Chas. Keane et al	Salaries	\$407.80
	Frank D. Ketchum et al	do	1,025.54
	Henry P. Armsby et al	do	185.00
	Wm. Thompson et al	do	1,064.19
	Fredk. W. Ainsworth et al	do	287.30
	Louis K. Green et al	do	270.80
	Arthur B. Morse et al	do	173.00
	Major Schofield	Traveling expenses	29.08
	Chas. Cowie	do	7.35
	F. M. Perry	do	8.70
	Arthur B. Morse	do	3.44
	H. D. Mayne	do	16.05
	Allen A. Holcombe	do	47.71
	Wm. C. Honan	do	3.35
	E. J. Foreman	do	29.05
	Harry D. Paxson	do	5.50
	do	do	13.90
	W. S. Cass	do	14.75
	Jno. J. Hayes	do	69.50
	Fred. T. Dolan	do	5.35
	Major Schofield	Services	9.78
	Patk. Dorsey	do	37.50
	Harry F. Hume	do	58.80
	Frank A. Paddock	do	13.70
	Wm. H. Wade	do	73.40
	Jas. W. Davis	do	73.40
	Claude E. Verry	do	58.80
	W. E. Hill	do	97.80
	U. G. Houck	do	130.40
	F. L. Russell	do	216.00
	M. O. Anderson	do	114.20
	Wm. R. Fleming	do	97.80
	Chas. Cowie	do	96.00
	F. M. Perry	do	114.20
	Geo. S. Hickox	Expenses	9.50
	W. B. Niles	do	13.00
	W. H. Rose	do	9.80
	Robt. Darling	Use horse and buggy	25.00
	Chas. Keane	do	25.00
	F. D. Ketchum	do	25.00
	E. I. Williams	Heifers	50.00
	St. Louis National Stock Yards	Office rent	50.00
	H. B. Brown	Mare	20.00
	M. W. Lang	Traveling expenses	150.01
	Geo. W. Pope	do	5.21
	Geo. A. Bond	do	22.50
	T. Byron Cracroft	do	26.96
	Harry C. Jacobs	do	4.25
	C. L. Morin	do	9.65
	E. L. Volgenau	do	13.80
	W. D. Collyer	do	35.13
	Dan McCuningham	do	49.35
	Clarence A. Clawson	do	22.35
	A. D. Melvin	do	77.60
	Jas. M. Pickins	do	32.69
	Jno. F. Kelly	do	3.35
	Wm. Jenner	do	29.00
	H. J. Hammond	do	82.75
	Geo. L. Baker	do	6.20
	Geo. C. Moser	do	31.25
	Peter I. Kershner	do	22.47
	Albert N. Irwin	do	36.90
	F. L. Russell	do	83.30
	Geo. F. Thompson	do	24.50
	W. P. Ellenberger	do	81.73
	W. B. Niles	do	7.50
	Chas. M. Day	do	34.10
	U. G. Houck	do	90.59
	Boyd Baldwin	do	5.12
	E. T. Davison	Expenses	15.27
	Linus E. Sargent	do	7.25
	Geo. W. Pope	do	4.10
	Thos. J. Turner	do	6.88
	E. A. de Schweinitz	do	18.89
	The New York and New Jersey Telephone Co.	Service	14.90
	Fred. A. Schmidt	Oil boards	1.14
	Woodward & Lothrop	Soap	10.54
	Z. D. Gilman	Bensole, etc	6.07
	Rudolph, West & Co	Rope, etc	37.96

## 200 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Dec. 12	W. M. Galt & Co.	Corn	\$32.00
	G. W. Wood	Services	114.20
	Tyer Rubber Co.	Rubber tips	9.18
13	Dennison Manufacturing Co.	Tags	11.56
	do	do	16.32
	Chicago Car Seal and Manufacturing Co.	do	17.40
	Bausch & Lomb Optical Co.	Forceps, etc	9.18
	C. H. Zink	Expenses	100.00
	do	do	.90
	Henry Hunter	Services	65.00
	M. E. Knowles	do	16.00
	Ernest N. Hutchinson	Traveling expenses	14.20
	Harry B. Adair	do	2.55
	Harry L. McDonald	do	21.75
	Geo. S. Hickox	do	29.25
	Harry L. McDonald	do	27.01
	Joseph W. Parker	do	8.30
	Louis A. Klein	do	13.80
	W. L. Johnson	do	32.50
	Arch. H. Wallace	do	42.00
	C. H. Zink	do	5.00
	Thos. A. Bray	do	2.75
16	E. T. Davison et al.	Salaries	406.70
	Ernest N. Hutchinson	Expenses	14.70
	G. W. Ward	Traveling expenses	26.00
	Geo. E. Totten	do	56.70
	do	do	40.10
	Wm. D. Jordan	do	79.04
	Louis Metsker	do	69.99
	Thos. Castor	do	68.36
	Bessie Merchant	Mare	25.00
	Wm. Lochte	Shoeing horses	10.50
	The Kny-Scheerer Co.	Formaldehyde	7.00
	O. E. Dyson	Use horse	25.00
	A. P. Little	Pencils, etc	4.25
	Jno. B. Sine	Use horse and buggy	35.00
	Union Stock Yards and Transit Co.	Coal	5.00
	Jno. C. Lorenzen	Use horse and buggy	32.40
	S. W. Burt	do	25.00
	Stock Yard Paint Co.	Paper, etc	2.07
	E. I. Williams	Calves	50.00
	Joseph Hiatt	Pigs	24.00
17	Chas. M. Day	Expenses	83.95
	Julius Huelsen	do	7.90
	W. S. Cass	Traveling expenses	47.05
	Fredk. O. Pettey	do	4.00
	J. C. Milnes	Services	130.40
	Northeast Dressed Meat and Wool Co.	Calf, etc	25.25
18	Levi Well	Traveling expenses	144.14
	Frank C. Eells	do	44.50
	N. L. Townsend	do	60.65
	Leslie J. Allen	do	75.75
	Warner Worcester	do	46.25
	Chas. A. Brown	do	5.35
	Jno. E. Mohler	do	77.59
	Wm. E. Mowrer	do	62.30
	Jno. McBirney	do	39.00
	W. H. Wray	do	9.34
	J. F. Ryder	do	30.00
	W. H. Wray	Services	375.00
	J. F. Ryder	do	163.00
	Caroline Burnaby	do	40.00
	E. C. Schroeder	Expenses	6.30
	W. H. Wray	do	10.63
	Chas. Hubinger	Oil, etc	19.61
	do	Gasoline	31.28
	E. J. Pullman	Plates	1.30
	Morris Miller	Repairing hall	28.00
	Wm. E. Phillips	Services	2.58
	Illinois Central R. R. Co.	Transportation	.21
	Burlington and Missouri River R. R.	do	3.07
	Pennsylvania Company	do	.67
	do	do	3.52
	Stephen C. Dooley	do	1.51
	do	do	1.80
	do	do	1.49
	Illinois Central R. R. Co.	do	26.15
19	Lowell Clarke	Traveling expenses	82.45
	Wm. F. Pflaeging	do	34.50
	R. A. Ramsay	do	93.00

EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE. 201

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Dec. 19	Walter E. Howe	Traveling expenses	\$26.50
	H. J. Hammond	do	70.75
	W. R. Dennis	do	39.90
	I. W. O'Rourke	do	113.55
	Roy N. Drake	do	40.25
	The Chesapeake and Ohio Rwy. Co	Passenger transportation	82.40
	Union Pacific R. R. Co	do	13.00
	The Pennsylvania R. R. Co	do	16.00
	Baltimore and Ohio R. R. Co	do	17.50
	Southern Rwy. Co	do	16.00
	do	do	12.60
	Burlington and Missouri River R. R	do	31.74
	Pennsylvania Co	do	17.50
	The Missouri Pacific Rwy. Co	do	27.75
	Chicago, Burlington and Quincy Rwy. Co	do	.79
	The Pittsburg, Cincinnati, Chicago and St. Louis Rwy. Co.	do	26.50
	Terre Haute and Indianapolis R. R. Co	do	14.80
	Nashville, Chattanooga and St. Louis Rwy. Co.	do	12.85
	The Atchison, Topeka and Santa Fe Rwy. Co.	do	10.77
	Chicago and Alton Rwy. Co	do	20.15
	New York Central and Hudson River R. R. Co	do	18.50
20	Jerry Bond	Cattle	1,087.10
	Amos Gates	Cows	220.50
	S. E. Townsend	Cattle	507.50
	Geo. C. Howard & Co.	Labels	560.00
	do	do	1,040.00
	Church & Stephenson	Posts	225.50
22	Lutz & Co	Pads	13.20
	Geo. B. McCabe	Traveling expenses	29.40
	Jas. M. Pickens	do	56.58
	W. C. Pennywitt	do	4.63
26	D. E. Salmon	do	122.16
27	H. M. Rowe	Expenses	9.00
	Saml. E. Bennett	do	16.03
	Toole A. Geddes	Services	163.00
	Thos. J. White	Traveling expenses	31.50
	H. M. Rowe	do	74.75
	Clinton A. Bugbee	do	105.75
	David R. Hodges	do	32.75
	David C. Hanawalt	do	97.75
	Thos. Redmond	do	72.50
	Henry McNally	do	85.00
	J. Otis Jacobs	do	33.50
	Nathl. B. Smith	do	45.60
	Matthias Lantz	do	23.75
	Jno. J. Hayes	do	46.50
	Howard D. Ebey	do	33.45
	E. A. de Schweinitz	do	55.50
	Toole A. Geddes	do	62.18
	F. E. Morgan	Pigs	16.00
	J. K. De Wolf	Mares	70.00
	C. H. Gay	Mare	5.00
	B. O. Ewing	Mares	445.00
	Wm. B. Wallace	Cattle	607.60
	Wm. Difley	do	463.40
	M. Abrams	do	611.80
	J. J. Kerrigan	do	196.70
	Martha L. Bryant	do	80.00
	Wm. Read & Sons	do	39.90
	Jno. Cullen	do	693.00
	Taunton Insane Farm	do	87.50
	F. P. Shea	Hogs	120.00
	Marion Dorset et al	Salaries	4,969.41
	Total second quarter		328,300.90
1903.			
Jan. 3	Geo. E. Howard & Co.	Labels	800.00
	C. L. Morin	Services	101.10
	H. D. Mayne	do	101.10
	A. A. Holcombe	do	117.90
	W. J. Kennedy	do	100.00
	F. W. Bicknell	do	250.00
	W. D. Collyer	do	200.00
	Levi Wells	do	125.00
	B. F. Van Valkenburg	do	150.00
	M. W. Lang	do	125.00

## 202 EXPENDITUEES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Jan. 3	Leonard Pearson	Services	\$400.00
	Wm. H. Wade	do	75.80
5	Mrs. E. L. Coleman	Office rent	12.00
	Rudolph, West & Co	Wire fence, etc	610.40
	Potomac Electric Power Co	Electric current	42.17
	J. D. Frazee	Towel service	3.86
	R. P. Clarke Co	Sheeting	.70
	do	do	1.40
	The Geo. W. Knox Express Co.	Transportation	4.95
	G. R. Douglass	Electric bells, etc	4.00
	American Tag Co	Tags	32.00
	Thos. O. Sullivan	Cattle	296.80
	C. E. Haven	Wood	60.00
	Isaac Alger, jr	Cattle, etc	1,186.50
	Harrington, King & Co.	Rope	7.31
	Jno. R. Burgess	Cow	35.00
	Frank Matthewson	Cattle	140.00
	S. W. Marshall	do	38.50
	Wm. A. Difley	Transportation	7.75
	C. E. Prouty	do	7.25
	E. Paignon, jr	Cattle	238.00
	Chas. W. Mann	Services	31.20
	H. B. Read	Cattle	572.60
	Albert Manley	do	1,095.50
	G. S. Peavey	do	49.00
	Frank Haven	Expenses	24.00
	do	do	32.00
6	G. E. Patrick	Traveling expenses	7.70
	Geo. M. Rommel	do	79.44
	R. W. Hickman	do	5.70
	W. H. Rose et al	Salaries	1,150.40
	Fredk. Braginton et al	do	178.50
	E. P. Dowd et al	do	178.50
	Julius Huelsen et al	do	672.00
	Geo. C. Faville et al.	do	294.80
	Nathan K. Fegley et al	do	254.30
	H. A. Hedrick et al	do	478.30
	F. W. Huntington et al	do	153.10
	Albert Dean et al.	do	606.50
	Saml. E. Bennett et al	do	2,175.64
	R. S. Fox	Cattle	539.70
	Chas. Walmsley	do	541.10
	E. G. Boynton	do	578.90
	J. P. Emerson	do	743.40
	Ira H. Angell	do	747.60
	Chas. A. Skelton	do	781.50
	Henry Buxton	do	1,050.00
	Jas. Johnson	do	2,472.40
	Robinson & Jones	Lime	2.50
	Attleboro Coal Co	do	8.75
	A. J. Richards & Son	do	8.80
	F. W. Alger	Services	11.00
	Geo. B. McClellan	Calf	14.00
	Mrs. W. H. Judd	Expenses	18.75
	Osgood Construction Co	Services	28.00
	do	do	29.00
	John Cullen	Hogs	35.00
	Geo. Lawrence	Cow	35.00
	Hattie Burns	Services	43.89
	Paine Furniture Co	Desks, etc	91.50
	A. A. Hutcherson	Cattle	131.25
	Gustav Roessler	do	280.00
	Anderson & Christofferson	do	300.00
	Thos. Collier	do	308.00
	B. G. Heald	do	386.40
	Andrews Bros	do	406.00
	Clarence O. Durfee	Services	19.57
	Patck. Dorsey	do	9.00
	Henry F. Hume	do	60.60
	Patk. Dorsey	do	27.00
	D. Cumming	do	75.00
	U. G. Houck	do	134.80
	A. H. Wallace	do	117.90
	Thos. Castor	do	117.90
	Geo. E. Totten	do	117.90
	Louis Metsker	do	117.90
	Thos. A. Bray	do	117.90
	Jos. W. Parker	do	117.90
	Peter I. Kershner	do	117.90
	Wm. G. Shaw	do	117.90



## Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Jan. 6	Harry B. Adair	Services	\$117.90
	Leslie J. Allen	do	117.90
	Geo. W. Browning	do	117.90
	Ernest J. Foreman	do	101.10
	Geo. C. Moser	do	101.10
	Dan McCunningham	do	101.10
	Louis A. Klein	do	101.10
	Wm. D. Jordan	do	101.10
	Albert N. Irwin	do	101.10
	Clarence A. Clawson	do	101.10
	W. L. Johnson	do	101.10
	Chas. A. Brown	do	75.80
	Harry L. McDonald	do	75.80
	Geo. S. Hickox	do	117.90
	Samuel E. Bennett	Use of horse and buggy	38.00
	United States Envelope Co	Envelopes	35.24
7	Geo. E. Howard & Co	Labels	800.00
	Wagner Typewriter Co.	Typewriter	87.50
	Arthur R. Glaisyer	Traveling expenses	6.00
	Wm. M. H. Seabrook et al	Salaries	438.50
	F. L. De Wolf et al	do	178.50
	Richard L. Blanche et al	do	178.50
	Jas. Johnston et al	do	1,875.07
	Geo. W. Pope et al	do	356.00
	Harry N. Waller et al	do	2,704.91
	Boyd Baldwin et al	do	628.20
	Jno. Forbes et al	do	3,070.69
	Geo. M. Whitaker	Services	240.00
	Geo. W. Butler	do	117.90
	M. O. Anderson	do	117.90
	David C. Hanawalt	do	117.90
	Lowell Clarke	do	117.90
	Walter E. Howe	do	117.90
	Frank C. Eells	do	117.90
	Thos. White	do	117.90
	Warren Worcester	do	117.90
	Roy N. Drake	do	117.90
	N. S. Townsend	do	117.90
	J. Otis Jacobs	do	117.90
	Matt. S. Lantz	do	117.90
	H. M. Rowe	do	117.90
	Robt. H. Treacy	do	117.90
	C. H. Bugbee	do	117.90
	R. A. Ramsay	do	117.90
	Geo. A. Bond	do	117.90
	Jno. J. Hayes	do	117.90
	H. J. Hammond	do	117.90
	Isaac W. O'Rourke	do	117.90
	A. R. Glaisyer	do	117.90
	Wilton F. Crewe	do	101.10
	Horace H. Collins	do	101.10
	W. R. Dennis	do	75.80
	Wm. Pflaeging	do	75.80
	Howard D. Ebey	do	75.80
	Thos. Redmond	do	75.80
	A. J. Smith	do	75.80
	David R. Hodges	do	75.80
	A. J. Pistor	do	73.08
8	Patk. O'Shea et al	Salaries	24.00
	A. G. G. Richardson et al	do	7,838.37
	Wesley N. Neil et al	do	178.50
	A. E. Behnke et al	do	1,291.71
	Lewis R. Baker et al	do	1,023.90
	W. J. Murphy et al	do	178.50
	Chas. A. Schaufler et al	do	914.07
	Edw. P. Schaffter et al	do	617.18
	Rice P. Steddom et al	do	205.60
	Fredk. T. Dolan	Services	117.90
	Willis B. Lincoln	do	117.90
	Murray J. Myers	do	101.10
	Jos. M. Turner	do	75.80
	W. P. Ellenberger	do	117.90
	Wm. R. Fleming	do	101.10
	Jas. W. Davis	do	75.80
	N. B. Smith	do	117.90
	F. O. Pettey	do	75.80
	Jno. McBirney	do	134.80
	Jno. A. Bell	do	24.00
	Hervey T. Potter	do	15.00
	Ernest L. Volgenau	do	22.83

## 204 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Jan. 8	G. W. Ward	Services	\$117.90
	Chas. Cowie	do	152.00
	W. M. Galt & Co	Hay and straw	2,489.79
	Church & Stephenson	Lumber, etc	158.04
	Wesley N. Neil	Expenses	7.70
9	W. A. Blodgett	Cattle	2,179.10
	Clinton P. Howard	do	1,867.60
	Frank L. Howe	do	1,419.50
	W. E. Hayden	do	1,250.00
	H. A. Gilmore & Co.	do	971.60
	Geo. C. Fisher	do	784.00
	Jabez A. Fisher	do	587.50
	Thos. Mattie	do	451.50
	Wm. Connors	Services	181.00
	do	do	36.00
	S. R. Briggs	Meals and lodgings	46.50
	J. F. Carey	Cow	38.50
	Allen Andrews	Meals and lodgings	14.00
	Chas. H. Chaynon	do	12.25
	Jno. J. Forrest	Creolin	5.05
	J. F. Eaton	Services	4.00
	Geo. R. Simonds	Kerosene	4.40
	B. P. Wende et al	Salaries	1,677.23
	Chas. H. Zink et al	do	699.00
	Thos. J. Turner et al	do	833.80
	A. J. Payne et al	do	938.20
	Wm. Thompson et al	do	996.59
	F. D. Ketchum et al	do	1,061.20
	Jas. J. Brougham	do	1,475.26
	Jos. B. Clancy et al	do	2,992.14
	Don C. Ayer et al	do	3,890.48
	L. C. Corbett	Traveling expenses	22.40
	Jno. J. Brougham	Expenses	21.75
10	Walter J. Stewart et al	Salaries	5,933.66
	Jno. W. Burton et al	do	2,171.58
	Jas. Fleming et al	do	802.01
	Jas. M. Pickens	Traveling expenses	34.16
	Albert Hassall	do	111.16
	Jno. R. Mohler	do	8.70
	do	do	76.03
12	Geo. E. Howard & Co.	Labels	800.00
	Rudolph, West & Co	Bolts	21.05
	Mackall Bros	Mercury, etc	44.30
	Church & Stephenson	Posts, etc	253.62
	Woodward & Lothrop	Soap	7.50
	Z. D. Gilman	Thermometers, etc	74.49
	Houghton & Delano	Photo cards	.60
	American Ice Co	Ice	24.85
	L. G. Orndorff	Axle	4.25
	Lamb & Tilden	Ink	12.00
	Parker, Bridget & Co	Coats	3.00
	W. B. Moses & Sons	Shades and rugs	7.00
13	Wyckoff, Seamans & Benedict	Typewriter, etc	205.46
	Edwd. S. Schmid	Feed	14.00
	Z. D. Gilman	Oil, etc	60.58
15	W. E. Hill	Services	101.10
	F. L. Russell	do	248.00
	Hurlbert Young	do	9.78
	Saml. E. Bennett	Traveling expenses	36.62
	E. T. Davison	do	121.32
	Edwd. P. Schaffter	do	2.10
	W. B. Niles	do	4.35
	Thos. Redmond	do	19.50
	Clarence O. Durfee	do	1.10
	Saml. E. Bennett	do	29.55
	Wilton F. Crewe	do	30.50
	H. D. Mayne	do	30.55
	Jno. P. O'Leary	do	1.80
	C. L. Morin	do	6.35
	Robt. G. Knipple	do	5.90
	Merrill W. Lang	do	22.75
	Claude E. Verry	do	4.94
	Robt. L. McClellan	do	6.00
	C. H. Zink	do	17.80
	Wm. A. Skinner	do	12.25
	A. G. G. Richardson	do	25.20
	Geo. W. Pope	do	4.16
	do	do	6.22
	Matthias S. Lantz	do	18.50
	Chas. W. Pagle, jr	do	5.55

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1903. Jan. 15	O. E. Dyson et al	Salaries	\$9,078.84
	Joshua Miller et al	do	254.80
	Louis K. Green et al	do	300.40
	Fredk. W. Ainsworth et al	do	370.00
	Jos. M. Good et al	do	178.50
	Trajan A. Shipley et al	do	321.50
	E. T. Davison et al	do	444.00
	Ernest N. Hutchinson et al	do	470.17
	O. B. Hess et al	do	195.40
	Geo. S. Baker et al	do	420.87
	J. C. Milness et al	do	523.90
	W. S. Cass et al	do	178.50
	Robt. Darling et al	do	198.70
	W. B. Niles et al	do	561.20
	Clarence Loveberry et al	do	342.99
	Geo. Ditewig et al	do	269.50
	Jas. S. Kelly et al	do	178.50
	W. H. Gibbs et al	do	161.70
	Arthur B. Morse et al	do	178.50
	A. R. Wake et al	do	1,547.58
	N. C. Sorensen et al	do	1,809.34
	Richd. W. Tuck et al	do	396.26
	Henry P. Armsby et al	do	190.00
	Chas. Keane et al	do	413.53
	Joshua Miller	Expenses	10.07
	W. H. Rose	do	13.05
	Chas. A. Schaufier	do	34.93
	Jno. Forbes	do	4.85
	Chas. Keane	do	4.50
	W. B. Niles	do	13.00
	F. W. Huntington	do	2.00
	Harry N. Waller	do	12.95
	T. A. Shipley	do	10.75
	Chas. M. Day	do	15.40
	Geo. W. Butler	do	75.00
	Saml. E. Bennett	do	6.56
	Albert E. Behnke	do	20.40
	Boyd Baldwin	do	5.12
	Hiram Jerome	do	8.40
	Fredk. Braginton	do	1.70
	Fred. J. Goebel	do	3.95
	F. L. De Wolf	do	2.14
	Jos. M. Good	do	11.55
	H. A. Hedrick	do	11.02
	N. C. Sorensen	do	15.45
	A. G. G. Richardson	do	2.95
	do	do	12.65
	J. W. Pope	do	13.77
	D. E. Salmon	do	80.85
	do	do	21.30
	W. B. Jourdan	Cattle	469.00
	G. H. Woodman & Co	Cartridges	5.25
	Chas. E. Jennings	Cattle	1,666.00
	Robt. Lindsey	do	724.50
	C. B. Frost & Co	Lime	7.25
	Coolidge Bros	do	4.60
	Isaac Alger, jr	Services	20.00
	Jno. Dugiud	do	50.00
	Jos. F. Lamson	Cattle	280.20
	W. S. Cass	Use horse and buggy	34.00
	Iowa Telephone Co.	Service	12.00
	A. E. Behnke	Use horse and buggy	35.00
	T. F. Rogers, agent	Rent	52.50
	The Real Estate and Improvement Co.	do	56.25
	Emma Curran, administratrix	do	21.00
	Jas. Stikeman	do	125.00
	St. Joseph Stock Yards Co.	do	135.00
	N. Rufus Gill	do	31.25
	The Cincinnati Union Stock Yards Co.	do	45.00
	East Buffalo Live Stock Exchange	do	90.00
	Bourbon Stock Yard Co.	do	30.00
	F. Auerbach Co.	do	30.00
	R. G. Merrill	Use horse, etc.	15.00
	Iowa Telephone Co.	Service	4.50
	W. H. Turner	Mare	15.00
	Passaic Seed Co	Oats, etc	38.08
	A. J. Tyler	Services	7.20
	B. E. Bayes	Corn	52.50
	Red Feather	Mare	30.00
	F. D. Ketchum	Use horse, etc.	25.00

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Jan. 15	Cutler & Neilson Paint and Color Co . . . . .	Paint . . . . .	\$5.00
	Mendenhall Transfer Co . . . . .	Drayage . . . . .	4.50
	Chas. Keane . . . . .	Use horse, etc . . . . .	25.00
	W. C. Lamb . . . . .	Services . . . . .	7.50
	Sunset Telephone and Telegraph Co . . . . .	Service . . . . .	10.50
	Crazy Bear . . . . .	Mare . . . . .	7.50
	Eagle Louse . . . . .	do . . . . .	40.00
	W. M. Lawson . . . . .	Horseshoeing . . . . .	8.46
	do . . . . .	Services . . . . .	20.10
	The Bell Telephone Co., of Philadelphia . . . . .	Service . . . . .	40.00
	U. F. Willner . . . . .	Stove . . . . .	15.20
	The Chesapeake and Potomac Telephone Co . . . . .	Service . . . . .	12.00
	Maryland Telephone and Telegraph Co . . . . .	do . . . . .	12.00
	J. S. Stott . . . . .	Bottles, etc . . . . .	8.10
	Frontier Towel Supply Co . . . . .	Service . . . . .	18.14
	Nebraska Telephone Co . . . . .	do . . . . .	13.50
	Mendenhall Transfer Co . . . . .	Storage . . . . .	10.00
	New Telephone Co . . . . .	Service . . . . .	20.00
	Jas. J. Brougham . . . . .	Use horse, etc . . . . .	40.00
	Chas. A. Schaufner . . . . .	do . . . . .	105.00
	Jno. Forbes . . . . .	do . . . . .	54.00
	Missouri and Kansas Telephone Co . . . . .	Service . . . . .	12.50
	Northeastern Telephone and Telegraph Co . . . . .	do . . . . .	12.50
	City Telephone Co . . . . .	do . . . . .	3.00
	A. S. Chandler . . . . .	Steer . . . . .	12.50
	Robt. Darling . . . . .	Use horse, etc . . . . .	25.00
	Kny-Scheirer Co . . . . .	Syringes . . . . .	11.85
	The Friedenwald Co . . . . .	Stamps . . . . .	156.60
	Chicago Car Seal and Manufacturing Co . . . . .	Tags, etc . . . . .	134.15
	do . . . . .	Seals . . . . .	187.50
	Thos. Meehan & Sons (Incorporated) . . . . .	Lumber . . . . .	39.25
	Wm. Bartels . . . . .	Monkeys . . . . .	40.00
	Wm. E. Pratt . . . . .	Ringers . . . . .	1.35
	Bausch & Lomb Optical Co . . . . .	Tubes . . . . .	39.48
	The Geo. F. Blake Manufacturing Co . . . . .	Grates . . . . .	2.70
	United States Envelope Co . . . . .	Envelopes . . . . .	16.32
	do . . . . .	do . . . . .	78.35
	Library Bureau . . . . .	Cards . . . . .	22.80
	do . . . . .	do . . . . .	61.55
	Whitall Tatum Co . . . . .	Flasks . . . . .	12.36
	Eimer & Amend . . . . .	Foil, etc . . . . .	31.00
	do . . . . .	Bottles, etc . . . . .	3.90
	do . . . . .	Flasks, etc . . . . .	15.03
	Dufur & Co . . . . .	Cages . . . . .	44.00
	E. J. Brooks & Co . . . . .	Glasses . . . . .	79.50
16	Albert N. Irwin . . . . .	Traveling expenses . . . . .	9.85
	Chas. B. Hutchinson . . . . .	do . . . . .	64.79
	Jno. V. Laddey . . . . .	do . . . . .	130.75
	E. L. Volgenau . . . . .	do . . . . .	116.49
	P. H. Mullooney . . . . .	do . . . . .	100.58
	F. M. Perry . . . . .	do . . . . .	89.96
	Leonard Pearson . . . . .	do . . . . .	100.50
	Frank H. Burleigh . . . . .	do . . . . .	13.44
	Thos. Coyle . . . . .	do . . . . .	65.28
	O. A. Johnson . . . . .	Cattle . . . . .	636.30
	Frank P. Wells . . . . .	do . . . . .	653.00
	Herman M. Guild . . . . .	do . . . . .	630.00
	Samuel Russell . . . . .	do . . . . .	750.30
	C. H. Jones . . . . .	do . . . . .	751.80
	Appleton M. Teels . . . . .	do . . . . .	940.10
	A. A. Goodell . . . . .	do . . . . .	1,088.75
	Geo. A. Boynton . . . . .	do . . . . .	1,530.00
	A. D. Boynton . . . . .	do . . . . .	1,690.50
	Danl. A. Carleton . . . . .	do . . . . .	1,698.20
	Emerson B. Leland . . . . .	do . . . . .	1,810.00
	Jas. W. Gould . . . . .	do . . . . .	599.38
	Clinton P. Howard . . . . .	Pigs . . . . .	4.20
	Frank Matthewson . . . . .	Services . . . . .	5.00
	Jno. Ford . . . . .	do . . . . .	7.00
	F. O. Libbey . . . . .	Meals and lodging . . . . .	9.45
	Walter B. Jourdan . . . . .	Services . . . . .	19.25
	M. J. Linnane . . . . .	do . . . . .	26.00
	Albert Manley . . . . .	do . . . . .	33.00
	Wm. P. Baldwin . . . . .	Cattle . . . . .	38.00
	Jas. A. Andrews . . . . .	do . . . . .	39.00
	Aaron Aldrich . . . . .	do . . . . .	47.00
	Geo. B. Davis . . . . .	do . . . . .	70.00
	H. A. Gilmore & Co . . . . .	Services . . . . .	84.25
	Geo. A. Farr . . . . .	Cattle . . . . .	90.00
	M. H. Worden . . . . .	do . . . . .	95.00

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Jan. 16	A. A. Freeman	Cattle	898.00
	McKinney Bros	Services	119.60
	Jno. F. Shine	do	138.75
	Roy A. Wells	Cattle	160.00
	Alvah W. York	do	247.00
	Benj. S. Jensen	do	278.00
	Saml. Adams	do	280.00
	A. H. Wells	do	295.00
	James Craddock	do	352.00
	E. H. Thayer	do	322.00
	H. H. Robbins	do	339.50
	Jno. Buckley	do	367.50
	Erwin A. Edson	do	395.00
	Jno. A. Gould	do	425.00
	Wm. A. Phelps	do	500.25
	C. U. Tolles	do	529.00
	Freeman H. Kaizer	do	588.00
	C. B. Robbins	do	595.00
	Edw. A. Felton	do	616.00
	D. E. Salmon	Expenses	138.05
	Saml. E. Bennett	do	20.89
	Wm. Lochte	Shoeing horses	11.00
	Geo. E. Howard & Co.	Labels	1,040.00
	J. W. Hurdle	Services	7.00
17	W. R. Dennis	Traveling expenses	3.55
	Geo. S. Baker	do	6.85
	G. W. Ward	do	11.00
	H. M. Ball	do	3.05
	Fredk. T. Dolan	do	1.75
	W. P. Ellenberger	do	27.96
	Lewis R. Baker	Expenses	1.58
	Wm. Thompson	do	4.24
	Geo. S. Baker	do	3.05
	A. A. Holcombe	do	5.80
	Don C. Ayer	Use of horse	15.00
	Glynn & Smith	Drayage	6.00
	Jas. W. Davis	Use horse and buggy	18.00
	The Kansas City Stock Yards Co.	Office rent	45.00
	Thos. A. Bray	Use of horse	75.00
	H. J. Harwood	Rent of land	62.50
	St. Louis National Stock Yards	Office rent	50.00
	Emma J. Adams et al.	do	120.00
	Armstrong Steam Laundry	Towel service	1.55
	New York and New Jersey Telephone Co.	Telephone service	20.50
	Weehawken Stock Yard Co.	do	3.60
	F. P. Burnap Stationery and Printing Co.	Writing fluid	6.00
	Missouri and Kansas Telephone Co.	Service	24.00
	Martin Laundry and Towel Co.	do	12.02
	Miller Lock Co.	Padlocks	14.00
	Dennison Manufacturing Co.	Tags	24.48
19	J. M. Linehan	Services	137.71
	O. B. Hess	Expenses	1.50
	Julius Huelisen	do	8.05
	E. N. Hutchinson	do	19.20
	W. H. Wray	Expenses	24.21
	Jno. F. Deadman	Services	117.00
	J. F. Ryder	do	168.50
	W. H. Wray	do	387.50
	Caroline Burnaby	do	40.00
	Jas. Law	do	200.00
	J. W. Higgins	Overalls, etc.	6.00
	A. M. Rothchilds & Co.	Oilcloth	3.00
	The Consumers Co.	Water	1.50
	A. P. Little	Blotters, etc.	4.55
	Stock Yards Paint Co.	Brooms, etc.	2.30
	Chicago Towel Supply Co.	Towel service	184.45
	Bay State Clean Towel Co.	do	6.25
	Chicago Telephone Co.	Service	43.75
	O. E. Dyson	Use horse, etc.	25.00
	S. W. Burt	do	25.00
	Jno. B. Sine	do	35.00
	Jno. C. Lorenzen	do	35.10
	Chas. Hacker	do	19.00
	Belt Railroad and Stock Yard Co.	Office rent	30.00
	C. Dederick	do	30.00
	Fifty Associates	do	90.00
	Gahan & Byrne	do	675.00
	Union Stock Yard and Transit Co.	do	375.00
	The Sioux City Stock Yard Co.	do	60.00
	Louisa Wells	do	51.09

## 208 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Jan. 19	Fred L. Stevens	Traveling expenses	\$31.25
	Adolph Eichhorn	do	91.40
	L. Enos Day	do	105.31
	M. Jones	do	118.87
	W. H. Hersey	do	71.58
	Geo. M. Dishorn	do	9.68
	Geo. C. Faville	do	4.25
	Nathan B. Smith	do	20.25
	E. N. Hutchinson	do	5.75
	W. D. Collyer	do	67.85
	Levi Wells	do	102.89
	W. L. Johnson	do	5.20
	Thos. A. Bray	do	8.50
	Albert N. Irwin	do	13.90
	J. F. Ryder	do	30.00
	W. H. Wray	do	6.92
21	C. Wardell Stiles	Expenses	3.15
	E. A. de Schweinitz	do	20.30
	Jno. R. Mohler	do	45.14
	D. E. Salmon	do	16.95
	Jas. B. Lambie	Screws	2.52
	W. M. Galt & Co	Oats, etc	616.65
	S. Kam, Sons & Co.	Thread	.90
	N. H. Shea	Soapine	.96
	E. Morrison Paper Co	Cardboard	1.25
	R. P. Clarke Co	Sheeting	1.60
	J. D. Frazee	Towel service	3.79
	Hugh Reilly	Glass	13.65
	E. G. Schafer & Co	Pipe	2.84
	Washington Gaslight Co.	Gas	49.30
	do	do	45.60
	Potomac Electric Power Co	Current	46.31
	Michele Persechino	Service	39.13
	Harry B. Musk	Lime	9.60
	do	do	7.85
	Coolidge Bros	Wood	7.00
	Patk. Cox	Cow	42.00
	Manchester & Hudson	Lime	6.00
	W. H. Jubb	Meals and lodging	15.75
	Conant & Co	Scythe, etc	2.20
	Delbert St. Clair	Services	2.00
	C. E. Prouty	Use horse	20.50
	Sumner Keith	Lime	8.05
	M. F. Rumarill	Services	2.00
	Chester Sprague & Co	Lime	5.00
	Wm. P. Baldwin	Services	7.00
	Harry F. Tilden	do	1.50
	Frank E. Spear	do	12.00
	C. T. Boston	do	6.00
	J. A. Bowman	do	3.00
	Jno. J. Forrest	Creoline	1.40
	M. Scarry	Lime	8.70
	Lewis Mitchell	Services	287.00
	S. E. Brigham	Cattle	203.00
	W. L. Pickard	do	604.24
	E. J. & C. B. Robbins	do	660.10
	Murray Brown	do	500.00
	W. A. Blodgett	Services	100.00
	W. B. Fay, treasurer	do	141.75
	B. F. Blaisdell	Cattle	448.00
	A. J. Connelly	do	513.10
	Edw. M. Farr	do	157.00
	Frank W. Adams	do	1,050.80
	do	Services	41.00
	Henry S. Draper	Cattle	2,221.50
22	Henry E. Pieper	Services	35.22
	Tooie A. Geddes	do	168.50
	F. W. Ketchum	Expenses	9.65
	Jos. B. Clancy	do	5.99
	Tooie A. Geddes	Traveling expenses	145.41
	Paul Bear Robe	Mare	15.00
	L. W. Barnum	do	15.00
	Little Old Woman	do	15.00
	Calico	do	12.50
	Michael F. Dirnberger	Use horse, etc	45.00
	E. J. Brooks & Co.	Seals	50.60
	B. E. Bayes	Corn	19.80
	American Tag Co	Tags	16.00
	East Buffalo Live Stock Exchange Co	Office rent	90.00
	Revere Rubber Co	Hose, etc	526.95

*Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.*

## BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Jan. 22	Andrew Biggi .....	Cattle	\$380.00
	Peter Coford .....	do	472.50
	Jno. Whalen .....	do	215.00
	Lewis D. Newton .....	do	894.00
	J. S. Henry .....	do	2,305.10
	R. F. Parker .....	do	2,786.00
	A. W. Cheney Express Co .....	Service	46.00
	Matthew Drummey .....	do	70.00
	Postal Telegraph Cable Co. ....	do	4.66
	Geo. E. Howard & Co. ....	Labels	560.00
	Leo. Baum .....	Photo reproductions	2.03
	J. D. Frazee .....	Towel service	3.73
	do .....	do	3.96
23	A. J. Smith .....	Traveling expenses	95.55
	Wm. E. Mowrer .....	do	26.92
	do .....	do	5.75
	Fredk. O. Pettey .....	do	4.00
	Lowel Clarke .....	do	8.50
	Louis A. Klein .....	do	18.65
	Louis Metsker .....	do	73.60
	Chas. A. Brown .....	do	6.48
	Clarence A. Clawson .....	do	24.40
	Wm. D. Jordan .....	do	86.45
	Dan McCuningham .....	do	59.85
	A. J. Smith .....	do	9.75
	Murray J. Myers .....	do	83.05
	Hervey T. Potter .....	do	6.00
	Murray J. Myers .....	do	20.00
	Jno. A. Bell .....	do	17.02
	H. Inez Temple .....	do	4.60
	E. T. Davison .....	do	89.25
	Chas. M. Day .....	do	22.10
	Chas. Cowie .....	do	6.80
	G. E. Patrick .....	do	9.36
	C. O. Durfee .....	do	7.50
	do .....	do	30.35
	Edwin Gowing, guardian .....	Cattle	290.50
	The Bell Telephone Co. ....	Telephone service	30.00
	Fowler Manufacturing Co .....	Towelservice	3.37
	Hervey T. Potter .....	Expenses	.20
	Albert J. Payne .....	do	15.78
	E. C. Schroeder .....	do	6.41
24	W. B. Moses & Sons .....	Desks	31.00
	Geo. F. Muth & Co .....	Oil	11.55
	Chas. R. Edmonston .....	Bucket, etc	3.43
	The J. C. Ergood Co. ....	Lye	1.76
	Lamb & Tilden .....	Stamps	14.00
	R. Carter Ballantyne .....	Inkstand, etc	19.42
	W. H. Butler Co .....	Sponge	7.50
	E. Morrison Paper Co .....	Labels, etc	40.90
	W. M. Galt & Co .....	Corn	242.50
	C. W. & R. M. Bowen Co .....	Repairing machine	30.00
	Thos. J. Turner .....	Expenses	14.76
	O. E. Dyson .....	do	17.32
	Geo. C. Faville .....	do	15.65
	Bernhard P. Wende .....	do	2.48
	Nathan K. Fegley .....	do	7.45
	The Missouri Pacific Rwy. Co. ....	Passenger transportation	42.75
	Atlantic, Knoxville and Northern Rwy. Co. ....	do	3.70
	Nashville, Chattanooga and St. Louis Rwy. Co. ....	do	5.20
	Boston & Maine R. R. Co. ....	do	9.00
	James Law .....	Traveling expenses	58.11
	J. Wm. Fink .....	do	156.00
	Jos. W. Parker .....	do	7.60
	Harry L. McDonald .....	do	22.20
	Geo. E. Totten .....	do	16.60
	Arch. H. Wallace .....	do	24.50
	David R. Hodges .....	do	42.80
	Arthur R. Glaisyer .....	do	8.00
	Walter E. Howe .....	do	47.25
	Bernhard P. Wende .....	do	2.65
	Thos. Castor .....	do	62.75
25	New York Telephone Co. ....	Service	27.55
	White Rabbit .....	Stallion	20.00
	Mrs. La Point .....	Mare	10.00
	Henry J. Biglow & Co. ....	Butter	2.53
	Ed. Livermont .....	Mare	15.00
	Geo. E. Howard & Co. ....	Labels	800.00

## 210 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Jan. 26	Lamb & Tilden	Pads	\$7.21
	W. M. Galt & Co.	Bran, etc.	234.15
	F. P. Shea	Calves	80.00
	do	Hogs	120.00
	J. P. Nawrath	Twine	19.47
	Burlington and Missouri River R. R.	Passenger transportation	3.30
	Pennsylvania Co.	do	17.50
	Chicago, Milwaukee and St. Paul Rwy. Co.	do	5.10
	Chicago and Great Western Rwy. Co.	do	6.50
	Illinois Central R. R. Co.	do	12.75
	do	do	7.25
	Chicago, Burlington and Quincy R. R. Co.	do	23.75
	New York Central and Hudson River R. R. Co.	do	24.90
	Waldo Zoller	Cattle	806.40
	O. A. Knowlton	do	661.50
	Geo. N. Dunn	do	329.00
	Jno. Mikkelsen	do	311.50
	Smith & Thayer	Pumps	113.34
	New England Telephone and Telegraph Co.	Moving telephone	43.06
	E. L. Lackey	Services	10.00
	Job Ashworth	Meals	10.50
	Robinson & Jones	Lime	7.70
	Clary Mowry	Meals	3.50
	Framingham Coal Co.	Lime	2.20
	D. E. Salmon	Expenses	108.55
	U. S. Houck	Traveling expenses	103.64
	Geo. F. Thompson	do	30.10
	W. S. Cass	do	62.76
	F. D. Ketchum	do	22.44
27	Wm. O'Mara	Services	30.00
	do	do	28.00
	Jos. B. Clancy	Expenses	18.00
	Albert Dean	do	7.59
	Louis K. Green	do	8.25
	Geo. S. Hickox	do	20.70
	do	Traveling expenses	81.95
	Jno. J. Hayes	do	33.75
	Jno. McBirney	do	83.50
	Clinton H. Bugbee	do	45.25
	David C. Hanawalt	do	30.00
	Thos. Redmond	do	12.40
	Howard D. Ebej	do	6.15
	Wilton F. Crewe	do	31.00
	Wm. G. Shaw	do	62.40
	Geo. C. Moser	do	37.50
	Ernest J. Foreman	do	27.55
	Peter I. Kershner	do	34.96
	Leslie J. Allan	do	37.15
	R. A. Ramsay	do	57.30
	Isaac W. O'Rourke	do	70.10
	Warren J. Fretz	do	37.55
	Louis K. Green	do	14.48
	A. D. Melvin	do	115.30
	Lewis L. Bullard	do	3.19
	W. L. West	do	96.71
	Patk. F. Tormey	Services	4.00
	E. C. Hibbard	Meals, etc	38.50
	L. H. Francis	do	28.00
	Moses A. Reed	Services	3.00
	E. MacDonald	Meals, etc	24.00
	C. F. Lynch	do	45.50
	Harry B. Musk	Lime	15.00
	J. B. Losaw	Services	18.60
	McManus Bros	Use horse, etc.	19.00
	Rutland R. R. Co.	Passenger transportation	4.40
	Michigan Southern R. R. Co.	do	26.90
	Jas. Rowland & Co.	Butter	9.60
	F. P. Shea	Cattle	120.00
	New England Telephone and Telegraph Co.	Service	52.50
	Union Stock Yard and Transit Co.	Coal	6.25
	Southern Rwy. Co.	Passenger transportation	16.00
	Pennsylvania R. R. Co.	do	24.50
	do	do	47.25
28	Jas. F. Hughes	Traveling expenses	5.35
	Robt. H. Treacy	do	48.15
	do	do	61.25
	Rice P. Steddom	do	39.95
	Don C. Ayer	do	6.34



Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Jan. 28	H. M. Rowe	Traveling expenses	\$48.80
	Rice P. Steddum	Expenses	4.86
	F. W. Ainsworth	do	14.55
	Wm. E. Pratt	Hog ringers	79.75
	American Tag Co	Tags	88.00
	Geo. P. Connor	Mare	15.00
	Perry Sickels	do	15.00
	Iron Crow	do	20.00
	Jno. L. Pingry	Cattle	1,052.80
29	The G. F. Blake Manufacturing Co	Services	41.15
	David Hiatt, jr	Pigs	52.50
	The American Distributing Co	Alcohol	23.61
	Capital Traction Co	Tickets	10.00
	Jas. S. Topham	Bags	7.75
	Wyckoff, Seamans & Benedict	Paper, etc	103.90
	C. C. Dearborn	Meals, etc	93.05
	do	do	8.45
	New England Brick Co	Wood	80.50
	W. H. Hutt	Services	50.00
	Benj. F. Day	Cattle	44.50
	Frank D. Barr	Meals, etc	52.25
	C. E. Marion	Cattle	108.50
	Jas. McFlynn	do	290.50
	Emory J. Whitney	do	340.90
	Massachusetts Reformatory	do	1,781.55
	Andrew Hyde	Traveling expenses	95.31
	Jas. M. Pickens	do	56.78
	M. E. Knowles	do	26.65
31	Geo. E. Howard & Co	Labels	800.00
	E. J. Brooks & Co	Seals	88.80
	The Friedenwald Co	Stamps	1,297.75
	Valley Paper Co	Paper	23.50
	Chadwick Copying Book Co	Books	44.40
	Marion Dorset et al	Salaries	5,373.78
Feb. 2	B. B. Bagby	Traveling expenses	119.06
	Jos. J. Rieman	Services	24.00
	Wm. J. Kennedy	do	100.00
	F. W. Bicknell	do	250.00
	F. Fitzpatrick	do	15.00
	Fredk. S. Converse	Cattle	2,047.50
	Orlando E. Patch	do	1,300.40
	Walter F. Baker	do	1,114.40
	Jas. Glennie	do	1,094.80
	Geo. E. Jones	do	996.90
	Geo. F. Walker	do	673.00
	Arthur C. H. Jones	do	683.00
3	Chas. V. Flagg	do	502.80
	J. W. Parker	do	440.10
	Andrew Peterson	do	336.70
	Anton Olsen	do	315.00
	Geo. W. Marshall	do	308.00
	Arthur W. Drew	do	235.20
	Franklin Rubber Co	Boots and coats	230.41
	E. & F. King & Co	Lime	128.40
	Robert Brennan	Cattle	109.20
	W. E. Williams	do	105.00
	Berry & Ferguson	Lime, etc	86.87
	Edw. A. Felton	Services	13.25
	New York and New Jersey Telephone Co	Service	32.20
	Jas. K. De Wolf	Mare	45.00
	T. C. Thornton	Pigs	12.00
	W. A. Barling	Mare	10.00
	M. R. Yowell	Pigs	28.00
	R. L. Graves	Mare	7.50
4	Jno. S. Buckley	Traveling expenses	3.30
	Levi Wells	Services	125.00
	W. D. Collyer	do	200.00
	M. W. Lang	do	125.00
	B. F. Van Valkenburg	do	150.00
	The Friedenwald Co	Certificates	800.00
	Chicago Car Seal Manufacturing Co	Seals	29.38
	Barber & Ross	Nails	7.75
	A. Wilson & Bros	Hauling coal	39.79
	A. W. Pope	Cows and goats	62.30
	Arthur W. Drew	Services	29.60
	Ridge Hill Farms	Cattle	4,780.30
	P. B. Howard	do	756.00
	M. T. Garland	do	104.70
	W. C. Boyce	do	388.50
5	J. Otis Jacobs	Traveling expenses	22.75

*Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.*

## BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Feb. 5	Allen A. Holcombe	Traveling expenses	\$49.64
	Warren Worcester	do	3.75
	Henry J. Washburn	do	106.92
	D. E. Salmon	Expenses	31.30
	J. J. Fitzgerald	Cattle	1,022.00
	Jen Mekelsen	do	500.50
	E. A. Dudley	do	488.50
	David A. B. Ayer	do	254.80
	E. W. Pope	do	129.50
	Henry H. Sprague	do	42.00
	Joseph Wedge	do	49.00
	H. A. McMaster	Lime	13.20
	Robt. Brennan	Services	6.60
	A. McDaniel	Pigs	52.00
	G. W. Ward	Services	120.60
	H. D. Mayne	do	103.30
	Wm. H. Mayne	do	77.50
	C. L. Morin	do	103.30
	Willis B. Lincoln	do	120.60
	Fredk. T. Dolan	do	120.60
	F. W. Hopkins	do	120.60
	Murray J. Myers	do	103.30
	Jos. M. Turner	do	77.50
	Geo. S. Hickox	do	120.60
	Jno. McBirney	do	137.80
	Matt. S. Lantz	do	120.60
	Nathl. B. Smith	do	120.60
	Thos. White	do	120.60
	Warner Worcester	do	120.60
	R. A. Ramsay	do	120.60
	J. Otis Jacobs	do	120.60
	N. L. Townsend	do	120.60
	Robt. H. Treacy	do	120.60
	H. M. Rowe	do	120.60
	Isaac W. O'Rourke	do	120.60
	David C. Hanawalt	do	120.60
	A. J. Pistor	do	120.60
	Walter E. Howe	do	120.60
	Jno. J. Hayes	do	120.60
	H. J. Hammond	do	120.60
	Frank C. Eells	do	120.60
	Lowell Clarke	do	120.60
	Arthur R. Gleisyer	do	120.60
	Roy N. Drake	do	120.60
	Clinton H. Bugbee	do	120.60
	Geo. A. Bond	do	120.60
	A. J. Smith	do	77.50
	Fred O. Pettey	do	77.50
	Howard D. Ebey	do	77.50
	W. R. Dennis	do	77.50
	David R. Hodges	do	77.50
	Wm. Pflaeging	do	77.50
	Albert Dean et al	Salaries	637.20
	Thos. Castor	Services	129.20
	Leslie J. Allen	do	129.20
	Geo. E. Totten	do	120.60
	Geo. W. Browning	do	120.60
	Arch. H. Wallace	do	120.60
	Louis Metsker	do	120.60
	Harry B. Adair	do	120.60
	Peter I. Kershner	do	120.60
	Louis A. Klein	do	120.60
	Thos. A. Bray	do	120.60
	Wm. G. Shaw	do	120.60
	Clarence A. Clawson	do	103.30
	Western L. Johnson	do	103.30
	Ernest J. Foreman	do	103.30
	Morey A. Sappington	do	103.30
	Wm. D. Jordan	do	103.30
	Dan McCuningham	do	108.30
	Geo. C. Moser	do	103.30
	Harry L. McDonald	do	77.50
	Chas. N. Brown	do	77.50
	Allen A. Holcombe	do	129.20
	Boyd Baldwin et al	Salaries	657.90
	Chas. A. Schaufler et al	do	931.80
	W. H. Rose et al	do	1,176.30
	H. A. Hedrick et al	do	489.10
	Jos. M. Good et al	do	182.60
	Edwd. P. Dowd et al	do	182.60

*Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.*

## BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Feb. 6	Julius Huelsen et al. ....	Salaries	867.20
	A. E. Behnke et al. ....	do	1,333.20
	Bernhard P. Wende et al. ....	do	1,753.40
	Saml. E. Bennett et al. ....	do	2,285.74
	Harry N. Waller et al. ....	do	2,809.57
	Jno. Forbes et al. ....	do	3,160.27
7	W. B. Niles et al. ....	do	480.00
	Geo. W. Pope et al. ....	do	354.80
	Geo. C. Faville et al. ....	do	301.40
	Louis K. Green et al. ....	do	285.90
	Nathan K. Fegley et al. ....	do	230.10
	Joshua Miller et al. ....	do	260.10
	F. L. De Wolf et al. ....	do	238.60
	W. P. Ellenberger et al. ....	do	198.10
	Wesley N. Neil et al. ....	do	182.60
	W. J. Murphy et al. ....	do	182.60
	Jas. S. Kelly et al. ....	do	182.60
	Richd. J. Blanche et al. ....	do	182.60
	Fredk. Bragington et al. ....	do	182.60
	W. S. Cass et al. ....	do	182.60
	Edw. P. Schaffter et al. ....	do	631.85
	Lewis R. Baker et al. ....	do	1,047.10
	Wm. Thompson et al. ....	do	1,059.90
	W. H. Gibbs et al. ....	do	165.30
	Trojan A. Shipley et al. ....	do	327.60
	Thos. J. Turner et al. ....	do	852.50
	Jas. J. Brougham et al. ....	do	1,474.00
	Robt. Darling et al. ....	do	198.10
	F. W. Huntingham et al. ....	do	155.30
	Geo. Ditewig et al. ....	do	275.60
	Fredk. W. Ainsworth et al. ....	do	365.20
	Jas. Johnson et al. ....	do	2,087.40
	W. S. Cass	Use horse and buggy	34.00
	Woodward & Lothrop	Towels	55.25
	do	Desk	15.75
	do	Maps	4.00
	The Oliver Typewriter Co.	Typewriter	75.00
	Clark & Davenport	Linoleum	34.20
	M. O. Anderson	Expenses	.45
	do	Services	120.60
	H. T. Potter	do	6.00
	Jno. A. Bell	do	24.00
	D. Cumming	do	80.00
	Chas. H. Zink	do	137.80
	Frank H. Harlinger	do	62.00
	Herman V. Persells	do	62.00
	Geo. W. Butler	do	120.60
	Geo. E. Wager	do	62.00
	Geo. M. Dishong	do	62.00
	Frank L. Shipp	do	62.00
	Ernest L. Valgenau	do	120.60
	Chas. C. McKeon	do	14.00
	Albert Hassall	Traveling expenses	128.12
	Geo. W. Pope	do	1.26
	R. W. Hickman	do	3.70
9	A. B. Morse	Expenses	.75
	United States Express Co.	Transportation	18.17
	The Geo. W. Knox Express Co.	do	.60
	E. G. Schafer & Co.	Pipe	4.61
	Rudolph West & Co.	Bolts, etc.	43.18
	W. B. Moses & Sons	Chair	3.00
	Church & Stephenson	Lumber	69.00
	Geo. E. Howard & Co.	Labels	800.00
	Thos. Somerville & Sons	Brass unions	4.85
	do	do	2.32
	Z. D. Gilman	Sulphate ether	41.15
	Wm. R. Fleming	Services	103.30
	Jas. W. Davis	do	77.50
	Wm. F. Kutzer	do	2.00
	Chas. Cowie	do	104.00
	Frank D. Ketchum et al.	Salaries	1,085.00
	Jos. B. Clancy et al.	do	2,967.07
	J. C. Milnes et al.	do	638.90
	A. J. Payne et al.	do	1,017.80
	Don C. Ayer et al.	do	3,987.90
	Arthur B. Morse et al.	do	182.60
	Chas. Cowie	Traveling expenses	13.15
	D. E. Salmon	do	186.78
	Jas. M. Pickens	do	64.59
10	Jno. W. Burton et al.	Salaries	2,109.50

214 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Feb. 10	Chas. Keane et al	Salaries	\$430.60
	Niels C. Sorensen et al	do	1,860.70
	Richd. W. Tuck et al	do	396.26
	O. E. Dyson et al	do	9,468.08
11	A. R. Wake et al	do	1,439.50
	A. G. G. Richardson et al	do	8,100.44
	J. J. Fitzpatrick et al	do	1,731.75
	American Ice Co	Ice	23.36
12	Warren J. Fretz	Traveling expenses	65.60
	H. H. Collins	do	6.50
	H. J. Hammond	do	65.15
	Wm. F. Pflaeging	do	16.25
	Arthur C. Hart	do	4.09
	F. L. Russell	do	142.20
	C. H. Zink	do	13.25
	S. R. Burch	do	19.80
	Murray J. Myers	do	29.75
	Thos. Coyle	do	56.67
	Harry Q. Thompson	do	31.49
	do	do	92.66
	Saml. E. Bennett	do	31.44
	F. M. Perry	do	13.87
	J. Wm. Fink	do	66.26
	A. G. G. Richardson	Expenses	12.80
	Thos. J. Turner	do	9.58
	C. H. Zink	do	3.00
	W. B. Niles	do	25.50
	Boyd Baldwin	do	5.12
	Saml. E. Bennett	Use horse, etc	38.00
	Wyckoff, Seamans & Benedict	Adjusting typewriter	13.50
	Adams Express Co.	Transportation	24.59
14	Henry J. Armsby et al	Salaries	257.48
	Walter J. Stewart et al	do	6,143.58
	Geo. S. Baker et al	do	432.30
	O. B. Hess et al	do	197.60
	E. N. Hutchinson et al	do	481.90
	Clarence Loveberry et al	do	411.40
	Jas. Fleming et al	do	842.20
	Harry B. Paxson et al	do	667.00
	E. T. Davison et al	do	413.90
	Geo. N. Whitaker	Services	64.00
	Edw. A. McDonald	do	232.00
	W. E. Hill	do	103.30
	J. E. Troughton	do	38.00
	Chas. L. Reinohl	do	26.00
	Harvey F. Hume	do	62.00
	Benj. J. Glavin	do	58.00
	Jas. J. Rieman	do	62.00
	Patk. Dorsey	do	15.00
	Jno. F. Fee	do	22.50
	U. G. Houck	do	137.80
	P. A. Sprague	Meals	29.40
	Benj. Derby	Cattle	1,031.80
	C. M. Beldon	do	595.00
	L. W. Perkins	do	516.80
	N. L. Martin	do	1,328.70
	Jas. Mattie	do	517.30
	C. W. Drew	do	460.60
	R. F. Perkins	do	318.50
	Jas. A. Cullen	Team	104.00
	Jacob Shapiro	Cow	17.50
	Jas. B. Wood & Sons Co	Lime	19.16
	do	do	3.30
	Geo. W. Toomey	Team	22.00
	Jno. La Pierre	Meals	4.20
	Jno. J. Forrest	Creolin	1.40
	W. F. Loud	Services	1.50
	Jas. J. MacGregor	Meals, etc	48.72
	Ames Plow Co	Shovels	56.75
	Eastern Drug Co	Carbolic acid, etc	54.77
	Barker Lumber Co	Lime	4.20
	Campbell, Morrell & Co.	do	8.45
	Passaic Feed Co	Oats, etc	43.53
	W. H. Gould	Mare	15.00
	Iron White Man	do	15.00
	Flying Horse	do	15.00
	Richard Good Soldier	do	15.00
	Whirlwind Man	do	30.00
	Lost Bear	do	35.00
	Jno. B. Sine	Stallion	35.00
		Use horse, etc	35.00

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## BUREAU OF ANIMAL INDUSTRY. SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Feb. 14	Chas. Hacker	Use horse, etc.	\$19.00
	Chas. Keane	do	25.00
	F. D. Kelchum	do	25.00
	Robt. Darling	do	25.00
	H. A. Hedrick	do	15.00
	A. McDaniel	Pigs	48.00
	St. Louis National Stock Yards	Office rent	50.00
	F. Auerbach & Bro.	do	30.00
	New York Telephone Co.	do	19.50
	Jas. J. Brougham	Use horse, etc.	40.00
	Albert E. Behnke	do	35.00
	Jas. W. Davis	do	18.00
	Don C. Ayer	do	15.00
	Chicago Car Seal and Manufacturing Co	Seals	47.80
	Russell G. Merrill	Use horse, etc.	15.00
	Wm. Lochte	Shoeing horse, etc.	12.00
	Clarence A. Clawson	Traveling expenses	11.75
	David R. Hodges	do	13.50
	Edw. A. McDonald	do	100.35
	C. L. Morin	do	4.45
	G. W. Ward	do	6.00
	Chas. A. Brown	do	12.40
	E. L. Valgenau	do	13.90
	Geo. S. Hickox	do	84.30
	L. A. Rogers	do	14.30
	U. G. Houck	do	153.23
	Frank L. Shipp	do	20.23
	W. D. Collyer	do	52.02
	A. J. Richard & Son	Lime	5.50
16	M. W. Lang	Traveling expenses	80.10
	Levi Wells	do	115.18
	Jos. W. Parker	do	10.35
	Geo. W. Browning	do	1.25
	Albert Dean	do	10.50
	Ernest N. Hutchinson	do	2.85
	Chas. M. Day	do	15.90
	Geo. S. Baker	do	5.30
	Henry R. McNally	do	6.50
	W. P. Ellenberger	do	3.25
	F. O. Pettey	do	30.90
	Andrew Hyde	do	47.68
	Adolph Eichhorn	do	96.15
	H. S. Locke & Son	Lime	31.80
	Dunn, Green & Co	do	3.90
	J. O'Leary	Services	9.00
	Jno. G. Long	Photo	1.75
	J. Wesley Dolbey	Mare	5.00
	Wm. Krafft	Coverslip	5.20
	Jno. Underwood & Co	Paper	9.40
	The Geo. W. Knox Express Co.	Transportation	.96
	Leo. Baum	Photos	1.05
	Chas. R. Edmonston	Tubes	12.00
	Geo. E. Howard & Co.	Labels	800.00
	W. G. Simonson	Mare	20.00
	G. R. Thatcher	Pigs	24.50
	C. H. Zink	Expenses	3.40
	W. H. Rose	do	18.85
	S. E. Bennett	do	5.60
	Geo. W. Pope	do	4.90
	E. N. Hutchinson	do	17.25
	E. A. de Schweinitz	do	18.78
	Geo. S. Hickox	do	5.60
17	Dennison Manufacturing Co	Tags	17.00
	The American News Co.	Clips	7.80
	Wolf Bros	Envelopes	37.25
	Eimer & Amend	Clamps, etc.	39.35
18	C. O. Durfee	Traveling expenses	112.18
	Albert N. Irwin	do	135.15
	L. Enos Day	do	58.97
	Rice P. Steddom	do	137.66
	L. Enos Day	do	32.13
	Chas. B. Hutchinson	do	74.35
	Andrew Hyde	do	27.71
	Frank H. Burleigh	do	16.33
	M. Imes	do	118.63
	Jno. V. Laddey	do	109.27
	Wm. L. West	do	100.27
	H. A. Christman	do	170.45
	Fredk. L. Stevens	do	38.46
	N. L. Townsend	do	70.40

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1903, Feb. 18	Wm. G. Shaw	Traveling expenses	\$30.30
	H. M. Rowe	do	31.85
	Louis A. Klein	do	39.50
	Lesley J. Allen	do	24.40
	Geo. E. Totten	do	37.55
	Arch H. Wallace	do	20.25
	Thos. Castor	do	39.65
	Henry E. Alvord	do	128.95
	H. D. Mayne	do	20.45
	E. T. Davison	do	76.65
	Clinton H. Bugbee	do	76.50
	Lowell Clarke	do	6.25
	Walter E. Howe	do	7.75
	Robt. T. Treacy	do	39.65
	Jno. J. Hayes	do	24.65
	Harry L. McDonald	do	18.10
	Louis Metsker	do	95.30
	M. A. Sappington	do	7.70
	Geo. C. Moser	do	50.36
	Allan A. Holcombe	Expenses	1.35
	Julius Huelsen	do	7.80
	Union Stock Yards and Transit Co.	Coal	24.00
	A. P. Little	Ink, etc.	4.45
	S. W. Burt	Use horse, etc.	25.00
	W. A. Willard	Services	33.33
	Fuller Bates	do	40.00
	Chr. Hansen's Laboratory	Ferment	.75
	Jno. C. Lorenzen	Use horse, etc.	35.10
	Stock Yards Paint Co.	Tags and knives	4.30
	O. E. Dyson	Use horse	25.00
	New York, New Haven and Hartford R. R. Co.	Passenger transportation	36.75
	Nashville, Chattanooga and St. Louis Rwy. Co.	do	8.10
	Boston and Maine R. R. Co.	Transportation	.67
	Union Pacific R. R. Co.	do	1.43
	Baltimore and Ohio R. R. Co.	do	.45
	do	do	2.31
	Chicago, Indianapolis and Louisville Rwy. Co.	do	.25
	Merchants and Miners' Transportation Co.	do	5.65
	Stephen C. Dooley	do	1.25
	New York, New Haven and Hartford R. R. Co.	do	.42
	Illinois Central R. R. Co.	do	3.93
	Chicago and Alton R. R. Co.	do	.34
	The Atchison, Topeka and Santa Fe R. R. Co.	do	.70
19	Burlington Route, Missouri Lines	do	2.86
	J. F. Ryder	Traveling expenses	30.00
	do	Services	172.00
	J. P. Nawrath	Twine	6.51
	Pennsylvania R. R. Co.	Passenger transportation	100.65
	Atlanta, Knoxville and Northern Rwy. Co.	do	3.70
	The Missouri Pacific Rwy. Co.	do	11.60
	Chicago and Northwestern Rwy. Co.	do	38.81
	Southern Rwy. Co.	do	63.97
	do	do	50.95
	The Chicago, Burlington and Quincy R. R. Co.	do	3.95
	The Chesapeake and Ohio R. R. Co.	do	14.00
	Terre Haute and Indianapolis R. R. Co.	do	26.80
	Pennsylvania Co.	do	35.00
	Chicago, St. Paul, Minneapolis and Omaha Rwy. Co.	do	6.30
	Central R. R. Co. of New Jersey	do	18.00
	Norfolk and Western Rwy. Co.	do	5.30
	Chicago, Milwaukee and St. Paul Rwy. Co.	do	25.05
	Lehigh Valley R. R. Co.	do	9.35
20	J. F. Shea	Hogs	120.00
	Geo. E. Howard & Co.	Labels	1,040.00
	Chicago Car Seal Manufacturing Co.	Seals	100.40
	W. D. Jordan	Traveling expenses	49.42
	Patk. H. Mullooney	do	62.03
	F. W. Bicknell	do	314.97
	Jennie M. Shufeldt	Services	25.00
	Veturia E. Boyd	do	28.33
	Margret Enright	do	10.00
	Laura D. Burke	do	13.33
	G. S. Robinson	Meals, etc.	12.00

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Feb. 20	J. B. Wood & Son Co	Lime	\$3.45
21	W. H. Wray	Services	387.50
	Caroline Burnaby	do	40.00
	Toolie A. Geddes	do	172.20
	F. L. Russell	do	168.00
	Ernest Betz	Incubator	90.00
	F. L. Russell	Traveling expenses	96.30
	L. R. Baker	do	3.30
	W. L. Johnson	do	10.50
	W. H. Wray	do	12.20
	Toolie A. Geddes	do	194.74
24	Henry J. Washburn	do	82.98
	C. G. Robinson	Mare	25.00
	Jos. Hiatt, sr	Pigs	12.00
	Half Rope	Mare	17.00
	H. Crow	do	15.00
	S. A. De Freese	Corn	8.00
	Jas. M. Lovelady	Pigs	10.00
	Wyckoff, Seaman & Benedict	Typewriter	92.25
	Geo. E. Howard & Co	Boxes	200.00
	E. C. Hibbard	Meals, etc	203.00
	Alvah G. Wheeler	Cattle	931.00
	City of Marlborough	Services	139.21
	J. Cushing & Co	Lime	13.20
	Aaron Aldrich	Wood	4.00
	Maggie E. Stiles	Meals	8.25
	Chas. V. Willoughby	Services	8.00
	Lewis Mayo	do	14.00
	Spramotor Co	Pump, etc	29.13
	F. H. Donnelly	Meals, etc	14.00
	Dennis J. Dewire	Services	35.00
	A. A. Goodell	Wood, etc	67.20
	Clarence Moore	Services	37.20
	A. Bailey	do	3.50
	G. A. Boynton	do	98.80
	C. B. Robbins	do	25.00
	Jno. Harris	do	78.25
	A. M. Teele	do	60.00
	N. Ward Co.	do	55.00
	A. Bailey	Meals, etc	12.00
	Jas. W. Gould	Wood	19.80
	Chas. T. Holt	do	57.00
	Geo. E. Jones	Hogs	22.40
	Jas. E. McGovern	Services	5.00
	Wm. H. Morgridge	do	9.00
	Jno. Ford	do	73.00
	Nellie Cull	Lodging	9.00
	Jennie Hager	Meals, etc	50.00
	J. A. Murray	Lodging	9.00
	C. H. Spring	Lime	15.00
	D. J. Cooney	Services	45.00
	Alfred Archer	do	28.00
	Wm. Devall	do	14.00
	Jno. A. Gould	Wood	21.95
	Arthur Jones	Meals, etc	68.50
	Margaret Engel	do	38.50
	Coolidge Bros.	Lime	5.50
	J. B. Wood & Son Co	do	3.45
	D. E. Salmon	Expenses	39.71
	do	do	8.00
	E. T. Davison	do	12.06
	Wm. A. Wade	do	48.50
	Fredk. W. Ainsworth	do	4.85
	D. E. Salmon	do	81.30
	J. B. Clancy	do	1.25
	Boyd Baldwin	Traveling expenses	10.12
	Jno. McBirney	do	33.00
	F. W. Hopkins	do	28.57
	Wm. G. Shaw	do	18.40
	Isaac W. O'Rourke	do	27.40
	Warner Worcester	do	74.24
	Allen A. Holcombe	do	40.13
	Nathl. B. Smith	do	28.75
	A. D. Melvin	do	82.05
	W. F. Jones	do	7.50
	R. A. Ramsay	do	34.75
	R. W. Hickman	do	3.75
	J. H. Brigham	do	11.55
	Hulbert Young	do	100.95
	Walter H. Hersey	do	66.05

## 218 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

*Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.*

## BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Feb. 24	Jno. B. Sine	Traveling expenses	\$106.04
	Geo. M. Dishong	do	22.57
	Chas. F. Flocken	do	200.40
25	Lewis L. Bullard	do	6.77
	J. Otis Jacobs	do	94.10
	Harry H. Dell	Services	63.33
	Geo. M. Ruffin	do	21.43
	Jas. C. Cowgill, administrator	do	6.00
	Lenz & Lassar	Forceps	3.00
	Forsberg & Murray	Boiler	445.00
	Jas. B. Lambie	Shovels	12.00
	do	Tubing	.90
	Chicago Car Seal Manufacturing Co	Presses	3.60
	The American News Co	Clips	22.92
	P. A. Sprague	Meals	26.95
	Dunn, Green & Co	Lime	5.20
	Thos. E. Wilber	Meals, etc.	122.50
	Almond Bailey	Services	24.75
	E. E. Mills	Meals, etc.	100.00
	Jas. H. Ludhan	Services	1.50
	M. O' Mahoney	do	180.50
	E. J. Roberts	Meals, etc.	203.20
26	E. C. Schroeder	Expenses	7.80
	Ernest J. Foreman	Traveling expenses	47.85
	Henry J. Washburn	do	70.92
	Horace H. Collins	do	9.75
	Eberhard Faber	Bands	41.76
	C. H. Hampton	Pigs	20.00
	Baker Furniture Co.	Desk	20.00
	Elias Antrim	Pigs	30.00
	E. P. Curtis	do	10.00
	Electro Tint Engraving Co. (Incorporated)	Illustrations	460.00
	Wyckoff, Seamans & Benedict	Repairing typewriter	16.50
	Geo. E. Howard & Co	Labels	500.00
	D. Frank Parker	Paper	58.47
	Jas. A. Cullen	Services	52.00
	B. F. Gifford	do	28.50
	John J. Busch	Meats, etc.	35.50
	Chas. L. De Normandie	Cattle	484.90
	Medfield Insane Asylum	do	3,547.25
28	Marion Dorset et al	Salaries	5,032.65
Mar. 2	F. W. Bicknell	Service	250.00
	W. D. Collyer	do	200.00
	B. F. Van Valkenburg	do	150.00
	Levi Wells	do	125.00
	M. W. Lang	do	125.00
3	Distribution	Mare	16.00
	Edison Electric Illumination Co.	Electric current	9.85
	Chas. Huburger	Gasoline	31.20
	A. J. Silcock	Mare	20.00
	W. C. Garrett	do	40.00
	Running Hawk	do	15.00
	Thos. Tyon	do	40.00
	H. M. Brindley	do	20.00
	J. F. Turner	do	20.00
	Chicago Car Seal Manufacturing Co	Car seals	125.50
	The Friedenwald Co	Stamps	936.70
	E. J. Brooks & Co	Seal	64.30
	P. N. McNatt	Hog	17.00
	do	Pigs	16.00
	The Chesapeake and Potomac Telephone Co	Service	98.75
	do	do	98.75
	Coolidge Bros	Lime	1.10
	Mansfield Lumber Co.	do	5.00
	Herbert Harris	do	25.30
	Herman Comey	Chickens	55.50
	Franklin Rubber Co	Rubber hats	98.37
	D. H. Livingston	Services	140.00
	Danl. W. Latham	Cattle	147.00
	Hamlet Wight	do	464.50
	D. E. Salmon	Traveling expenses	46.90
4	Bausch & Lomb Optical Co.	Gas burners, etc.	12.75
	Emil Greiner	Thermometers	10.60
	United States Envelope Co	Envelopes	41.40
	The Grove Lime and Coal Co.	Lime	6.80
	L. G. Orndorff	Wagon	39.00
	F. W. Huntington et al	Salaries	139.40
	H. A. Hedrick et al	do	441.80
	Geo. W. Pope et al	do	264.40
	Edw. P. Dowd et al	do	164.80



Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Mar. 4	Julius Huelsen et al.	Salaries	\$519.30
	W. P. Ellenberger et al.	do	178.80
	Saml. E. Bennett et al.	do	2,417.05
	Murray J. Myers	Services	93.40
	Fredk. T. Dolan	do	108.80
	F. W. Hopkins	do	108.80
	Willis B. Lincoln	do	108.80
	Jas. M. Turner	do	70.00
	H. D. Mayne	do	93.40
5	Edwd. S. Schmid	White mice	2.25
	Hugh Reilly	Lumber	4.00
	do	Gasoline	1.34
	do	Turpentine	.50
	Potomac Electric Power Co.	Current	44.88
	Geo. E. Howard & Co.	Labels	800.00
	Jno. Forbes et al.	Salaries	2,855.80
	Albert E. Behnke et al.	do	1,200.27
	Jas. Johnston et al.	do	1,776.89
	F. L. De Wolf et al.	do	220.80
	W. H. Rose et al.	do	1,062.40
	Boyd Baldwin	Expenses	4.92
	A. A. Holcombe	Services	116.60
	D. Cumming	do	50.00
	Geo. W. Butler	do	108.80
	Wm. H. Wade	do	70.00
	Boyd Baldwin et al.	Salaries	537.47
	A. J. Payne et al.	do	919.40
	Lewis R. Baker et al.	do	945.80
	Chas. A. Schaffter et al.	do	818.40
	Edwd. P. Schaffter et al.	do	571.26
	Nathan K. Fegley et al.	do	234.80
	Richard J. Blanche et al.	do	164.80
	Wesley N. Neil et al.	do	164.80
	Geo. Ditewig et al.	do	248.80
	Frederick Braginton et al.	do	164.80
	J. S. Kelley et al.	do	164.80
	Geo. C. Faville et al.	do	272.20
6	J. B. Clancy et al.	do	2,779.20
	F. W. Ainsworth et al.	do	518.20
	W. J. Murphy et al.	do	164.80
	W. B. Niles et al.	do	421.00
	Henry P. Armsby et al.	do	261.00
	Jos. M. Good et al.	do	164.80
	R. J. Cranton et al.	do	691.50
	Louis K. Green et al.	do	258.20
	Jas. J. Brougham et al.	do	1,332.00
	Bernhard P. Wende et al.	do	1,692.00
	J. B. Clancy	Services	8.65
	Jas. Irwin	do	77.80
	H. T. Potter	do	10.00
	G. W. Ward	do	108.80
	Chas. H. Zink	do	124.40
	Herbert B. Chaney	do	108.80
	Wm. F. Jones	do	93.40
	Frank H. Herlinger	do	56.00
	Herman V. Persells	do	56.00
	Ernest L. Volgenau	do	23.33
	Harry N. Waller et al.	Salaries	2,599.00
	Harry F. Hume	Services	56.00
7	Leslie J. Allen	do	116.60
	Thos. Castor	do	116.60
	H. B. Adair	do	116.60
	Peter I. Kershner	do	108.80
	Clarence A. Clawson	do	108.80
	Louis Metsker	do	108.80
	Thos. A. Bray	do	108.80
	Geo. E. Totten	do	108.80
	Wm. G. Shaw	do	108.80
	A. H. Wallace	do	108.80
	Geo. W. Browning	do	108.80
	Louis A. Klein	do	108.80
	Ernest J. Foreman	do	101.11
	Morey A. Sappington	do	93.40
	Geo. C. Moser	do	93.40
	W. L. Johnson	do	93.40
	Dan McCuningham	do	93.40
	Wm. D. Jordan	do	93.40
	Harry L. McDonald	do	70.00
	Chas. A. Brown	do	70.00
	A. G. G. Richardson et al.	Salaries	7,117.60

## 220 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued

Date.	Name.	Nature of payment.	Total.
1903.			
Mar. 7	Albert Dean et al	Salaries	\$669.00
9	Chas. Cowie	Services	112.00
	Geo. S. Hickox	do	108.80
	Jno. McBirney	do	124.40
	Roy N. Drake	do	108.80
	Clinton H. Bugbee	do	108.80
	Frank C. Eells	do	108.80
	R. A. Ramsay	do	108.80
	Isaac W. O'Rourke	do	108.80
	David C. Hanawalt	do	108.80
	Arthur A. Glaisyer	do	108.80
	Nathl. B. Smith	do	108.80
	A. J. Pistor	do	108.80
	J. Otis Jacobs	do	108.80
	W. S. Cass	do	108.80
	Lowell Clarke	do	108.80
	Walter E. Howe	do	108.80
	Robt. H. Treacy	do	108.80
	Thos. White	do	108.80
	H. M. Rowe	do	108.80
	N. L. Townsend	do	108.80
	John J. Hayes	do	108.80
	H. J. Hammond	do	108.80
	Matthias S. Lantz	do	108.80
	A. J. Smith	do	70.00
	Wm. Pflaeging	do	70.00
	Howard D. Ebey	do	70.00
	F. O. Pettey	do	70.00
	W. R. Dennis	do	70.00
	Danl. R. Hodges	do	70.00
	Russell G. Merrill	do	56.00
	W. S. Cass	Traveling expenses	27.05
	Harry D. Paxon et al	Salaries	775.07
	Levi P. Beechy et al	do	1,074.70
	Jas. J. Brougham	Use horse, etc	40.00
	Russell G. Merrill	do	15.00
	The Fyricide Manufacturing Co	Extinguishers	162.00
	W. S. Cass	Use horse, etc	34.00
	Thos. James	Brood sows	129.50
	Chas. Hubinger	Files, etc	8.01
	Saml. E. Bennett	Use horse, etc	38.00
	Paine Furniture Co	Chair, etc	16.00
	Sarah E. Wheeler	Cow	52.50
	F. Knight & Son	Service	25.00
	Geo. Minton	Tool chest, etc	92.35
	Burditt & Williams Co	Hammer, etc	6.32
	M. Goldman	Cow	38.50
	Wm. Reed & Sons	Oil, etc	12.87
	E. & F. King & Co	Lime	217.32
	Abijah G. Jones	Cattle	436.55
	W. C. Robbins	do	1,261.60
10	O. E. Dyson et al	Salaries	8,735.22
	Walter J. Stewart et al	do	5,512.19
	Jas. Fleming et al	do	868.60
11	W. R. Fleming	Services	93.40
	W. J. Kennedy	do	100.00
	Jas. W. Davis	do	70.00
	American Ice Co	Ice	21.60
	Z. D. Gilman	Glasses	18.32
	The Maurice Joyce Engraving Co	Engravings	.50
	A. Wilson & Bro	Services	18.75
	National Electrical Supply Co	Rubber	1.25
	F. D. Ketchum	Use horse, etc	25.00
	Thos. J. Turner	Expenses	5.92
	M. O. Anderson et al	Salaries	162.80
	J. C. Milnes et al	do	577.20
	Don C. Ayer et al	do	3,444.80
	W. H. Gibbs et al	do	149.40
	Joshua Miller et al	do	234.80
	E. N. Hutchinson et al	do	354.20
	Clarence Loveberry et al	do	370.20
	Frank D. Ketchum et al	do	976.20
	Jno. W. Burton et al	do	1,898.00
	Thos. J. Turner et al	do	770.00
12	Chas. Keane et al	do	388.80
	Geo. S. Baker et al	do	387.40
	Neils C. Sorensen et al	do	1,777.40
	Arthur B. Morse et al	do	164.80
	Richd. W. Tuck et al	do	349.12
	Robt. Darling et al	do	178.80

*Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.*

## BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name,	Nature of payment.	Total.
1903.			
Mar. 12	O. B. Hess et al.	Salaries	\$180.40
	Trajan Shipley et al.	do	296.80
	Wm. Thompson et al.	do	894.70
	E. T. Davidson et al.	do	367.20
	F. M. Perry	Services	108.80
	Hannah Scanlan	do	25.00
	W. E. Hill	do	93.40
	F. L. Russell	do	56.00
	Geo. A. Bond	do	108.80
	Warren Worcester	do	108.80
	J. J. Rieman	do	56.00
	Jno. Dufeck	do	10.00
	Jno. E. Bell	do	64.00
	Rice P. Steddom	do	137.80
	do	do	124.40
	U. G. Houck	do	124.40
	Benj. J. Glavin	do	56.00
	Western Union Telegraph Co	Service	2.31
	do	do	15.35
	Frank W. Adams	Cattle	530.00
	do	do	40.00
	E. B. Leland	Services	47.50
	Little Finger	Mare	15.00
	Anna Bighead	do	8.00
	Crow Eagle	do	15.00
	No Two Horns	do	12.00
	Kills Enemy	do	20.00
	C. F. Long	do	15.00
	Ed. Willson	do	45.00
	Back	do	17.00
	Red Hair	do	15.00
	Chas. Keane	Use horse, etc.	25.00
	Dearly	Mare	15.00
	Jno. H. Brown	do	15.00
	F. Auerbach Bros	Office rent	30.00
	Don C. Ayer	Use horse, etc.	15.00
	Jas. W. Davis	do	18.00
	St. Louis National Stock Yards	Office rent	50.00
14	W. H. Wray	Services	350.00
	Caroline Burnaby	do	40.00
	Jno. C. Schock	do	56.00
	Saml. E. Bennett	do	4.00
	E. N. Hutchinson	Expenses	16.35
	Geo. S. Baker	do	4.00
	W. H. Wray	do	4.97
	W. H. Rose	do	10.45
	A. G. G. Richardson	do	9.45
	Julius Huelson	do	7.10
	Allen A. Holcombe	do	1.50
	Keasbey & Mattison Co.	Services	26.00
	Wm. Lochte	Shoeing horses	7.07
	Wyckoff, Seamans & Benedict	Repairing typewriters	23.50
	Church & Stephenson	Lumber	293.83
	W. M. Galt & Co.	Corn	246.15
	R. L. Cooper	Use horse, etc.	50.00
	Geo. E. Howard	Labels	1,040.00
	United States Envelope Co.	Envelopes	109.50
	Wm. E. Pratt	Hog ringers	10.65
	Wm. Krafft	Canada balsam	1.57
	Pullman Automatic Ventilator Co.	Ventilators	10.00
	Dennison Manufacturing Co.	Tags	2.72
	Thos. James	Broad sows	98.00
	B. F. Quimby	Cattle	38.50
	Herman Carney	do	1,179.50
	Jno. B. Sine	Traveling expenses	80.88
	Samuel E. Bennett	do	20.17
	Chas. B. Hutchinson	do	43.75
	Alex. E. Wight	do	56.89
	Walter H. Hersey	do	59.34
	Thos. Coyle	do	53.45
	E. N. Hutchinson	do	11.50
	Geo. S. Baker	do	5.50
	Albert E. Behnke	do	8.20
	Geo. C. Moser	do	33.60
	Morey A. Sappington	do	1.50
	Arch. H. Wallace	do	31.90
	Chas. A. Brown	do	20.90
	Harry L. McDonald	do	14.00
	Geo. W. Browning	do	1.75
	Geo. E. Totten	do	4.50

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Mar. 14	Thos. Castor	Traveling expenses	\$35.70
	Dan McCunningham	do	56.80
	J. W. Parker	do	1.85
	W. L. Johnson	do	7.95
	Louis A. Klein	do	8.55
	Clarence A. Clawson	do	21.15
	Peter I. Kershner	do	17.80
	do	do	56.44
	W. H. Wray	do	7.52
	Allen A. Holcombe	do	38.56
	Geo. W. Ward	do	5.10
	H. T. Potter	do	5.50
	W. B. Niles	do	25.98
	Herbert B. Chaney	do	5.50
	Fredk. T. Dolan	do	4.25
	A. J. Pistor	do	21.38
	H. D. Mayne	do	10.45
	H. J. Hammond	do	106.50
	C. L. Morin	do	13.95
	Wm. C. Honan	do	16.30
	Chas. Cowie	do	19.55
16	The Burnett Co	Dry batteries	4.55
	Geo. E. Howard & Co	Labels	560.00
	Robt. Darling	Use horse, etc	25.00
	Albert E. Behnke	do	35.00
	S. A. De Freese	Corn	10.40
	E. C. Schroeder	Expenses	6.90
	E. A. McDonald	Services	80.00
	Geo. M. Whitaker	do	112.00
	Isaac W. O'Rourke	Traveling expenses	50.50
	Warren J. Fretz	do	55.95
	F. L. Russell	do	25.00
	W. D. Collyer	do	67.90
	F. M. Perry	do	4.70
	N. L. Townsend	do	29.70
	Matt. S. Lantz	do	11.25
	Geo. A. Bond	do	14.25
	R. A. Ramsay	do	50.75
	Dan M. Cunningham	do	115.70
	Ernest J. Foreman	do	22.85
	Louis Metzker	do	45.30
	Albert Dean	do	40.60
	Fred L. Stevens	do	53.89
	Henry Q. Thompson	do	102.03
	Patck. O'Shea et al	Salaries	624.00
	Henry Walsh et al	do	476.50
17	J. B. Clancy	Expenses	8.00
	E. A. de Schweinitz	do	15.30
	M. Du Perow	Shade, etc	1.40
	H. A. Hedrick	Use horse, etc	15.00
	Geo. Colhoff	Mare	30.00
	Lucy Wounded Close	do	10.00
	J. R. Colhoff	do	18.00
	O. E. Dyson	Use saddle horse	25.00
	S. W. Burt	do	25.00
	Jno. C. Lorenzen	Use horse, etc	32.40
	The Fair	Baskets	6.20
	Theo. H. Eisner & Bro.	Burner	2.75
	A. P. Little	Cases, etc	2.75
	J. Haberle	Repairing boxes	5.25
	Thos. A. Bray	Traveling expenses	3.50
	Leslie J. Allen	do	35.30
	M. W. Lang	do	120.85
	Walter E. Howe	do	5.75
	John J. Hayes	do	45.75
	Clinton H. Bugbee	do	36.25
	H. M. Rowe	do	21.90
	F. O. Pettey	do	28.25
	David C. Hanawalt	do	5.40
	W. R. Dennis	do	37.40
	Jno. McBirney	do	37.50
	Robt. H. Tracy	do	43.55
	Frank C. Eells	do	7.75
	Wm. G. Shaw	do	103.65
	Chas. F. Flocken	do	79.10
	Adolph Eichhorn	do	83.60
	W. L. West	do	79.43
	Albert N. Irwin	do	111.55
	U. G. Honck	do	162.43
	Patk. H. Mullowney	do	59.25

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Mar. 18	Jno. V. Laddey	Traveling expenses	\$137.76
	F. W. Bicknell	do	161.20
	do	do	250.00
	E. A. McDonald	do	55.70
	Levi Wells	do	135.44
	Nathl. B. Smith	do	34.60
	Lowell Clarke	do	32.75
	Geo. S. Hickox	do	46.95
19	A. R. Glaisyer	do	22.75
	Geo. S. Hickox	Expenses	5.35
	Sallie Red Hat	Mare	5.00
	Alex. Merrivall	do	5.00
	Chas. Hacker	Use horse, etc	19.00
	Jno. B. Sine	do	35.00
	Bausch & Lomb Optical Co	Tubes, etc	37.15
	E. Morrison Paper Co	Cards	1.50
	Chas. C. McKeon	Services	53.00
	Thos. Somerville & Sons	Ells, etc	7.75
	Yawman & Erbe Manufacturing Co	Binding cases	10.80
	Rudolph, West & Co	Saw, etc	14.85
	E. G. Schafer & Co	Packing	3.75
	Woodward & Lothrop	Batting, etc	5.21
	E. J. Brooks & Co	Seals	37.00
20	Miller Lock Co	Repairing padlock	2.50
	Shannon & Axtell	Bran, etc	22.40
	Thacher & Ireland	Services	41.00
	do	Lime	5.30
	C. E. Howard	Use horse, etc	21.00
	Jas. B. Wood & Son Co	Lime	7.15
	do	do	21.85
	McManus Bros	Use horse, etc	24.00
	Edw. R. Hayward	do	24.00
	Frank E. Brooks	Meals, etc	302.75
	Chas. Warner	do	43.80
	O. F. Sage, jr	Canvas case	16.75
	Clarence Moore	Meals, etc	30.00
	J. J. Busch	do	187.75
	Sophia A. Gove	do	24.00
	Maggie E. Stiles	do	16.75
	Almond Bailey	do	166.25
	Jas. S. McGregor	do	101.24
	Smith & Thayer Co	Pumps	18.94
	D. J. Cooney	Services	48.00
	Ames Plow Co	Shovels, etc	61.65
	Lowel Coal Co	Lime	18.05
	Almond Bailey	Services	24.00
	Joseph Hassan	do	1.50
	Hulbert Young	Traveling expenses	80.11
	J. F. Ryder	Services	155.60
	do	Traveling expenses	30.00
	Geo. W. Pope	do	11.47
	Chas. M. Day	do	29.05
	W. S. Cass	do	40.11
	E. T. Davison	do	49.35
	Geo. M. Whitaker	do	36.76
21	A. D. Melvin	do	62.80
	The Allegheny Co.	Coal	100.64
	A. Wilson & Bro.	Services	3.50
	Eliza McDonald	Meals, etc	142.00
23	Potomac Electric Power Co	Current	42.84
24	E. L. Volgenau	Traveling expenses	2.55
	Russell G. Merrill	do	11.05
	E. L. Volgenau	do	101.40
	J. Wm. Fink	do	68.12
	Rice P. Steddum	do	109.80
	Geo. E. Wager	do	30.12
	Geo. M. Dishong	do	18.65
	L. Enos Day	do	74.94
	Louis L. Bullard	do	5.37
	M. Imes	do	80.40
	Henry C. Brown	do	2.90
	Frank H. Burleigh	do	15.33
	Albert L. Latham	Meals, etc	43.75
	Dennis J. Dewire	Services	55.00
	Geo. L. Spear	Cattle	1,745.10
26	Washington Gaslight Co	Gas	50.10
	do	do	48.40
	H. O. Alley	Corn	55.00
	Jas. Harper	Mare	30.00
	Harris C. Wilson	Use horse, etc	4.00

## 224 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Mar. 26	T. J. Foley	Meals, etc	\$21.00
	Allen Clark	Services	12.75
	Jas. B. Wood & Son Co	Lime	1.15
	E. J. Davis	Forks	5.50
	W. C. Boyce	Cow	52.50
	Adams Bros	Lime	8.55
	F. E. Boyd	Services	10.00
	W. C. Robbins	do	24.00
	B. F. Bascom	do	123.00
	Frank L. Shipp	Traveling expenses	18.77
	Wm. D. Jordan	do	76.56
	Thos. White	do	39.50
	J. B. Clancy	Expenses	2.60
	D. E. Salmon	do	34.45
	do	do	61.42
27	David R. Hodges	Traveling expenses	32.50
	Saml. E. Bennett	do	17.53
	Tooie A. Geddes	do	78.73
	do	Services	155.60
	Geo. Colhoff	Mare	12.00
	Crazy Thunder	do	12.00
	Henry Poor Buffalo	Stallion	8.00
	Danl. Shaving Bear	Mare	7.50
	Roan Eagle	do	15.00
	Lone Elk	do	7.50
	Geo. Left Hand	do	7.50
	Jennie Bird	Mare, etc	75.00
	Eugene Bird	Mare	25.00
	Edison Electric Illuminating Co	Services	9.64
	Geo. E. Howard & Co	Labels	800.00
31	Eagle Owl	Mare	10.00
	Long Woman	do	10.00
	Marion Dorsett et al	Salaries	5,551.24
	Total third quarter		418,234.97
Apr. 1	Geo. E. Howard & Co	Labels	800.00
	Geo. M. Whitaker	Services	129.20
	B. F. Van Valkenburgh	do	155.00
	M. W. Lang	do	155.00
	W. D. Collyer	do	155.00
	Levi Wells	do	155.00
2	Jno. C. Parker	Ribbons	5.15
	D. Frank Parker	Paper	6.90
	Wm. H. Dyer	Sash	21.00
	Ernest Betz	Incubator	49.50
	National Mortar Co	Cement	34.40
	W. M. Galt & Co	Oats	39.00
	Potomac Electric Power Co	Electric lamp	7.24
	Lentz & Lossan	Syringes	5.50
	W. B. Moses & Sons	Chair	5.16
	J. W. Barker	Pan and basket	2.50
	Jno. Plenty Wolf	Stallion	15.00
	Fast Horse	Mare	8.00
	Red Buffalo	do	22.50
	Danl. E. Sherman	Cattle	1,134.80
	Thos. O. Knowlton	do	1,088.15
	Amos W. Whipple	do	747.60
	Geo. Pattee	do	547.40
	Bartlett & Butler	do	532.00
	M. W. Comiskey	do	928.50
	Fred. F. Lane	do	746.20
	J. H. Stiles	do	651.00
	Jas. A. Richards	do	696.50
	Chas. H. Hazen	do	700.00
	E. R. French	Chickens	3.68
	do	Cattle	595.00
	do	do	315.00
	J. R. Bailey	do	385.00
	Albert B. McLain	do	525.00
	Albert E. Jones	do	269.50
	do	do	112.00
	Alonzo Calkins	do	227.50
	Geo. W. Kidder	do	203.98
	Geo. E. Waite	do	607.60
	Harris C. Wilson	do	207.20
	Revere Rubber Co	Hose, etc	237.08
	Louis Brausseau	Cattle	162.50
	Morse Bros	do	150.50
	W. C. Robbins	do	234.00

Expenditures of Department of Agriculture for year ending June 30, 1905—Cont'd.

## BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Apr. 2	Warren J. Whipple	Cattle	\$66.50
	Frank A. Whipple	Hens	7.35
	E. L. Volgenau	Services	31.11
	Jno. R. Johnson	do	4.50
	Trorlicht, Duncker & Renard Carpet Co.	Matting	33.95
	American Tag Co	Tags	121.00
3	The Maurice Joyce Engraving Co.	Stamp	.75
	Z. D. Gilman	Solution hydrate	22.41
	do	Wire baskets	23.19
	Church & Stephenson	Lumber	45.00
	American Can Co	Oil cans, etc	19.50
	Nathan K. Fegley et al.	Salaries	260.10
	H. A. Hedrick et al	do	489.10
	Geo. W. Pope et al.	do	368.30
	Julius Huelsen et al.	do	702.70
	W. H. Rose et al	do	1,152.92
	Geo. C. Faville et al.	do	301.40
	Samuel E. Bennett et al.	do	2,567.91
	Jas. Hewes	Services	36.00
	H. D. Mayne	do	103.30
	Ed. H. Webster	do	144.44
	Harry F. Hume	do	62.00
	Geo. P. McCabe	Traveling expenses	80.55
4	Russell G. Merrill	Use of horse, etc	15.00
	Jno. Mesteth.	Mare	31.00
	Real Estate and Improvement Co.	Rent of land	56.25
	H. B. Adair	Services	129.20
	Thos. Castor	do	129.20
	Leslie J. Allen	do	129.20
	Geo. N. Browning	do	120.60
	Clarence A. Clawson	do	120.60
	Thos. A. Bray	do	120.60
	A. H. Wallace	do	120.60
	Wm. G. Shaw	do	120.60
	Geo. E. Totten	do	120.60
	Ernest J. Foreman	do	120.60
	Louis A. Klein	do	120.60
	Louis Metsker	do	120.60
	Peter I. Kershner	do	120.60
	Dan McCuningham	do	103.30
	Jno. L. Burgett	do	103.30
	Geo. C. Moser	do	103.30
	W. D. Jorden	do	103.30
	Morey A. Sappington	do	103.30
	Western L. Johnson	do	103.30
	Frank W. Brewer	do	103.30
	Chas. A. Brown	do	77.50
	Harry L. McDonald	do	77.50
	Murray J. Myers	do	103.30
	Frank T. Dolan	do	120.60
	F. W. Hopkins	do	120.60
	Willis B. Lincoln	do	120.60
	J. M. Turner	do	77.50
	Henry E. Alvord	Traveling expenses	83.10
	Albert Dean et al	Salaries	637.20
	Jas. Johnston et al	do	1,946.84
	Edwd. P. Schaffer et al.	do	630.88
	Harry N. Waller et al.	do	2,860.80
	Edwd. P. Doud et al	do	184.50
	Albert E. Behnke et al	do	1,276.56
	Fredk. Bragington et al.	do	185.89
	Chas. A. Schaufler et al.	do	952.30
	F. W. Huntington et al	do	155.30
	Lewis R. Baker et al	do	969.10
	Bernhard P. Wende et al.	do	1,972.28
	Boyd Baldwin et al.	do	657.90
	W. P. Ellenberger et al.	do	198.10
6	Chas. C. McKeon	Services	62.00
	Wesley N. Neil	Expenses	5.50
	Wm. H. Wade	Services	77.50
	Hervey T. Potter	do	13.00
	F. M. Perry	do	120.60
	X. Mongin	do	22.50
	C. L. Morin	do	103.30
	Wm. M. H. Seabrook	do	52.00
	Jas. Irwin	do	86.10
	J. W. Oppedyke	do	34.50
	L. A. Pepon	do	23.25
	Allen A. Holcombe	do	129.20

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Apr. 6	Geo. W. Butler	Services	\$120.60
	Albert J. Payne et al	Salaries	1,008.67
	Richd. J. Blanche et al	do	182.60
	Jos. M. Good et al	do	182.60
	Geo. Ditewig et al	do	275.60
	Jas. S. Kelly et al	do	182.60
	Jas. J. Brougham et al	do	1,534.00
	Thos. J. Turner et al	do	869.80
	Wilber J. Murphy et al	do	198.10
	F. L. De Wolf et al	do	240.60
	Wesley N. Neil et al	do	182.60
7	Robt. J. Cranton et al	do	753.00
	Wm. Thompson et al	do	903.77
	J. B. Clancy et al	do	3,222.40
	Louise Faust et al	do	38.34
	Jno. Forbes et al	do	3,261.30
	M. O. Anderson et al	do	182.60
	Fredk. W. Ainsworth et al	do	335.90
	C. H. Zink et al	do	485.70
	Louis K. Green et al	do	318.70
	W. H. Gibbs et al	do	165.30
	Joshua Miller et al	do	260.00
	W. B. Niles et al	do	459.50
	A. B. Morse et al	do	185.89
	Trajan A. Shipley et al	do	530.89
	Frank D. Ketchum et al	do	1,086.90
	Fredk. W. Ainsworth	Expenses	5.80
	Rudolph, West & Co	Hatchets, etc	28.81
	do	Pipe, etc	9.49
	Barber & Ross	Pliers	5.70
	do	Nails	2.50
	do	Axes	1.50
	American Ice Co	Ice	28.75
8	E. N. Hutchinson et al	Salaries	391.90
	N. C. Sorensen et al	do	384.61
	Harry D. Paxson et al	do	948.90
	Don C. Ayer et al	do	4,144.90
	A. G. G. Richardson et al	do	7,910.80
	Jno. A. Bill	Services	56.00
	C. L. Morin	do	93.40
	U. G. Houck	do	137.80
9	J. J. Hasson et al	Salaries	741.00
	N. C. Sorensen et al	do	1,946.50
	Robt. Darling et al	do	198.10
11	Geo. E. Howard & Co	Labels	1,600.00
	Edwd. S. Schmid	Prepared feed	14.00
13	E. G. Schafer & Co	Pipe	4.32
	E. Morrison Paper Co	Tags	4.20
	do	Tag board	.50
14	Warner Worcester	Traveling expenses	81.20
	Walter J. Stewart et al	Salaries	5,181.57
	Vergil L. Brown et al	do	2,353.00
	Jas. Fleming et al	do	966.20
	O. E. Dyson et al	do	9,668.81
	Chicago, Milwaukee and St. Paul Rwy. Co.	Transportation	5.47
	do	do	6.47
	Lake Shore and Michigan Southern Rwy. Co	do	.51
	do	do	.75
	Star Union Line Co	do	2.54
	do	do	.70
	do	do	1.04
	Stephen Dooley	do	1.35
	Pennsylvania R. R. Co	do	.35
	Illinois Central R. R. Co	do	.49
	do	do	.21
	do	do	20.23
	do	do	18.79
	Union Pacific R. R. Co	do	.56
	Chicago and Erie R. R. Co	do	.50
	Chesapeake and Ohio Rwy. Co	do	.69
	Cleveland, Cincinnati, Chicago and St. Louis Rwy. Co.	do	3.80
	Lehigh Valley R. R. Co	do	1.23
	Pennsylvania Co	do	5.16
	New York, New Haven and Hartford R. R. Co.	do	.71
	Chicago and Alton Rwy. Co	do	3.93
	Grand Trunk Rwy. of Canada	do	.90
	Merchants and Miners' Transportation Co.	do	5.48
	Baltimore and Ohio Southwestern R. R. Co.	do	4.08



Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Apr. 14	Baltimore and Ohio Southwestern R. R. Co.	Transportation	\$0.88
	Boston and Maine R. R. Co.	do	6.72
	Burlington and Missouri River R. R. Co.	do	.27
	do	do	.99
	do	do	1.05
	do	do	2.42
	Burlington Route, Missouri Lines	do	3.70
	do	do	9.55
	Chicago and Northwestern Rwy. Co.	do	.88
	do	do	.87
	do	do	2.08
	The Pullman Co.	Passenger transportation	14.50
	Jas. J. Brougham	Use horse, etc.	40.00
	Bourbon Stock Yards Co.	Office rent	30.00
	L. G. Orndorff	Plow, etc.	13.80
	F. Auerbach & Bro.	Office rent	30.00
	Wagner Typewriter Co.	Repairing typewriter	6.00
	Thacher & Ireland	Ax handles	1.50
	do	Scythes, etc.	3.10
	Chadwick Copying Book Co.	Books	44.16
	Robt. Gair Co.	Boxes	8.25
	United States Envelope Co.	Envelopes	111.80
	Chas. Keane	Use horse, etc.	25.00
	Robt. Darling	do	25.00
	St. Joseph Stock Yards Co.	Office rent	135.00
	Missouri and Kansas Telephone Co.	Service	12.50
	Michael Dirnberger	Use horse, etc.	135.00
	Jno. Forbes	do	54.00
	East Buffalo Live Stock Exchange	Office rent	90.00
	Fowler Manufacturing Co.	Towel service	3.78
	Emery, Bird, Thayer Dry Goods Co.	Soap	7.00
	Jas. R. Stafford	Use horse, etc.	2.17
	Cutler and Neilson Paint and Color Co.	Paint, etc.	12.75
	Missouri and Kansas Telephone Co.	Service	24.00
	New York and New Jersey Telephone Co.	do	26.50
	Wm. P. Cherrington	Hasps, etc.	5.40
	New Telephone Co.	Service	20.00
	Armstrong Steam Laundry	Towel service	1.79
	E. L. Coleman	Office rent	12.00
	The Faultless Rubber Co.	Gloves	1.66
	Iowa Telephone Co.	Service	4.50
	N. Rufus Gill	Office rent	31.25
	Jno. S. Gorsuch	Mare	45.00
	A. D. Howe	Feed, etc.	171.59
	H. A. Gilmore & Co.	Fodder, etc.	46.98
	Jno. J. Busch	Meals, etc.	16.50
	Boyd Bros.	Use horse, etc.	14.00
	F. P. Wells	Meals, etc.	25.80
	Chas. H. Wood	Use horse, etc.	9.00
	Chas. G. Barnard	do	39.00
	Miller Bros.	Pails	1.50
	Martin M. Welch	Use horse, etc.	13.50
	Dani. McNally	do	39.00
	McManus Bros.	do	25.50
	E. A. Edson	Meals, etc.	73.50
	Foley & Dowd	do	14.00
	Franklin Rubber Co.	Rubber coat, etc.	148.47
	Frank J. Fallon	Services	5.00
	Jos. J. Rieman	do	62.00
	Benj. J. Glavin	do	28.00
	Jas. W. Davis	do	77.50
	G. W. Ward	do	120.60
	W. J. Kennedy	do	100.00
	Chas. Cowie	do	136.00
	Warner Worcester	do	120.60
	Wm. R. Fleming	do	62.22
	do	do	50.00
	W. R. Dennis	do	77.50
	Wm. Pflaeging	do	77.50
	Thos. Redmond	do	77.50
	David R. Hodges	do	77.50
	F. O. Pettet	do	77.50
	Russell G. Merrill	do	77.50
	A. J. Smith	do	77.50
	Arthur A. Glaisyer	do	120.60
	Thos. White	do	120.60
	Robt. H. Treacy	do	120.60
	N. L. Townsend	do	120.60
	H. J. Hammond	do	120.60
	M. S. Lantz	do	120.60

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1903, Apr. 14	Walter E. Howe	Services	\$120.60
	J. J. Hayes	do	120.60
	David C. Hanawalt	do	120.60
	Frank C. Eells	do	120.60
	N. B. Smith	do	120.60
	H. M. Rowe	do	120.60
	R. A. Ramsay	do	120.60
	A. J. Pistor	do	120.60
	Isaac W. O'Rourke	do	120.60
	J. Otis Jacobs	do	120.60
	Lowell Clarke	do	120.60
	Clinton H. Bugbee	do	120.60
	W. S. Cass	do	120.60
	Ray N. Drake	do	120.60
	Jno. McBirney	do	137.80
15	Geo. S. Hickox	do	120.60
	Saml. C. Bennett	Use horse, etc	38.00
	Louis K. Green	Expenses	4.70
	N. C. Sorensen	do	12.14
	Geo. W. Butler	do	75.00
	E. T. Davison	do	8.91
	Henry Armsby et al	Salaries	271.52
	O. B. Hess et al	do	202.00
	Geo. S. Baker et al	do	432.30
	J. C. Milnes et al	do	636.40
	Clarence Loveberry et al	do	409.90
	E. T. Davison et al	do	556.40
	Chas. Keane et al	do	430.60
	W. E. Hill	Services	103.30
	D. Cumming	do	55.00
Wm. E. Smith	do	42.00	
Maggie Taylor	do	16.67	
F. L. Russell	do	72.00	
Wm. Evans	do	7.00	
Andrew Hyde	Traveling expenses	83.06	
Geo. E. Wager	do	38.87	
do	do	15.15	
Thos. Coyle	do	28.25	
Frank L. Shipp	do	20.83	
Jno. B. Sine	do	63.77	
Geo. A. Hanvey, jr	do	3.40	
Rice P. Steddom	do	136.14	
S. E. Bennett	do	17.76	
Jas. F. Hughes	do	1.40	
L. Enos Day	do	92.30	
Clarence O. Dufee	do	92.42	
Major Schofield	do	71.20	
Walter H. Hersey	do	34.57	
Geo. M. Dishong	do	20.15	
W. B. Niles	do	8.45	
Fredk. T. Dolan	do	6.75	
H. D. Mayne	do	8.45	
Chas. M. Day	do	34.40	
Clarence A. Clawson	do	5.20	
Morey A. Sappington	do	9.85	
Jno. Summers	do	4.65	
Louis A. Robinson	do	5.15	
Murray J. Myers	do	9.27	
F. L. Russell	do	29.90	
Benj. Howes	do	9.25	
H. H. George	do	4.50	
Harry L. McDonald	do	19.60	
Albert Dean	do	30.75	
E. N. Hutchinson	do	2.75	
W. R. Dennis	do	64.50	
J. Otis Jacobs	do	26.65	
Geo. C. Moser	do	23.40	
Wm. D. Collyer	do	103.65	
H. J. Hammond	do	83.50	
Jno. L. Burgett	do	2.00	
Geo. S. Baker	do	5.90	
Louis A. Klein	do	6.30	
W. N. D. Bird	do	3.25	
S. N. Heaton	do	20.65	
Hervey T. Potter	do	5.25	
F. M. Perry	do	4.70	
Chas. W. Pagle, jr	do	3.85	
B. P. Wende	do	1.30	
16	Wilton F. Crewe	Services	39.86
	Albert Hassall	Traveling expenses	12.25

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Apr. 16	Thos. Redmond	Traveling expenses	\$16.80
	C. L. Morin	do	5.55
	Geo. W. Stiles, jr	do	2.00
	R. W. Hickman	do	3.00
	Jno. S. Buckley	do	2.00
	do	do	6.70
	Henry J. Washburn	do	2.00
	Jno. E. Mohler	do	6.70
	do	do	9.30
	Mendenhall Transfer Co.	Stamps, etc	3.75
	Silver Laundry and Towel Co.	Towel service	3.51
	The Bell Telephone Co.	Service	40.00
	C. A. Schautler	Use horse, etc	105.00
	American Woodworking Machinery Co.	Gauge and roller	20.00
	R. J. O'Brien & Bros. Co.	Oats	49.65
	Jas. W. Davis	Use horse, etc	18.00
	Glynn & Smith	Transportation	5.50
	Frontier Towel Supply Co.	Towel service	11.20
	Nebraska Telephone Co.	Service	13.50
	Don C. Ayer	Use horse, etc	15.00
	Maryland Telephone and Telegraph Co.	Services	12.00
	Chesapeake and Potomac Telephone Co.	do	12.00
	Albert E. Behnke	Use horse, etc	35.00
	Wilcox & Harvey Manufacturing Co.	Punch, etc	3.00
	Thos. A. Bray	Use saddle horse	75.00
	Martin Laundry and Towel Co.	Towel service	6.33
	Biddle & Bogart Printers' Supply Co.	Paint, etc	4.90
	J. S. Woodhouse	Harrow	19.60
	Ben Mills	Mare	18.00
	Chas. Nebo	do	20.00
	H. M. Brindley	do	50.00
	W. H. Gould	do	30.00
	S. M. Davison	do	50.00
	Red Feather	do	15.00
	Peter Mosier	do	10.00
	Isaac Fast Wolf	do	15.40
	H. O. Alley	Corn	34.30
	Trustees of the Milk Street Trust	Office rent	292.74
	C. Deaderick	do	30.00
	T. F. Rogers, agent	do	52.50
	Emma J. Adams et al	do	120.00
	St. Louis National Stock Yards Co.	do	50.00
	Emma Curran, administratrix	do	21.00
	The Kansas City Stock Yards Co.	do	45.00
	Trustees of the Milk Street Trust	do	292.74
	Warren H. Marshall	Cow	28.00
	Wm. N. Favor	Cattle	59.50
	J. W. Flanders	do	87.50
	W. F. Hammond	do	67.90
	T. F. Gilbert	do	511.00
	R. P. Drewry	do	196.00
	Edwd. L. Connor	do	105.00
	Elwin B. Nicholds	do	136.50
	Herbert N. Foshier	do	113.40
	Thos. S. Burns	do	640.50
	H. H. Simons	do	455.00
	Levin Johnson	do	143.50
	Anderson & Christofferson	Hay	114.90
	O. A. Knowlton	Flooring	297.75
	A. C. Barnard	Cattle	1,040.90
17	J. H. Brigham	Traveling expenses	17.45
	Western Union Telegraph Co.	Service	26.21
	Geo. A. Boyd	Services	120.60
	Johnson Scabby Face	Mare	15.00
	Ada Tarryson	Copy of pleadings	25.00
	Saml. Kills Brave	Mare	15.00
	White Butterfly	do	15.00
	Union Stock Yards and Transit Co.	Coal	11.00
	Stock Yard Paint Co.	Lantern, etc	2.97
	O. E. Dyson	Use saddle horse	25.00
	F. D. Ketchum	Use horse and wagon	25.00
	Sunset Telephone and Telegraph Co.	Service	10.50
	Rocky Mountain Bell Telephone Co.	do	15.00
	American Linen Supply Co.	Towels and soap	3.00
	Iowa Telephone Co.	Service	12.00
	H. A. Hedrick	Use horse, etc	17.50
	The New York and New Jersey Telephone Co.	Service	31.65
	The Cincinnati Stock Yards Co.	Office rent	45.00
	The Sioux City Stock Yards Co.	do	60.00

230 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1903. Apr. 17	Jas. Stikeman Grand Trunk Rwy. System Weehawken Stock Yard Co City Telephone Co New England Telephone and Telegraph Co.	Office rent do Service do do	\$125.00 25.00 9.45 3.00 12.50
	Chicago Car Seal and Manufacturing Co Arthur H. Thomas Co Library Bureau Dennison Manufacturing Co Chicago Car Seal and Manufacturing Co Z. D. Gilman M. Du Perow Jas. S. Topham E. Morrison Paper Co	Tags Jars Cards Tags do Burners, etc Switches Trunk handles Gum labels do	2.75 28.80 29.60 18.36 62.25 23.92 1.30 1.50 1.50 12.75
	Wm. Lochte National Electrical Supply Co do	Shoeing horse Desk stand Pulley	9.12 1.40 2.24
	Thos. Somerville & Sons	Tin pipe	11.27
	The Fairbanks Co	Scale	5.60
	W. S. Bailey	Cattle	266.00
	W. C. Robbins	Flooring, etc	177.05
	Murray Brown	do	16.74
	Jens Mekkelson	do	69.98
	M. H. Warden	do	57.60
	Hiram M. Feich	Cattle	601.30
	Wm. B. Wallace	Flooring, etc	40.96
	Jas. Thompson	Cattle	716.80
18	Rutland R. R. Co	Passenger transportation	4.31
	New York, New Haven and Hartford R. R. Co.	do	26.75
	Central Vermont Rwy. Co	do	1.29
	Southern California R. R. Co	do	3.85
	St. Joseph and Grand Isle Rwy. Co	do	25.70
	Atlanta, Knoxville and Northern Rwy. Co.	do	-3.70
	Nashville, Chattanooga and St. Louis Rwy. Co.	do	4.50
	Oregon Short Line R. R. Co	do	18.00
	Southern Rwy. Co	do	14.66
	The Chicago, Burlington and Quincy R. R. Co.	do	22.50
	do	do	11.35
	The Lake Shore and Michigan Southern Rwy. Co.	do	108.55
	Union Pacific R. R. Co	do	17.00
	Burlington and Missouri River R. R. Co	do	12.75
	Union Pacific R. R. Co	do	37.60
	Baltimore and Ohio R. R. Co	do	38.40
	Illinois Central R. R. Co	do	19.38
	The Pennsylvania R. R. Co	do	17.40
	The Chesapeake and Ohio Rwy. Co	do	57.00
	Missouri Pacific Rwy. Co	do	21.90
	The Atchison, Topeka and Santa Fe Rwy. Co.	do	27.75
	Chicago, Rock Island and Pacific Rwy. Co.	do	65.15
	Southern Pacific Co	do	15.10
	New York Central and Hudson River R. R. Co.	do	28.18
	J. F. Ryder	Traveling expenses	30.00
	Chas. A. Brown	do	23.35
	Geo. E. Totten	do	8.00
	Wm. C. Honan	do	18.35
	Geo. W. Pope	do	8.69
	Jno. A. Bell	do	40.18
	G. W. Ward	do	14.00
	Geo. M. Whitaker	do	40.80
	Major Schofield	do	9.25
	Geo. S. Hickox	do	73.64
	W. P. Ellenberger	do	12.18
	Peter I. Kershner	do	33.27
	Wm. M. MacKellar	do	6.80
	Wm. G. Shaw	do	27.65
	Jas. Hewes	do	7.94
	Ed. H. Webster	do	39.38
	F. W. Bicknell	do	250.00
	W. H. Wray	do	6.55
	Caroline Burnaby	Services	40.00
	J. F. Ryder	do	172.20

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Apr. 18	W. H. Wray	Services	5387.50
	Louisa Wells	Office rent	51.09
	J. P. Sine	Use horse, etc.	35.00
	C. E. Remson	Cows	40.00
	The Consumers' Co	Water	1.50
	S. W. Burt	Use horse, etc.	25.00
	Gahn & Byrne	Office rent	675.00
	Chicago Telephone Co	Service	43.75
	Union Stock Yards and Transit Co	Office rent	375.00
	Chicago Towel Supply Co	Towel service	129.62
	Jno. C. Lorenzen	Use horse, etc.	35.10
	W. A. Diffley	Hay, etc.	38.39
	Jno. J. Kerrigan	Flooring, etc.	5.00
	W. J. Murphy	Expenses	1.80
	W. H. Wray	do	23.53
	Geo. W. Pope	do	4.67
	Fred. J. Goebel	do	10.10
	Boyd Baldwin	do	5.12
	J. B. Clancy	do	2.90
	O. B. Hess	do	5.50
	Joshua Miller	do	7.49
	Saml. E. Bennett	do	3.28
	H. A. Hedrick	do	12.35
	Hiram Jerome	do	9.05
	Thos. J. Turner	do	17.92
	W. H. Rose	do	20.80
	Western L. Johnson	Traveling expenses	25.55
	E. A. de Schweinitz	Expenses	24.77
	S. R. Burch	Traveling expenses	17.70
	E. C. Shroeder	Expenses	8.50
20	Jas. J. Brougham	do	21.20
	H. A. Christman	do	15.74
	Wm. Thompson	do	1.33
	B. P. Wende	do	2.24
	Geo. C. Faville	do	20.35
	T. A. Shipley	do	9.64
	H. M. Rowe	do	9.00
	J. B. Clancy	do	16.40
	Chas. A. Schaulfer	do	39.45
	Chas. M. Day	do	2.10
	E. N. Hutchinson	do	14.85
	Julius Huelsen	do	5.90
	Geo. S. Hickox	do	5.50
	W. B. Niles	do	19.70
	Jno. Forbes	do	9.70
	Joseph M. Good	do	11.40
	Harry N. Waller	do	10.65
	F. P. Ellenberger	do	1.54
	A. G. G. Richardson	do	2.90
	do	do	9.55
	M. W. Lang	Traveling expenses	116.45
	A. D. Mevin	do	62.65
	Ernest J. Foreman	do	11.90
	N. B. Smith	do	33.00
	Chas. Cowie	do	19.65
	Jno. F. Schiermann	do	.85
	J. Wm. Fink	do	198.18
	Adolph Eichhorn	do	89.30
21	The Okonite Co. (Limited)	Wire	6.30
	Rand, McNally & Co	Ink	9.00
	Whitall, Tatum & Co	Tubing	3.60
	Bausch & Lomb Optical Co.	Tube holders, etc.	41.69
	Eimer & Amend	Dextrine, etc.	57.95
	Allen A. Holcombe	Traveling expenses	35.57
	Louis K. Green	do	23.26
	Chas. Wardell Stiles	do	12.55
	Fred L. Stevens	do	44.69
22	Eastern Drug Store	Carbolic acid	620.12
	B. F. Bascom	Cattle, etc.	474.20
	Berry & Ferguson	Lime, etc.	125.03
	Chas. A. Skelton	Hay, etc.	89.00
	Jas. W. Gould	Meals, etc.	57.40
	Geo. N. Dunn	Flooring, etc.	48.00
	A. A. Goodell	Services	45.25
	E. E. Mills	Flooring, etc.	40.00
	Edward P. Henderson	Use horse and buggy	25.00
	H. H. Simons	do	28.00
	B. F. Blaisdell	Flooring, etc.	17.80
	F. E. Harrington	Services	9.60
	Amsden Lime Co.	Lime	3.30

## 232 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Apr. 22	Left Crane	Mare	\$10.00
	ron Shell	do	15.00
	Good Horse	do	30.00
	Wm. Fire Thunder	Stallion	10.00
	The Consumers Co	Ice	73.80
	Geo. E. Howard & Co.	Handles	6.25
	do	Labels	800.00
	Lutz & Co	Whips, etc	10.25
	F. W. Ainsworth	Expenses	4.95
	J. B. Clancy	do	3.10
23	Belt Rail Road and Stock Yard Co.	Office rent	30.00
	New York Telephone Co.	Service	27.20
	A. W. Swayne	Desk, etc	24.50
	Alex Merriyall	Mare	20.00
	Eberhard Faber	Pencils	3.00
	E. C. Atkins & Co	Saw, etc	17.97
	Geo. Ladeaux	Mare	30.00
	Garter	do	13.00
	Thos. O'Rourke	do	35.00
	J. F. O'Rourke	do	20.00
	Mike Jarvis	do	30.00
	Andrew Grotz	do	10.00
	Long Elk	do	10.00
	Thos. American Horse	do	15.00
	Smith Dreaming Bear	do	20.00
	Bear Bone	do	30.00
	Jno. Bird Head	do	25.00
	F. A. Rowell	Services	8.50
	O. E. Patch	Hay, etc	114.80
	Wyckoff & Shattuck	Use horse, etc	24.00
	Geo. A. Law	do	13.00
	Jno. C. Chaddock	do	7.00
	Frank Tucker	Lime	12.10
	Parker Bros	Bags	27.03
	D. E. Salmon	Traveling expenses	25.75
	Lewis L. Bullard	do	7.45
	Thos. Castor	do	57.70
	Dan. McCuningham	do	64.75
	Leslie J. Allen	do	41.50
	Louis Metsker	do	44.64
	Saml. E. Bennett	Expenses	3.42
	E. T. Davison	do	21.94
24	Fred A. Schmidt	Paper	13.20
	Geo. E. Howard & Co	Labels	1,600.00
	Albert E. Behnke	Expenses	18.00
	Nathan K. Fegley	do	7.65
	J. A. Sloan	Traveling expenses	31.80
	Harry M. Ball	do	38.23
	Henry E. Brown	do	48.11
	W. L. West	do	104.26
	David W. Noyes	Flooring, etc	5.00
	W. C. Boyce	Services	9.00
	S. Armstrong Co.	Hogshead	7.50
	Andrew Biggi	Hay, etc	28.50
	J. J. Fitzgerald	do	19.00
	Edw. A. Felton	do	36.00
	Clinton P. Howard	do	97.90
	L. D. Newton	do	40.00
	Jas. E. Cuthbertson	Flooring, etc	20.00
	J. W. Parker	do	30.00
	E. R. French	do	17.59
	Richd. F. Parker	do	35.50
	Henry Buxton	do	72.75
	A. D. Boynton	do	27.40
	F. H. Kaizer	do	19.10
	Levi E. Gould	Calf	10.00
	Emma R. Knowlton	Meals, etc., March and April	98.00
	Alvah W. York	Flooring, etc.	21.75
	A. C. H. Jones	do	49.00
	Robt. J. Brennan	do	24.20
	S. E. Brigham	do	22.20
	Jas. Craddock	do	16.75
	R. F. Perkins	do	46.72
	O. A. Johnson	do	26.50
	Jno. Cullen	do	25.00
	C. E. Jennings	Hay	15.00
	Aaron C. Barnard	Meals, etc	64.00
	A. A. Goodell	do	52.50
	J. A. Fisher	Flooring, etc.	29.50
	Jas. B. Johnson	do	87.44

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Apr. 24	Wyckoff & Shattuck	Meals, etc.	\$95.50
	W. E. Lawton	do	34.40
	C. H. Jones	Corn fodder	50.00
	Adams Bros	Lime, etc.	21.63
	Anton Olsen	Flooring, etc.	45.90
	Chas. A. Dudley	do	172.05
	Geo. E. Jones	do	109.20
	Chauncey B. Robbins	do	120.70
	E. & F. King & Co	Lime, etc.	396.41
	N. Ward Co	Services	10.00
25	O. E. Dyson	Expenses	21.10
	Thos. White	Traveling expenses	12.00
	David R. Hodges	do	6.50
	W. R. Fleming	do	8.95
	H. M. Rowe	do	9.00
	Matthias S. Lantz	do	5.50
	Archie H. Wallace	do	40.25
	Chas. B. Hutchinson	do	74.40
	Alex. E. Wight	do	120.69
	U. G. Houck	do	158.87
	Frank H. Burleigh	do	16.90
	E. L. Volgenau	do	39.28
	Raymond W. Graves	Services	4.00
	Jas. Harrington	do	3.00
	Henry Welsh	do	3.00
	D. J. Downey	do	3.00
	J. J. Hasson	do	3.00
	Frank Moore	do	3.00
	Patek, Judge	do	3.00
	F. A. Rowell	do	27.00
27	R. P. Andrews & Co. (Incorporated)	Paper	27.00
	Edw. S. Schmid	White mice	3.00
	Ledyard, Avery & Co.	Butter	8.85
	E. J. Brooks & Co.	Seals, etc.	58.00
	Tooie A. Geddes	Traveling expenses	131.12
	Levi Wells	do	129.70
	M. Imes	do	116.75
	Marion Dorset et al	Salaries	5,307.85
May 1	Clarence O. Durfee	Traveling expenses	160.21
2	B. F. Van Valkenburgh	Expenses	15.00
	Ed. H. Webster	Services	164.80
	W. D. Collyer	do	148.30
	Levi Wells	do	148.30
	M. W. Lang	do	148.30
	Virgil L. Brown	do	4.00
	Geo. M. Whitaker	do	123.60
	B. F. Van Valkenburgh	do	148.30
	P. Mann & Co	Shovel plow, etc	18.75
	Jno. E. Shore	Tires, etc.	9.00
	Chas. Hacker	Use horse, etc.	19.00
	H. J. Harwood	Rent of land	62.50
	Kellogg Switchboard & Supply Co	Desk stand	11.50
	Z. D. Gilman	Soap, etc.	23.75
	do	Beakers	23.71
	J. A. Skinner	Mare	22.50
	Jas. Pablo	Stallion	25.00
	W. A. Kortz	Mare	15.00
	T. G. Sellow	Desk, etc.	52.50
	H. H. Cheney	Meals, etc.	27.00
	J. F. Donahue	Use horse, etc.	24.00
	New Oxford Hotel	Meals, etc.	84.50
	A. H. Little	Horse hire	20.00
	J. A. Colby	Use horse, etc.	15.00
	Geo. L. Hooper	do	6.75
	Daniel A. Carleton	Service	5.00
	Marville Co	Lime	1.50
	Norris A. Dunklee	Use horse, etc.	21.00
	Albert Fales	For inoculation	3.00
	E. J. Davis	Brooms	3.25
	American Soapstone Finish Co	Lime	63.75
	H. M. Felch	Use horse, etc.	10.00
	G. W. Chandler	Meals, etc.	24.00
	W. J. Freeman	Horse, etc.	50.00
	McManus Bros	Service	64.50
	Phoenix Hotel	Meals, etc.	64.50
	Isaac Alger, jr	Hay, etc.	74.92
	C. B. Gilman	Meals, etc.	16.25
4	Wm. A. Baldwin et al	Salaries	598.98
	Saml. E. Bennett et al	do	2,225.23
	W. H. Rose et al	do	1,130.08
	Harry N. Waller et al	do	638.72

234 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
May 4	H. A. Hedrick et al	Salaries	\$468.00
	Geo. W. Pope et al	do	625.80
	Julius Huelsen et al	do	675.25
	Spotted Owl	Mare	7.00
	J. D. Richards	do	15.00
	W. C. Smoot	do	17.00
	Chas. Smalley	do	20.00
	Jno. Conroy	do	12.00
	L. D. Turner	do	50.00
	Nelson Shaugreaux	do	25.00
	Geo. P. Comer	do	15.00
	Patch. Condon	Services	97.26
	Northeastern Telephone and Telegraph Co	Service	128.96
	Wm. M. H. Seabrook	Services	52.00
	W. J. Kennedy	do	100.00
	Chas. F. Flocken	do	98.90
	Wm. P. Ellenberger et al	Salaries	189.60
	Edw. P. Doud et al	do	182.90
	Nathan K. Fegley et al	do	257.10
5	Henry P. Armsby et al	do	201.60
	F. W. Huntington et al	do	150.90
	Boyd Baldwin et al	do	657.90
	Lewis R. Baker et al	do	942.70
	Albert Dean et al	do	609.90
	Harry N. Waller et al	do	2,708.01
	Tookie A. Geddes	Services	164.80
	do	do	172.20
	Albert Dean	Expenses	5.43
	Geo. E. Bedell	Repairing chair	1.50
	American Soapstone Finish Co.	Lime	2.50
	G. L. Hooper	Use horse, etc	5.00
	Fuller Bros	do	12.00
	H. O. Chase	do	12.00
	Frank W. Loud	do	12.25
	W. H. Higgins	do	24.50
	Parker Bros	Bags, etc	28.45
	Frank E. Shaw	Use horse, etc	30.00
	S. L. Perry	do	43.50
	Frank Tucker & Co	Bags, etc	79.36
	do	Lime	1.30
6	Jno. Forbes et al	Salaries	3,112.60
	Jas. Johnston et al	do	1,832.83
	Jas. J. Brougham et al	do	1,486.60
	Louise Faust et al	do	26.36
	Albert E. Behnke et al	do	1,203.48
	Harrison H. George et al	do	839.00
	Chas. A. Schaufter et al	do	952.00
	Edw. P. Schaffter et al	do	629.40
	Geo. C. Faville et al	do	288.50
	Joshua Miller et al	do	257.10
	Jas. S. Kelly et al	do	190.85
	Richd. Blanche et al	do	182.90
	Fredk. Braginton et al	do	182.90
	F. D. Ketchum et al	do	1,063.10
7	A. G. G. Richardson et al	do	7,726.60
	Don. C. Ayer et al	do	3,978.54
	J. B. Clancy et al	do	3,289.65
8	O. E. Dyson et al	do	8,898.77
	Jas. Fleming et al	do	969.50
	Walter J. Stewart et al	do	3,778.95
	Barber & Ross	Tacks, etc	6.75
	do	do	4.25
	Z. D. Gilman	Paraffin	14.19
	Wm. M. Galt & Co	Meal and bran	224.15
	do	Oats, etc	1,628.50
	N. H. Shea	Soapine	.96
	W. G. Orr & Co	Pans	.40
	M. Lindsay Rubber Co	Rubber	.75
	do	Sheeting	.75
	Washington Gaslight Co	Gas	44.60
	Adams Express Co	Transportation	59.60
	Mackall Bros	Roach powder, etc	76.18
	The Chesapeake and Potomac Telephone Co	Service	4.20
	do	do	.30
	United States Express Co	Transportation	21.02
	Potomac Electric Power Co	Current	38.29
	Wyckoff, Seamans & Benedict	Paper	11.35
	Chas. R. Edmonston	Lock, etc	6.60
	J. D. Frazee	Towel service	14.47
	Columbia Liquid Air Co	Liquid air	5.00



Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
May 8	Jno. Mitchell, jr	Trap, etc	\$1.40
	Houghton & Delano	Solio, etc	7.04
	Postal Telegraph-Cable Co	Service	24.52
9	W. J. Brooks	Implements	21.15
	Lutz & Co	Lap robes, etc	20.00
	Jno. O. Bell	Services	72.00
	Jas. Hewes	do	72.00
	A. B. Morse et al	Salaries	182.90
	M. O. Anderson et al	do	182.90
	Robt. Darling et al	do	197.80
	Virgil L. Brown et al	do	2,399.50
	Bernhard P. Wende et al	do	1,850.28
	A. J. Hill et al	do	1,720.00
	Chas. C. McKeon	Services	60.00
	U. G. Houck	do	148.50
	Jas. J. Rieman	do	60.00
	Benj. J. Glavin	do	60.00
11	Wm. Thompson et al	Salaries	796.28
	Harry D. Paxson et al	do	852.00
	W. B. Niles et al	do	424.00
	Trajan A. Shipley et al	do	322.00
	Geo. Ditewig et al	do	272.00
	Wesley N. Niel et al	do	174.70
	Jos. M. Good et al	do	174.70
	Clarence Loveberry et al	do	392.20
	F. L. De Wolf et al	do	253.18
	W. H. Gibbs et al	do	158.20
	W. J. Murphy et al	do	197.80
	Chas. H. Zink et al	do	464.80
	Fredk. A. Ainsworth et al	do	289.75
	Louis K. Green et al	do	313.20
	Jno. McBirney	Services	131.90
	A. J. Pistor	do	115.40
	David C. Hanawalt	do	115.40
	Isaac W. O'Rourke	do	115.40
	R. A. Ramsay	do	115.40
	M. S. Lantz	do	115.40
	H. J. Hammond	do	115.40
	J. Otis Jacobs	do	115.40
	Jno. J. Hayes	do	115.40
	Frank C. Eells	do	115.40
	Arthur R. Glaisyer	do	115.40
	W. S. Cass	do	115.40
	Roy N. Drake	do	115.40
	Clinton H. Bugbee	do	115.40
	Geo. A. Bond	do	115.40
	Thos. White	do	115.40
	N. L. Townsend	do	115.40
	Warren Worcester	do	115.40
	N. B. Smith	do	115.40
	H. M. Rowe	do	115.40
	Walter E. Howe	do	115.40
	Russell G. Merrill	do	74.20
	F. O. Pettey	do	74.20
	Wm. Pflaeging	do	74.20
	W. R. Dennis	do	74.20
	Thos. Redmond	do	74.20
	A. J. Smith	do	74.20
	David R. Hodges	do	74.20
	Geo. S. Hickox	do	115.40
	A. A. Holcombe	do	123.60
	Murray J. Meyers	do	98.96
	F. W. Hopkins	do	115.40
	Willis B. Lincoln	do	115.40
	J. M. Turner	do	74.20
	Fredk. T. Dolan	do	50.00
	S. W. McClure	do	98.90
	Lowell Clarke	do	123.60
	Robt. H. Treacy	do	115.40
	Jno. McBirney	Traveling expenses	75.25
	A. J. Pistor	do	69.69
	Isaac W. O'Rourke	do	21.25
	R. A. Ramsay	do	64.25
	H. J. Hammond	do	81.75
	J. Otis Jacobs	do	29.15
	Jno. J. Hayes	do	59.00
	Frank C. Eells	do	6.75
	W. S. Cass	do	6.50
	Clinton H. Bugbee	do	36.00
	Geo. A. Bond	do	47.75

236 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
May 11	N. L. Townsend	Traveling expenses	\$16.20
	Warren Worcester	do	76.73
	Walter E. Howe	do	11.00
	F. O. Pettey	do	45.25
	Tooie A. Geddes	do	97.50
	Robt. H. Treacy	do	44.25
	W. S. Cass	Horse hire	34.00
12	D. Cumming	Services	60.00
	H. D. Mayne	do	98.90
	C. L. Morin	do	98.90
	F. M. Perry	do	115.40
	Harry F. Hume	do	59.30
	Thos. A. Bray	do	115.40
	Louis A. Klein	do	115.40
	Ernest J. Foreman	do	115.40
	Geo. W. Browning	do	115.40
	Geo. E. Totten	do	115.40
	C. A. Clawson	do	115.40
	Jas. W. Davis	do	74.20
	Geo. W. Butler	do	115.40
	W. E. Hill	do	98.90
	Dora Van N. Hosmer	do	12.37
	Laura D. Burke	do	13.19
	G. W. Ward	do	115.40
	Chas. Cowie	do	168.00
	Wm. E. Smith	do	90.00
	Wm. H. Wade	do	74.20
	Wm. R. Fleming	do	115.40
	Henry Walsh	do	15.00
	Wm. G. Shaw	do	115.40
	Arch. H. Wallace	do	115.40
	Leslie J. Allen	do	123.60
	Henry B. Adair	do	123.60
	Thos. Castor	do	123.60
	Lewis Metsker	do	115.40
	Frank W. Brewer	do	98.80
	Morey A. Sappington	do	98.80
	Wm. M. McKellar	do	98.80
	Peter I. Kershner	do	115.40
	C. A. McCall	do	98.90
	Dan McCunningham	do	98.90
	Wm. D. Jordan	do	98.90
	Jno. L. Burgett	do	98.90
	Western L. Johnson	do	98.90
	Geo. C. Moser	do	98.90
	Chas. A. Brown	do	74.20
	Harry L. McDonald	do	74.20
	Martha Schnell	do	16.48
	Katherine Welland	do	6.59
	Mae Searles	do	11.54
	Anna Klingel	do	17.31
	Tresey Cowen	do	13.19
	O. B. Hess et al.	do	191.20
	Niels C. Sorensen et al.	do	1,971.02
	Geo. S. Baker et al.	do	413.80
	Chas. Keane et al.	do	420.40
	Geo. P. McCabe	Traveling expenses	35.65
13	Wm. Lochte	Shoeing horses	10.75
15	Trustees of the Milk Street Trust	Rent	75.00
	Edw. S. Schmid	Feed	14.00
	Geo. D. Markham	Hogs	148.75
	Geo. E. Howard & Co.	Labels	1,600.00
	Chicago Car Seal and Manufacturing Co.	Tags	14.50
	Hooper, Lewis & Co.	Supplies	3.85
	do	Stationery, etc	6.05
	do	do	8.30
	do	do	10.84
	do	do	11.00
	do	do	12.25
	do	do	2.92
	Bay State Clean Towel Co.	Towel service	7.50
	St. Louis Union Stock Yards	Rent	50.00
	James Beggs & Co.	Supplies	11.85
	S. M. Birch Lumber Co.	Lumber, etc	45.56
	Chas. Hubinger	Supplies	7.98
	do	do	7.95
	Eimer & Amend	Laboratory material	42.93
	do	do	17.05
	The Friedenwald Co.	Inspection stamps	919.30
	W. Bartels	Rhesus monkeys	20.00

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## BUREAU OF ANIMAL INDUSTRY. SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
May 15	The Baker & Adamson Chemical Co .....	Fiber .....	\$1.80
	L. Cohen & Co .....	Solder .....	1.40
	Bausch & Lomb Optical Co .....	Chemicals .....	4.26
	E. A. de Schweinitz .....	Traveling expenses .....	25.00
	Toolie A. Geddes .....	do .....	101.02
	F. W. Bicknell .....	do .....	177.28
	Wm. D. Jordan .....	do .....	69.44
	H. Q. Thompson .....	do .....	127.78
	Albert N. Irwin .....	do .....	184.05
	Wilton F. Crewe .....	do .....	18.15
	H. H. George .....	Expenses .....	6.43
	A. G. Bibbs .....	Services .....	2.50
	Harmon A. Christman et al .....	Salaries .....	835.80
	E. N. Hutchinson et al .....	do .....	385.80
	J. C. Milnes et al .....	do .....	611.60
	Leonard Pearson .....	Services .....	200.00
	Jas. Irwin .....	do .....	82.40
16	M. Imes .....	Traveling expenses .....	142.79
	L. Enos Day .....	do .....	70.02
	Geo. M. Dishong .....	do .....	19.50
	Henry E. Brown .....	do .....	45.66
	S. E. Bennett .....	do .....	35.82
	Walter H. Hersey .....	do .....	64.67
	Geo. E. Wagner .....	do .....	19.30
	Frank L. Shipp .....	do .....	20.10
	Fred L. Stevens .....	do .....	26.74
	Thos. Coyle .....	do .....	43.70
	Ernest D. Everett .....	do .....	5.37
	Harry K. Walter .....	do .....	74.00
	F. D. Ketchum .....	do .....	35.85
	Louis Metsker .....	do .....	11.65
	C. L. Morin .....	do .....	14.25
	Russell G. Merrill .....	do .....	1.10
	Thos. Redmond .....	do .....	13.80
	Clarence A. Clawson .....	do .....	41.95
	Chas. Cowie .....	do .....	19.60
	Wm. F. Pflaeging .....	do .....	13.50
	Wm. C. Honan .....	do .....	16.85
	Willis B. Lincoln .....	do .....	15.00
	G. W. Ward .....	do .....	11.20
	W. B. Niles .....	do .....	4.10
	W. D. Collyer .....	do .....	77.98
	M. W. Lang .....	do .....	129.35
	Jas. Hewes .....	do .....	18.00
	Richard J. Blanche .....	do .....	4.65
	Geo. W. Pope .....	do .....	3.98
	Arthur B. Morse .....	do .....	11.21
	Allen A. Holcombe .....	do .....	28.38
	Hooper, Lewis & Co .....	Supplies .....	1.95
	Arthur W. Bryant .....	Horse hire .....	21.00
	Adams Bros .....	Lime .....	2.85
	G. C. Preston .....	do .....	3.60
	A. W. Hunt .....	Burying cattle .....	5.00
	P. W. Cunningham .....	Horse hire .....	7.00
	Jos. N. Murray .....	do .....	12.00
	Harry F. Tilden .....	do .....	17.50
	M. C. Baldwin .....	Calf .....	3.00
	J. A. Dodge .....	Horse hire .....	24.50
	Phoenix Hotel .....	Board .....	5.25
	P. W. Packard .....	Horse hire .....	12.25
	Saml. A. Fowle .....	do .....	40.50
	E. L. Lackey .....	do .....	10.50
	M. A. Reed .....	do .....	12.00
	Edwin Rice .....	do .....	7.00
	Chas. H. Peaslee .....	Calves .....	18.00
	B. F. Bascom .....	Burying cattle .....	505.40
	G. L. Hooper .....	Board of horse .....	13.50
	New England Telephone and Telegraph Co .....	Service .....	58.15
	Fred A. Schmidt .....	Paper .....	1.00
	Thos. Somerville & Sons .....	Plumbing material .....	9.00
	American Ice Co .....	Ice .....	27.44
	E. G. Schafer & Co .....	Pipe .....	.43
	F. P. Shea .....	Cattle .....	120.00
	F. A. Ketchum .....	Horse hire .....	25.00
	Russell G. Merrill .....	do .....	15.00
	Jas. J. Brongham .....	do .....	40.00
	Jas. Lone Elk .....	Bay mare .....	15.00
	Walter Corey Co .....	Desk .....	19.50
	I. H. Tourtellotte .....	Horse hire .....	32.00
	Chas. T. Holt .....	Wood .....	12.00

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
May 16	Shannon & Axtell	Feed	\$11.80
	Jas. W. Davis	Horse, etc	18.00
	Don C. Ayer	do	15.00
	Geo. W. Pope	Expenses	3.88
	W. H. Wade	do	42.00
	W. H. Rose	do	14.85
	Boyd Baldwin	do	5.12
	W. B. Niles	do	16.00
	A. G. G. Richardson	do	9.00
	F. Auerbach & Bro	Rent	30.00
18	Geo. S. Baker	Traveling expenses	6.90
	Ray N. Drake	do	56.50
	Arthur C. Hart	do	5.09
	Levi Wells	do	137.24
	Warren J. Fretz	do	68.95
	U. G. Houck	do	146.91
	E. A. de Schweinitz	Expenses	15.29
	S. O. Nichols	Diseased animals	113.40
	Chas. N. Peaslee	do	584.50
	J. G. Morse	do	256.90
	Daniel Jameson	do	238.00
	Edw. Rice	do	369.60
	J. A. Richards	do	28.00
	Jas. Thompson	do	931.00
	R. L. Childs	do	345.10
	H. O. Chase	do	1,316.70
	Arthur H. Little	do	1,047.90
	Wm. Krafft	Cover slips	5.10
	Library Bureau	Cards	16.90
	Chicago Car Seal and Manufacturing Co.	Tags	43.20
	Chadwick Copying Book Co.	Books	50.88
	Wm. E. Pratt	Hog rings	20.40
	American News Co.	Bone folders	1.55
	Chas. Keane	Horse hire	25.00
	Robt. Darling	do	25.00
	Albert E. Behnke	do	35.00
	Bay State Clean Towel Co.	Towel service	3.75
	Holy Rosary Mission	1 horse	25.00
19	McNally Bros	Horse, etc., hire	21.00
	Edwin Rice	Board, etc	36.75
	Jno. Ford	Horse hire	9.00
	Oliver Whyte & Co.	Wire cloth	2.53
	Jno. Ford	Horse hire	27.00
	Smith & Thayer Co.	Plumb mat	3.90
	do	do	24.55
	Houghton & Dutton	Suit case	7.00
	Edw. W. Hobart	Horse hire	22.75
	do	do	26.00
	G. C. Preston	Lime	3.00
	Calvert H. Playdon	Hire of horse and buggy	10.00
	Chas. S. Moore	do	21.00
	J. C. Barton	Board	44.25
	Burditt & Williams Co.	Hardware	2.75
	do	do	4.82
	Cutter & Cutter	Suit case	15.00
	G. L. Hooper	Board, etc	54.00
	do	do	24.00
	Franklin Rubber Co	Rubber goods	126.24
	do	do	269.12
	Geo. D. Markham	Hogs	148.75
	Jno. B. Sine	Horse hire	35.00
	A. P. Little	Supplies	5.10
	S. W. Burt	Horse hire	25.00
	Jno. C. Lorenzen	Horse, etc., hire	35.10
	O. E. Dyson	do	25.00
	Jas. R. Stafford	do	5.00
	Josephine Ponrier	Horse	20.00
	T. B. Miller	do	10.00
	Passiac Feed Co	Hay	10.68
	H. W. Mills & Co.	Supplies	10.75
	W. S. Cass	Horse and buggy	34.00
	S. E. Bennett	do	38.00
	W. H. Wray	Expenses	2.82
	Julius Huelsen	do	7.90
	Allen A. Holcombe	do	1.50
	S. E. Bennett	do	3.30
	William G. Shaw	Traveling expenses	3.40
	W. H. Wray	do	7.08
	A. R. Glaisyer	do	29.25
	W. H. Wray	Salary	375.00

## Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
May 19	Caroline Burnaby	Salary	\$40.00
20	E. T. Davison et al.	Salaries	865.95
	F. L. Russell	Salary	72.00
	New York Telephone Co.	Rent	19.75
	Geo. E. Howard & Co.	Labels	2,400.00
	D. Frank Parker	Supplies	84.35
21	R. Carter Ballantyne	do	37.19
	Lutz & Co.	Harness	35.00
	W. A. Gould	Burying cattle	25.00
	Sharp & Smith	Instruments	34.00
	Lens & Lossan	Syringes, etc.	5.25
	do	Instruments	9.50
	United States Envelope Co.	Envelopes	136.00
	F. P. May & Co.	Traps	.31
	Mackall Bros	Drugs	71.92
	G. F. Keefe	do	17.50
	R. F. Robinson	Horse, etc. hire	17.50
	A. P. Hadley	do	10.50
	M. E. Brigham	do	18.00
	Jno. F. Elkins	do	8.00
	Geo. A. Taylor	do	28.00
	A. W. Dow	do	16.00
	Frammingham Coal Co.	Lime	9.90
	Edw. M. Nichols	Horse hire	9.00
	Jno. Ford	do	21.00
	H. F. Haynes	do	15.00
	Cushing House	do	7.50
	L. W. Brewer	do	10.50
	McManus Bros	do	8.75
	Hotel Henniker	Board	28.00
	J. F. Ryder	Traveling expenses	30.00
	do	Services	164.80
22	Ames Plow Co.	Supplies	79.23
	Brighton Stock Yards Co.	Horse hire	20.83
	F. A. Rowell	Board, etc.	19.25
	O. F. Sage, jr.	Suit cases	35.75
	F. A. Rowell	Teaming, etc.	6.00
	Chas. H. Thwing	Use of horse and buggy	16.25
	Geo. Boynton	Teaming, etc.	7.00
	Revere Rubber Co.	Supplies	41.00
	McManus Bros	Use of horse and buggy	18.25
	B. L. Lockwood	Board, etc.	63.00
	Mrs. A. H. Wells	do	62.51
	Chas. Hacker	Horse hire	19.00
	Edison Electric Illuminating Co.	Lights	1.67
	Russell G. Lawton	Traveling expenses	34.88
	David S. Kanstoroom	do	56.22
	Ernest J. Foreman	do	22.65
	Jas. W. Parker	do	14.40
	Jno. L. Burgett	do	11.92
	Arthur B. Morse	do	5.88
	Chas. M. Day	do	28.75
	A. D. Melvin	do	81.90
	E. N. Hutchinson	do	4.95
	A. J. Pistor	do	1.50
	Walter E. Howe	do	10.50
	Matthias S. Lantz	do	9.00
	David R. Hodges	do	16.25
	Nathaniel B. Smith	do	12.50
	E. J. Brooks & Co.	Seals	35.15
23	E. C. Schroeder	Expenses	6.25
25	C. L. Beldon	Flooring, etc.	22.40
	Hamlet Wight	do	31.80
	D. E. Sherman	do	35.46
	A. J. Peters	do	5.00
	A. J. Connely	do	23.10
	W. L. Pickard	do	127.68
	T. S. Pingry	do	46.56
	S. W. Marshall	do	19.20
	Abijah G. Jones	do	255.25
	A. A. Hutchinson	do	13.70
	Monroe E. Adams	do	11.90
	E. J. Whitney	do	24.40
	Frank L. Howe	do	5.00
	Curtis W. Drew	Expenses	20.20
	Geo. W. Marshall	Flooring	38.32
	Benj. Derby	do	135.07
	W. A. Blodgett	do	64.45
	W. H. Hutt	do	61.78
	Ira H. Angell	do	15.00

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
May 25	Thos. Mattie	Flooring	\$14.50
	H. A. Carney	do	24.90
	Sarah E. Wheeler	do	71.92
	Jno. Mekkelsen	do	10.00
	Christian Larsen	do	58.55
	Geo. C. Fisher	do	14.57
	Chas. Melvin	do	79.23
	Wm. A. Phelps	do	45.20
	Alonzo Calkins	do	12.55
	Jas. Mattie	do	35.00
	Afraid of Eneny	Horse	10.00
	Her Plenty Horse	do	15.00
	Howard Bad Bear	do	15.00
	Trustees of the Milk Street Trust	Rent	75.00
	Wyckoff, Seamans & Benedict	Typewriter, etc	92.25
	Church & Stephenson	Lumber, etc	491.65
	H. A. Hedrick	Horse hire	12.50
	Jno. A. Kiernan	Traveling expenses	81.58
	Harry N. Waller	do	48.64
	Geo. T. Hanton	do	58.99
	Jno. P. O'Leary	do	65.81
	Chas. B. Hutchinson	do	85.68
	Harry Q. Thompson	do	94.35
	Frank W. Brewer	do	76.90
	Milton T. Perry	do	37.47
	Frank E. Pallitt	do	14.30
	Edw. C. Joss	do	5.05
	F. M. Perry	do	13.10
	Peter I. Kershner	do	17.80
	Chas. A. Brown	do	12.55
	W. L. Johnson	do	11.45
	Clinton H. Bugbee	do	32.10
	Geo. C. Moser	do	36.80
	Arch. H. Wallace	do	23.30
	B. F. Van Valkenburgh	do	18.25
	F. L. Russell	do	32.15
	Morey A. Sappington	do	33.60
	G. H. Parks	do	23.55
	Thos. White	do	23.75
	J. Otis Jacobs	do	33.90
	R. A. Ramsay	do	32.75
	F. O. Pettey	do	24.15
	Thos. Castor	do	71.20
	Louis A. Klein	do	39.45
	S. R. Burch	do	21.55
	Geo. M. Whitaker	do	29.90
	Warner Worcester	do	38.75
	J. B. Clancy	Expenses	8.00
	do	do	3.00
	Chas. C. McKeon	Services	28.00
	Geo. S. Hickox	do	57.69
23	Kny Scheerer Co.	Supplies	10.76
27	Wm. Read & Sons	do	5.15
	Cornelius Cronan	Horse hire	26.00
	D. C. Whittemore	do	18.00
	T. O. Sullivan	Flooring, etc	20.00
	Waldo H. Brownell	Horse hire	22.00
	Dexter B. Clark	Flooring, etc	12.00
	Fred. F. Walker	do	59.00
	E. G. Boynton	do	10.40
	Geo. L. Spear	do	40.15
	Jos. F. Lamson	do	11.33
	Edwd. De Young	do	5.00
	McManus Bros	Horse hire	3.00
	Geo. H. Wilson	do	5.50
	Fitz. H. Norseman	do	9.00
	Ridge Hill Farms	Flooring, etc	1,151.43
	A. M. Teal	do	325.00
	Berry & Furguson	Lime	373.75
	E. F. King & Co.	Lime, etc	208.05
	C. L. De Normandie	Flooring, etc	225.00
	H. Zoller	do	112.50
	Saml. Russell	do	35.30
	H. B. Read	do	39.00
	B. J. Adams	Horse hire	30.00
	Granite Rwy Co	Flooring, etc	14.60
	Edourd Casavant	do	50.00
	H. L. Newton	Hay, etc	27.50
	D. J. Cooney	Horse, etc	42.00
	do	Horse hire	22.75

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
May 27	Jas. C. Gould	Horse	\$30.00
	Jas. Wilson	do	17.50
	Jasper Birk	do	30.00
	Wm. Bicksler	do	25.00
	W. H. Robinson	Horses	80.00
	Johnson Bros.	do	35.00
	H. B. Smith	do	70.00
	Rudolph Hagel	do	25.00
	Jno. Steele	do	15.00
	Alex. Adams	do	20.00
	Tom Wilson	do	20.00
	Peter Mosier	do	17.50
	A. R. Wake	Traveling expenses	5.60
	Joshua Miller	do	4.50
	W. C. Pennywitt	do	19.10
	Rice P. Steddom	Service	137.80
	do	do	148.30
	Fred W. Ainsworth	Expenses	2.65
29	Geo. G. Markham	Horse	175.00
	Marion Dorset et al	Salaries	5,585.78
June 1	W. H. Saylor	Services	64.00
	Levi Wells	do	153.40
	Geo. M. Whitaker	do	127.80
	W. D. Collyer	do	153.40
	Ed. H. Webster	do	170.40
	B. F. Van Valkenburgh	do	153.40
	M. W. Long	do	153.40
2	Chas. F. Flocken	Traveling expenses	145.49
	Ira R. Atherton	do	48.99
	A. F. Martins	do	144.45
	Adolph Eichhorn	do	76.71
	Alex. E. Wight	do	169.17
	Jno. V. Laddey	do	120.25
	Harry M. Ball	do	108.46
	Thos. L. Rice	do	60.70
	Geo. A. Johnson	do	35.58
	Emerson J. Cary	do	52.56
3	New York Central and Hudson River R. R. Co.	Passenger transportation	21.30
	Michigan Central R. R. Co	do	19.00
	The Chicago, Burlington and Quincy R. R. Co.	do	5.55
	The Pullman Co	do	14.50
	Union Pacific R. R. Co	do	57.75
	Southern Pacific Co	do	38.15
	do	do	19.55
	The Pennsylvania R. R. Co.	do	27.00
	Morgan's Louisiana and Texas Railroad and Steamship Co.	do	8.35
	Murray J. Myers	Traveling expenses	60.22
	Warren J. Fretz	do	91.00
	Leslie J. Allen	do	50.00
	E. T. Davison	do	65.67
	Lowell Clarke	do	42.45
	Geo. S. Hickox	do	95.40
	Ed. H. Webster	do	61.02
	Frank W. Brewer	do	51.65
	David C. Hanawalt	do	40.80
	Jno. McBirney	do	90.75
	Wm. D. Jordan	do	81.13
4	Edw. P. Schaffter et al	Salaries	649.78
	Boyd Baldwin et al	do	720.60
	Albert E. Behnke et al	do	1,342.87
	Geo. C. Faville et al	do	298.00
	Fredk. Braginton et al	do	189.20
	F. W. Huntington et al	do	128.20
	Richd. J. Blanche et al	do	165.38
	Nathan K. Fegley et al	do	265.80
	H. A. Hedrick et al	do	484.00
	Julius Huelsen et al	do	678.00
	W. B. Ellenberger et al	do	190.80
	C. L. Morin	Services	102.20
	F. W. Hopkins	do	119.20
	Wm. G. Shaw	do	119.20
	Willis B. Lincoln	do	119.20
	Murray J. Myers	do	102.20
	R. H. Thomas	do	102.20
	Jos. M. Turner	do	76.60
	H. D. Mayne	do	102.20

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
June 4	Jas. S. Henry	Services	\$720.00
	Jos. O'Donnell	Use horse and buggy	12.50
	Adams Bros	Lime	29.47
	E. W. Pope	Flooring, etc	5.75
	S. L. Hammond	Calf	4.00
	Chas. H. Nichols	Use horse and buggy	10.50
	Edw. De Young	Cow	32.10
	Ten Finger	Mare	15.00
	H. M. Bindley	do	25.00
	J. P. Gardiner	do	55.00
	War Bonnet	do	15.00
	Mary Young Calf	do	10.00
	W. S. Reno	do	30.00
	Geo. Earnest	do	75.00
	Rough Feather	do	20.00
	Good Cheyenne	do	15.00
	Judson Reno	do	20.00
	Chas. Nebo	do	50.00
	J. C. Jordan	do	20.00
	Amos Red Owl	do	10.00
	Robt. H. Treacy	Traveling expenses	14.25
	Frank H. Burleigh	do	16.43
	Lewis Bullard	do	9.91
5	Wm. Thompson et al.	Salaries	497.50
	Samuel E. Bennett et al.	do	4,285.70
	Louis Able et al.	do	2,798.40
	Chas. A. Schaffer et al.	do	998.00
	Saml. E. Bennett	do	38.00
6	Jas. Johnson et al.	Use horse and buggy	
	Geo. W. Pope et al.	Salaries	1,911.89
	Harrison H. George et al.	do	1,052.23
	Wesley N. Neil et al.	do	867.00
	Edw. P. Doud et al.	do	180.60
	Jas. S. Kelly et al.	do	189.20
	Joshua Miller et al.	do	204.40
	T. A. Shipley et al.	do	265.80
	Lewis R. Baker et al.	do	340.41
	W. H. Rose et al.	do	439.00
	J. B. Clancy et al.	do	1,053.00
	Fredk. W. Ainsworth et al.	do	3,550.60
	Geo. Ditewig et al.	do	306.60
	F. L. De Wolf et al.	do	281.00
	W. J. Murphy et al.	do	265.80
	M. O. Anderson et al.	do	204.40
	Jas. M. Good et al.	do	189.20
	Marion Dorsett	do	180.60
8	Leslie J. Allen	Traveling expenses	75.35
	H. B. Adair	Services	127.80
	Thos. Castor	do	127.80
	Thos. A. Bray	do	127.80
	Louis A. Klein	do	119.20
	Ernest J. Foreman	do	119.20
	Louis Metsker	do	119.20
	Geo. E. Totten	do	119.20
	Geo. W. Browning	do	119.20
	Arch. H. Wallace	do	119.20
	Clarence A. Clawson	do	119.20
	Peter I. Kershner	do	119.20
	Wm. M. McKellar	do	102.20
	M. A. Sappington	do	102.20
	Frank W. Brewer	do	102.20
	Jno. L. Burgett	do	102.20
	Dan. McCuningham	do	102.20
	Geo. C. Moser	do	102.20
	Western L. Johnson	do	102.20
	C. A. McCall	do	102.20
	Wm. D. Jordan	do	102.20
	Harry L. McDonald	do	76.60
	Chas. A. Brown	do	76.60
	Don C. Ayer et al.	Salaries	3,893.92
	Jas. Fleming et al.	do	1,041.60
	L. K. Green et al.	do	325.60
	C. H. Zink et al.	do	480.40
	Wm. Thompson et al.	do	776.40
	H. A. Christman et al.	do	993.40
	F. D. Ketchum et al.	do	1,098.80
	Jas. J. Brougham et al.	do	1,536.80
	Bernhard P. Wende et al.	do	1,923.60
	Jno. Forbes et al.	do	3,228.39
	Albert Dean et al.	do	630.20



Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
June 9	A. G. G. Richardson et al .....	Salaries .....	\$8,059.40
	O. E. Dyson et al .....	do .....	9,245.51
	R. R. Letts .....	Services .....	69.23
	E. A. McDonald .....	do .....	144.00
	S. R. Burch .....	Traveling expenses .....	4.85
	Geo. D. Markham .....	Cattle .....	100.00
	Wyckoff, Seamans & Benedict .....	Paper .....	79.50
	W. H. Lacy .....	Services, etc .....	7.00
	Warren M. Whyte .....	Hood and pipe .....	19.00
	Densmore Typewriter Co .....	Repairing typewriter .....	25.00
	Washington Gaslight Co .....	Gas .....	37.90
	do .....	do .....	47.00
	Potomac Electric Power Co .....	Current .....	46.92
	The Chesapeake and Potomac Telephone Co .....	do .....	92.50
	Wagner Typewriter Co .....	Typewriter .....	87.50
10	Geo. M. Rommel .....	Traveling expenses .....	146.80
	do .....	do .....	141.29
	F. W. Bicknell .....	do .....	204.68
	J. Wm. Fink .....	do .....	197.96
	Jno. V. Laddey .....	do .....	152.00
	Ralf D. Stoughton .....	Service .....	34.00
	W. M. H. Seabrook .....	do .....	50.00
	U. G. Houck .....	do .....	133.40
	G. W. Ward .....	do .....	119.20
	Martha A. Brittan .....	do .....	16.48
	W. H. Saylor .....	do .....	32.00
	H. Inez Temple .....	do .....	18.13
	F. M. Parry .....	do .....	119.20
	Chas. Cowie .....	do .....	120.00
	Dean G. Cooper .....	do .....	119.20
	F. L. Russell .....	do .....	104.00
	Jas. Irwin .....	do .....	85.20
	W. H. Wade .....	do .....	76.60
	Jas. W. Davis .....	do .....	76.60
	Harry F. Hume .....	do .....	61.40
	Wm. J. Kennedy .....	do .....	125.00
	Geo. W. Butler .....	do .....	119.20
	Allen A. Holcombe .....	do .....	127.80
	Ellen S. Mayhew .....	do .....	18.13
	Agnes Chase .....	do .....	16.48
	Wm. E. Smith .....	do .....	90.00
	Jno. A. Bell .....	do .....	32.00
	Jas. Hewes .....	do .....	72.00
	Z. D. Gilman .....	Rubber bulbs, etc .....	62.45
	Mackall Bros .....	Iodide .....	2.85
	Barber & Ross .....	Sheet brass, etc .....	25.49
	Edwd. S. Schmid .....	Mice .....	3.00
	do .....	Feed .....	14.00
	Jas. B. Lambie Co. .....	Steel .....	.53
	W. H. Gibbs et al .....	Salaries .....	163.60
	Clarence Loveberry et al .....	do .....	372.63
	Harry D. Paxson et al .....	do .....	1,094.77
	Niels C. Sorensen et al .....	do .....	2,006.03
	Arthur B. Morse et al .....	do .....	189.20
	Ernest N. Hutchinson et al .....	do .....	487.60
11	Thos. Coyle .....	Traveling expenses .....	22.65
	Wm. C. Siegmund .....	do .....	79.80
	Andrew Hyde .....	do .....	112.33
	Jas. S. Henry .....	do .....	18.50
	do .....	do .....	91.63
	do .....	do .....	37.21
	do .....	do .....	19.55
	do .....	do .....	39.14
	W. R. Dennis .....	do .....	76.75
	Ray N. Drake .....	do .....	36.75
	Jno. J. Hayes .....	do .....	33.25
	A. R. Wake .....	do .....	33.05
	Chas. Cowie .....	do .....	30.65
	Lowell Clarke .....	do .....	28.75
	W. P. Ellenberger .....	do .....	24.30
	C. L. Morin .....	do .....	22.60
	W. M. McKellar .....	do .....	21.40
	H. M. Rowe .....	do .....	15.15
	H. D. Mayne .....	do .....	11.75
	Geo. M. Bettis .....	do .....	9.60
	Jno. Hoberg .....	do .....	5.40
	F. T. Dolan .....	do .....	2.25
	Allen A. Holcombe .....	Expenses .....	1.50
	Boyd Baldwin .....	do .....	5.12
	Walter J. Stewart et al .....	Salaries .....	2,257.27

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
June 11	Vergil M. Brown et al	Salaries	\$2,458.53
	Hervey T. Potter	Services	16.00
12	Geo. E. Wager	Traveling expenses	20.00
	H. Q. Tompson	do	45.65
	W. L. West	do	53.09
	E. T. Davison	do	99.15
	Harry N. Waller	do	119.47
	Rice P. Steddom	do	137.29
	U. G. Houck	do	148.73
	C. O. Durfee	do	162.97
	Albert N. Irwin	do	174.83
	D. E. Salmon	do	4.85
	Wm. C. Honan	do	18.55
	Andrew Hyde	do	85.30
	E. A. McDonald	do	117.55
	A. J. Pistor	do	88.78
	Jno. C. Parker	Pens	262.61
	Rudolph, West & Co.	Nails, etc.	34.20
	R. Carter Ballantyne	Knife blade	7.09
	W. B. Moses & Sons	Rug	3.22
	J. C. Milnes et al	Salaries	734.00
	Chas. Keane et al	do	734.20
	Geo. S. Baker et al	do	427.40
	Robt. Darling et al	do	204.40
	A. J. Pistor	Services	119.20
	Arthur R. Glaisyer	do	119.20
	H. J. Hammond	do	119.20
	Geo. A. Bond	do	119.20
	Jno. J. Hayes	do	119.20
	H. M. Rowe	do	119.20
	W. S. Cass	do	119.20
	R. A. Ramsay	do	119.20
	N. L. Townsend	do	119.20
	Robt. H. Treacy	do	119.20
	Thos. White	do	119.20
	Warren Worcester	do	119.20
	Lowell Clarke	do	119.20
	Jno. McBirney	do	119.20
	W. E. Hill	do	119.20
	Walter E. Howe	do	119.20
	J. Otis Jacobs	do	119.20
	Matthias S. Lantz	do	119.20
	Isaac W. O'Rourke	do	119.20
	Nathaniel B. Smith	do	119.20
	Roy N. Drake	do	119.20
	Frank C. Eells	do	119.20
	W. R. Fleming	do	119.20
	Geo. S. Hickox	do	61.54
	Morris T. Hascall	do	42.03
	Russell G. Merrill	do	76.60
	F. O. Pettey	do	76.60
	Wm. Pflaeging	do	76.60
	A. J. Smith	do	76.60
	David R. Hodges	do	76.60
	W. R. Dennis	do	76.60
	Thos. Redmond	do	76.60
	David C. Hannawalt	do	100.00
	S. W. McClure	do	102.20
	Jos. J. Reiman	do	62.00
	Benj. J. Glavin	do	62.00
	D. E. Salmon	Expenses	9.20
	do	do	92.17
	Geo. S. Hickox	do	6.00
	Ernest N. Hutchinson	do	16.00
	W. H. Rose	do	14.60
13	Harry N. Waller	Traveling expenses	141.76
	Patk. H. Mallowney	do	70.70
	do	do	84.65
	Wm. C. Siegmund	do	139.99
	Henry E. Brown	do	77.90
	Walter H. Hersey	do	66.03
	Fred L. Stevens	do	34.30
	Frank L. Shipp	do	20.95
	Jno. A. Kiernan	do	156.87
	A. F. Martins	do	143.18
	Andrew Hyde	do	131.54
	Russell G. Lawton	do	107.71
	Jno. P. O'Leary	do	102.24
	David S. Kanstoroom	do	99.12
	Milton T. Perry	do	52.44

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1903. June 13	Jno. McBirney	Traveling expenses	\$79.85
	H. M. Rowe	do	61.70
	David R. Hodges	do	32.00
	Lowell Clarke	do	47.75
	A. J. Smith	do	28.00
	W. S. Cass	do	23.80
	do	do	5.75
	Hervey T. Potter	do	6.15
	W. B. Niles et al	Salaries	432.00
	Henry P. Armsby et al.	do	191.80
	Clarence O. Durfee	Traveling expenses	151.33
	Rice P. Steddom	do	151.33
	Nathaniel B. Smith	do	3.00
	W. C. Pennywitt	do	23.70
	Murray J. Myers	do	6.85
	G. W. Ward	do	21.65
	Wm. G. Shaw	do	88.54
	H. H. George	Expenses	8.47
	W. B. Niles	do	13.00
	W. H. Wray	Services	387.50
	J. F. Ryder	do	170.40
	Cora A. Houseman	do	8.24
	Potomac Electric Power Co	Current	46.75
	American Ice Co	Ice	32.84
15	D. Cumming	Service	60.00
	P. Corliss	do	4.00
	H. M. Bell	Traveling expenses	100.37
	Emerson J. Cary	do	80.55
	W. E. Smith	do	8.97
	A. McBride	do	129.35
	W. D. Collyer	do	6.35
	B. F. Van Valkenburg	do	22.84
	Matthias S. Lantz	do	55.75
	Thos. Redmond	do	17.95
	H. D. Mayne	do	4.35
	A. J. Pistor	do	17.75
	M. W. Lang	do	151.87
	Alex. E. Wright	do	88.61
	G. A. Johnson	do	141.44
	Albert N. Irwin	do	157.97
	Ernest D. Everett	do	15.81
	Arthur R. Glaisyer	do	31.25
	Wm. R. Fleming	do	7.50
	Robt. H. Treacy	do	18.25
	A. J. Smith	do	64.35
	Walter E. Howe	do	19.00
16	F. Anerbach & Bro	Rent	30.00
	W. S. Goodhue	do	50.00
	St. Louis National Stock Yards	do	50.00
	Trustees of the Milk Street Trust	do	75.00
	do	do	75.00
17	W. H. Wray	Traveling expenses	9.18
	L. K. Green	do	3.95
	do	do	21.41
	L. R. Baker	do	5.95
	Jacob Leismann	do	6.30
	Geo. S. Baker	do	6.95
	Wm. Pflaeging	do	8.50
	N. L. Townsend	do	20.30
	J. F. Ryder	do	30.00
	Geo. W. Pope	do	4.55
	Levi Wells	do	91.99
	Wm. H. Timmons	do	4.90
	Wesley N. Neil	do	5.34
	R. A. Ramsay	do	9.75
	T. Byron Cracroft	do	11.50
	Jas. Hewes	do	19.83
	Geo. A. Bond	do	23.25
	E. N. Hutchinson	do	16.60
	F. M. Perry	do	26.20
	Chas. M. Day	do	39.20
	F. L. Russell	do	41.45
	Roy N. Drake	do	79.00
	A. D. Melvin	do	93.75
	Geo. M. Dishong	do	20.15
	S. E. Bennett	do	40.32
	L. Enos Day	do	74.96
	Adolph Eichhorn	do	93.39
	Chicago Car Seal and Manufacturing Co.	Tin tags	33.80
	Whitall, Tatum Co	Glass tubing	1.46

## 246 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
June 17	Whitall, Tatum Co	Beaker glasses	\$22.45
	Eimer & Amend	Bulbs, etc	21.90
	W. H. Wray	Expenses	5.11
	L. K. Green	do	1.00
	Saml. E. Bennett	do	2.80
	Geo. W. Pope	do	6.00
	Julius Huelson	do	18.50
	Ernest N. Hutchinson	do	33.75
18	Ira K. Atherton	Traveling expenses	101.98
	H. Haywood	do	10.05
	A. G. G. Richardson	Expenses	8.50
	Caroline Burnaby	Services	40.00
	Geo. E. Howard & Co	Vaccine envelope	118.25
	do	Label boxes	112.50
	do	Labels	1,216.00
	do	do	2,784.00
19	W. R. Dennis	Traveling expenses	85.00
	Henry E. Alvord	do	49.90
	R. H. Thomas	do	6.00
	Thos. White	do	9.50
	Peter I. Kershner	do	11.15
	R. H. Thomas	do	19.75
	Jno. L. Burgett	do	27.40
	Geo. S. Hickox	Expenses	7.00
	Granite Rwy. Co.	Cattle	280.00
	E. P. Goss	do	758.80
	Wm. Wheeler	do	220.40
	New England Telephone and Telegraph Co.	Service	39.15
	Cyrus Leonard	Horse hire	18.00
	Macdonald's Stable	do	25.00
	Wm. H. Hutchins	do	22.75
	Chas. M. Barry	do	8.00
	Adams Brós	Lime	6.00
	Maguire & Kerrick	Horse hire	12.00
	W. W. Clafin	do	19.25
	Edw. C. Purham	do	12.25
	A. M. Ross	Calf	7.00
	Carrol E. White	Horse hire	12.25
	R. H. Hanson	Teaming	8.00
	G. C. Preston	Lime	4.50
	E. E. Cook	Horse hire	19.25
	Henry F. Pellett	do	15.00
	C. M. Boyce Son	Teaming, etc	9.00
	Chas. Davis	Use horse and buggy	14.00
	Geo. H. Cross	do	7.00
	Jas. H. Sparks	do	8.75
	W. J. Haskell	do	11.90
	Jas. J. O'Brien	do	10.50
	Chas. McCarthy	do	10.50
	H. C. Dale	Horses	65.00
	Leo. G. Wood	Horse	10.00
	H. B. De Witt	do	30.00
	Thos. Petty	do	15.00
	Edmund Petty	do	35.00
	Lizzie O'Rourke	Horses	40.00
	Arthur Osmotherly	do	12.50
	Chas. Hacker	Horse hire, etc	19.00
	Miles W. Barney & Bro	Horses	400.00
	The Friedenwald Co	Stamps	178.35
	W. Bartels	Monkeys	15.00
	Mrs. E. F. Arnold	Horse	30.00
	F. D. Ketchum	Horse hire	25.00
	Gulf Refining Co	Oil	32.16
	Chas. Lentz & Sons	Repairing knife	2.50
	The American Distilling Co	Alcohol	22.33
20	The Hoggson & Pettis Manufacturing Co.	Copying bath	5.06
	N. W. Chappell	Painting	284.00
	Mark C. Rich	Stallion	45.00
	Chas. Keane	Use horse, etc.	25.00
	The J. A. Van Winkle Co.	Pipe	49.13
	W. M. Lawson	Repairing cart	9.05
	A. W. Means	Mare	25.00
	H. B. Kesse	Seed	5.18
	Wm. Lochte	Shoeing horse	14.25
	Don C. Ayer	Use of horse	15.00
	Jas. J. Brougham	Use of horse, etc	40.00
	Jas. W. Davis	do	18.00
	Crook-Harner Co.	Repairing pump	6.17
	J. W. Garner	Mare	15.00

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## BUREAU OF ANIMAL INDUSTRY. SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
June 20	Very Good.....	Mare.....	\$20.00
	Iron White Man.....	do.....	15.00
	No Ears.....	do.....	12.50
	W. E. Pratt.....	Hog rings.....	93.10
	Robt. Darling.....	Use horse and buggy.....	25.00
	R. G. Merrill.....	do.....	15.00
	Dennison Manufacturing Co.....	Tags.....	9.52
	W. M. Lawson.....	Horse shoeing.....	6.75
	W. S. Cass.....	Use horse and buggy.....	34.00
	A. E. Behnke.....	do.....	35.00
22	E. T. Davison et al.....	Salaries.....	988.68
	Thos. L. Rice.....	Traveling expenses.....	90.20
	Morey A. Sappington.....	do.....	21.50
	Ed. H. Webster.....	do.....	82.16
	Isaac W. O'Rourke.....	do.....	78.45
	W. R. Dennis.....	do.....	90.75
	Warren J. Fritz.....	do.....	83.70
	Jas. W. Parker.....	do.....	32.25
	Dan McCuningham.....	do.....	30.83
	Arch. H. Wallace.....	do.....	29.70
	Clarence A. Clawson.....	do.....	20.40
	W. M. MacKellar.....	do.....	19.95
	Jas. L. Gerrish.....	do.....	12.25
	W. H. Saylor.....	do.....	9.75
	Jno. A. Sloan.....	do.....	6.50
	Western L. Johnson.....	do.....	4.75
	Morris T. Hascale.....	do.....	4.50
	Jas. Rielly.....	Livery.....	15.00
	H. A. Spear.....	do.....	35.00
	E. A. Morrell.....	Burying cattle.....	311.00
	Daniel S. Jones.....	Livery.....	14.00
	Benj. D. Pierce.....	do.....	6.00
	Thos. Bryant.....	Teaming.....	8.00
	Augustus C. Seagrave.....	Livery.....	21.00
	E. L. Frost & Co.....	do.....	19.50
	Chas. H. Paquin.....	do.....	29.75
	H. H. Simons.....	Teaming, etc.....	30.45
	McNally Bros.....	Livery.....	21.00
	Frank W. Adams.....	Hay, etc.....	674.51
	Erwin A. Edson.....	do.....	225.75
	C. N. Tolles.....	do.....	466.83
	E. A. Morrell.....	Flooring, etc.....	33.80
	Wm. Wheeler.....	do.....	75.40
	Mrs. A. H. Wells.....	do.....	86.30
	E. M. Farr.....	do.....	94.50
	Geo. A. Farr.....	do.....	75.20
	W. P. Baldwin.....	do.....	8.60
	Oren E. Walker.....	Livery.....	21.00
	D. A. B. Ayer.....	Flooring, etc.....	12.50
	Solon R. Dodge.....	Livery.....	24.50
	J. A. Merriam.....	Cattle.....	193.00
	F. I. Ordway.....	do.....	430.08
	do.....	Flooring, etc.....	139.40
	J. A. Merriam.....	do.....	25.50
	H. W. Pillsbury.....	Livery.....	28.50
	Abel H. Gleason.....	Calf.....	5.00
	C. E. Sawyer.....	Livery.....	24.50
	Geo. W. D. Emerson.....	Calf.....	7.50
	Chas. M. Berry.....	Livery.....	16.00
	The Paterson Wagon Co.....	Harness.....	40.70
	Biddell & Bogart Painters' Supply Co.....	Repairs.....	13.97
	The Anderson Lumber Co.....	Cement.....	42.50
	do.....	do.....	35.00
	S. M. Birch Lumber Co.....	Lumber.....	31.92
	O. E. Dyson.....	Horse hire.....	25.00
	Jno. C. Lorenzen.....	Horse and wagon hire.....	33.75
	Jno. B. Sine.....	do.....	35.00
	S. W. Burt.....	Horse hire.....	25.00
	Stockyard Hardware and Paint Co.....	Supplies.....	3.20
	Geo. E. Bedell.....	Repairs.....	4.50
	C. J. McCubbin Co.....	Valve.....	16.00
	Geo. D. Markham.....	Hogs.....	148.75
23	Chas. A. Brown.....	Traveling expenses.....	34.85
	Louis A. Klein.....	do.....	29.50
	Geo. E. Totten.....	do.....	27.20
	Leslie J. Allen.....	do.....	51.70
	M. Jones.....	Traveling expenses.....	131.12
	J. Wm. Fink.....	do.....	196.59
	Rice P. Steddum.....	Services.....	153.40
	L. E. Cornell.....	do.....	10.00

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
June 23	The Western Union Telegraph Co.	Service	\$6.47
	Harvey Farr	Use horse and buggy	4.50
	Jas. Murray	do	21.00
	S. B. Center	do	15.00
	Geo. R. Dodge	do	10.50
	Henry Alley	do	6.00
	B. T. McGlanflin	do	17.50
	H. A. Marshall	do	14.00
	Fred Corliss	do	12.00
	Fred. M. Burnham	do	11.00
	David Warren	do	10.50
	Jasper J. Smart	do	20.00
	W. A. Feltt	Hay, etc.	13.80
	Eugene L. Wildes	Use horse and buggy	9.00
	Francis Miller	Drop black	1.20
	Hugh Reilly	Turpentine	8.60
	National Electrical Supply Co.	Hard rubber	4.20
	do	Battery zincs	2.88
	Southern Rwy. Co.	Passenger transportation	38.75
	S. P. Johnson	Repairing typewriter	25.00
	E. Morrison Paper Co	Paper	12.25
	Western Union Telegraph Co	Service	32.76
	Z. D. Gilman	Oil, etc	90.03
	Thos. Somerville & Sons	Plug	.15
	do	Pump and solder	7.21
	Rudolph, West & Co	Oiler, etc	38.13
	Jas. B. Lambie	Hammer and zinc	3.74
	Chas. Becker	White lead	56.00
	Bausch & Lomb Optical Co.	Files, etc	49.60
	E. J. Brooks & Co	Seals	46.25
	J. R. Stafford	Use horse and wagon	5.00
	Geo. B. Carpenter Co	Shaft block, etc	2.13
24	Geo. S. Hickox	Traveling expenses	164.15
	Jno. J. Hayes	do	56.05
	Arthur R. Glaisyer	do	46.70
	Allen A. Holcombe	do	16.91
	Frank W. Brewer	do	77.85
	Geo. C. Moser	do	47.25
	Louis Metzker	do	47.25
	J. B. Clancy	Expenses	74.75
	do	do	8.00
	E. C. Schroeder	do	2.80
	O. B. Hess et al.	Salaries	157.96
	Edison Electric Illuminating Co	Current	2.00
	American Tag Co	Tags	220.00
	Chicago Car Seal and Manufacturing Co.	do	193.20
	American Tag Co	do	11.00
	Lammert Furniture Co.	Table	19.00
	Taylor & Manahan	Desk	45.17
	Geo. E. Howard & Co.	Boxes	112.50
	The Chicago, Burlington and Quincy Rwy. Co.	Passenger transportation	6.56
	Chicago, Rock Island and Pacific Rwy. Co.	do	17.00
	Burlington and Missouri River R. R.	do	43.65
	do	do	9.25
	Maricopa, Phoenix and Salt River Valley R. R. Co.	do	2.10
	do	do	2.10
	Union Pacific R. R. Co	do	59.54
	The Wabash R. R. Co	do	15.50
	Denver and Rio Grande R. R. Co	do	24.00
	International Mercantile Marine Co	do	105.00
	Atlanta, Knoxville and Northern Rwy.	do	3.70
	Chicago, Indianapolis and Louisville Rwy. Co.	do	8.00
	Michigan Central R. R. Co	do	44.00
	Pittsburg, Cincinnati, Chicago and St. Louis Rwy. Co.	do	22.00
	Great Northern Rwy. Co	do	7.73
	Baltimore and Ohio R. R. Co.	do	17.00
	The Pullman Co.	do	10.00
	Pennsylvania R. R. Co.	do	45.65
	do	do	20.00
	do	do	10.00
	do	Transportation	10.75
	The Atchison, Topeka and Santa Fe Rwy. Co.	Passenger transportation	2.15
	Northern Pacific R. R. Co.	do	11.50
25	Illinois Central R. R. Co.	Transportation	2.82
	Pennsylvania R. R. Co.	do	3.35

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1903, June 25	Pennsylvania R. R. Co. ....	Transportation .....	\$0.35
	Boston and Maine R. R. Co. ....	do .....	1.13
	New York, New Haven and Hartford R. R. Co. ....	do .....	2.10
	Chicago, Rock Island and Pacific Rwy. Co. ....	do .....	14.60
	Missouri Pacific Rwy. Co. ....	do .....	1.51
	Cincinnati, Hamilton and Dayton Rwy. Co. ....	do .....	4.03
	Lehigh Valley R. R. Co. ....	do .....	.70
	Burlington and Missouri River R. R. Chicago and Alton Rwy. Co. ....	do .....	4.16
	do .....	do .....	.75
	do .....	do .....	6.69
	do .....	do .....	.99
	Chicago and Northwestern Rwy. Co. ....	Passenger transportation .....	41.75
	do .....	do .....	9.80
	do .....	do .....	8.35
	St. Louis and San Francisco R. R. Co. ....	do .....	19.40
	Chicago and Alton Rwy. Co. ....	do .....	4.50
	Pennsylvania R. R. Co. ....	do .....	68.00
	do .....	do .....	38.70
	St. Joseph and Grand Isle Rwy. Co. ....	do .....	2.97
	Baltimore and Ohio R. R. Co. ....	do .....	28.00
	The Chicago, Burlington and Quincy R. R. Co. ....	do .....	25.34
	The Chesapeake and Potomac Telephone Co. ....	Service .....	.50
	Church & Stephenson .....	Lumber .....	135.00
	I. P. Roosa .....	Expenses .....	19.00
	E. A. de Schweinitz .....	do .....	20.29
	F. W. Bicknell .....	Services .....	250.00
	do .....	do .....	250.00
	do .....	Traveling expenses .....	250.00
	J. Otis Jacobs .....	do .....	104.25
26	Frank H. Burleigh .....	do .....	17.33
	American Writing Machine Co. ....	Chairs .....	15.00
	Barber & Ross .....	Wheel dressers .....	1.15
	Bartlett & Butler .....	Hay, etc .....	57.13
	Fred F. Lane .....	do .....	56.88
	L. F. Gould .....	Services .....	50.75
	E. L. Connor .....	Hay, etc .....	33.50
	Walter J. Haskell .....	Use horse and buggy .....	19.60
	T. S. Burns .....	Hay, etc .....	89.00
	Jas. A. Andrews .....	do .....	24.00
	The Lake Shore and Michigan Southern Rwy. Co. ....	Passenger transportation .....	22.00
	Jno. V. Laddey .....	Traveling expenses .....	149.53
	Geo F. Hanton .....	do .....	56.16
	H. A. Hedrick .....	Use horse and buggy .....	10.00
	The Paterson Wagon Co. ....	Cart .....	50.00
	G. A. Monington .....	Tinning roof .....	27.00
	The Anderson Lumber Co. ....	Lumber .....	35.00
	J. S. Woodhouse .....	Plow, etc. ....	23.40
	F. J. Marley .....	Trap rock .....	45.00
	Jas. K. Probey .....	Wagon .....	140.00
	Geo. E. Howard & Co. ....	Labels .....	2,400.00
30	Geo. M. Whitaker .....	Services .....	123.60
	Levi Wells .....	do .....	148.30
	M. W. Lang .....	do .....	148.30
	W. D. Collyer .....	do .....	148.30
	B. F. Van Valkenburgh .....	do .....	148.30
	Ed. H. Webster .....	do .....	164.80
	F. W. Bicknell .....	do .....	250.00
	Marion Dorsett et al. ....	Salaries .....	5,552.56
	Total fourth quarter .....		363,621.78
	<i>Supplemental.</i>		
July 1	Eastern Drug Co. ....	Corros. sub. tablets .....	80.25
	do .....	Carbolic acid .....	579.50
	W. M. Galt & Co. ....	Corn, etc .....	426.75
	do .....	Meal, etc .....	1,145.65
	Z. D. Gilman .....	Borax, etc .....	60.45
	L. G. Orndorff .....	Harrow .....	8.00
	Wyckoff, Seamans & Benedict .....	Typewriter .....	87.75
	Jas. Hawkins .....	Use of horse .....	45.00
	do .....	do .....	17.50
	Joseph Allen .....	Mare .....	41.00
	Fred H. Sears .....	do .....	20.00
	Quiver (Indian) .....	do .....	17.50
	Alex. Lebuff .....	do .....	63.00

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## BUREAU OF ANIMAL INDUSTRY. SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
<i>Supplemental—Continued.</i>			
1903. July 1	Henry Moore	Mare	\$10.00
	S. A. Bryant	do	25.00
	Stephe Arriotte	do	100.00
	Geopprey Chipps	Stallion	70.00
	Sam Smith	Mare	20.00
	E. D. Prescott	do	55.00
	Jos. Richards	do	50.00
	Geo. Patton	Use of horse	25.00
	Edw. White Crow	Mare	15.00
	Levi Long Bull	Stallion	10.00
	F. C. Eells	Services	115.40
2	Black Hawk	Stallion	7.50
	Fred Raberson	Mare	15.00
	Ben Mills	do	20.00
	Agnes Manteau	do	15.00
	Edgar Fire Thunder	Mare and stallion	90.00
	J. J. Peck	Mare	12.00
	Geo. H. Pruden	do	15.00
	Geo. B. Brown	do	83.00
	Wm. Shangran	do	20.00
	L. Fisher	do	25.00
	Wm. Calkins	do	20.00
	Jas. Mousseau	do	15.00
	Lucy American Horse	do	10.00
	Thos. Bowman	do	8.00
	Wm. A. Porsch	do	20.00
	Red Horse	do	18.00
	Chas. Rooks	do	10.00
	Chas. Hurbinger	Horse washers, etc.	25.83
	Jennie La Point	Mare	10.00
	J. W. Crowe	do	15.00
	Peter Richard	do	10.00
	Orlando Clifford	do	18.00
	Lena Standing Bear	do	10.00
	Sam Allen	do	20.00
	Chas. Dubray	do	12.00
	Wm. Young	do	50.00
	Ben Claymore	do	32.00
	E. G. Ward	do	15.00
	Vincent Sears	do	25.00
	Jas. Rooks	do	83.00
	Little Bull	do	10.00
	Wounded Bear	do	15.00
	Joseph Fast Horse	do	20.00
	Whirlwing Horse	do	15.00
	Jno. Mesteth	do	30.00
	Asay Pumpkin Seed	do	30.00
	Mary White	do	25.00
	Jacob Bingham	do	40.00
	Pretty Hip	do	15.00
	Her Plenty Horse	Mare and stallion	210.00
	Henry Red Shirt	Mare	18.00
	Mrs. Dog	do	30.00
	Susan Kutepi	do	15.00
	Oliver Good Shield	do	20.00
	Jas. Kocer	do	40.00
	Comes Back at Night	do	40.00
	Moves Camp	do	10.00
	Baptiste Pourier	do	25.00
	Little Dog	do	15.00
	Shield, sr	do	20.00
	J. J. Borse	do	50.00
	Chas. Cuny	do	30.00
	Isaac Tuttle	do	20.00
	Jno. Bird Head	do	20.00
	Edw. Twotwo	do	20.00
	Bear Comes to Lay Down	do	10.00
	Sits Poor	do	10.00
	White Wolf	do	10.00
	Chicago Car Seal and Manufacturing Co.	Tags	48.48
	The Peterson Wagon Co.	Cart	18.00
	E. T. Davison	Expenses	22.25
	do	Traveling expenses	93.96
6	F. W. Bicknell	Services	250.00
	Chas. A. Schaufler et al.	Salaries	968.00
	Albert E. Behnke et al.	do	1,270.21
	E. P. Schaffter et al.	do	641.27
	Benhard P. Wende et al.	do	1,899.60
	Granville H. Parks	Services	131.90



Expenditures of Department of Agriculture for year ending June 30, 1903—Cont d.

## BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
	<i>Supplemental—Continued.</i>		
1903, July 7	Samuel E. Bennett et al.	Salaries	\$4,134.23
	Jas. Johnson et al.	do	1,898.00
	Nathan K. Fegley et al.	do	257.10
	Boyd Baldwin et al.	do	697.20
	H. A. Christman et al.	do	234.00
	Louis Abel et al.	do	2,748.20
	Fredk. Braginton et al.	do	182.90
	Geo. C. Faville et al.	do	288.50
	Edwd. P. Dowd et al.	do	182.90
	F. W. Huntington et al.	do	132.90
	W. J. Erooke	Harrow, etc.	13.50
	Geo. F. Muth & Co.	Asphaltum	1.65
8	E. A. de Schweinitz	Expenses	12.65
9	Ephraim P. Goss	Hay, etc.	79.97
	Dan McCunningham	Traveling expenses	37.95
	Ernest J. Foreman	do	53.50
	F. O. Pettey	do	62.25
	Clinton H. Bugbee.	do	117.00
	I. W. O'Rourke	do	114.50
	Jos. J. Rieman	Services	60.00
	Benj. J. Glavin	do	6.00
	W. M. H. Seabrook	do	52.00
	Rice P. Steddum	do	148.30
	Jas. Irwin	do	82.40
	Thos. J. Lowery	do	78.58
	Jno. C. Massie	do	78.58
	Matthew A. Farley	do	78.58
	Wm. Proudfoot	do	78.58
	Clayton E. Moss	do	78.58
	Wm. H. Wade	do	74.20
	Harry F. Hume	do	59.30
	M. S. Lantz	do	115.40
	H. M. Rowe	do	115.40
	Lowell Clarke	do	123.60
	A. J. Pistor	do	115.40
	N. B. Smith	do	115.40
	H. J. Hammond	do	115.40
	Willis B. Lincoln	do	115.40
	Wm. B. Shaw	do	115.40
	F. W. Hopkins	do	115.40
	Murray J. Myers	do	98.90
	Jos. M. Turner	do	74.20
	C. L. Morin	do	98.90
	H. D. Mayne	do	98.90
	D. Cumming	do	70.00
	Roy N. Drake	do	115.40
	J. Otis Jacobs	do	115.40
	David C. Hanawalt	do	115.40
	Thos. White	do	115.40
	Geo. W. Butler	do	115.40
	G. W. Ward	do	115.40
	F. M. Perry	do	115.40
	W. J. Kennedy	do	125.00
	F. L. Russell	do	16.00
	Geo. S. Hickox	do	115.40
	Warner Worcester	do	115.40
	Jno. McBirney	do	131.90
	Morris T. Hascall	do	74.20
	F. O. Pettey	do	74.20
	Isaac W. O'Rourke	do	115.40
	Walter E. Howe	do	115.40
	W. S. Cass	do	115.40
	N. L. Townsend	do	115.40
	R. A. Ramsay	do	115.40
	Jno. J. Hayes	do	115.40
	A. R. Glaisyer	do	115.40
	W. R. Fleming	do	115.40
	Robt. H. Treacy	do	115.40
	Geo. A. Bond	do	115.40
	Clinton H. Bugbee	do	115.40
	Peter J. Kershner	do	123.60
	H. B. Adair	do	123.60
	Leslie J. Allen	do	123.60
	Thos. A. Bray	do	123.60
	S. W. McClure	do	98.90
	Horace H. Collins	do	98.90
	David R. Hodges	do	74.20
	A. J. Smith	do	74.20
	W. Pflaeging	do	74.20

## 252 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
<i>Supplemental—Continued.</i>			
1903. July 9	Russell G. Merrill	Services	\$74.20
	Thos. Redmond	do	74.20
	W. R. Dennis	do	74.20
	Dan McCunningham	do	98.90
	W. D. Jordan	do	98.90
	Geo. C. Moser	do	98.90
	Frank W. Brewer	do	98.90
	Jno. L. Burgett	do	98.90
	W. L. Johnson	do	98.90
	M. A. Sappington	do	98.90
	C. A. McCall	do	98.90
	Geo. W. Browning	do	115.40
	Clarence A. Clawson	do	115.40
	Louis Metzger	do	115.40
	Louis A. Klein	do	115.40
	Wm. M. MacKellar	do	115.40
	Jno. A. Sloan	do	115.40
	A. H. Wallace	do	115.40
	Geo. E. Totten	do	115.40
	Ernest J. Foreman	do	115.40
	Chas. A. Brown	do	74.20
	Harry L. McDonald	do	74.20
	H. A. Hedrick et al	Salaries	468.00
	Henry P. Armsby et al.	do	186.60
	W. H. Rose et al	do	1,162.75
	Julius Huelsen et al	do	656.00
	Geo. W. Pope et al	do	1,395.79
	W. B. Ellenberger et al.	do	184.60
	Albert Dean et al.	do	636.24
	N. C. Sorensen et al.	do	1,956.69
	W. H. Gibbs et al	do	158.20
	Joshua Miller et al	do	257.10
	M. O. Anderson et al.	do	125.23
	Wm. Thompson et al.	do	809.17
	Don C. Ayer et al.	do	3,627.51
	Jno. Forbes et al.	do	3,700.79
	W. B. Niles et al	do	439.00
	H. H. George et al	do	839.00
	Lewis R. Baker et al	do	1,036.60
	Izetta A. Bell et al	do	29.70
	Richard J. Blanche et al	do	182.90
	L. K. Green et al.	do	321.20
	F. L. De Wolf et al	do	257.10
	Geo. Ditewig et al	do	272.00
	Jos. M. Good et al.	do	174.70
	W. J. Murphy et al	do	197.80
	Wesley N. Neil et al.	do	174.70
	Pensacola Exponent	Advertising	2.52
	The Ohio State Journal Co	do	2.53
	Sacramento Publishing Co	do	3.49
	do	do	4.00
	The Morning Olympian	do	1.00
	do	do	1.20
	Tribune Publishing Co	do	1.68
	The Advertiser Co	do	1.19
	The Hartford Times	do	1.90
	Nebraska State Journal	do	2.06
	do	do	1.90
	Republican Publishing Co.	do	2.30
	do	do	1.75
	New Mexico Printing Co	do	1.70
	do	do	1.70
	The Republican Pub. Co.	do	1.90
	The Patriot Co	do	2.00
	The Sentinel Printing Co	do	1.90
	Kennebec Journal	do	1.25
	do	do	1.38
	The Evening Call	do	2.60
	Dunn & Lemmon	do	1.57
	The Lansing Journal Co	do	2.20
	Oklahoma State Capital	do	1.35
	The State Co.	do	2.10
	The Times-Dispatch	do	1.20
	Oregon Statesman	do	2.30
	do	do	2.00
	The Evening News Publishing Co.	do	7.60
	Vicksburg Herald	do	2.85
	do	do	3.14
	Nashville Banner	do	1.33

## Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
<i>Supplemental—Continued.</i>			
1903.			
July 9	Nashville Banner	Advertising	\$1.26
	Arizona Publishing Co.	do	2.10
	Arizona Republican	do	2.40
	Independent Publishing Co.	do	1.80
	The Evening Argus	do	1.00
	The Register and Leader	do	1.24
	The Southern Forum	do	2.16
	The Tribune	do	2.42
	do	do	2.09
	Gammel Statesmen Publishing Co.	do	4.00
	Times Publishing Co.	do	2.32
	Wyoming Tribune	do	1.92
10	A. G. G. Richardson et al.	Salaries	6,847.13
	F. D. Ketchum et al.	do	1,000.46
	J. C. Milnes et al.	do	707.20
	Ernest N. Hutchinson et al.	do	533.26
	Robt. Darling et al.	do	197.80
	A. B. Morse et al.	do	182.90
	Clarence Loveberry et al.	do	392.20
	Trojan A. Shipley et al.	do	351.30
	Chas. Keane et al.	do	443.48
	Geo. S. Baker et al.	do	413.80
	J. B. Clancy et al.	do	3,626.42
	Jas. J. Brougham et al.	do	1,597.44
	Harry D. Paxson et al.	do	1,065.99
	F. W. Ainsworth et al.	do	310.57
	Chas. H. Zink et al.	do	464.80
9	J. S. Kelly	do	197.80
	Jas. W. Davis	Services	74.20
	Dean G. Cooper	do	115.40
10	H. R. McNally	do	98.90
	W. E. Hill	do	98.90
	U. G. Houck	do	148.30
11	Allen A. Holcombe	do	123.60
	Agnes Chase	do	24.73
	Effie M. Hunter	do	13.19
	Clara E. Holmes	do	3.30
	Mae Searle	do	6.59
	Elizb. M. Donegan	do	11.54
	Tillie Heil	do	13.19
	The Real Estate and Improvement Co.	Rent	56.25
	F. J. Lamb	Corn	20.00
	Jno. S. Martin & Co.	Rent	126.00
	W. S. Goodhue	do	50.00
	C. Deaderick	do	30.00
	S. O. Nichols	Hay, etc.	39.00
	Edwin Rice	do	77.00
	Jas. Thompson	do	90.75
	Chas. H. Hazen	do	66.40
	H. N. Foshier	do	2.50
	Geo. W. Kidder	Flooring, etc.	46.10
	A. H. Little	Hay, etc.	15.16
	R. P. Drewry	Flooring, etc.	36.00
	W. N. Favor	do	5.00
	A. C. Barnard	do	76.14
	Harris C. Wilson	do	33.39
	H. H. Simons	do	149.90
	W. H. Whipple	do	53.40
	Amos W. Whipple	do	148.63
	Levin Johnson	do	28.91
	Louis Brousseau	do	32.50
	Albert E. Jones	do	20.20
	D. Jameson	do	30.00
	Geo. Pattee	do	50.00
	Geo. E. Waite	do	42.50
	W. S. Bailey	do	35.40
	J. G. Morse	do	25.00
	J. H. Stiles	do	89.62
	H. O. Chase	do	179.04
	A. B. McLane	do	62.81
	J. E. Bailey	do	55.55
	R. L. Childs	do	93.46
	Wm. Lochte	Shoeing horses	15.07
	The Washington Post Co.	Advertising	2.85
	Geo. D. Markham	Hogs'	150.00
13	The Beveridge Lumber Co.	Lumber	422.80
	Geo. E. Bedell	Repairing chairs	3.00
	Eberhard Faber	Rubber bands	61.92
	The Publishers and Printers Engravers Co.	Engravings	50.00

254 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
<i>Supplemental—Continued.</i>			
1903.			
July 13	J. Manz Engraving Co .....	Engravings .....	\$49.50
	City Telephone Co .....	Service .....	3.00
	Samuel E. Bennett .....	Use horse and buggy .....	38.00
	S. M. Birch Lumber Co .....	Lumber .....	33.63
	M. F. Dirnberger .....	Use horse and buggy .....	135.00
	East Buffalo Live Stock Exchange Co .....	Rent .....	90.00
	Fowler Manufacturing Co .....	Towel service .....	4.45
	The Bell Telephone Co. of Buffalo .....	Service .....	30.00
	T. F. Rodgers, agent .....	Rent .....	52.50
	Church & Stephenson .....	Lumber .....	218.10
	Wyckoff, Seamans & Benedict .....	Typewriter ribbons .....	5.50
	Chas. R. Edmonston .....	Rubbers, etc. ....	23.90
	Rosslyn Brick Co .....	Brick .....	110.00
	W. I. Brooks .....	Plow points .....	4.20
	F. C. Eells .....	Traveling expenses .....	4.00
	Harry C. Jacobs .....	do .....	9.50
	J. C. Burneson .....	do .....	4.80
	Geo. T. Irons .....	do .....	37.15
	Willis B. Lincoln .....	do .....	8.95
	H. D. Mayne .....	do .....	14.55
	G. W. Ward .....	do .....	12.25
	C. L. Morin .....	do .....	9.25
	Murray J. Myers .....	do .....	4.55
	Chas. M. Day .....	do .....	35.35
	W. P. Ellenberger .....	do .....	3.10
	Thos. Coyle .....	do .....	22.65
	Lewis F. Bullard .....	do .....	11.50
	R. D. Stoughton .....	Services .....	60.00
	Wm. H. Saylor .....	do .....	80.00
	Chas. Cowie .....	do .....	112.00
	Jas. Hewes .....	do .....	72.00
	Wm. E. Smith .....	do .....	90.00
	Bernhard P. Wende .....	Expenses .....	3.43
	H. H. George .....	do .....	18.18
	Jas. S. Kelly .....	do .....	.45
	N. C. Sorensen .....	do .....	12.24
	Fredk. Braginton .....	do .....	1.20
	Jos. M. Good .....	do .....	11.75
14	Densmore Typewriter Co .....	Repairing .....	50.50
	J. W. Beasley .....	Oil .....	1.85
	O. E. Dyson et al .....	Salaries .....	9,092.95
	Jas. Fleming et al .....	do .....	1,007.70
	Virgil L. Brown et al .....	do .....	2,269.11
	Walter J. Stewart et al .....	do .....	2,331.26
15	W. M. Galt & Co .....	Oats .....	39.00
	Ernest Betz .....	Repairing sterilizer .....	8.00
	Jno. Underwood & Co .....	Ink .....	2.00
	The Freidenwald Co .....	Stamps .....	568.40
	Page Woven Wire Fence Co .....	Fencing .....	256.50
	Louis Abel .....	Expenses .....	16.50
	A. G. G. Richardson .....	do .....	6.80
	do .....	do .....	9.25
	Isaiah Richardson .....	Services .....	74.20
	Jay Merrill .....	do .....	78.58
	E. H. May .....	do .....	13.19
	May E. Hotchkiss .....	do .....	19.00
	do .....	do .....	5.00
	W. H. Hunt .....	do .....	98.90
	Warren J. Fretz .....	Traveling expenses .....	47.65
	Jno. A. Stauffer .....	do .....	5.25
	B. A. Gallagher .....	do .....	5.75
16	The Colorado and Southern Rwy. Co .....	Passenger transportation .....	17.70
	The Atchison, Topeka and Santa Fe Rwy. Co. ....	do .....	74.61
	Southern Rwy. Co. ....	do .....	22.41
	Chicago, Milwaukee and St. Paul Rwy. Co .....	do .....	5.90
	Nashville, Chattanooga and St. Louis Rwy. Co. ....	do .....	3.09
	Chicago, Rock Island and Pacific Rwy. Co. ....	do .....	37.48
	do .....	do .....	26.61
	The Chesapeake and Ohio Rwy. Co. ....	do .....	19.50
	E. T. Davison .....	Expenses .....	11.59
	Sallie White .....	Mare .....	15.00
	G. W. Miller .....	do .....	15.00
	Max Red Ear Horse .....	do .....	8.00
	Chas. Wooden Leg .....	do .....	25.00
15	Adrian Post .....	Sand .....	15.00
	W. B. Moses & Sons .....	Chairs .....	10.32
	Thos. Somerville & Sons .....	Basin cock .....	.90

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
<i>Supplemental—Continued.</i>			
1903.			
July 15	Thos. Somerville & Sons	Traps	\$0.33
	Z. D. Gilman	Cotton	5.00
	T. F. Gilbert	Hay, etc.	44.01
	J. W. Flanders	do	19.26
	D. J. Cooney	Use horse and wagon	34.00
	S. E. Townsend	Hay, etc.	17.70
	Geo. C. Dearborn	Use horse and buggy	36.00
	G. W. Bicknell	do	28.00
	J. T. Twisden	do	18.00
	Harry Merritt	do	14.00
	Geo. W. Knight	do	7.50
	McNally Bros	do	21.00
	E. E. Atwood	do	16.00
	Moses S. Bartlett	do	15.00
16	H. M. Felch	Hay, etc.	\$3.40
	Waldo F. Prescott	Use horse and buggy	18.00
	E. T. Ford	do	10.50
17	A. E. Behnke	do	35.00
	New England Telephone and Telegraph Co.	Service	12.50
	J. S. Woodhouse	Mower	33.52
	Iowa Telephone Co.	Service	12.00
	Emma J. Adams et al	Rent	120.00
	Iowa Telephone Co.	Service	4.50
	Jno. A. Bell	Services	32.00
	Clinton H. Bugbee	do	119.20
	F. A. Rich	Services for December	125.00
	do	Services for January	70.00
	do	Services for February	60.00
	do	Services for March	55.00
	Harry A. Pierce	Use horse, etc.	38.00
	do	do	23.00
	do	do	24.50
	E. Newton Brown	Hay, etc.	289.30
	Herman M. Guild	Use horse and buggy	8.00
	Gilbert A. Blood	do	9.00
	Geo. A. Law	do	15.75
	Geo. A. Taylor	do	14.00
	Jno. J. Woodman	Hay, etc.	107.57
	J. A. Richards	do	457.00
	Jas. W. Gould	do	217.70
	Chas. W. Aldrich	do	184.00
	Benj. S. Jenison	Flooring, etc.	27.10
	Myer Abrams	Use horse and buggy	15.00
	T. F. Kennedy	Hay, etc.	40.74
	E. B. Nicholas	do	45.51
	C. H. Beasley	Use horse and buggy	17.00
	B. R. Cobb	do	16.00
	O. E. Covil	do	8.00
	G. F. Jones	do	17.00
	I. T. Hatch	do	49.50
	Holland & Ferrin	do	9.75
	P. J. McAuliff	Hay, etc.	420.50
	Geo. Boynton	do	380.70
	F. P. Wells	do	186.20
	J. A. Gould	do	373.95
	A. A. Goodell	Manuscript	25.00
18	Jas. Law	Use horse and buggy	35.00
	Jno. B. Sine	Use horse	25.00
	O. E. Dyson	do	25.00
	S. W. Burt	Use horse and buggy	35.10
	Jno. C. Lorenzen	Ink, etc.	4.90
	A. P. Little	Rent	675.00
	Gahan & Byrne	do	375.00
	Union Stock Yard and Transit Co.	do	45.00
	The Cincinnati Union Stock Yards	do	62.50
	H. J. Harward	do	30.00
	Belt Railroad and Stock Yard Co.	do	50.00
	St. Louis National Stock Yards	Water	2.25
	The Consumers' Co.	Ice	18.35
	do	Book	6.25
	E. F. Goodall	Service	45.75
	Chicago Telephone Co.	Use horse and buggy	15.00
	Russell G. Merrill	do	34.00
	W. S. Cass	Mare	35.00
	E. G. Battelyoun	Use horse and buggy	40.00
	Kehoe Livery and Trucking Co.	Oats	48.78
	R. J. O'Brien & Bros.	Towel service	3.75
	Bay State Clean Towel Co.	Sapolio	2.16
	Emery, Bird, Thayer Dry Goods Co.	Towel service	8.64
	Silver Laundry and Towel Co.		

*Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.*

## BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
<i>Supplemental—Continued.</i>			
1903.			
July 18	Cutler & Neilson Paint and Color Co	Paint	\$9.30
	Jas. Stikeman	Rent	125.00
	J. J. Brougham	Use horse and buggy	40.00
	The Kansas City Stock Yards Co.	Rent	45.00
	S. M. Birch Lumber Co.	Siding, etc.	10.05
	Glynn & Smith	Transportation	6.00
	Nebraska Telephone Co	Telephone service	13.50
	South St. Joe Coal Co	Ice	4.00
	Missouri and Kansas Telephone Co	Telephone service	12.50
	Geo. D. Markham	Hogs	250.00
	W. B. Niles	Traveling expenses	7.30
	Fred. J. Goebel	Expenses	9.35
	Franklin Rubber Co	Rubber coat	118.17
	Cutler & Cutler	Suit case	7.65
	Hooper, Lewis & Co.	books, etc.	21.23
	Potter's Stables (Incorporated)	Use horse and buggy	11.00
	Geo. Minton	Rack	9.50
	New England Telephone and Telegraph Co.	Telephone service	15.34
	Bay State Clean Towel Co.	Towel service	7.50
	Geo. W. Brown	Use horse and buggy	6.00
	Alex S. Wright	do	27.00
	Smith Bros	Calf	2.00
	D. H. Rice	Use horse and buggy	10.00
	Edwin S. Gowing, guardian	Flooring, etc.	10.60
20	Andrews Bros	do	9.10
	Harry J. Signal	Use horse and buggy	9.00
	Edw. S. Schmid	Pigeon	.50
21	Robt. Darling	Expenses	.90
	Jno. R. Mohler	do	39.07
	Julius Huelsen	do	9.41
	W. H. Rose	do	17.80
	F. W. Huntington	do	1.00
	W. B. Niles	do	28.45
	Don C. Ayer	do	2.15
	W. H. Wray	do	23.36
	Tooie A. Geddes	Services	206.00
	do	do	170.40
	Caroline Burnaby	do	40.00
	W. H. Wray	do	375.00
	J. F. Ryder	do	164.80
	Jno. R. Mohler	Traveling expenses	72.95
	Geo. A. Hanvey, jr	do	2.60
	Chas. Cowie	do	4.70
	Geo. W. Pope	do	6.25
	Morris T. Hascall	do	4.50
	David R. Hodges	do	16.25
	Edward P. Schaffter	do	3.65
	Thomas J. Lowry	do	4.38
	Thomas White	do	16.85
	H. A. Hedrick	do	31.90
	W. H. Wray	do	7.25
	J. F. Ryder	do	30.00
	Bourbon Stock Yard Co	Rent	30.00
	F. Auerbach & Bro	do	30.00
	E. L. Coleman	do	12.00
	Emma Curran, administratrix	do	21.00
	N. Rufus Gill	do	31.25
	The Kansas City Stock Yards Co. of Mis- souri.	do	11.00
	Louisa Wells	do	51.09
	The Sioux City Stock Yards Co	do	60.00
	New England Telephone and Telegraph Co.	Telephone service	57.00
	Missouri and Kansas Telephone Co	do	24.00
	The Bell Telephone Co. of Philadelphia	do	40.00
	Maryland Telephone and Telegraph Co.	do	12.00
	New York and New Jersey Telephone Co.	do	24.00
	Weehawken Stock Yard Co	do	11.85
	Rocky Mountain Bell Telephone Co.	do	15.00
	J. R. Stafford	Use horse and buggy	5.00
	Mendellhall Transportation Co.	Transportation	3.60
	do	do	12.00
	W. A. Crosby	Screens	5.25
	Don C. Ayer	Use horse	15.00
	James W. Davis	Use horse and buggy	18.00
	Chas. A. Schaulfer	do	105.00
	John Forbes	do	54.00
	Missouri Tent and Awning Co.	Awnings	29.06
	Isaac White	Mare	17.50
	Clarence E. Park	do	20.00

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
<i>Supplemental—Continued.</i>			
1903, July 21	Wm. Morris .....	Mare .....	\$15.00
	A. Livermont .....	do .....	20.00
	A. Newberry .....	do .....	10.00
	Wm. Calkins .....	do .....	52.50
	Isaac Battleyoung .....	do .....	35.00
	F. D. Ketchum .....	Use horse and buggy .....	25.00
	W. H. Kistler .....	Letter press .....	11.60
	S. M. Birch Lumber Co .....	Lumber .....	44.56
	R. P. Andrews & Co. (Incorporated) .....	Pencils .....	1.10
	American Linen Supply Co .....	Towel service .....	3.00
	Robt. Darling .....	Use horse and buggy .....	25.00
	E. J. Brooks & Co .....	Seals .....	100.80
	Mackall Bros .....	Am. chloride .....	4.00
	Rudolph, West & Co .....	Cotton waste, etc .....	116.93
22	The David Henry Building Co .....	Brickwork, etc .....	4,708.04
	Arthur H. Thomas Co .....	Pipettes .....	31.24
	Library Bureau .....	Cards .....	86.80
	Thos. O. Knowlton .....	Hay, etc .....	126.05
	P. S. Vankirk Co .....	Labor and material .....	300.00
	Tooie A. Geddes .....	Expenses .....	5.56
	Wm. Thompson .....	do .....	4.46
	W. P. Ellenberger .....	do .....	1.16
	Allen A. Holcombe .....	do .....	1.50
	A. G. G. Richardson .....	do .....	2.76
	F. L. DeWolf .....	do .....	1.49
	Jas. J. Brougham .....	do .....	21.00
	Geo. S. Baker .....	do .....	1.35
	Boyd Baldwin .....	do .....	5.12
	Chas. M. Day .....	do .....	2.05
	Ernest N. Hutchinson .....	do .....	37.75
	Tooie A. Geddes .....	Traveling expenses .....	105.61
	do .....	do .....	19.35
	Geo. M. Dishong .....	do .....	19.50
	E. M. Nighbert .....	do .....	6.25
	B. Howes .....	do .....	2.25
	Wm. E. Smith .....	do .....	3.80
	Chas. B. Hutchinson .....	do .....	8.95
	Chas. W. Pagle, jr .....	do .....	4.25
	F. L. Russell .....	do .....	7.25
	Ernest N. Hutchinson .....	do .....	12.85
23	Burlington Drug Co .....	Carbolic acid .....	30.67
	Robert Hale .....	Mare .....	20.00
	Hiram Jerome .....	Expenses .....	10.25
	T. A. Shipley .....	do .....	9.75
	H. M. Rowe .....	do .....	9.00
24	A. & H. E. Cook .....	Cheese .....	2.50
	The New York and New Jersey Telephone Co. ....	Telephone service .....	36.20
	Sunset Telephone and Telegraph Co. ....	do .....	10.50
	Jno. C. Parker .....	Oil boards, etc .....	36.84
	D. Frank Parker .....	Carbon paper .....	9.00
	do .....	Typewriter ribbons .....	67.50
	Wilber H. Hurst .....	Traveling expenses .....	19.75
	Ed. H. Webster .....	do .....	71.41
	M. W. Lang .....	do .....	95.72
	B. F. Van Valkenburgh .....	do .....	18.07
	W. C. Barth .....	do .....	5.25
	Levi Wells .....	do .....	146.62
	R. F. Eagle .....	do .....	4.00
	F. D. Ketchum .....	do .....	8.20
	Harry N. Waller .....	do .....	147.76
	H. M. Ball .....	do .....	155.90
	J. C. Milnes .....	Expenses .....	8.27
	Levi Wells .....	do .....	2.45
	Fredk. W. Ainsworth .....	do .....	6.10
	Nathan K. Fegley .....	do .....	7.10
	F. D. Ketchum .....	do .....	6.20
25	H. A. Hedrick .....	do .....	11.00
	Saml. E. Bennett .....	do .....	5.32
	Chas. A. Schaufler .....	do .....	43.61
	Henry E. Alvord .....	do .....	9.51
	Fred. Weaver .....	Mare .....	22.50
	Wm. Dunbar .....	do .....	25.00
	Peter Dillon .....	do .....	10.00
	Armstrong Laundry .....	Towel service .....	.67
	Thos. A. Bray .....	Use horse and saddle .....	75.00
	Chas. Keane .....	do .....	25.00
	New Telephone Co .....	Telephone service .....	20.00

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
<i>Supplemental—Continued.</i>			
1903.			
July 25	Geo. A. Bond	Traveling expenses	\$12.50
	Jno. McBirney	do	144.75
	Wm. S. Cass	do	6.25
	W. D. Collyer	do	21.07
	Clarence A. Clawson	do	6.50
	F. M. Perry	do	18.70
	Clinton H. Bugbee	do	126.90
	E. L. Volgenau	do	13.40
	Henry E. Alvord	do	78.02
	do	do	60.35
	Emerson J. Cary	do	102.80
	Russell G. Lawton	do	120.50
	F. A. Rich	do	312.18
	J. Wm. Fink	do	163.72
	Alex. E. Wight	do	93.79
	Albert N. Irwin	do	185.68
	M. Imes	do	134.38
27	E. T. Davison et al	Salaries	981.52
	Albert E. Behnke	Expenses	19.68
	Chas. Keane	do	7.30
	Geo. W. Pope	do	7.08
	E. J. Drake	Traveling expenses	19.95
	H. T. Potter	do	9.65
	Wm. C. Wootton	do	6.30
	Wm. C. Honan	do	18.55
	Saml. E. Bennett	do	9.85
	Ernest J. Foreman	do	33.90
	Western L. Johnson	do	4.50
	Peter I. Kershner	do	8.20
	A. R. Wake	do	66.70
	Geo. S. Baker	do	6.95
	Nathaniel B. Smith	do	16.00
	Geo. M. Whitaker	do	62.74
	James Hewes	do	18.25
	Herman R. Ryder	do	3.15
	H. J. Hammond	do	112.25
	do	do	109.75
	W. W. Worcester	do	59.31
	Allen A. Holcombe	do	30.08
	S. E. Bennett	do	42.48
	Ernest D. Everett	do	17.27
	U. G. Houck	do	154.40
	Geo. E. Wager	do	19.30
	L. Enos Day	do	68.92
	Fred L. Stevens	do	34.50
	Rice P. Steddom	do	92.95
	Milton T. Perry	do	100.48
	Geo. T. Hanton	do	52.65
	Ira K. Atherton	do	114.08
	Adolph Eichhorn	do	103.33
	Jno. A. Kiernan	do	166.99
28	Jos. Whytock	do	20.80
	Wm. Proudfoot	do	37.95
	Wm. D. Jordan	do	81.09
	do	do	85.41
	Jos. W. Parker	do	36.52
	Frank W. Brewer	do	43.25
	Louis Metsker	do	66.75
	T. O. Pettey	do	66.75
	Clayton E. Moss	do	33.00
	Wm. G. Shaw	do	29.18
	O. B. Hess	do	55.25
	do	do	9.00
	E. J. Drake	do	20.00
	Louis A. Klein	do	17.20
	Geo. E. Totten	do	46.60
	Leslie J. Allen	do	42.95
	Robert H. Tracy	do	13.75
	W. R. Dennis	do	105.25
	Wm. M. MacKellar	do	30.55
	Geo. C. Moser	do	50.70
	Jno. L. Burgett	do	4.25
	Ed. H. Webster	do	.50
	H. D. Paxson	Expenses	1.25
	Edw. P. Schaffter	do	1.09
	O. E. Dyson	do	20.99
	Geo. W. Butler	do	75.70
	F. A. Rich	do	5.00
	do	do	13.60



## Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
<i>Supplemental—Continued.</i>			
1903.			
July 28	Geo. C. Faville .....	Expenses .....	\$20.57
	O. B. Hess .....	do .....	12.70
	J. B. Clancy .....	do .....	6.00
	do .....	do .....	2.45
	do .....	do .....	7.30
	do .....	do .....	3.05
	Louis A. Klein .....	do .....	75.00
	M. O. Anderson .....	do .....	10.50
	Shannon & Axtell .....	do .....	10.00
	Jno. Pourier .....	Use horse .....	17.50
	P. S. Van Kirk Co. ....	Labor and materials .....	1,200.00
	R. W. Burrell .....	Services .....	27.28
	Biddell & Bogart Painters' Supply Co .....	Paint .....	36.65
	R. J. O'Brien & Bros. Co. ....	Oats, etc .....	47.15
	Chas. Hubinger .....	Supplies .....	15.38
	do .....	Halter, etc .....	59.41
	S. M. Birch Lumber Co. ....	Molding, etc .....	28.36
	The Anderson Lumber Co. ....	Lumber .....	47.99
	do .....	do .....	14.00
	Geo. S. Hickox .....	Electric lights, etc .....	9.75
	St. Joseph Stock Yards Co .....	Office rent .....	135.00
29	David C. Hanawalt .....	Traveling expenses .....	85.15
	N. L. Townsend .....	do .....	93.55
	Roy N. Drake .....	do .....	32.25
	Arch H. Wallace .....	do .....	29.85
	C. A. McCall .....	do .....	26.55
	do .....	do .....	56.65
	Jno. P. O'Leary .....	do .....	57.69
	Andrew Hyde .....	do .....	44.60
	Patk. H. Mullenwney .....	do .....	74.78
	Thos. L. Rice .....	do .....	138.00
	Harry K. Walter .....	do .....	132.26
	G. A. Johnson .....	do .....	125.57
	Walter H. Hersey .....	do .....	64.17
	Harry Q. Thompson .....	do .....	72.57
	David S. Kanstroom .....	do .....	86.04
	Henry E. Brown .....	do .....	20.85
	C. H. Zink .....	Expenses .....	2.60
	E. C. Schroeder .....	do .....	11.62
	Potomac Electric Power Co .....	Electric current .....	49.47
	The Chesapeake and Potomac Telephone Co .....	Telephone service .....	92.50
	Washington Gaslight Co. ....	Gas .....	40.00
	Thompson Bros .....	Desk .....	26.20
	J. D. Frazee .....	Towel service .....	11.96
	Dennison Manufacturing Co. ....	Tags .....	34.00
	do .....	do .....	14.96
	The Friedenwald Co. ....	Stamps .....	39.73
	Chicago Car Seal and Manufacturing Co .....	Seals .....	116.25
Aug. 3	A. D. Melvin .....	Traveling expenses .....	74.25
4	Grand Trunk Rwy. System .....	Rent .....	37.50
	Curtis & Lyons .....	Use horse and buggy .....	3.50
	Harry A. Pierce .....	do .....	42.50
	Thos. Bryant .....	do .....	7.50
	Lowell Rendering Co .....	Services .....	7.00
	Barber & Ross .....	Powder, etc .....	2.00
	Erie R. R. Co. ....	Transportation .....	.45
	R. Carter Ballantyne .....	Ledger .....	2.00
5	Jno. J. Hayes .....	Traveling expenses .....	113.00
	Henry R. McNally .....	do .....	7.50
	Wm. R. Fleming .....	do .....	35.00
	Matthew A. Farley .....	do .....	29.25
	J. Otis Jacobs .....	do .....	55.00
	A. R. Glaisyer .....	do .....	58.50
	A. J. Pistor .....	do .....	61.90
	Wm. F. Pflaeging .....	do .....	42.50
	Isaac W. O'Rourke .....	do .....	52.75
	Jno. C. Massie .....	do .....	43.75
	Lowell Clarke .....	do .....	74.05
	Geo. S. Hickox .....	do .....	32.80
	H. M. Rowe .....	do .....	94.00
	R. A. Ramsay .....	do .....	109.05
	Thos. Redmond .....	do .....	66.50
	W. W. Worcester .....	do .....	51.55
	W. I. Young & Co. ....	Butter trier .....	3.00
	Merchants' Refrigerating Co. of New York .....	Rent .....	975.30
	C. H. W. Foster .....	Cattle .....	1,958.00
6	Bernard Black .....	Mare .....	105.00
	White Cow .....	do .....	10.00
	Wm. E. Hargrave .....	do .....	25.00

260 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
<i>Supplemental—Continued.</i>			
1903.			
Aug. 6	Thos. O'Rourke	Mare	\$85.00
	Louie Twist	do	15.00
	Norgren Enger	do	12.50
	Benj. Tibbitts	do	42.50
	Henry Morrison	do	12.50
	Albert A. Lamb	do	17.50
	H. A. Dawson	do	15.00
	Johnson Bros	do	100.00
	Anderson & Rounds	do	25.00
	Edw. Janis	do	50.00
	Wm. Bird Head	do	12.50
	Charging Bear	do	20.00
	Wm. Garnett	do	45.00
	Moses Red Kettle	do	15.00
	Cuny White Deer	do	45.00
	L. D. Turner	do	55.00
	W. S. Hughes	do	125.00
	Jno. Davison, jr.	do	20.00
	Jno. Palmier	do	110.00
	Ben American Horse	do	15.00
	Lizzie Bouga	do	35.00
	Leo. Baum	Photograph reproductions	.49
	L. K. Green	Traveling expenses	29.24
	H. A. Christmann	do	6.30
	Dan McCunningham	do	30.55
	Chas. A. Brown	do	16.35
7	New York Telephone Co.	Telephone service	20.45
10	Geo. A. Myers & Co.	Roofing paper	368.40
	Chicago Car Seal and Manufacturing Co	Tags and seals	122.05
	The Friedenwald Co	Stamps	1,179.14
12	American Ice Co	Ice	37.75
14	C. M. Gallagher	Horse and buggy hire	45.00
	New York Telephone Co	Rent of telephone	27.10
	Chicago Towel Supply Co.	Towels	47.25
	John W. Adams	Publication	50.00
	Jno. C. Fischer	Incubator	65.00
	Campbell, Morrell & Co., Incorporated.	Cement	14.00
	Chas. Hacker	Use horse and buggy	19.00
	Emery, Bird, Thayer Dry Goods Co	Desks, etc	123.75
	McManus Bros	Livery	3.00
	New England Telephone and Telegraph Co.	Telephone toll service	14.15
	E. J. & C. B. Robbins	Flooring, etc	69.30
	S. Penniman & Son	Livery	23.00
	The Benj. F. Smith Co.	Burying cattle	12.40
	J. B. Johnson	do	15.40
	Samuel O. Fowle	Livery	6.00
	A. L. Cook	do	8.00
	Martin M. Welch	do	6.00
	Jno. F. Murphy	Services	9.00
	Lewis R. Baker	Expenses	31.71
	Albert Dean	do	13.97
	Thos. Castor	Traveling expenses	23.97
	E. T. Davison	do	87.30
	John Kneebone	do	15.75
	A. R. Wake	do	43.75
	F. W. Bicknell	do	94.29
	O. B. Hess	do	6.50
	S. D. Brimhall	do	75.20
	A. J. Smith	do	55.00
	Isaiah Richards	do	29.00
	Walter E. Home	do	37.00
	Horace H. Collins	do	37.74
	Geo. E. Totten	do	26.00
	John A. Bell	do	21.02
	John Forbes	do	13.30
	F. W. Bicknell	do	457.48
	Wm. C. Siegmund	do	118.41
	John V. Laddey	do	169.73
	A. F. Martins	do	137.39
	Frank L. Shipp	do	20.22
	Clarence O. Durfee	do	108.08
	Frank H. Burleigh	do	15.15
15	Z. D. Gilman	Supplies	6.22
	do	do	59.50
	The Geo. W. Knox Express Co	Freight	.35
	The Chesapeake and Potomac Telephone Co	Toll	.50
17	Wm. E. Pratt	Hog rings	125.05
	Arthur H. Thomas Co.	Jars, etc	77.47
	Yawman & Erbe Manufacturing Co	Cases	4.00

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
<i>Supplemental—Continued.</i>			
1903, Aug. 17	Bacteriological Laboratory	Cultures	82.75
19	Burditt & Williams Co	Casters	1.96
	A. D. Boynton	Milk cans	13.44
	Eastern Drug Co	Potash, etc	1.83
	E. & F. King & Co	Lime	5.43
	Revere Rubber Co	Packings	6.00
	Berry & Ferguson	Lime	34.50
	P. H. Mullowney	Traveling expenses	91.49
	M. S. Lantz	do	62.50
	Morey A. Sappington	do	39.10
	Ernest N. Hutchinson	do	.30
	E. T. Davison	Expenses	12.00
	F. J. Marley	Trap rock	52.13
	Mrs. Jennie Robinson	One mare	20.00
	E. & F. King & Co	Paint and brushes	3.27
	White Crow	One mare	15.00
	Erie R. R. Co	Freight	3.90
20	Barber & Ross	Nails, etc	12.54
21	L. K. Green	Expenses	9.25
25	Geo. E. Wager	Traveling expenses	3.15
	A. McBride	do	125.33
	Jay Merrill	do	30.00
	The David Henry Building Co	Building two brick barns	11,921.96
26	Morris Miller	Painting stable	35.00
	John Gruber	One bay mare	30.00
	Geo. M. Sill	One mare	30.00
	John Pourier	Services man, horse, and saddle	42.50
	Biddle & Bogart Painters' Supply Co	Decorating walls	17.00
	Emma Eagle Horse	One mare	10.00
	Lewis L. Bullard	Traveling expenses	21.50
27	The Beveridge Lumber Co	Lumber	224.00
	The Birmingham Times	Advertising	3.00
	L. K. Green	Traveling expenses	.50
Sept. 4	Walter G. Hemming	Painting	34.00
	T. W. Acomb	Services	16.40
11	The Washington Post Co	Advertising	3.00
	Chas. C. Fulton & Co	do	2.70
	Iowa State Register	do	3.93
	The J. L. Murphy Publishing Co	do	1.08
	The Hartford Courant Co	do	2.20
	Topeka State Journal	do	1.95
	Frank H. Greer	do	1.65
	The Journal Co	do	2.10
	The Argus Co	do	1.90
	The Ohio State Journal Co	do	2.31
	The Globe Printing Co	do	4.50
	Illinois State Journal Co	do	1.58
	The State Co	do	2.40
	Wm. M. Abbott	do	3.40
	Gazette Publishing Co	do	2.25
	Republican Publishing Co	do	2.20
	Geo. A. Monington	Tinning and painting	57.06
	James Jens	Mare	25.00
	Saml. K. Weston	do	15.00
	Sam Kills Brave	do	15.00
	Chicago Car Seal and Manufacturing Co	Seals	204.00
	Trustees of the Milk Street Trust	Office rent	75.00
	Hail P. Lockwood	Use horse and wagon	8.00
	Esther A. Perkins and Samuel Sargent	Flooring, etc	107.40
	Trustees of the Milk Street Trust	Office rent	75.00
14	D. E. Salmon	Expenses	8.90
18	Postal Telegraph Cable Co	Telegraph service	19.88
	Western Union Telegraph Co	do	59.08
	Chicago, Indianapolis and Louisville Rwy. Co.	Passenger transportation	8.00
	do	do	8.00
	Oregon Short Line R. R. Co.	do	30.00
	Pennsylvania R. R. Co.	do	10.00
	The Chicago, Burlington and Quincy R. R. Co.	do	6.30
	do	do	4.71
	Southern Pacific Co	do	15.10
17	Denver Furniture and Carpet Co	Desk	15.50
	Carl Schleve	Mare	15.00
	Oklahoma State Capital	Advertising	1.87
	Statesman Printing Co	do	2.00
	do	do	2.20
	L. M. Gristi Sons	do	2.90
	D. S. Lewis	do	2.50

## 262 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
	<i>Supplemental—Continued.</i>		
1903.	The Globe Co.	Advertising	\$4.75
Sept. 17	Chicago, Milwaukee and St. Paul Rwy. Co.	Passenger transportation	8.32
19	The Colorado and Southern Rwy. Co.	do	10.20
	The Missouri Pacific Rwy. Co.	do	9.50
	do	do	16.80
	Chicago and Eastern Illinois R. R. Co.	do	3.17
	Union Pacific R. R. Co.	do	173.40
	do	do	19.98
	do	do	14.80
	Baltimore and Ohio R. R. Co.	do	20.25
	do	do	12.75
	Burlington and Missouri River R. R. in Nebraska.	do	32.40
	The Wabash R. R. Co.	do	31.20
	Pittsburg, Cincinnati and St. Louis Rwy. Co.	do	26.35
	do	do	8.00
	Northern Pacific Rwy. Co.	do	5.78
	do	do	12.75
	The Atchison, Topeka and Santa Fe Rwy. Co.	do	12.87
	Pennsylvania Co.	do	17.50
21	The M. Joyce Engraving Co.	Signature	.50
22	Missouri Pacific Rwy. Co.	Transportation	29.00
	do	do	2.07
	do	do	61.95
	do	do	3.60
	Baltimore and Ohio Southwestern R. R. Co.	do	.79
	do	do	5.86
	Illinois Central R. R. Co.	do	38.09
	do	do	1.11
	do	do	20.01
	do	do	38.45
	do	do	.54
	do	do	3.92
	Chicago, Milwaukee and St. Paul Rwy. Co.	do	1.75
	do	do	3.84
	do	do	3.78
	Chicago, Rock Island and Pacific Rwy. Co.	do	9.75
	do	do	.96
	do	do	1.70
	do	do	1.07
	do	do	1.83
	do	do	15.78
	do	do	1.15
	Pennsylvania R. R. Co.	do	.35
	do	do	.34
	H. J. Hammond	Traveling expenses	130.25
	M. E. Knowles	Services	20.00
	Cincinnati, Hamilton and Dayton Rwy. Co.	Transportation	.55
	Cleveland, Cincinnati, Chicago and St. Louis Rwy. Co.	do	.87
	do	do	2.77
	Boston and Maine R. R.	do	1.03
	do	do	3.84
	Union Pacific R. R. Co.	do	1.43
	do	do	15.38
	Chicago, Indianapolis and Louisville Rwy. Co.	do	.38
	Chicago and North-Western Rwy. Co.	do	1.93
	Oregon R. R. and Navigation Co.	do	1.74
	St. Louis Southwestern Co. of Texas	do	6.24
	Chicago and Alton Rwy. Co.	do	15.11
	Chicago, Rock Island and Texas Rwy. Co.	do	.60
	Fremont, Elkhorn and Missouri Valley R. R. Co.	do	2.23
	Burlington and Missouri River R. R. in Nebraska.	do	1.60
	Baltimore and Ohio R. R. Co.	do	.69
	do	do	17.36
	do	do	.90
	Texas and Pacific Rwy. Co.	do	1.76
	do	do	1.49
	Star Union Line	do	.76
	do	do	1.52
	Chicago and Erie R. R. Co.	do	.31
	Merchant and Miners' Transportation Co.	do	3.37

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## BUREAU OF ANIMAL INDUSTRY, SALARIES, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
<i>Supplemental—Continued.</i>			
1903. Sept. 22	Lake Shore and Michigan Southern Rwy. Co.	Transportation .....	\$1.63
	New York Central and Hudson River R. R. Co.	do .....	.44
	Chicago, Burlington and Quincy Rwy. Co.	do .....	2.03
	do	do .....	1.97
	do	do .....	1.79
	Lake Shore and Michigan Southern Rwy. Co.	do .....	1.30
Oct. 8	R. L. Cooper	Use horse and buggy .....	40.00
10	Geo. F. Muth & Co.	Oil, etc .....	58.00
	Blue Line Transfer Co.	Transportation .....	2.30
	United States Express Co.	do .....	44.91
	Postal Telegraph Cable Co.	Telegraph service .....	.61
	do	do .....	23.35
19	M. E. Knowles	Traveling expenses .....	56.20
21	J. F. Deadman	Services .....	18.00
22	Andrew Peterson	Flooring, etc .....	37.92
	The Carson City News.	Advertising .....	1.73
	The Capital Journal Co.	do .....	2.00
24	The Jno. L. Murphy Publishing Co.	do .....	1.20
	El Paso Daily Herald.	do .....	1.40
	Passaic Daily News	do .....	3.00
	The Indianapolis News	do .....	1.20
	Gammel Statesman Publishing Co.	do .....	4.80
	M. H. Jewell, proprietor	do .....	1.00
	Edison Electric Illuminating Co.	Electric lighting .....	.67
	Miller Lock Co.	Locks .....	7.00
	E. B. Leland	Flooring, etc .....	617.45
	Herbert H. Robbins	do .....	13.63
27	Patek Nolan	Services .....	13.00
	P. S. Van Kirk Co.	Sash fasteners .....	1,375.04
29	Indianapolis News Co.	Advertising .....	1.32
31	Chicago, Rock Island and Pacific Rwy. Co.	Passenger transportation .....	5.09
	Cincinnati, Hamilton and Dayton R. R. Co.	do .....	8.00
	The Missouri Pacific Rwy. Co.	do .....	5.80
	do	do .....	7.75
	Boston and Maine R. R. Co.	Transportation .....	36.00
	Chicago and North-Western Rwy. Co.	Passenger transportation .....	134.63
	Total .....		138,827.81

## RECAPITULATION.

First quarter .....	\$190,560.99
Second quarter .....	328,300.90
Third quarter .....	418,234.97
Fourth quarter .....	363,624.98
Supplemental .....	138,827.81
Total .....	1,439,549.65

## BUREAU OF ANIMAL INDUSTRY—RENT OF BUILDINGS.

Date.	Name.	Nature of payment.	Total.
1902.			
Aug. 20	J. Harrison Johnson	Rent, July, 1902 .....	\$150.00
Sept. 16	do	Rent, August, 1902 .....	150.00
Oct. 7	do	Rent, September, 1902 .....	150.00
Nov. 13	do	Rent, October, 1902 .....	150.00
Dec. 10	do	Rent, November, 1902 .....	150.00
1903.			
Jan. 12	do	Rent, December, 1902 .....	150.00
Feb. 7	do	Rent, January, 1903 .....	150.00
Mar. 14	do	Rent, February, 1903 .....	150.00
Apr. 16	do	Rent, March, 1903 .....	150.00
May 16	do	Rent, April, 1903 .....	150.00
June 9	do	Rent, May, 1903 .....	150.00
July 20	do	Rent, June, 1903 .....	150.00
	Total rent .....		1,800.00

## 264 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## ACCOUNTS SETTLED BY TREASURY.

Date.	Name.	Nature of payment.	Total.
1902.			
Dec. 9	Southern Pacific System .....	Passenger transportation.....	\$37.35
	do .....	do .....	15.00
1903.			
Jan. 24	do .....	do .....	59.00
Feb. 19	Oregon Short Line Co .....	do .....	31.50
June 25	Southern Pacific Co .....	do .....	59.00
Sept. 21	do .....	do .....	29.50
	Total .....		231.35

## FORESTRY INVESTIGATIONS.

1902.			
July 31	G. B. Sudworth et al .....	Salaries .....	\$2,882.99
Aug. 2	Horace B. Ayres .....	Services .....	151.60
	W. W. Ashe .....	do .....	126.40
	G. Alleman .....	do .....	60.00
	C. F. Alexander .....	do .....	20.38
	Jno. Appleton .....	do .....	20.38
	Robt. W. Ayres .....	do .....	20.38
	Eugene S. Bruce .....	do .....	168.50
	Grant R. Bruce .....	do .....	75.80
	Raymond E. Benedict .....	do .....	60.60
	J. E. Barton .....	do .....	20.38
	Percy Brown .....	do .....	20.38
	Jno. H. Bridges .....	do .....	20.38
	Henry Ballantine .....	do .....	20.38
	Lew C. Church .....	do .....	20.38
	F. D. Conden .....	do .....	20.38
	Edw. E. Carter .....	do .....	20.38
	Errett W. Diarmid .....	do .....	20.38
	Willard M. Drake .....	do .....	20.38
	Harry S. Everett .....	do .....	20.38
	H. B. Eastman .....	do .....	20.38
	Harrold D. Foster .....	do .....	20.38
	Ralph H. Field .....	do .....	20.38
	Daniel W. Hamm .....	do .....	20.38
	Saml. M. Higgins .....	do .....	20.38
	Edw. A. Hyde .....	do .....	20.38
	G. B. Lull .....	do .....	20.38
	Frank B. Moody .....	do .....	20.38
	H. G. Merrill .....	do .....	20.38
	E. J. S. Moore .....	do .....	20.38
	J. G. Peters .....	do .....	20.38
	Wm. H. Peters .....	do .....	20.38
	Allen S. Peck .....	do .....	20.38
	Geo. R. Rubrecht .....	do .....	20.38
	Ralph E. Shelden .....	do .....	20.38
	Herbert O. Stabler .....	do .....	20.38
	Wm. D. Sterrett .....	do .....	20.38
	Howard W. Taylor .....	do .....	20.38
	E. H. P. Ward .....	do .....	20.38
	Wm. J. Ward .....	do .....	20.38
	Asa S. Williams .....	do .....	20.38
	Irwin T. Worthley .....	do .....	20.38
	Alfred C. Weed .....	do .....	20.38
	Edw. A. Braniff .....	do .....	25.30
	J. H. Burdick .....	do .....	25.30
	Fred W. Besley .....	do .....	25.30
	J. Fred Baker .....	do .....	25.30
	Horatio J. Brown .....	do .....	25.30
	Preston H. Brooks, jr. .....	do .....	25.30
	K. L. Burns .....	do .....	25.30
	Jacob C. Blumer .....	do .....	25.30
	W. C. Blasdale .....	do .....	25.30
	S. M. Coulter .....	do .....	25.30
	Matt Crosby .....	do .....	25.30
	Wm. T. Cox .....	do .....	25.30
	Frederick Dunlap .....	do .....	25.30
	Saml. B. Detwiler .....	do .....	25.30
	Wallace W. Everett .....	do .....	25.30
	Harry F. Easter .....	do .....	25.30
	M. L. Erickson .....	do .....	25.30
	Jas. M. Fetherolf .....	do .....	25.30
	Richd. M. Fontaine, jr. .....	do .....	25.30
	Jas. E. Gow .....	do .....	25.30
	Jno. D. Guthrie .....	do .....	25.30
	Wilson P. Harris .....	do .....	25.30

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## FORESTRY INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1902. Aug. 2	Thos. L. Hoover	Services	\$25.30
	Clifton D. Howe	do	25.30
	Wallace I. Hutchinson	do	25.30
	Wm. R. Lazenby	do	25.30
	Burton E. Livingston	do	25.30
	Wm. H. Mast	do	25.30
	Irwin E. Nagle	do	25.30
	Frank W. Nevins	do	25.30
	Titus G. Phillips	do	25.30
	Allen B. Patterson	do	25.30
	Louis H. Pammell	do	25.30
	Robt. A. Pope	do	25.30
	Jere Rebmann	do	25.30
	Paul W. Rea	do	25.30
	R. V. R. Reynolds	do	25.30
	N. Deem Rowe	do	25.80
	A. C. Ringland	do	25.30
	Sidney S. Riggs	do	25.30
	C. O. Sparks	do	25.30
	Clinton G. Smith	do	25.30
	Robt. A. Sanborn	do	25.30
	E. R. Secret	do	25.30
	Rollin S. Saltus	do	25.30
	Saml. N. Spring	do	25.30
	H. D. Scudder	do	25.30
	H. O. Tunis	do	25.30
	B. J. Teasdale	do	25.30
	Karl W. Woodward	do	25.30
	J. P. Wentling	do	25.30
	Alpheus O. Waha	do	25.30
	Robt. B. Wilson	do	25.30
	J. L. Webb	do	25.30
	Zena L. Bliss	do	40.40
	Hugh P. Baker	do	40.40
	Galen S. Cleland	do	40.40
	Wm. W. Cheever	do	40.40
	Albert W. Cooper	do	40.40
	Jno. H. Halton	do	40.40
	E. R. Hodson	do	40.40
	Wm. B. Howard	do	40.40
	Reynolds Hill	do	40.40
	Frank Karpp	do	40.40
	David G. Kinney	do	40.40
	Jno. E. Keach	do	40.40
	C. A. McCue	do	40.40
	Ferris R. Miller	do	40.40
	Henry W. Newman	do	40.40
	Chas. A. Scott	do	40.40
	Gordon E. Tower	do	40.40
	Theo. S. Woolsey, jr.	do	40.40
	Frank G. Miller	do	50.50
	Austin F. Hawes	do	50.50
	Geo. Griswold	do	50.50
	Anson E. Cohoon	do	60.60
	Geo. Farley	do	60.60
	Richd. P. Ines	do	60.60
	Royal S. Kellogg	do	60.60
	Harold B. Kempton	do	60.60
	Theo. P. Lukens	do	60.60
	Louis C. Miller	do	60.60
	Jno. W. Riggs	do	60.60
	Raphael G. Zon	do	60.60
	Harry D. Tiemann	do	75.80
	Rollin G. Griffin	do	75.80
	G. E. Clement	do	84.20
	Chas. S. Chapman	do	84.20
	Coert Du Bois	do	84.20
	C. Temple Emmett	do	84.20
	Alfred Gaskill	do	84.20
	Henry Grinnell	do	84.20
	Wm. C. Hodge, jr.	do	84.20
	Franklin W. Reed	do	84.20
	H. N. Whitford	do	1.63
	Homer A. Rogers	do	13.86
	Sam C. Ford	do	16.96
	H. K. Porter	do	21.52
	Hugh M. Curran	do	31.30
	Blaine S. Viles	do	52.61
	Jas. W. Tomney	do	94.57
	Ralph S. Hosmer	do	101.10

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## FORESTRY INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Aug. 2	Albert F. Potter	Services . .	\$126.40
	Hofer F. Meeckham	do	126.40
	Chas. H. Herty	do	168.50
	Thos. H. Sherrard	do	134.80
4	Fredk. E. Olmsted	do	134.80
6	Felix R. Holt	do	20.38
	Edw. A. Ziegler	do	25.30
12	A. D. Hopkins	Traveling expenses	44.35
	F. E. Olmsted	do	206.08
14	Geo. L. Clothier	Services	84.20
20	Wesley J. Gardner	do	50.50
	Frank Thompkins	do	32.61
	Herbert A. Paul	do	20.38
	Jno. B. Anderson	do	20.38
	Theo. C. Zschokke	do	17.93
	Wm. W. Mott	do	17.93
	Walter J. Morrill	do	20.38
22	Frank W. Nevins	Traveling expenses	27.75
	Clifton D. Howe	do	37.36
	Henry S. Graves	do	29.10
	Wm. B. Howard	do	27.65
	David G. King	do	12.02
	B. J. Teasdale	do	24.97
	Jno. H. Bridges	do	25.10
	Jas. E. Gow	do	32.62
	Jno. Foley	do	49.65
	Raphael G. Zon	do	39.66
	R. B. Wilson	do	45.40
	Harry D. Tiemann	do	53.35
	Hamilton G. Merrill	do	31.60
	R. T. Fisher	do	60.33
	Henry Grinnell	do	76.60
	A. O. Waha	do	25.42
	Reynolds Hill	do	108.22
	H. M. Curran	do	67.69
	Frank G. Miller	do	75.21
	Wm. L. Hall	do	120.79
	Austin F. Hawes	do	10.78
	G. Fred. Schwarz	do	46.90
	R. W. Ayres	do	23.55
	Hartley B. Holroyd	do	12.35
	M. L. Erickson	do	21.25
	E. R. Secrest	do	19.00
	Wm. W. Mott	do	18.45
	Theo. C. Zschokke	do	3.25
	Homer A. Rogers	do	35.45
	Carl G. Crawford	do	17.65
	Hermann von Schrenk	Expenses	132.84
	Asa S. Williams	Traveling expenses	25.35
	Ralph E. Sheldon	do	21.90
	Henry F. Easter	do	18.05
	C. F. Alexander	do	23.70
	Z. L. Bliss	do	34.38
	C. A. Scott	do	110.00
	Geo. L. Clothier	do	84.31
	Jno. W. Riggs	do	28.95
	Albert W. Cooper	do	74.99
	L. C. Miller	do	97.81
28	O. W. Price	do	22.20
	Richd. P. Imes	do	52.89
	J. H. Burdick	do	25.57
	W. D. Sterrett	do	30.60
	H. O. Tunis	do	30.24
	R. M. Fontaine, jr.	do	18.05
	E. J. S. Moore	do	33.42
	Hugh P. Baker	do	133.60
	Coert Du Bois	do	82.95
	Alfred Gaskill	do	118.47
	Grant B. Bruce	do	22.18
	Ralph H. Field	do	24.10
	Geo. E. Tower	do	86.65
	Ferris R. Miller	do	17.65
	G. S. Cleland	do	29.86
	Percy Brown	do	31.70
	F. W. Besley	do	18.05
	Jno. E. Keach	do	39.83
	Kenneth L. Burns	do	51.15
	Paul W. Rea	do	45.30
	Jno. D. Guthrie	do	14.83
	C. A. McCue	do	23.01



Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## FORESTRY INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Aug. 28	Allan B. Patterson	Traveling expenses	\$15.49
	Hermann H. Chapman	do	26.46
	Willis L. Jepson	Services	25.30
31	Geo. B. Sudworth et al	Salaries	2,718.33
Sept. 2	Geo. B. Sudworth	Traveling expenses	23.45
	Houghton & Delano	Photographic supplies	425.69
3	Hugh M. Curran	Services	60.60
	B. J. Teasdale	do	25.30
	Howard W. Taylor	do	25.30
	H. O. Tunis	do	25.30
	Rolin S. Saltus	do	25.30
	Saml. L. Spring	do	25.30
	H. D. Scudder	do	25.30
	do	do	25.30
	E. R. Secrest	do	25.30
	Herbert O. Stabler	do	25.30
	Ralph E. Sheldon	do	25.30
	Robt. A. Sanborn	do	25.30
	Geo. K. Rubrecht	do	25.30
	Jere. Rebmann	do	25.30
	Paul W. Rea	do	25.30
	A. C. Ringland	do	25.30
	Sidney S. Riggs	do	25.30
	Wm. H. Peters	do	25.30
	Titus G. Phillips	do	25.30
	Louis H. Pammel	do	25.30
	Allan B. Patterson	do	25.30
	J. Given Peters	do	25.30
	Allen S. Peck	do	25.30
	Frank W. Nevins	do	25.30
	Errett W. McDiarmid	do	25.30
	Frank D. Moody	do	25.30
	Wm. H. Mast	do	25.30
	E. J. S. Moore	do	25.30
	Hamilton G. Merrill	do	25.30
	G. B. Lull	do	25.30
	Willis L. Jepson	do	25.30
	Clifton D. Howe	do	25.30
	Saml. M. Higgins	do	25.30
	Dani. W. Hamm	do	25.30
	Royal S. Kellogg	do	52.67
	Hartley B. Holroyd	do	43.23
	Robt. A. Pope	do	13.86
	Preston S. Brooks, jr	do	6.52
	Irving T. Worthley	do	25.30
	Asa S. Williams	do	25.30
	Wm. J. Ward	do	25.30
	Alpheus O. Waha	do	25.30
	Egbert H. P. Ward	do	25.30
	Robt. B. Wilson	do	25.30
	Edw. A. Hyde	do	25.30
	F. Tracy Hubbard	do	25.30
	Thos. L. Hoover	do	25.30
	Felix R. Holt	do	25.30
	Wallace I. Hutchinson	do	25.30
	Jas. E. Gow	do	25.30
	Jno. E. Guthrie	do	25.30
	Jas. M. Fetherolf	do	25.30
	Ralph H. Field	do	25.30
	Harrold D. Foster	do	25.30
	Wallace W. Everett	do	25.30
	M. L. Erickson	do	25.30
	Henry F. Easter	do	25.30
	Harry D. Everett	do	25.30
	J. Benj. Eastman	do	25.30
	Saml. B. Detwiler	do	25.30
	Wm. M. Drake	do	25.30
	Lew. C. Church	do	25.30
	S. M. Coulter	do	25.30
	Kenneth L. Burns	do	25.30
	Edw. A. Braniff	do	25.30
	Jno. H. Bridges	do	25.30
	Robt. L. Black	do	25.30
	J. L. Barton	do	25.30
	J. H. Burdick	do	25.30
	Fred. W. Besley	do	25.30
	J. Fred Baker	do	25.30
	H. W. Ballantine	do	25.30
	W. C. Blasdale	do	25.30
	R. W. Ayres	do	25.30

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## FORESTRY INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Sept. 3	Percy Brown	Services	\$25.30
	C. F. Alexander	do	14.67
4	Theo. S. Woolsey	do	40.40
	J. L. Webb, jr	do	40.40
	Blaine S. Viles	do	40.40
	G. E. Tower	do	40.40
	Chas. A. Scott	do	40.40
	C. A. McCue	do	40.40
	Ferris R. Mulier	do	40.40
	Frank Klarpp	do	40.40
	Jno. E. Keach	do	40.40
	David G. Kinney	do	40.40
	Reynolds Hill	do	40.40
	E. R. Hodson	do	40.40
	Jno. H. Hatton	do	40.40
	Wm. W. Cheever	do	40.40
	Albert W. Cooper	do	40.40
	Galen S. Cleland	do	40.40
	Hugh P. Baker	do	40.40
	Chas. H. Herty	do	168.50
	Eugene S. Bruce	do	168.50
	Thos. H. Sherrard	do	134.80
	Fredk. E. Olmsted	do	134.80
	Albert F. Potter	do	126.40
	Hofer F. Meekham	do	126.40
	Jas. W. Toumey	do	101.10
	Ralph S. Hosmer	do	101.10
	Frank W. Reed	do	84.20
	Wm. C. Hodge, jr	do	84.20
	Alfred Gaskill	do	84.20
	Henry Grumell	do	84.20
	C. Temple Emmet	do	84.20
	Coert Du Bois	do	84.20
	G. E. Clement	do	84.20
	Chas. S. Chapman	do	84.20
	Geo. L. Clothier	do	84.20
	Rollin G. Griffin	do	75.80
	Grant B. Bruce	do	75.80
	Harry D. Tieman	do	75.80
	G. Alleman	do	60.00
	Geo. Farley	do	60.60
	Harold D. Kempton	do	60.60
	Richd. P. Imes	do	60.60
	Raphael G. Zon	do	60.60
	Theo. P. Lukins	do	60.60
	Louis C. Miller	do	60.60
	H. K. Porter	do	60.60
	Frank G. Miller	do	50.50
	Austin F. Hawes	do	50.50
	Geo. Griswold	do	50.50
	Jno. W. Riggs	do	60.60
5	Wesley G. Gardner	do	50.50
	Herbert A. Paul	do	25.30
	Jno. B. Anderson	do	25.30
	Walter J. Morrill	do	25.30
	Theo. C. Zschokke	do	25.30
	Frank Tompkins	do	40.40
	Wm. W. Mott	do	11.41
	H. B. Kempton	Traveling expenses	235.87
	Wesley J. Gardner	do	81.03
	E. R. Hodson	do	28.76
	do	do	46.00
	Edw. A. Braniff	do	57.90
	do	do	27.50
	C. O. Sparks	do	363.05
	Thos. H. Sherrard	do	85.20
	A. C. Ringland	do	20.62
	Chas. S. Chapman	do	44.43
	Anson E. Cohoon	do	80.71
	Jno. H. Hatton	do	88.00
	J. L. Webb	do	32.75
	C. Temple Emmett	do	138.56
	R. C. M. Burton	Repairing awnings, etc.	6.16
	F. & J. K. Bishop Art Co.	Photo materials	28.81
8	Edw. A. Carter	Services	25.30
	F. D. Conden	do	25.30
	Alfred C. Weed	do	25.30
	H. J. Brown	do	25.30
	Clinton G. Smith	do	25.30
	Jacob C. Blumer	do	25.30

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## FORESTRY INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Sept. 8	Zina N. Bliss	Services	\$40.40
	Wm. T. Cox	do	25.30
	Matt Crosby	do	25.30
	N. Dean Rowe	do	25.30
	C. O. Sparks	do	40.40
	Jno. Appleton	do	25.30
	Wm. B. Howard	do	40.40
	Elmer O. Wooton	do	127.17
	R. M. Fontaine, jr.	do	6.52
	Amberg File and Index Co.	Cabinets	43.75
	J. P. Nawrath	Wrapping paper	9.00
	Jno. Underwood & Co.	Black record ribbons	4.50
	The American News Co.	Eradicator	1.45
	Wm. H. Dyer	Molding	1.25
	M. Du Perow	Desk fans	96.90
	F. Sharp	Perforator	.65
	Wyckoff, Seamans & Benedict	Record ribbon, etc	27.00
	Capital Traction Co.	Car tickets	10.00
	R. Carter Ballantyne	Fasteners	10.86
	Richd. Gasch	Keys	3.75
	Ed. J. Hannan	Lining tanks	70.00
	The Voigtlander & Son Optical Co.	Lens, etc	399.84
	E. R. Harbird	Forest News	24.00
9	Rufus B. Merchant	Maps	19.20
10	Church & Stephenson	Materials for photo gallery	120.43
	Lutz & Co.	Kodaks	25.00
	Jas. S. Topham	Field chest	20.00
11	Barber & Ross	Dinner plates, etc	6.87
	Z. D. Gilman	Sulphuric ether	13.40
	Neely Electric Co.	Electric supplies	28.82
	E. J. Pullman	Photo supplies	22.75
	Fred. A. Schmidt	Drawing instruments, etc	45.54
	S. P. Johnson	Repairing typewriter	9.30
	Hugh L'eilly	Mirrors, etc	17.67
	Louis Hartig	Bar iron	.42
16	H. S. Graves	Traveling expenses	43.90
	Jno. D. Guthrie	do	21.12
	Theo. C. Zschokke	do	26.15
	Raphael G. Zan	do	32.01
	Richd. P. Imes	do	42.89
	Grant B. Bruce	do	18.40
	Henry G. Grinnell	do	63.05
	Hartly B. Holroyd	do	30.15
	Geo. W. Moss	Passenger transportation	250.00
17	Clinton G. Smith	Traveling expenses	30.23
	Albert F. Potter	do	61.50
	do	do	183.55
	Alfred Gaskill	do	99.83
	Ralph E. Sheldon	do	23.95
	Herman H. Chapman	do	29.63
	Wm. B. Howard	do	24.35
	Hermann von Schrenk	Expenses	199.45
	Raymond E. Benedict	Traveling expenses	135.25
	Elmer O. Wooton	do	104.77
	Chas. H. Herty	do	137.89
	C. D. Howe	do	56.73
	Z. L. Bliss	do	37.80
	C. A. Scott	do	105.03
	Theo. S. Woolsey, jr.	do	106.07
	Will L. Porterfield	do	16.25
	Henry F. Easter	do	21.70
	F. W. Besley	do	21.70
	Jno. E. Keach	do	38.50
	Sidney S. Riggs	do	40.35
	H. O. Tunis	do	17.00
	Wm. D. Sterritt	do	24.75
	Eugene S. Bruce	do	144.75
	Wm. W. Mott	do	17.00
	H. W. Newman	do	32.13
	A. C. Ringland	do	16.00
	Patrick Kennedy	do	19.91
	Carl G. Crawford	do	61.19
	Raymond E. Benedict	Services	60.60
	Fredk. Dunlap	do	25.30
	J. B. Jones	do	30.00
	Patk. Kennedy	do	38.71
	Homer A. Rogers	do	25.30
	Chas. H. Shinn	do	34.24
	Edwd. A. Ziegler	do	25.30
	J. H. Burdick	Traveling expenses	16.25

## Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## FORESTRY INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1902. Sept. 17	C. A. McCue	Traveling expenses	\$23.99
	G. S. Cleland	do	27.28
	H. J. Brown	do	30.90
	G. E. Clement	do	9.80
	H. S. Meekham	do	11.73
	Anson E. Cohoon	do	78.10
	Coert Du Bois	do	60.20
	Henry W. Newman	Services	40.40
	Jno. H. Bridges	Traveling expenses	25.35
	Asa S. Williams	do	24.35
	Oran R. Akers	do	1.45
	G. Fred. Schwarz	do	46.14
	Albert A. Cooper	do	9.64
	J. J. Davis	Saddle horse	30.00
	Woodruff Manufacturing Co	Tables	\$34.90
	Wm. F. Hubbard	Traveling expenses	65.90
	Jno. Foley	do	73.71
	Ewd. A. Bramiff	do	12.25
	B. J. Teasdale	do	52.88
	O. J. J. Luebker	do	63.41
	Reihle Bros. Testing Machine Co	Testing machine	2,900.00
	J. W. Stebbins	Wire and picket fence	483.37
	Amberg File and Index Co	Cabinet	60.00
	Keuffel & Esser Co	Compasses	133.20
	The Okonite Co. (Limited)	Wire	5.00
	Anson E. Cohoon	Services	60.60
	B. E. Livingston	do	25.30
	R. V. R. Reynolds	do	25.30
	J. P. Wentling	do	25.30
18	Southern Rwy. Co.	Passenger transportation	92.85
	do	do	74.39
	do	do	26.25
	do	do	11.05
	The Colorado and Southern Rwy. Co.	do	7.60
	Central of Georgia Rwy. Co	do	8.35
	Nashville, Chattanooga and St. Louis Rwy. Co.	do	5.85
	Georgia Southern and Florida Rwy. Co.	do	5.79
	Grand Rapids and Indiana Rwy. Co.	do	5.02
	Canadian Pacific Rwy. Co.	do	8.95
	Norfolk and Western Rwy. Co	do	5.35
	Abercrombie & Fitch	Wall tent	13.92
	S. D. Craig, jr	Binders	6.00
	Jno. Gaghan	Plumbing apparatus	32.50
	Densmore Typewriter Co	Card platen	8.80
	Capital Traction Co.	Car tickets	10.00
	Herman Baumgarten	Stencils	5.50
	Littlefield, Alvord & Co.	Moving furniture	15.00
	Merchants' Transfer and Storage Co	Transfer of packages	5.20
	Rudolph, West & Co	Screw hooks, etc.	29.06
	Pennsylvania R. R. Co.	Passenger transportation	51.50
	do	do	135.45
	Michigan Central R. R. Co	do	12.77
	Burlington and Missouri River R. R.	do	36.67
	New York, New Haven and Hartford R. R. Co	do	39.25
	The Pullman Co.	do	14.00
	do	do	25.00
	Texas and New Orleans R. R. Co	do	31.35
	The Chesapeake and Ohio Rwy. Co.	do	29.85
	Boston and Maine R. R. Co.	do	77.54
	The Wabash R. R. Co.	do	14.45
	Seaboard Air Line Rwy. Co	do	17.90
	Great Northern Rwy. Co.	do	1.08
20	W. L. Porterfield	Traveling expenses	28.30
	C. F. Alexander	do	13.90
	Ferris R. Miller	do	21.70
	Percy Brown	do	25.10
	H. W. Newman	do	35.75
	R. T. Fisher	do	49.42
	Albert W. Cooper	do	76.73
	K. L. Burns	do	89.45
	Geo. L. Clothier	do	103.53
	G. E. Tower	do	110.85
	C. O. Sparks	do	317.63
	Hugh P. Baker	do	155.24
	L. C. Miller	do	136.06
	Frank G. Miller	do	83.79
	Karl W. Woodward	Services	25.30
	Will L. Porterfield	do	43.23

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## FORESTRY INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Sept. 20	Oran R. Akers	Services	\$43.23
	Jewett & Son	Maps	5.00
22	Alfred Gaskill	Traveling expenses	92.19
	F. E. Olmsted	do	8.60
	Hamilton G. Merrill	do	35.02
	Jas. B. Jones	do	22.15
	R. E. Benedict	do	83.10
	J. L. Webb	do	38.15
23	F. W. Nevins	do	12.45
	do	do	38.55
	E. J. S. Moore	do	30.04
	Harry D. Tiemann	do	61.23
	Robt. W. Ayres	do	16.90
	J. Earl Barton	do	6.50
	Jno. M. Hatton	do	70.16
	Irwin E. Nagle	Services	25.30
25	Francis Miller	Paint	.60
	Chas. Becker	Lead in oil	.70
	The Maurice Joyce Engraving Co.	Autograph cut	.75
	Hugh Reilly	Plate glass, etc	7.64
	The Anthony & Scoville Co	Lantern slides, binders	.30
30	G. B. Sudworth et al.	Salaries	3,005.86
	Total first quarter		36,471.54
Oct. 1	J. Fred. Baker	Services	24.40
	Oran R. Akers	do	24.40
	Fred W. Besley	do	24.40
	W. C. Blasdale	do	24.40
	Jacob C. Blumer	do	24.40
	J. H. Burdick	do	24.40
	Wm. T. Cox	do	24.40
	Matt. Crosby	do	24.40
	Lew. C. Church	do	24.40
	S. M. Coulter	do	24.40
	Saml. B. Detwiler	do	24.40
	M. S. Erickson	do	24.40
	W. W. Everett	do	24.40
	Jas. M. Fetherolf	do	24.40
	Jno. D. Guthrie	do	24.40
	F. Tracy Hubbard	do	24.40
	Clifton D. Howe	do	24.40
	H. B. Holroyd	do	24.40
	Willis L. Jepson	do	24.40
	Royal S. Kellogg	do	24.40
	Burton E. Livingston	do	24.40
	Wm. H. Mast	do	24.40
	I. E. Nagle	do	24.40
	Titus G. Phillips	do	24.40
	Herbert A. Paul	do	24.40
	Wm. H. Peters	do	24.40
	Will L. Porterfield	do	24.40
	Louis H. Pammel	do	24.40
	N. Dean Rowe	do	24.40
	A. C. Ringland	do	24.40
	S. S. Riggs	do	24.40
	R. V. R. Reynolds	do	24.40
	R. S. Saltus	do	24.40
	E. R. Secrest	do	24.40
	Clinton G. Smith	do	24.40
	Robt. A. Sanborn	do	24.40
	Howard W. Taylor	do	24.40
	H. O. Tums	do	24.40
	E. H. P. Ward	do	24.40
2	G. Alleman	do	60.00
	Robt. W. Ayres	do	17.12
	Jno. B. Anderson	do	12.23
	Edw. T. Allen	do	79.89
	Hugh P. Baker	do	39.20
	Grant B. Bruce	do	73.40
	Z. L. Bliss	do	39.20
	Eugene S. Bruce	do	163.00
	H. J. Brown	do	22.01
	B. E. Babcock	do	22.83
	Jno. H. Bridges	do	14.67
	Percy Brown	do	12.23
	J. Earl Barton	do	10.60
	H. W. Ballantine	do	4.08
	Geo. L. Clothier	do	81.60
	G. E. Clement	do	81.60

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## FORESTRY INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Oct. 2	Anson E. Cohoon	Services	\$58.80
	Wm. W. Cheever	do	39.20
	Galen S. Cleland	do	39.20
	Edw. C. Carter	do	17.12
	F. D. Conden	do	14.67
	Albert W. Cooper	do	3.91
	Hugh M. Curran	do	58.80
	Coert Du Bois	do	81.60
	Fred. Dunlap	do	16.30
	C. T. Emmet	do	81.60
	Harry L. Everett	do	20.38
	Henry F. Easter	do	8.15
	H. Benj. Eastman	do	4.89
	Geo. Farley	do	58.80
	H. D. Foster	do	7.34
	Rollin G. Giffin	do	73.40
	Geo. Griswold	do	49.00
	Henry Grinnell	do	81.60
	Alfred Gaskill	do	81.60
	Austin F. Hawes	do	49.00
	Wm. C. Hodge, jr.	do	81.60
	Edwin M. Hamilton	do	81.60
	Willson P. Harris	do	49.70
	E. R. Hodson	do	39.20
	Reynolds Hill	do	39.20
	Wm. B. Howard	do	39.20
	Chas. H. Herty	do	163.00
	Wallace I. Hutchinson	do	20.38
	Saml. L. Higgins	do	10.60
	Felix R. Holt	do	6.52
	Jno. H. Hatton	do	39.20
	Ralph S. Hosmer	do	97.80
	Richd. P. Imes	do	58.80
	J. B. Jones	do	39.20
	J. M. Keeler, jr.	do	22.01
	David G. Kinney	do	39.20
	Jno. E. Klack	do	39.20
	Frank Klarpp	do	39.20
	Patek. Kennedy	do	100.00
	H. B. Kempton	do	58.80
	Theo. P. Lukins	do	58.80
	Geo. B. Lull	do	10.60
	Frank G. Miller	do	49.00
	C. A. McCue	do	39.20
	Ferris R. Miller	do	39.20
	H. S. Meekham	do	122.20
	E. W. Diarmid	do	12.23
	Walter J. Morrill	do	8.97
	H. G. Merrill	do	5.71
	F. B. Moody	do	5.71
	Louis C. Miller	do	58.80
	Henry W. Newman	do	39.20
	Frank W. Nevins	do	9.78
	J. G. Peters	do	22.83
	Albert F. Potter	do	122.20
	Allan B. Patterson	do	13.86
	Allen S. Peck	do	12.23
	Jno. W. Riggs	do	58.80
	Paul M. Rea	do	19.57
	Geo. K. Rubrecht	do	17.93
	Jere. Rebmann	do	16.30
	Frankl. W. Reed	do	81.60
	C. O. Sparks	do	39.20
	Chas. A. Scott	do	39.20
	Ralph E. Sheldon	do	23.64
	H. O. Stabler	do	15.49
	H. D. Scudder	do	6.52
	Saml. N. Spring	do	2.45
	Ernest A. Sterling	do	40.76
	Wm. D. Sterrett	do	16.30
	Harry D. Tiemann	do	73.40
	Frank Tompkins	do	39.20
	G. E. Tower	do	39.20
	Jas. W. Toumey	do	97.80
	Blaine S. Viles	do	19.57
	J. L. Webb	do	39.20
	Asa L. Williams	do	17.12
	Robt. B. Wilson	do	13.86
	Karl W. Woodward	do	8.15
	J. P. Wentling	do	24.40

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## FORESTRY INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Oct. 2	Raphael G. Zon	Services	\$58.80
	H. M. Curran	Traveling expenses	36.75
	J. W. Toumey	do	20.90
	C. T. Emmet	do	193.92
	Geo. Griswold	do	38.70
	Chas. H. Herty	do	143.17
	Wm. L. Hall	do	158.34
	Ralph S. Hosmer	do	50.55
	Edw. T. Allen	do	61.25
6	Wyckoff, Seamans & Benedict	Typewriter	461.25
	Woodruff Manufacturing Co.	File case	127.50
	E. J. Pullman	Slide plates	10.56
	R. E. Benedict	Services	58.80
	Edw. A. Braniff	do	120.00
	Chas. S. Chapman	do	81.60
	Wesley J. Gardner	do	49.00
	Wm. R. Lazenby	do	49.70
	W. W. Mackie	do	244.63
	E. J. S. Moore	do	19.57
	H. K. Porter	do	58.80
	Chas. H. Shinn	do	146.80
	Alfred C. Weed	do	8.97
	Alpheus O. Waha	do	24.40
	Wm. D. Sterrett	Traveling expenses	20.75
	Ralph H. Field	do	25.65
	W. W. Mackie	do	27.55
	Theo. S. Woolsey, jr	do	120.41
	H. K. Porter	do	59.32
	G. S. Cleland	do	12.59
	W. P. Harris	do	17.15
	do	do	38.05
	Saml. M. Higgins	do	4.90
	Reynolds Hill	do	151.15
7	D. F. Parker	Paper	15.00
	Lutz & Co	Camera cases	21.00
	Houghton & Delano	Photo materials	120.62
9	Jno. R. Raley	Services	36.68
	Henry Grinnell	Traveling expenses	94.39
10	Jno. Foley	do	133.55
	Thos. H. Sherrard	do	112.20
	Robt. A. Sanborn	do	51.18
	Geo. Griswold	do	50.09
	J. H. Burdick	do	43.61
	Wm. H. Krieg	do	21.17
	Percy Brown	do	8.50
	Richd. P. Imes	do	19.20
	H. O. Tunis	do	42.62
	W. J. Gardner	do	61.68
	E. W. McDiarmid	do	55.25
	Gilbert Alleman	do	111.50
	The M. Lindsay Rubber Co	Rubber hose	3.60
	Richd. L. Lamb	Band dater	22.75
	Z. D. Gilman	Alum	.90
	Jno. C. Parker	Fountain pens, etc	61.50
	Geo. F. Muth & Co	Hard oil, etc	44.97
	W. B. Moses & Sons	Chair	5.90
	C. A. Schneider's Sons.	Iron blocks	1.00
	E. G. Schafer Co	Photo materials	28.39
	E. R. Lake	Services	239.73
	Theo. S. Woolsey, jr	do	27.39
	H. J. Tompkins	do	13.04
14	H. M. Curran	Traveling expenses	9.25
	Ferris R. Miller	do	16.24
	R. M. Fontaine, jr	do	16.50
	O. W. Price	do	59.40
15	Jno. E. Keach	do	47.46
	Raphael G. Zon	do	55.33
	Grant B. Bruce	do	21.50
16	Eugene S. Bruce	do	442.59
	E. A. Braniff	do	14.10
	A. B. Patterson	do	21.22
	H. J. Brown	do	61.23
	G. E. Tower	do	80.00
	Patk. Kennedy	do	36.75
	E. M. Hamilton	do	31.20
	I. T. Wortherly	do	4.15
	Chas. E. Bessey	do	2.25
	T. P. Lukins	do	39.90
	W. I. Hutchinson	do	23.94

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## FORESTRY INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Oct. 16	Rulph E. Sheldon .....	Traveling expenses .....	\$21.45
	Asa S. Williams .....	do .....	14.35
	J. L. Webb .....	do .....	33.05
	Clinton G. Smith .....	do .....	51.01
	Harrold B. Kempton .....	do .....	320.45
	Jas. B. Jones .....	do .....	43.73
	Abercrombe & Fitch .....	Tent, etc .....	24.78
	Keuffel & Esser .....	Section paper .....	109.80
	Yawman & Erbe Manufacturing Co. ....	Cupboard base .....	42.08
	Herbert A. Smith .....	Services .....	7.00
17	Wm. L. Hall .....	Traveling expenses .....	186.10
	Jno. H. Hatton .....	do .....	84.20
	F. W. Besley .....	do .....	30.80
	Robt. B. Wilson .....	do .....	55.65
	L. C. Miller .....	do .....	85.76
	H. D. Tiemann .....	do .....	37.75
	H. W. Newman .....	do .....	64.61
	Wm. B. Howard .....	do .....	35.65
	R. E. Benedict .....	do .....	89.45
	C. O. Sparks .....	do .....	281.42
	Thos. Somerville & Sons .....	Repairs on machinery .....	29.78
	E. Morrison Paper Co .....	Stationery .....	29.25
	Jas. B. Lambie .....	Tag screws, etc .....	14.33
	Fred A. Schmidt .....	Photo materials .....	5.47
	The Burnet Co .....	Wire .....	1.92
18	A. D. Hopkins .....	Traveling expenses .....	298.51
20	Burton E. Babcock .....	do .....	45.25
	Alfred Gaskill .....	do .....	16.90
	Oran R. Akers .....	do .....	45.33
	do .....	do .....	20.25
	Sidney S. Riggs .....	do .....	6.75
	Albert F. Potter .....	do .....	88.80
	Wesley J. Gardner .....	do .....	58.37
21	Rudolph, West & Co .....	Drip pan, etc .....	28.02
23	Jas. E. Gow .....	Traveling expenses .....	26.50
	Wm. B. Howard .....	do .....	22.85
	Carl G. Crawford .....	do .....	60.13
	do .....	do .....	32.53
	Will L. Porterfield .....	do .....	44.88
	do .....	do .....	17.45
	Jno. H. Bridges .....	do .....	12.50
	E. J. S. Moore .....	do .....	32.23
	Sidney S. Riggs .....	do .....	32.00
	G. Fred. Schwarz .....	do .....	63.80
	Anson E. Cohoon .....	do .....	66.32
	Frank G. Miller .....	do .....	100.71
	Hugh P. Baker .....	do .....	134.42
	Jas. E. Gow .....	Services .....	24.40
25	Wm. T. Cox .....	Traveling expenses .....	115.03
	W. K. Hall .....	do .....	21.20
	Chas. H. Herty .....	do .....	193.35
	R. F. Fisher .....	do .....	97.49
27	Jas. E. Gow .....	do .....	14.95
	Edw. A. Braniff .....	do .....	19.05
	Alpheus O. Waha .....	do .....	29.70
	Hartley B. Holroyd .....	do .....	43.28
	E. R. Hodson .....	do .....	40.45
	R. H. Field .....	do .....	18.55
	H. S. Meekham .....	do .....	8.15
28	The Maurice Joyce Engraving Co. ....	Die .....	.50
31	G. B. Sudworth et al .....	Salaries .....	3,698.61
Nov. 1	Alpheus O. Waha .....	Services .....	25.30
	Howard W. Taylor .....	do .....	25.30
	E. R. Secrest .....	do .....	25.30
	A. C. Ringland .....	do .....	25.30
	Sidney S. Riggs .....	do .....	25.30
	Herbert A. Paul .....	do .....	25.30
	Wm. H. Peters .....	do .....	25.30
	Jas. E. Gow .....	do .....	25.30
	Jno. S. Guthrie .....	do .....	25.30
	Lew C. Church .....	do .....	25.30
	C. A. McCue .....	do .....	40.40
	David G. Kinney .....	do .....	40.40
	Frank Tompkins .....	do .....	40.40
	Wm. W. Cheever .....	do .....	40.40
	Henry W. Newman .....	do .....	60.60
	Geo. Farley .....	do .....	60.60
	Rollin G. Giffin .....	do .....	75.80
	Frank W. Reed .....	do .....	84.20
	Chas. S. Chapman .....	do .....	84.20



*Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.*

## FORESTRY INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Nov. 1	Coert Du Bois	Services	\$84.20
	G. E. Clement	do	84.20
	Hofer S. Meekham	do	126.40
	Engene S. Bruce	do	168.50
	Thos. S. Sherrard	Traveling expenses	21.75
	Wm. C. Hodge, jr	do	432.78
	Chas. S. Chapman	do	252.86
3	J. P. Wentling	Services	25.30
	R. V. R. Reynolds	do	25.30
	Louis H. Pammel	do	25.30
	Titus G. Phillips	do	25.30
	Irwin E. Nagle	do	25.30
	Wm. H. Mast	do	25.30
	Burton E. Livingston	do	25.30
	Jno. M. Keeler, jr	do	25.30
	Royal S. Kellogg	do	25.30
	Willis L. Jepson	do	25.30
	Richard P. Imes	do	25.43
	Clifton D. Howe	do	25.30
	Jacob C. Blumer	do	25.30
	J. Fred Baker	do	25.30
	W. C. Blaisdale	do	25.30
	Matt. Crosby	do	25.30
	Wm. T. Cox	do	25.30
	S. M. Coulter	do	25.30
	Saml. D. Detwiler	do	25.30
	M. L. Erickson	do	25.30
	Wallace W. Everett	do	25.30
	Jas. M. Fetherolf	do	25.30
	J. L. Webb	do	40.40
	G. E. Tower	do	40.40
	Chas. A. Scott	do	40.40
	C. O. Sparks	do	40.40
	Ferris R. Miller	do	40.40
	Jno. E. Keach	do	40.40
	Frank Klarpp	do	40.40
	J. B. Jones	do	40.40
	Wm. B. Howard	do	40.40
	Jno. H. Hatton	do	40.40
	E. R. Hodson	do	40.40
	Reynolds Hill	do	40.40
	Zina L. Bliss	do	40.40
	E. A. Sterling	do	84.20
	Wm. C. Hodge, jr	do	84.20
	Edw. M. Hamilton	do	84.20
	C. Temple Emmet	do	84.20
	Austin F. Hawes	do	50.50
	G. Alleman	do	60.60
	Raymond E. Benedict	do	60.60
	Anson E. Cohoon	do	60.60
	Harrold B. Kempton	do	60.60
	Theo. P. Lukins	do	60.60
	H. K. Porter	do	60.60
	Jno. W. Riggs	do	60.60
	W. J. Gardner	do	50.50
	Ralph H. Field	do	49.70
	Geo. L. Clothier	do	43.48
	Hugh P. Baker	do	13.04
	Burton E. Babcock	do	12.23
	Fred W. Besley	do	12.23
	Edw. T. Allen	do	30.43
	Oren R. Akers	do	12.23
	Hartley B. Holroyd	do	4.08
	F. Tracy Hubbard	do	10.60
	Louis C. Miller	do	29.35
	Frank G. Miller	do	14.67
	Will L. Porterfield	do	12.23
	Clinton G. Smith	do	12.23
	H. O. Tunis	do	12.23
	Ralph S. Hosmer	do	101.10
	Chas. H. Herty	do	168.50
	Patek. Kennedy	do	100.00
	W. W. Mackie	do	151.60
	Albert F. Potter	do	126.40
	Chas. H. Shinn	do	151.60
	Edw. A. Braniff	do	115.00
	Jas. D. Toumey	do	101.10
	H. J. Tompkins	do	101.10
	Grant B. Bruce	do	75.80
	C. A. Scott	Traveling expenses	96.16

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## FORESTRY INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Nov. 3	Z. L. Bliss	Traveling expenses	\$48.60
	Carl G. Crawford	do	93.18
	Wm. C. Hodge, jr	do	6.00
	Geo. L. Clothier	do	118.57
	Paul M. Rea	do	42.95
	Homer A. Rodgers	do	97.25
5	Jas. E. Gow	do	10.50
6	G. E. Clement	do	5.85
	David G. Kinney	do	5.50
	Henry S. Graves	do	25.95
	Clifton D. Howe	do	65.44
	Chas. H. Shinn	do	112.25
	F. E. Olmsted	do	143.89
	Eugene S. Bruce	do	221.64
8	H. B. Kempton	do	219.99
	G. Fred. Schwarz	do	123.19
	W. G. Gardner	do	4.40
	R. E. Field	do	25.65
	M. L. Erickson	do	56.55
	Raphael H. Zon	do	20.56
	Austin T. Hawes	do	95.06
	Rollin G. Giffin	do	28.45
	Jno. W. Riggs	do	48.60
11	J. L. Webb	do	58.95
	C. A. McCue	do	38.80
	Theo. S. Woolsey, jr	do	135.83
	Z. L. Bliss	do	72.85
	Coert Du Bois	do	67.65
	Jno. D. Guthrie	do	23.75
	A. C. Ringland	do	7.60
	J. Fred Baker	do	16.15
	H. J. Tompkins	do	112.56
	W. W. Mackie	do	72.25
	Chas. H. Shinn	do	109.84
	Herbert A. Smith	do	15.00
	do	do	2.95
	Wm. R. Lazenby	Services	25.30
	Homer A. Rogers	do	8.15
	Herbert A. Smith	do	91.00
	H. D. Tiemann	do	23.00
13	Church & Stephenson	Repairs	91.95
	Mackall Bros	Photo supplies	22.45
	E. J. Pullman	do	22.75
	Rudolph West & Co	Materials for photo laboratory	8.34
17	W. W. Mackie	Traveling expenses	129.47
	Herbert A. Paul	do	14.68
	H. W. Newmann	do	22.07
	R. E. Benedict	do	58.90
	A. F. Potter	do	82.65
	Samuel B. Detwiler	do	24.15
	C. O. Sparks	do	194.05
	Chas. A. Scott	do	277.68
	David G. Kinney	do	39.45
	W. W. Cheever	do	10.75
	Wm. H. Peters	do	19.40
	Anson E. Cohoon	do	68.60
	M. O. Jensen	Services	29.03
	Hermann von Schrenk	Expenses	51.10
	E. N. Crane	Photos	7.50
	H. C. Squires & Son	Dutch cloth	165.44
	W. & L. E. Gurley	Chains	119.00
	Abercrombie & Fitch	Silk, etc	26.28
	Keuffel & Esser Co	Calipers	162.50
	International Motor Car Co	Boiler	50.00
	Chas. S. Jenkins, jr	Map rack	55.00
	The Washington Woodworking Co	Redwood	.75
	Capital Traction Co	Car tickets	10.00
	Amberg File and Index Co	Cabinet indexes	7.60
	S. P. Johnson	Card platen	84.75
	The Maurice Joyce Engraving Co	Die	.75
	Woodward & Lothrop	Desk	135.00
	Walker & Hazleton	Bicycle	20.00
	Louis Giclas	Lamp shade	3.75
	D. Rickenbacker	Repairing clock	2.50
	Lutz & Co	Chair seats, etc	33.60
	Clark & Davenport	Carpet	3.00
	Barber & Ross	Nails, etc	.90
	Hugh Reilly	Enamel	1.00
19	H. E. Burk	Traveling expenses	22.06
	Coert Du Bois	do	21.51

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## FORESTRY INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Nov. 19	Library Bureau	Cards, etc.	\$93.75
	Houghton & Delano	Tripods, etc.	99.02
	R. Carter Ballantyne	Paper weights	26.45
20	Titus G. Phillips	Traveling expenses	24.80
	Wesley J. Gardner	do	95.47
	Reynolds Hill	do	122.05
	Howard W. Taylor	do	35.53
	Geo. Griswold	do	59.71
	Anson E. Cohoon	do	19.30
	E. A. Braniff	do	15.73
	R. L. Burns	Services	24.40
21	Kelly Axe Manufacturing Co.	Axes	13.50
	The Geo. B. Donavin Co.	Ranges	38.25
	Hugh Reilly	Glass, etc.	4.11
	Thos. Somerville & Sons	Gauge, etc.	5.50
	Geo. F. Muth & Co.	Oil, etc.	41.30
	Wyckoff, Seamans & Benedict	Typewriter	99.50
	National Electrical Supply Co.	Repairing camera	5.00
	A. Eberly Sons	Stove, etc.	11.70
	F. & J. K. Bishop	Disco paper	52.93
22	Yawman & Erbe Manufacturing Co.	Document sections	18.00
	do	Guides	2.20
	Jno. B. Espey	Stencils	1.00
28	H. N. Whitford	Traveling expenses	8.19
	K. L. Burns	do	76.20
	Reynolds Hill	do	40.63
	Woodruff Manufacturing Co.	Drawing racks	302.10
29	Lauxman & Sincell	Gas extensions	14.00
	Fred. A. Schmidt	Pens	54.04
	Holmes Rubber Co.	Gloves	3.75
	Geo. B. Sudworth et al	Salaries	3,242.38
Dec. 1	Ernest A. Sterling	Services	81.60
	Geo. B. Sudworth	Traveling expenses	659.00
	H. K. Porter	do	134.73
	do	do	180.10
2	Jewett & Son	Maps	2.00
	J. I. Holcomb Manufacturing Co.	Brushes	6.50
	Jno. C. Parker	Labels, etc.	11.84
	Jno. M. Keeler, jr.	Services	24.40
	Wallace W. Everett	do	24.40
	M. L. Erickson	do	24.40
	Jas. C. Gow	do	24.40
	R. H. Field	do	24.40
	Saml. B. Detwiler	do	24.40
	G. Alleman	do	60.00
	W. W. Cheever	do	39.20
	Reynolds Hill	do	39.20
	Wm. C. Hodge, jr.	do	81.60
	Chas. H. Herty	do	163.00
	E. R. Hodson	do	39.20
	Frank Tompkins	do	39.20
	Howard W. Taylor	do	24.40
	Jas. W. Toumy	do	97.80
	W. W. Mackie	do	127.17
	Herbert A. Paul	do	24.40
	W. H. Peters	do	24.40
	A. F. Potter	do	122.20
	A. O. Waha	do	24.40
	A. C. Ringland	do	24.40
	Irwin E. Nagle	do	24.40
	S. M. Coulter	do	24.40
	Burton E. Livingston	do	24.40
	Louis H. Pammel	do	24.40
	W. C. Blaisdale	do	24.40
	Clifton D. Howe	do	24.40
	Jno. D. Guthrie	do	24.40
	Jas. M. Fetherolf	do	24.40
	Lew C. Church	do	24.40
	R. V. R. Reynolds	do	24.40
	Wilkie C. Clark	do	18.75
	Ovid M. Butler	do	17.12
	J. Fred. Baker	do	24.40
	Clayton D. Mell	do	24.40
	Carl M. Erdman	do	17.93
	Matt Crosby	do	24.40
	J. P. Wentling	do	24.40
	Jos. A. Fitzwater	do	24.40
	J. S. Holmes	do	17.12
	Jno. E. Semmes	do	17.93
	Wm. T. Cox	do	24.40

## 278 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## FORESTRY INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Dec. 2	Titus G. Phillips	Services	\$24.40
	Royal S. Kellogg	do	24.40
	Frank Klarpp	do	39.20
	H. K. Porter	do	70.87
	Oran R. Akers	do	31.80
	F. W. Besley	do	31.80
	Will L. Porterfield	do	31.80
	S. S. Riggs	do	24.40
	E. R. Seerist	do	24.40
	Jacob C. Blumer	do	24.40
	Burton E. Babcock	do	31.80
	J. H. Burdick	do	31.80
	H. S. Meekham	do	122.20
	C. O. Sparks	do	39.20
	Zena L. Bliss	do	39.20
	Wm. H. Mast	do	39.20
	Thos. H. Sherrard	do	146.80
	R. S. Hosmer	do	97.80
	Patk. Kennedy	do	100.00
	Eugene S. Bruce	do	163.00
	M. C. Jensen	do	50.00
3	Jas. B. Jones	Traveling expenses	77.70
	Patk. Kennedy	do	108.58
	Wm. C. Dodge, jr	do	201.81
	A. O. Waha	do	39.05
	E. M. Hamilton	do	56.71
	T. P. Lukens	do	165.75
	C. T. Emmet	do	62.00
	Chas. S. Chapman	do	110.05
	C. T. Emmet	Services	81.60
	R. G. Giffin	do	73.40
	Geo. Farley	do	58.80
	Henry W. Newman	do	58.80
	R. E. Benedict	do	58.80
	Anson E. Conoon	do	58.80
	Raphael G. Zorn	do	58.80
	Theo. P. Lukins	do	58.80
	Chas. A. Scott	do	49.00
	Jno. H. Hatton	do	49.00
	W. J. Gardner	do	49.00
	Austin F. Hawes	do	49.00
	Geo. Griswold	do	49.00
	J. L. Webb	do	49.00
	Harold B. Kempton	do	58.80
	Jno. W. Riggs	do	58.80
	Frankl. W. Reed	do	81.60
	G. E. Clement	do	81.60
	Jno. E. Keach	do	39.20
	C. A. McCue	do	39.20
	David G. Kinney	do	39.20
	Wm. B. Howard	do	39.20
	G. E. Tower	do	39.20
	Ferris R. Miller	do	39.20
	H. J. Tompkins	do	22.83
	Edw. M. Hamilton	do	81.60
	Coert Du Bois	do	81.60
	J. B. Jones	do	39.20
	Chas. S. Chapman	do	81.60
	Chicago, Milwaukee and St. Paul Rwy. Co.	Passenger transportation	27.50
	Seaboard Air Line Rwy. Co.	do	11.15
	The Atchison, Topeka and Santa Fe Rwy. Co.	do	1.08
	do	do	7.60
	do	do	71.30
	do	do	71.85
	Chicago and Alton Rwy. Co.	do	5.10
	Norfolk and Western Rwy. Co.	do	105.20
	Santa Fe, Prescott and Phoenix Rwy. Co.	do	35.00
	do	do	79.00
	Lehigh Valley R. R. Co.	do	9.95
	Great Northern Rwy. Co.	do	24.51
	do	do	83.01
	Louisville and Nashville R. R. Co.	do	47.01
	do	do	4.52
	The Southern Kansas Railroad of Texas	do	10.02
	Canadian Pacific Rwy. Co.	do	7.35
	Minnesota and International Rwy. Co.	do	3.16
	Duluth, South Shore and Atlantic Rwy. Co.	do	20.21
	Delaware, Lackawanna and Western R. R. Co.	do	5.65

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## FORESTRY INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Dec. 3	Boston and Maine R. R. Co.	Passenger transportation	\$15.00
	Freemont, Elkhorn and Missouri Valley Rwy. Co.	do	3.85
	Minneapolis, St. Paul and Sault Ste. Marie Rwy. Co.	do	16.45
	St. Johnsbury and Lake Champlain R. R. Co.	do	5.29
	Central of Georgia Rwy. Co.	do	13.28
	Cincinnati, New Orleans and Texas Pacific Rwy. Co.	do	15.60
	Georgia and Southern Florida Rwy. Co.	do	4.35
	Nashville, Chattanooga and St. Louis Rwy. Co.	do	12.39
	Maine Central R. R. Co.	do	3.90
	New York, New Haven and Hartford R. R. Co.	do	64.00
	Bangor and Aroostook R. R. Co.	do	67.00
	The Long Island R. R. Co.	do	9.20
	Michigan Central R. R. Co.	do	16.50
	The Oregon R. R. and Navigation Co.	do	112.05
	The Chesapeake and Ohio Rwy. Co.	do	15.00
4	F. E. Olmsted	Traveling expenses	48.31
	E. T. Fisher	do	73.43
	Rollin G. Griffin	do	5.50
	Chas. S. Chapman	do	94.89
	W. J. Woods	Stove, etc	24.10
	The Geo. W. Knox Express Co.	Transportation	7.60
	do	do	31.31
	do	do	7.93
	E. A. Braniff	Services	75.00
	Herbert A. Smith	do	21.00
6	M. Du Perow	Cut-outs, etc	11.00
	W. H. Dyer	Ripping lumber	9.50
8	Herbert A. Smith	Traveling expenses	3.55
	Matt. Crosby	do	18.50
	H. von Schrenk	Expenses	160.52
	Eberhard Faber	Rubber bands	1.54
10	Ernest A. Sterling	Traveling expenses	167.34
	A. D. Hopkins	do	86.50
11	Harry D. Ticmann	Services	10.00
	Chas. H. Herty	Traveling expenses	157.02
	Wm. T. Cox	do	117.83
13	A. C. Ringland	do	30.90
	G. E. Tower	do	129.05
	W. P. Harris	Services	9.78
16	Hugh McCurran	do	119.40
	Rufus B. Merchant	Route maps	19.20
	The American News Co.	Ink eradicators	27.27
	F. A. Van Sant	Views	9.50
	The G. B. Donavin Co.	Cooking range	12.75
	Martin Wiegand	Tags	1.20
	E. S. Newman	Copy holder	4.50
	Houghton & Delano	Photo supplies	9.93
	E. F. Vermillion	Inspection of boiler	5.00
	Hermann Baumgarten	Sign marker	11.00
	W. H. Hall	Cleaning rooms	10.00
19	C. O. Sparks	Traveling expenses	16.85
	Edw. M. Hamilton	do	31.75
	Coert Du Bois	do	69.98
	Patk. Kennedy	do	14.66
	H. W. Newman	do	30.00
	Eugene S. Bruce	do	217.05
	Chas. A. Scott	do	120.91
	Austen F. Hames	do	51.40
	H. von Schrenk	do	89.72
	Albert F. Potter	do	94.00
	W. J. Gardner	do	76.62
	Jno. W. Riggs	do	93.20
	R. V. E. Reynolds	do	5.75
	Saml. B. Detwiler	do	38.00
	W. W. Mackie	do	55.50
	Baltimore and Ohio R. R. Co.	Passenger transportation	26.30
	New York Central and Hudson River R. R. Co.	do	134.32
	Northern Pacific Rwy. Co.	do	65.10
	Baltimore and Ohio R. R. Co.	do	115.35
	New York Central and Hudson River R. R. Co.	do	22.15
	Burlington and Missouri River R. R. Co.	do	66.50
	Pennsylvania Co.	do	2.75

280 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

FORESTRY INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Dec. 19	Southern Rwy. Co.	Passenger transportation	\$25.80
	Northern Pacific Rwy. Co	do	60.50
	do	do	69.37
	Burlington and Missouri River R. R. Co	do	114.33
	Pennsylvania Co	do	35.00
	Southern Rwy. Co.	do	28.85
	Baltimore and Ohio R. R. Co.	do	18.67
	Pennsylvania R. R. Co	do	42.75
	do	do	73.70
	New York Central and Hudson River R. R. Co.	do	9.75
	do	do	39.59
	Pennsylvania R. R. Co	do	87.95
22	Z. L. Bliss	Traveling expenses	43.26
27	H. K. Porter	do	93.25
	Jno. M. Keeler, jr	do	28.18
	Lew C. Church	do	10.25
	M. C. Jensen	do	28.53
	Geo. B. Sudworth	do	204.00
	J. H. Hatton	do	183.20
	T. P. Lukens	do	541.38
	R. E. Benedict	do	8.84
	Jas. B. Jones	do	79.96
	Reynolds Hill	do	253.21
	Geo. Griswold	do	24.76
	W. H. Mast	do	16.54
	Harold B. Kempton	do	262.15
	Z. L. Bliss	do	48.00
	Geo. Farley	do	14.70
	Wm. T. Cox	do	72.60
	do	do	18.00
	M. C. Jensen	do	27.04
	Jno. Foley	do	75.70
	Albert F. Potter	do	48.20
	O. J. J. Luebker	do	30.60
	E. A. Braniff	do	34.40
	E. A. Bennett	do	26.35
31	Robt. A. Sanborn	Services	12.23
	G. B. Sudworth et al	Salaries	3,702.89
	Total second quarter		48,762.33
1903.			
Jan. 3	Royal S. Kellogg	Services	25.30
	W. C. Blasdale	do	25.30
	L. H. Pammell	do	25.30
	B. E. Livingston	do	25.30
	S. M. Coulter	do	25.30
	M. L. Erickson	do	25.30
	Saml. B. Detwiler	do	25.30
	Clifton D. Howe	do	25.30
	S. S. Riggs	do	25.30
	Jas. M. Fetherolf	do	25.30
	Will L. Porterfield	do	25.30
	Herbert A. Paul	do	25.30
	W. H. Peters	do	25.30
	Burton E. Babcock	do	25.30
	J. H. Burdick	do	25.30
	Ovid M. Butler	do	25.30
	Lew C. Church	do	25.30
	Carl M. Erdman	do	25.30
	Jos. A. Fitzwater	do	25.30
	Jno. D. Guthrie	do	25.30
	S. J. Holmes	do	25.30
	Jno. M. Keeler, jr	do	25.30
	Howard W. Taylor	do	25.30
	H. G. Tunis	do	25.30
	A. C. Ringland	do	25.30
	Jno. E. Semmes, jr	do	25.30
	A. O. Waha	do	25.30
	Jas. E. Grow	do	25.30
	R. H. Field	do	25.30
	Wallace W. Everett	do	25.30
	J. B. Jones	do	40.40
	Reynolds Hill	do	40.40
	Wm. H. Mast	do	40.40
	C. O. Sparks	do	40.40
	Zina L. Bliss	do	40.40
	C. A. McCue	do	40.40
	David D. Kinney	do	40.40

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## FORESTRY INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Jan. 3	Wm. W. Cheever	Services	\$40.40
	E. R. Hodson	do	40.40
	Frank Tomkins	do	40.40
	G. E. Tower	do	40.40
	Jno. E. Keach	do	40.40
	Wm. B. Howard	do	40.40
	Frank Klarpp	do	40.40
	Chas. A. Scott	do	50.50
	Jno. H. Halton	do	50.50
	J. L. Webb	do	50.50
	W. J. Gardner	do	50.50
	Geo. Griswold	do	50.50
	Hugh M. Curran	do	60.60
	Henry W. Newman	do	60.60
	Geo. Farley	do	60.60
	Raphael G. Zon	do	60.60
	T. P. Lukens	do	60.60
	Jno. W. Riggs	do	60.60
	G. Alleman	do	60.00
	Franklin W. Reed	do	84.20
	Wm. C. Hodge, jr	do	84.20
	G. E. Clement	do	84.20
	Chas. S. Chapman	do	84.20
	Edw. M. Hamilton	do	84.20
	Coert Du Bois	do	84.20
	W. L. Jekson	do	49.70
	Oren R. Akers	do	13.86
	Wm. R. Lazenby	do	49.70
	R. V. R. Reynolds	do	33.10
	Albert T. Potter	do	126.40
	R. G. Griffin	do	75.80
	H. S. Meekham	do	126.40
	Thos. H. Sherrard	do	151.60
	Jas. W. Toumey	do	101.10
	Ralph S. Hasmer	do	101.10
	Chas. H. Herty	do	168.50
	Eugene S. Bruce	do	168.50
	E. A. Braniff	do	75.00
	I. E. Nagle	do	7.34
	Herbert A. Smith	do	49.00
	Jacob C. Blumer	do	12.23
	Titus G. Phillips	do	15.49
	Wm. T. Cox	do	12.23
	Matt. Crosby	do	15.49
	Austin T. Hawes	do	37.50
	F. W. Besley	do	12.23
	E. R. Secrist	do	17.12
5	Wilkie C. Clark	do	20.38
	Frank Tomkins	Traveling expenses	26.95
	R. T. Fisher	do	72.55
	Ralph S. Hosmer	do	68.25
	Chas. H. Herty	do	191.45
	Titus G. Phillips	do	21.40
	Rudolph West & Co	Back flaps, etc	10.60
	Geo. Schilling	Repairing instruments	.60
	Estate of W. P. Rupp	Ink well	1.00
	R. P. Anderson & Co. (Incorporated)	Wax paper	5.60
6	W. K. Halt	Traveling expenses	25.30
8	Matt. Crosby	do	23.05
	Harry D. Tiemann	Services	60.00
9	J. C. Blumer	Traveling expenses	3.70
	Alfred Gaskill	do	3.60
12	B. J. Teasdale	do	28.75
	Harold B. Kempton	do	28.45
13	Z. D. Gilman	Alum	.90
	Sawyer & Wagner	Paper	2.50
	Geo. E. Corbett	Plate glass	13.80
	F. & J. K. Bishop Art Co	Photographic supplies	38.08
	Holmes & Co	Rubber hose	2.00
	Darius E. Burton	Ax handles	6.40
	M. Du Perow	Drop annunciator	12.98
	J. W. Fawcett	Window shades	21.85
	Wm. H. Dyer	Wire molding	2.25
	Lamb & Tilden	Stamp racks	2.50
	J. & H. Atchison	Soft-steel blocks	32.80
	Lutz & Co	Leather seats for chairs	2.75
15	Yawman & Erbe Manufacturing Co	Box drawer sections	29.25
	Library Bureau	Library	120.30
	F. W. Bicknell	Expenses	4.00
	Chas. A. Scott	Traveling expenses	41.41

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## FORESTRY INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1903, Jan. 15	Henry Grinnell	Traveling expenses	\$50.30
	Jno. W. Riggs	do	51.85
	E. R. Secrist	do	61.70
	M. L. Erickson	do	10.25
	Jos. A. Fitzwater	do	26.68
	Austin F. Hawes	do	57.22
	H. von Schrenk	do	81.30
	do	do	114.55
	Ray. L. Marsden	Services	71.07
	M. C. Jensen	do	50.00
	Alfred Ackerman	do	71.07
16	H. K. Porter	do	84.20
	R. E. Benedict	do	60.60
	L. Bradley, jr	do	11.41
	Louis Hartig	Iron	.49
	Geo. M. Baldwin	Southern pine	31.70
17	Geo. Griswold	Traveling expenses	28.17
	H. W. Newman	do	64.45
	Eugene S. Bruce	do	233.02
	T. P. Lukens	do	252.73
	Chas. A. Scott	do	90.29
	C. A. Sparks	do	25.90
	Reynolds Hill	do	92.00
	Edwin M. Hamilton	do	67.30
19	Wesley J. Gardner	do	61.47
	Henry S. Graves	do	30.30
	Wm. R. Lazenby	do	50.60
	Wm. H. Mast	do	14.30
	W. J. Woods	Office fixtures	33.25
20	Alfred Ackerman	Traveling expenses	30.64
	Andrew Stewart	Turpentine oil	3.35
	J. P. Nawrath	Wrapping paper	15.90
	Jno. Underwood & Co.	Carbon paper	12.60
21	Dulin & Martin	Filter	2.50
	Chas. Becker	Photo supplies	.70
	Wm. H. Deyer	Labor	3.00
	D. Frank Parker	Paper	5.75
	Chas. R. Edmonston	Supplies	16.94
	E. J. Pullman	Photo supplies	37.56
	Fred A. Schmidt	Drawing material	20.20
	Houghton & Delano	Photo material	1.76
	Barber & Ross	Nails, etc	26.05
	Neely Electric Construction and Supply Co	Electric supplies	4.92
	Church & Stephenson	Material for file cases	151.45
	Jno. C. Parker	Letter files, etc	31.75
	Mackall Bros	Photo supplies	7.90
	Merchants' Transportation and Storage Co.	Moving furniture	20.50
	Rudolph, West & Co	Yale locks, etc	19.22
	The J. C. Ergood Co	Lye	.44
	W. B. Moses & Sons	Furniture	48.37
	Hugh Reilly	Glass, etc	9.12
	Ge. J. Muth & Co.	Drawing materials	50.40
	Lutz & Co	Chair seats	2.00
	R. Carter Ballantyne	Stationery	57.81
	Saml. B. Detwiler	Traveling expenses	20.45
	Logan W. Page	do	34.65
22	Blue Line Transfer Co	Transportation	1.71
	Postal Telegraph Cable Co	Service	3.27
	G. Fred Schwarz	Traveling expenses	33.05
	Jno. H. Norton	do	48.25
	Gilbert Alleman	do	90.06
23	Wm. H. Krug	do	3.70
24	M. C. Jensen	do	41.77
	C. E. Clark	Hay	30.00
	Bangor and Aroostook R. R. Co	Passenger transportation	56.60
	Chicago, Burlington and Quincy Rwy. Co.	do	97.90
	Georgia Southern and Florida Rwy. Co.	do	3.49
	Santa Fe, Prescott and Phoenix Rwy. Co.	do	91.70
	Chicago and Northwestern Rwy. Co.	do	6.82
	Cooperstown and Charlotte Valley R. R. Co.	do	13.13
	Bangor and Aroostook R. R. Co.	do	38.40
	Atchison, Topeka and Santa Fe Rwy. Co.	do	57.50*
	Georgetown and Western R. R. Co.	do	24.00
	Denver and Rio Grande R. R. Co.	do	6.85
	Maine Central R. R. Co.	do	17.30
	The Colorado Southern Rwy. Co.	do	30.41
	The Chicago and Alton Rwy. Co.	do	7.50
	Seaboard Air Line	do	20.00
	Texas and New Orleans R. R. Co.	do	51.35



Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## FORESTRY INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Jan. 24	Woodward & Lothrop	Shades	\$41.22
	The Geo. W. Knox Express Co.	Transportation	8.80
26	Northern Pacific Rwy. Co.	Passenger transportation	54.18
	Fremont, Elkhorn and Missouri Valley Rwy. Co.	do	71.35
	Norfolk and Western Rwy. Co.	do	33.25
	Burlington and Missouri River R. R. Co.	do	115.95
	New York Central and Hudson River R. R. Co.	do	39.53
	The Pullman Co.	do	34.00
	Great Northern Rwy. Co.	do	47.92
	The Pullman Co.	do	58.00
	Chesapeake and Ohio Rwy. Co.	do	39.75
	The Oregon Railroad and Navigation Co.	do	80.45
	Atchison, Topeka and Santa Fe Rwy. Co.	do	47.69
	Northern Pacific Rwy. Co.	do	25.20
	Delaware, Lackawanna and Western R. R. Co.	do	6.10
	The Lake Shore and Michigan Southern Rwy. Co.	do	22.00
	Great Northern Rwy. Co.	do	14.67
	Chicago, Milwaukee and St. Paul Rwy. Co.	do	27.50
	Fremont, Elkhorn and Missouri Valley Rwy. Co.	do	48.16
	The Oregon Railroad and Navigation Co.	do	7.20
	Central of Georgia Rwy. Co.	do	7.81
	Union Pacific R. R. Co.	do	30.80
	Fort Worth and Denver City Rwy. Co.	do	10.05
	The Atchison, Topeka and Santa Fe Rwy. Co.	do	45.20
	Pennsylvania Co.	do	35.00
	New York Central and Hudson River R. R. Co.	do	7.48
	The Atchison, Topeka and Santa Fe Rwy. Co.	do	1.47
27	Southern Rwy. Co.	do	39.33
	do	do	34.65
	Louisville and Nashville R. R. Co.	do	35.68
	The Pennsylvania R. R. Co.	do	16.50
	do	do	62.75
	Baltimore and Ohio R. R. Co.	do	46.00
	Atlantic Coast Line R. R. Co.	do	4.40
	Southern Rwy. Co.	do	14.95
	New York, New Haven and Hartford R. R. Co.	do	55.97
	Louisville and Nashville R. R. Co.	do	3.66
	The Pennsylvania R. R. Co.	do	20.26
	do	do	60.80
	Southern Rwy. Co.	do	35.85
	New York, New Haven and Hartford R. R. Co.	do	59.25
	Matt. Crosby	Traveling expenses	21.85
	J. Fred. Baker	do	50.85
28	W. P. Turner	Tools	20.00
	Jno. C. Bauer	Photo. proofs	13.25
	Amberg File and Index Co.	Cabinet indexes	13.35
	Pen Carbon Manifold Co.	Letter books	18.00
	Keuffel & Esser	Pocket tapes	79.02
	Woodruff Manufacturing Co.	Files	5.00
	Walter B. Clay	Calcium carbide	1.00
	Warren M. Whyte	Tin box	1.25
	M. Du Perow	Rubber tape, etc.	8.85
	Wyckoff, Seamans & Benedict	Typewriter, etc.	126.50
	George B. Sudworth et al.	Salaries	3,868.75
31	Ovid M. Butler	Services	25.80
Feb. 2	W. C. Blaisdell	do	25.80
	Burton E. Babcock	do	25.80
	Lew C. Church	do	25.80
	Carl M. Erdman	do	25.80
	Wallace W. Everett	do	25.80
	Jas. M. Fetherolf	do	25.80
	R. H. Field	do	25.80
	Jos. H. Fitzwater	do	25.80
	Jas. E. Gaw	do	25.80
	Jno. D. Guthrie	do	25.80
	J. S. Holmes	do	25.80
	Clifton D. Howe	do	25.80
	Willis L. Jepson	do	25.80
	Jno. M. Keeler, jr	do	25.80
	Royal S. Kellogg	do	25.80

## 284 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## FORESTRY INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Feb. 2	Burton E. Livingston	Services	\$25.80
	Clayton D. Mell	do	25.80
	W. H. Peters	do	25.80
	Herbert A. Paul	do	25.80
	Will L. Porterfield	do	25.80
	Louis H. Pammell	do	25.80
	A. C. Ringland	do	25.80
	Jno. S. Semmes, jr	do	25.80
	H. O. Tunis	do	25.80
	Howard W. Taylor	do	25.80
	Alpheus O. Waha	do	25.80
	Wm. W. Cheever	do	41.30
	Matt. Crosby	do	41.30
	Wm. E. Howard	do	41.30
	E. R. Hodson	do	41.30
	Reynolds Hill	do	41.30
	Jas. B. Jones	do	41.30
	Jno. E. Keach	do	41.30
	Frank Klarpp	do	41.30
	David D. Kinney	do	41.30
	Wm. H. Mast	do	41.30
	C. A. McCue	do	41.30
	R. V. R. Reynolds	do	41.30
	C. O. Sparks	do	41.30
	Frank Tompkins	do	41.30
	G. E. Tower	do	41.30
	S. P. Woolfolk	do	41.30
	Geo. Griswold	do	51.70
	Jno. H. Hatton	do	51.70
	Chas. A. Scott	do	51.70
	J. L. Webb	do	51.70
	R. E. Benedict	do	62.00
	Geo. Farley	do	62.00
	T. P. Lukens	do	62.00
	Henry W. Newman	do	62.00
	Jno. W. Riggs	do	62.00
	Jacob Yalter	do	62.00
	Raphael G. Zon	do	62.00
	Alfred K. Chittenden	do	86.10
	G. E. Clement	do	86.10
	Chas. S. Chapman	do	86.10
	Coert DuBois	do	86.10
	Henry Grinnell	do	86.10
	Edwd. M. Hamilton	do	86.10
	Wm. C. Hodge, jr	do	86.10
	H. K. Porter	do	86.10
	Frank W. Reed	do	86.10
	G. Alleman	do	60.00
	Eugene Bruce	do	172.20
	J. H. Burdick	do	13.33
	Edw. A. Braniff	do	75.00
	S. M. Coulter	do	12.50
	Anson E. Cohoon	do	122.60
	M. L. Erickson	do	12.50
	R. G. Griffin	do	77.50
	Wesley J. Gardner	do	10.00
	Chas. H. Herty	do	172.20
	M. C. Jensen	do	50.00
	H. S. Meekham	do	129.20
	Albert F. Potter	do	129.20
	Thos. H. Sherrard	do	155.00
	Herbert A. Smith	do	105.00
	Jas. A. Toumey	do	103.30
4	William R. Lazenby	do	25.80
	Chas. Becker	Lead	.73
	W. K. Halt	Traveling expenses	26.50
	Eugene S. Bruce	do	117.40
	Clayton D. Mell	do	21.90
	Roy L. Marston	do	50.65
	E. R. Lake	do	18.90
	do	do	60.48
	Edw. A. Braniff	do	81.35
	do	do	14.50
7	R. S. Saltus	Services	22.01
	Harry D. Tiemann	do	35.00
9	United States Express Co	Transportation	77.74
	do	do	67.58
	do	do	9.30
	do	do	13.60
	do	do	37.88
	United States Express Co	do	50.13

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## FORESTRY INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Feb. 11	Jas. B. Jones	Traveling expenses	\$74.16
12	H. W. Newman	do	99.67
	Adams Express Co.	Transportation	21.12
	do	do	18.69
	do	do	9.86
	do	do	43.77
	do	do	35.51
	do	do	16.72
14	R. T. Fisher	Traveling expenses	104.28
	Herbert A. Smith	do	15.30
	Jacob Yatter	do	65.70
	Edw. M. Hamilton	do	70.10
	Z. L. Bliss	do	21.95
	Chas. Thuener Planing Mills Co.	File case	41.00
	Jacob C. Blumer	Services	41.50
	Hugh M. Curran	do	62.00
16	T. P. Lukens	Traveling expenses	340.73
	Chas. A. Scott	do	1.00
	do	do	86.32
	T. E. Olmsted	do	46.00
17	J. C. Blumer	do	6.30
	Lew C. Church	do	29.25
	Henry Grinnell	do	132.65
	Chas. H. Herty	do	78.72
	W. H. Mast	do	66.52
	H. von Schrenk	do	132.17
18	F. & J. K. Bishop Art Co.	Photo supplies	40.23
	The Maurice Joyce Engraving Co.	Die	1.75
	do	do	.50
	Houghton & Delano	Photo supplies	43.80
	Capital Traction Co.	Car tickets	10.00
	E. S. Newman	Copyholder	2.50
	Jas. N. Rupp	Ink	4.50
	Lamb & Tilden	Daters	19.00
	American Writing Machine Co.	Stationery	103.32
	E. J. Pullman	Lantern slide plates	15.56
	Fred A. Schmidt	Drawing material	16.24
	Neely Electric Construction and Supply Co.	Cleats	1.32
	do	Electric supplies	1.32
	Library Bureau	Cards	50.00
	Cleveland, Cincinnati, Chicago and St. Louis Rwy. Co.	Passenger transportation	20.25
	Nashville, Chattanooga and St. Louis Rwy. Co.	do	19.75
	New York, New Haven and Hartford R. R. Co.	do	13.00
	Burlington and Missouri River R. R. Co.	do	33.61
	do	do	83.87
19	Chicago, St. Paul, Minneapolis and Omaha Rwy. Co.	do	27.50
	Texas and New Orleans R. R. Co.	do	71.05
	Denver and Rio Grande R. R. Co.	do	57.75
	Pennsylvania Co.	do	70.00
	The Philadelphia, Newtown and New York R. R. Co.	do	4.60
	Great Northern R. R. Co.	do	8.62
	Chicago and Northwestern Rwy. Co.	do	27.65
	Pennsylvania R. R. Co.	do	32.60
	Georgia R. R. Co.	do	7.30
	Seaboard Air Line Rwy. Co.	do	17.50
	Louisville and Nashville R. R. Co.	do	27.50
	Alabama and Great Southern R. R. Co.	do	24.15
	Canadian Pacific Rwy. Co.	do	26.25
	Wyckoff, Seamans & Benedict	Typewriter	182.25
	J. P. Nawrath	Twine	2.80
20	Church & Stephenson	Lumber	44.08
	M. C. Jensen	Traveling expenses	52.90
	H. B. Kempton	do	14.25
24	Yawman & Erbe Manufacturing Co.	Cabinet	15.20
25	Rudolph, West & Co.	Hardware	7.30
	Jas. B. Lambie	Scales	25.64
28	Geo. B. Sudworth et al	Salaries	3,724.16
Mar. 2	Burton E. Babcock	Services	23.40
	Ovid M. Butler	do	23.40
	W. C. Blaisdale	do	23.40
	Jacob C. Blumer	do	23.40
	Matt. Crosby	do	23.40
	Wallace W. Everett	do	23.40
	Carl M. Erdman	do	23.40
	Jas. A. Fitzwater	do	23.40
	R. H. Field	do	23.40

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## FORESTRY INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Mar. 2	Jas. M. Fetherolf	Services	\$23.40
	Jno. D. Guthrie	do	23.40
	Jas. E. Gow	do	23.40
	Clifton D. Howe	do	23.40
	J. S. Holmes	do	23.40
	Willis L. Jepson	do	23.40
	Jno. M. Keeler, jr	do	23.40
	Royal S. Kellogg	do	23.40
	Burton E. Livingston	do	23.40
	Clayton D. Mell	do	23.40
	Herbert A. Paul	do	23.40
	Louis H. Pammel	do	23.40
	Will L. Porterfield	do	23.40
	A. C. Ringland	do	23.40
	Jno. E. Semmes, jr	do	23.40
	Howard W. Taylor	do	23.40
	H. O. Tunis	do	23.40
	Alpheus O. Waha	do	23.40
	William W. Cheever	do	37.40
	E. R. Hodson	do	37.40
	Wm. B. Howard	do	37.40
	Reynolds Hill	do	37.40
	James B. Jones	do	37.40
	Jno. E. Keach	do	37.40
	David G. Kenney	do	37.40
	Wm. H. Mast	do	37.40
	C. A. McCue	do	37.40
	Robt. V. R. Reynolds	do	37.40
	C. O. Sparks	do	37.40
	Frank Tompkins	do	37.40
	Geo. E. Tower	do	37.40
	S. P. Wolfolk	do	37.40
	Geo. Griswold	do	46.60
	Jno. H. Hatton	do	46.60
	Frank Klarpp	do	46.60
	Chas. A. Scott	do	46.60
	J. L. Webb	do	46.60
	Alfred K. Chittenden	do	77.80
	G. E. Clement	do	77.80
	Chas. S. Chapman	do	77.80
	Coert Du Bois	do	77.80
	Wm. C. Hodge, jr	do	77.80
	E. M. Hamilton	do	77.80
	H. K. Porter	do	77.80
	Franklin W. Reed	do	77.80
	Jesse C. Waite	do	77.80
	Hugh M. Curran	do	56.00
	Anson E. Cohoon	do	56.00
	Geo. Frarley	do	56.00
	Theo. P. Lukins	do	56.00
	Henry W. Newman	do	56.00
	Raphael G. Zon	do	56.00
	G. Alleman	do	60.00
	E. S. Bruce	do	155.60
	Edw. A. Braniff	do	75.00
	Henry Grinnell	do	93.40
	R. G. Giffin	do	70.00
	Chas. H. Herty	do	175.00
	M. C. Jensen	do	50.00
	H. S. Meekham	do	116.60
	Albert F. Potter	do	116.60
	Thos. H. Sherrard	do	140.00
	E. R. Secret	do	22.50
	Rufus B. Merchant	Route maps	10.40
3	W. P. Turner	Tools	20.00
	The Voigtlander & Son Optical Co.	Lens	137.20
	Amberg File and Index Co.	Transfer cases	14.70
	The Mathy Co. (Incorporated)	Tin boxes	19.00
	Jas. S. Topham	Mail bag	9.00
	Z. D. Gilman	Photo supplies	2.75
	The Chesapeake and Potomac Telephone Co.	Service	45.50
	do	do	45.50
4	E. Morrison Paper Co.	Shipping tags	35.55
	Woodward & Lothrop	Towels	8.48
5	R. Carter Ballantyne	Scrapbooks, etc	4.35
	Lutz & Co.	Repairing mail bag	1.50
	Hugh Reilly	Turpentine	.50
6	Wm. R. Lazenby	Services	23.40
	Jno. W. Riggs	do	56.00

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd..

## FORESTRY INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Mar. 6	H. A. Smith .....	Services .....	\$56.00
	Jacob Yatter .....	do .....	56.00
9	Gilbert Alleman .....	Traveling expenses .....	18.51
	do .....	Expenses .....	72.85
	do .....	do .....	115.38
	do .....	do .....	91.70
	Henry S. Graves .....	Traveling expenses .....	19.70
	Reynolds Hill .....	do .....	173.90
	R. T. Fisher .....	do .....	17.60
	C. O. Sparks .....	do .....	10.90
	Ernest A. Sterling .....	do .....	26.74
	Willis J. Griffing .....	Lumber .....	22.60
	E. E. Adams .....	Services .....	7.50
	Raymond E. Benedict .....	do .....	56.00
	Harry D. Tiemann .....	do .....	40.00
11	Mackall Bros .....	Nitrate silver .....	17.97
12	W. K. Hatt .....	Traveling expenses .....	39.65
14	E. A. Braniff .....	do .....	35.63
	Edw. M. Hamilton .....	do .....	56.00
	Jacob Yatter .....	do .....	56.00
	Wm. H. Mast .....	do .....	61.14
	H. von Schrenk .....	do .....	41.99
	American Steel and Wire Co .....	Marking nails .....	47.13
17	Rufus B. Merchant .....	Route maps .....	5.60
18	Chas. A. Scott .....	Traveling expenses .....	50.24
	C. O. Sparks .....	do .....	89.45
	T. P. Lukins .....	do .....	149.33
	W. K. Hatt .....	do .....	124.94
	E. Morrison Paper Co .....	Photo cards .....	18.96
	Fred A. Schmidt .....	Drawing material .....	23.31
	Houghton & Delano .....	Photo supplies .....	54.70
	W. J. Zeh .....	Coal .....	7.25
	The Elliot & Hatch Book Typewriter Co .....	Typewriter ribbons .....	3.50
	F. & J. K. Bishop Art Co .....	Photo supplies .....	50.80
	M. M. Cady .....	Moving furniture .....	7.50
	Topping Bros .....	Hatchets .....	13.00
	Henry J. Green .....	Thermometers .....	11.48
	Chas. R. Edmonston .....	Cuspidors .....	4.02
19	Jas. B. Lambie .....	Scissors .....	4.50
	Hugh Reilly .....	Photo supplies .....	6.74
	The J. C. Ergood Co .....	Pearline .....	.60
	Jas. B. Jones .....	Traveling expenses .....	103.70
21	Chas. H. Herty .....	do .....	142.39
	Jno. W. Riggs .....	do .....	85.15
	Herbert A. Smith .....	do .....	15.45
	Jas. W. Toumey .....	do .....	21.20
	Chas. S. Jenkins, jr .....	Map rack .....	55.00
	The Fairbanks Co .....	Scales .....	67.50
	The Geo. W. Millar Co .....	Cardboard .....	1.43
	Jewett & Son .....	Maps .....	6.00
	Wm. C. Dyer .....	Sash and doors .....	12.00
	Wm. Walter .....	Repairing blank holders .....	13.10
	Wagner Typewriter Co .....	Typewriter .....	92.00
23	Jas. B. Lambie .....	Tenoning machine .....	23.38
	Wyckoff, Seamans & Benedict .....	Typewriter .....	188.00
	Jno. Foley .....	Traveling expenses .....	22.90
25	Reynolds Hill .....	do .....	139.93
	F. E. Olmsted .....	do .....	21.22
31	G. B. Sudworth et al .....	Salaries .....	5,406.35
	Total third quarter .....		37,473.58
Apr. 1	Everett E. Adams .....	Services .....	25.80
	W. C. Blaisdale .....	do .....	25.80
	Wallace W. Everett .....	do .....	25.80
	Clifton D. Howe .....	do .....	25.80
	Willis L. Jepson .....	do .....	25.80
	Royal S. Kellogg .....	do .....	25.80
	Burton E. Livingston .....	do .....	25.80
	Louis H. Pammel .....	do .....	25.80
	Zina L. Bliss .....	do .....	41.30
	Wm. T. Cox .....	do .....	41.30
	Wm. B. Howard .....	do .....	41.30
	Wm. H. Mast .....	do .....	41.30
	R. V. R. Reynolds .....	do .....	41.30
	C. O. Sparks .....	do .....	41.30
	Frank Tompkins .....	do .....	41.30
	Geo. E. Tower .....	do .....	41.30
	J. P. Wentling .....	do .....	41.30
	S. P. Woolfolk .....	do .....	41.30

288 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

FORESTRY INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Apr. 1	Geo. Griswold	Services	\$51.70
	Jno. H. Hatton	do	51.70
	Frank Klarpp	do	51.70
	Chas. A. Scott	do	51.70
	J. L. Webb	do	51.70
	Raymond E. Benedict	do	62.00
	Hugh M. Curran	do	62.00
	Geo. Farley	do	62.00
	Harold B. Kempton	do	62.00
	Theo. P. Lukins	do	62.00
	Jno. W. Riggs	do	62.00
	Jacob Yatter	do	62.00
	Alfred K. Chittenden	do	86.10
	Chas. S. Chapman	do	86.10
	Coert Du Bois	do	86.10
	Wm. C. Hodge, jr	do	86.10
	Edw. M. Hamilton	do	86.10
	H. K. Porter	do	86.10
	Ernest A. Sterling	do	86.10
	A. Alleman	do	60.00
	Edw. T. Allen	do	80.00
	Eugene S. Bruce	do	172.20
	R. H. Field	do	33.83
	Henry Grinnell	do	103.30
	Reynolds Hill	do	52.00
	Chas. H. Herty	do	193.75
	Ray L. Marston	do	38.89
	Albert F. Potter	do	129.20
	Smith Riley	do	70.00
	Thos. H. Sherrard	do	155.00
	Jessie C. Waite	do	30.56
4	W. R. Hatt	Traveling expenses	85.45
6	Edw. A. Braniff	Services	110.00
	M. C. Jensen	do	50.00
	Wm. R. Lazenby	do	25.80
	Herbert A. Smith	do	28.00
	Harry D. Tiemann	do	30.00
	E. A. Braniff	Traveling expenses	25.05
	R. T. Fisher	do	21.50
	Alfred Gaskill	do	33.70
	Wm. L. Hall	do	89.70
	M. C. Jensen	do	50.95
	F. E. Olmsted	do	37.35
	Smith Riley	do	52.55
8	Houghton & Delano	Photo supplies	168.04
9	Church & Stephenson	Lumber	112.80
	Chas. A. Hodgkin	Ground glasses	4.20
	Lutz & Co	Repairs	11.00
	J. W. Fawcett	Window shades	14.50
10	Henry Grinnell	Traveling expenses	180.35
	Harold B. Kempton	do	115.63
	Ernest A. Sterling	do	89.55
	Z. L. Bliss	do	49.71
	J. C. Blumer	do	1.30
13	The Maurice Joyce Engraving Co.	Die	.50
	E. Morrison Paper Co	Stationery	12.00
	Yawman & Erbe Manufacturing Co.	Bookcase	24.75
14	Wells, Fargo & Co. Express	Transportation	2.62
	Emil Schneider	Photo supplies	2.12
	Erker Bros. Optical Co	do	46.98
	United States Envelope Co	Envelopes	73.25
	The Fairbanks Co	Scale	67.50
	The American News Co	Clips	22.92
	Jno. C. Bauer	Wood cuts	10.50
	Geo. M. Baldwin	Southern pine	22.28
	Wm. G. Johnston & Co	Binding	33.00
	The Pullman Co.	Passenger transportation	7.50
	do	do	20.00
	Chicago, St. Paul, Milwaukee and Omaha Rwy. Co.	Transportation	2.23
	Loren E. Hunt	Services	122.20
15	Wm. H. Mast	Traveling expenses	50.94
	Wm. B. Howard	do	54.37
	Smith Riley	do	55.32
	W. A. Langille	do	107.95
	H. von Schrenk	do	215.83
16	A. D. Hopkins	do	97.79
	Chas. A. Chapman	do	159.74
17	Reynolds Hill	do	259.15
	The J. C. Ergood Co	Brooms	1.63

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## FORESTRY INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Apr. 17	Jas. B. Lambie Co. ....	Thermometers .....	\$3.00
	Woodward & Lothrop .....	Towels, etc .....	52.74
	Jno. B. Espey .....	Bell bit .....	.70
	C. C. Pursell .....	Stamp pad .....	.90
	R. Carter Ballantyne .....	Stationery .....	32.08
	The Geo. W. Knox Express Co. ....	Transportation .....	.25
	do .....	do .....	.50
	Western Union Telegraph Co .....	Service .....	14.07
18	Canadian Pacific Rwy. Co .....	Passenger transportation .....	7.11
	Chicago, Burlington and Quincy R. R. Co .....	do .....	28.00
	Northern Pacific Rwy. Co .....	do .....	12.55
	Missouri, Kansas and Texas Rwy. Co .....	do .....	11.35
	Missouri Pacific Rwy. Co .....	do .....	55.25
	St. Louis and San Francisco R. R. Co .....	do .....	5.90
	Chicago, Milwaukee and St. Paul R. R. Co .....	do .....	16.14
	Northern Pacific Rwy. Co .....	do .....	58.90
	New York, New Haven and Hartford R. R. Co. ....	do .....	27.50
	do .....	do .....	34.75
	Terre Haute and Indianapolis R. R. Co .....	do .....	20.00
	Baltimore and Ohio R. R. Co .....	do .....	21.00
	Delaware, Lackawanna and Western Rwy. Co. ....	do .....	5.90
	Southern Rwy. Co .....	do .....	108.30
	Atlantic Coast Line R. R. Co .....	do .....	11.30
	Washington and Southern Rwy. Co .....	do .....	17.50
	Burlington and Missouri River R. R. Co .....	do .....	3.86
	Great Northern Rwy. Co .....	do .....	36.12
	Pennsylvania R. R. Co .....	do .....	24.75
	Missouri Pacific Rwy. Co .....	do .....	27.75
	Gulf, Colorado and Santa Fe Rwy. Co .....	do .....	12.10
	Chicago and Northwestern Rwy. Co .....	do .....	2.40
	Delaware, Lackawanna and Western Rwy. Co. ....	do .....	4.95
	Northern Pacific Rwy. Co .....	do .....	5.60
	Michigan Central R. R. Co .....	do .....	14.25
	Pennsylvania R. R. Co .....	do .....	31.25
	Houston and Texas Central R. R. Co .....	do .....	12.30
	Illinois Central R. R. Co .....	do .....	21.16
	Georgia Southern and Florida Rwy. Co .....	do .....	6.00
	T. P. Lukens .....	Traveling expenses .....	91.05
	Chas. H. Herty .....	do .....	275.91
	David G. Kenney .....	do .....	17.25
	Roy L. Marston .....	do .....	77.06
20	J. P. Wentling .....	do .....	56.40
	Frank Tompkins .....	do .....	50.65
	Herbert A. Paul .....	do .....	48.20
	Eugene S. Bruce .....	do .....	96.26
	Abercrombie & Fitch .....	Tent heaters, etc .....	100.00
	S. D. Craig .....	Binders .....	18.00
21	Bausch & Lomb Optical Co .....	Magnifiers .....	10.50
	Geo. E. Corbet .....	Photo supplies .....	22.00
23	Chicago, Rock Island and Pacific R. R. Co .....	Passenger transportation .....	30.00
	C. O. Sparks .....	Traveling expenses .....	68.95
24	Chas. Becker .....	Oil .....	.70
28	Jas. B. Jones .....	Service .....	41.30
	do .....	Traveling expenses .....	79.12
	Henry Grinnell .....	do .....	125.65
	Fililbert Roth .....	do .....	105.96
30	Geo. B. Sudworth et al .....	Salaries .....	5,622.67
May 1	Everett E. Adams .....	Services .....	24.70
	W. C. Blasdale .....	do .....	24.70
	Wallace W. Everett .....	do .....	24.70
	Clifton E. Howe .....	do .....	24.70
	Willis L. Jepson .....	do .....	24.70
	Royal S. Kellogg .....	do .....	24.70
	Burton E. Livingston .....	do .....	24.70
	Louis H. Pammel .....	do .....	24.70
	Harry D. Tiemann .....	do .....	7.50
	J. Fred. Baker .....	do .....	39.60
	Zina L. Bliss .....	do .....	39.60
	Saml. B. Detwiler .....	do .....	39.60
	W. B. Howard .....	do .....	39.60
	J. B. Jones .....	do .....	39.60
	David G. Kinney .....	do .....	39.60
	John M. Keeler, jr .....	do .....	39.60
	Wm. H. Mast .....	do .....	39.60
	Ferris R. Miller .....	do .....	39.60
	Herbert A. Paul .....	do .....	39.60

## 290 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## FORESTRY INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
May 1	C. O. Sparks	Services	\$39.60
	Frank Thompkins	do	39.60
	J. P. Wentling	do	39.60
	S. P. Woolfolk	do	39.60
	Harry E. Burke	do	49.50
	Geo. Griswold	do	49.50
	Jno. C. Hatton	do	49.50
	Frank Klarpp	do	49.50
	Chas. A. Scott	do	49.50
	Jacob Yatter	do	59.30
	Jno. W. Riggs	do	59.30
	Theo. P. Lukens	do	59.30
	Harrold B. Kempton	do	59.30
	Reynolds Hill	do	59.30
	Hugh M. Curran	do	59.30
	Raymond E. Benedict	do	59.30
	Wm. C. Hodge, jr.	do	82.40
	Edwin M. Hamilton	do	82.40
	Roy M. Marston	do	82.40
	H. K. Porter	do	82.40
	Ernest A. Sterling	do	82.40
	Edw. T. Allen	do	148.30
	Thos. M. Sherrard	do	148.30
	Eugene S. Bruce	do	164.80
	Loren E. Hunt	do	164.80
	G. Alleman	do	60.00
	Phillip W. Ayers	do	12.36
	Ewd. A. Braniff	do	75.00
	Hugh P. Baker	do	42.27
	Henry Grinnell	do	98.90
	Chas. H. Herty	do	185.45
	M. C. Jensen	do	50.00
	W. O. Langille	do	158.30
	Albert F. Potter	do	123.60
	Smith Riley	do	74.20
	H. J. Tompkins	do	115.40
	C. C. Wright	Purchase of buildings	1,525.00
	Jas. B. Jones	Traveling expenses	108.22
	M. C. Jensen	do	60.77
2	Z. D. Gilman	Photo supplies	17.76
	W. B. Moses & Sons	Chairs	16.40
5	Wm. T. Cox	Traveling expenses	94.34
	Loren T. Hunt	do	53.60
	Chas. A. Scott	do	70.71
	Edw. M. Hamilton	do	59.70
	Herbert A. Smith	Services	35.00
	A. V. Stubenrauch	do	24.70
	Hartley B. Holroyd	do	12.36
7	Wm. H. B. Kent	do	71.70
	Wm. T. Hubbard	Traveling expenses	21.96
8	J. D. Frazee	Laundering towels	1.42
	do	do	3.88
	Woodward & Lothrop	Desk	54.00
	Jas. N. Rupp	Ink well, etc	2.15
	Rudolph, West & Co.	Screws, etc	21.54
	Mackall Bros	Soap, etc	29.65
	The J. C. Ergood Co.	Starch	1.13
	W. B. Moses & Sons	Chairs, etc	36.57
	Lamb & Tilden	Racks	6.30
	D. Richenbacher	Clocks	17.00
	Carl Peterson	Clock	2.00
	Rufus B. Merchant	Route maps	19.20
	F. E. Nichols	Retorts	45.00
	Fred. A. Schmidt	Muslin, etc	24.34
	American Writing Machine Co	Stationery, etc	262.30
	George F. Muth & Co	Oil, etc	45.11
	Blue Line Transfer Co	Transportation	.97
	E. J. Pullman	Lens, etc	55.56
	United States Express Co	Transportation	13.40
	Postal Telegraph Cable Co	Services	10.12
9	W. K. Hatt	Traveling expenses	34.40
	Jno. Foley	do	107.70
	F. E. Olmsted	do	20.06
	Overton W. Price	do	7.10
11	Henry Grinnell	do	189.32
	F. & J. K. Bishop Art Co	Photo materials	62.06
12	R. T. Fisher	Traveling expenses	94.22
	Saml. B. Detwiler	do	24.18
	Wm. T. Cox	do	52.58
	Gilbert Alleman	do	86.62



Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## FORESTRY INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1903, May 12	Wm. B. Howard	Traveling expenses	\$54.40
	Wm. H. Mast	do	14.10
	Chas. A. Scott	do	255.98
	E. A. Braniff	do	40.95
	E. A. Sterling	do	128.15
	Ferris R. Miller	do	47.84
	Hugh P. Baker	do	67.85
	H. B. Holroyd	do	15.33
	Jacob Yatter	do	63.20
	Henry S. Graves	do	34.48
	do	do	81.60
	W. W. Parsons	Lumber	80.82
	Erker Bros. Optical Co	Photo materials	48.75
	Thos. Balfour	Services	9.07
	Wm. R. Lazenby	do	24.70
13	Edw. W. Sawyer	do	2.47
	Jno. M. Keeler, jr	Traveling expenses	33.03
	Z. L. Bliss	do	58.98
	Alfred Gaskill	do	149.06
	John C. Parker	Office supplies	69.89
	Rufus B. Merchant	Route maps	38.40
15	Galord Bros	Paper	1.80
	J. M. Helms Sohne	Seed, etc	1.90
	Henry J. Green	Thermometer	3.38
	Pearre E. Crowl Co	Rubber	55.14
	The Burnett Co	Copper wire	6.00
	Library Bureau	Case, etc	124.00
	Jas. N. Rupp	Crayon	17.00
	H. von Schrenk	Traveling expenses	125.55
	Herbert A. Paul	do	70.00
	C. O. Sparks	do	68.00
16	C. D. Mell	do	16.80
	W. F. Fiske	do	81.09
	R. L. Marston	do	66.05
	Jacob Yatter	do	60.00
	Edw. M. Hamilton	do	30.00
	Wyckoff, Seamans & Benedict	Typewriters, etc.	303.80
	Capital Traction Co.	Car tickets	10.00
	Barber & Ross	Hardware	5.49
18	Reynolds Hill	Traveling expenses	154.50
	G. Fred. Schwarz	do	22.30
	The Fairbanks Co.	Scale	67.50
19	W. A. Langille	Traveling expenses	111.30
20	Smith Riley	do	32.01
	Chas. H. Herty	do	161.51
	Houghton & Delano	Photo supplies	387.79
	D. Frank Parker	Stationery	83.00
21	Moore Bros	Typewriters	109.50
	Amberg File and Index Co	Cases	12.65
	Yawman & Erbe Manufacturing Co	Cabinets	78.57
	Jno. Pitzmyer jr	Cuttings	4.00
	Chattanooga Pottery Co	Clay pots	137.50
	Wm. W. Tuckey	Cotton	11.20
	Lansburgh Bros	Binding	3.00
	R. P. Andrews & Co. (Incorporated)	Sheet holders	20.40
	Lawyer & Wagner Co	Photo supplies	57.10
	Lutz & Co	Cases	36.00
	Lamb & Tilden	Ink pads, etc	19.65
	Wyckoff, Seamans & Benedict	Typewriter	92.25
	H. A. Farnham	Blue prints	8.75
	J. Baumgarten & Son	Numbering machine	16.00
	The Maurice Joyce Engraving Co.	Die	2.50
	Densmore Typewriter Co	Repairs	5.55
	W. H. Childs	Photo supplies	12.50
	F. & J. K. Bishop Art Co.	do	20.34
	Loren E. Hunt	Expenses	56.25
22	J. W. Riggs	Traveling expenses	79.40
	Smith Riley	do	22.75
	Coert Du Bois	do	21.00
	Titus G. Phillips	do	248.11
	Gellert Alleman	do	95.15
	H. E. Burke	do	49.30
	T. P. Lukens	do	73.56
	Wm. T. Cox	Services	39.60
23	E. A. Sterling	Traveling expenses	59.66
	do	do	3.25
25	Frank Tompkins	do	82.85
	do	do	93.05
	Jas. B. Jones	do	82.99
	J. Fred. Baker	do	84.21

## 292 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## FORESTRY INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
May 25	H. von Schrenk	Expenses	\$117.23
	Geo. E. Corbett	Plate glass	10.75
	Geo. Schilling	Chairs, etc	43.45
26	C. H. Herty	Traveling expenses	42.13
	H. J. Tomkins	do	82.12
	Thos. H. Sherrard	do	229.06
	Dulin & Martin	Filter	9.73
	E. J. Davison	Photos	23.00
	Chicago Lumber Co., of Omaha	Lumber	315.24
27	Robert V. R. Reynolds	Traveling expenses	19.73
29	E. Morrison Paper Co	Leaf holders	41.20
	E. J. Pullman	Lantern slides	21.55
	F. & J. K. Bishop	Photo supplies	41.45
	Schmidie Bros	Clock	6.00
31	Geo. B. Sudworth et al	Salaries	6,059.07
June 2	Philip W. Ayers	Services	25.60
	Everett E. Adams	do	25.60
	Thos. Balfour	do	25.60
	W. C. Blasdale	do	25.60
	W. W. Everett	do	25.60
	Clifton D. Howe	do	25.60
	Hartley B. Holroyd	do	25.60
	Willis L. Jepson	do	25.60
	Royal S. Kellogg	do	25.60
	B. E. Livingston	do	25.60
	Louis H. Pammel	do	25.60
	A. V. Stubenrauch	do	25.60
	J. Fred. Baker	do	40.80
	Zina L. Bliss	do	40.80
	Wm. T. Cox	do	40.80
	Saml. B. Detwiler	do	40.80
	Wm. B. Howard	do	40.80
	David G. Kimney	do	40.80
	Clayton D. Mell	do	40.80
	Wm. H. Mast	do	40.80
	Herbert A. Paul	do	40.80
	Titus G. Phillipps	do	40.80
	R. V. R. Reynolds	do	40.80
	C. O. Sparks	do	40.80
	Frank Tompkins	do	40.80
	G. E. Tower	do	40.80
	J. P. Wentling	do	40.80
	S. P. Woolfolk	do	40.80
	Harry E. Burk	do	51.00
	Geo. Griswold	do	51.00
	Frank Klarpp	do	51.00
	Chas. A. Scott	do	51.00
	Raymond E. Benedict	do	61.40
	Reynolds Hill	do	61.40
	Harrold B. Kempton	do	61.40
	Theo. P. Lukens	do	61.40
	Jno. W. Riggs	do	61.40
	Rollin G. Giffin	do	76.60
	W. H. B. Kent	do	76.60
	Smith Riley	do	76.60
	Alfred K. Chittenden	do	85.20
	Coert Du Bois	do	85.20
	Wm. C. Hodge, jr	do	85.20
	Edwin N. Hamilton	do	85.20
	Roy L. Marston	do	85.20
	H. K. Porter	do	85.20
	H. D. Langille	do	170.40
	Loren E. Hunt	do	170.40
	Eugene S. Bruce	do	170.40
	Edw. T. Allen	do	153.40
	W. A. Langille	do	153.40
	Thos. H. Sherrard	do	153.40
	M. C. Jensen	do	50.00
	G. Alleman	do	60.00
	Ed. A. Braniff	do	75.00
	Henry Grinnell	do	102.20
	H. J. Tomkins	do	119.20
	Albert F. Potter	do	127.80
3	Jno. H. Hatton	Traveling expenses	50.30
	H. O. Stabler	do	15.65
	Titus G. Phillips	do	11.77
	H. E. Porter	do	76.25
	Eugene S. Bruce	do	141.36
	The Pullman Co	Passenger transportation	24.00
	The Chesapeake and Ohio Rwy. Co.	do	19.50

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## FORESTRY INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1903. June 3	New York Central and Hudson River R. R. Co.	Passenger transportation.....	\$41.12
	Washington Southern Rwy. Co.	do.....	57.40
	New York, New Haven and Hartford R. R. Co.	do.....	8.75
	Georgia Southern and Florida Rwy. Co.	do.....	20.75
	Gulf, Colorado and Santa Fe Rwy. Co.	do.....	5.45
	Fort Worth and Denver City Rwy. Co.	do.....	7.65
	Chicago and Alton Rwy. Co.	do.....	7.50
	Norfolk and Western Rwy. Co.	do.....	38.60
	St. Louis Southwestern Rwy. Co.	do.....	3.99
	Southern California Rwy. Co.	do.....	50.00
	Norfolk and Washington Steamboat Co.	do.....	21.30
	Delaware, Lackawanna and Western R. R. Co.	do.....	6.60
	The Southern Kansas R. R. of Texas	do.....	10.02
	Baltimore and Ohio R. R. Co.	do.....	71.20
	Atlantic Coast Line R. R. Co.	do.....	71.25
	Pennsylvania R. R. Co.	do.....	99.70
	Seaboard Air Line R. R. Co.	do.....	21.18
	do	do.....	3.25
	Union Pacific R. R. Co.	do.....	30.35
	Michigan Central R. R. Co.	do.....	54.19
	Chicago, Rock Island and Pacific R. R. Co.	do.....	88.78
	Southern Rwy. Co.	do.....	14.95
	do	do.....	60.94
4	Harry D. Tiemann	Services	35.00
	Geo. L. Clothier	do.....	43.96
	Wesley J. Gardner	do.....	26.37
	J. B. Jones	do.....	40.80
	Herbert A. Smith	do.....	98.00
5	Keuffel & Esser Co.	Mirrors	36.00
	Lanz Manufacturing Co.	Canteen	93.00
	Thos. C. Coleman	Services	9.89
6	W. K. Halt	Traveling expenses	79.70
	O. W. Price	do.....	40.05
9	Henry Grinnell	do.....	132.25
	Geo. B. Sudworth	do.....	97.31
	Chas. H. Herty	do.....	85.36
	Wm. H. Dyer	Lumber	58.51
	The Chesapeake and Potomac Telephone Co.	Service	47.63
10	Chas. R. Edmonston	Cuspidors	7.52
	Z. D. Gilman	Supplies	28.66
11	Alfred K. Chittenden	Traveling expenses	64.25
	David G. Kinney	do.....	92.90
	R. E. Benedict	do.....	77.05
	J. Fred Baker	do.....	71.26
	Edw. M. Hamilton	do.....	202.98
12	Woodward & Lothrop	Towels, etc	233.43
	Rudolph, West & Co.	Paste pots	10.63
	Hugh Reilly	Glass	3.74
	do	do.....	3.24
	Delano & Moore	Kodaks	900.00
	R. G. Giffin	Traveling expenses	30.80
	H. J. Tompkins	do.....	120.29
	M. C. Jensen	do.....	49.72
13	Smith Riley	do.....	162.45
	Thos. H. Sherrard	do.....	8.00
	Harry L. Hill	do.....	20.60
	Saml. B. Detwiler	do.....	29.00
	Wm. F. Hubbard	do.....	36.28
	Z. L. Bliss	do.....	88.42
15	Edw. T. Allen	do.....	140.05
	Frank Tompkins	do.....	80.42
	Frank A. Clarke	Services	29.67
	Wm. R. Lazenby	do.....	25.60
16	Wm. W. Tuckey	Partitions	27.00
17	G. E. Tower	Traveling expenses	81.15
	United States Envelope Co.	Envelopes	123.30
	Wolf Bros	do.....	92.50
	Keuffel & Esser Co.	Mirrors, etc.	30.20
	Library Bureau	Bookcases, etc	258.16
	Yawman & Erbe Manufacturing Co.	Files	25.00
	Whitall, Tatum Co.	Photo supplies	12.30
18	Albert F. Potter	Traveling expenses	162.20
	C. O. Sparks	do.....	113.30
	W. H. B. Kent	do.....	102.69
	H. von Schrenk	do.....	102.50
	J. P. Wentling	do.....	92.87

*Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.*

## FORESTRY INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
June 18	Wm. B. Howard	Traveling expenses	\$85.99
	Jno. H. Hatton	do	70.65
	Frank A. Clarke	do	61.08
	R. V. R. Reynolds	do	49.85
	C. A. McCue	do	35.35
	Wm. L. Hall	do	23.91
	Herbert A. Smith	do	15.55
	Jno. Foley	do	9.46
	C. S. Mell	do	5.19
	H. D. Langille	do	119.31
	E. A. Braniff	do	64.20
	A. D. Hopkins	do	175.78
19	Chas. A. Scott	do	330.48
	Rufus B. Merchant	Maps	4.80
20	The Okonite Co. (Limited)	Wire	2.50
	Harrison Manufacturing Co.	Water still	5.50
	Geo. S. Witham	Axes	38.25
	Warren & Bass	Wagon	79.75
	Abercrombie & Fitch	Tents	69.89
	J. W. Stebbins	Picket fence	483.37
	Felt & Tarrent Manufacturing Co.	Comptometers	375.00
	Eberhard Faber	Rubber bands, etc	24.72
	Fred. Thornton	Services	31.25
	G. W. Apple	Wire	56.25
	W. W. Parsons	Lumber	26.44
	Jno. M. Smyth & Co.	Desk	29.92
	Fred. Murphy	Services	30.00
	Ira M. Bovee	do	32.00
22	F. & J. K. Bishop	Photo supplies	14.00
	Wm. N. Smith	Wood tests	9.00
	Geo. E. Corbett	Glass	20.00
	Wm. Walter	Holders	30.00
	Wm. H. Dyer	Lumber	18.85
	Houghton & Delano	Photo supplies	239.05
	T. P. Lukens	Traveling supplies	82.87
	H. K. Porter	do	59.25
	Wm. T. Cox	Traveling expenses	80.13
	Coert Du Bois	do	120.55
	Loren E. Hunt	do	127.25
	H. von Schrenk	do	175.57
	W. A. Langille	do	201.80
	Reynolds Hill	do	269.60
23	Western Union Telegraph Co.	Service	116.87
	Richard Gasch	Keys	2.00
	Bausch & Lomb Optical Co.	Dissecting sets, etc	44.68
	Eastman Kodak Co.	Photo supplies	19.52
	W. & L. E. Gurley	Surveyors' transits	295.80
	Chas. E. Becker	Lead	1.40
	District of Columbia Paper Co.	Paper	7.74
	Mackall Bros.	Photo supplies	98.84
	D. Rickenbacher	Repairing clock	1.50
	W. B. Moses & Sons.	Chairs	34.44
	M. du Perow	Desk fans	204.46
	United States Express Co.	Transportation	3.25
	Southerland & Carr	Braces and chains	13.00
	W. E. Stockett	Stationery	16.85
	The J. C. Ergood Co.	Lye	.88
	National Electric Supply Co.	Shade holders	.50
	Fred. A. Schmidt	Drawing materials	80.89
	Wm. W. Tuckey	Work on partitions	23.50
	Herbert A. Paul	Traveling expenses	78.35
24	The Chesapeake and Ohio Rwy. Co.	Passenger transportation.	88.00
	Chicago and Alton Rwy. Co.	do	7.50
	Morgan's Louisiana and Texas Railroad and Steamship Co.	do	8.35
	New York, New Haven and Hartford R. R. Co.	do	22.65
	Central Vermont Rwy. Co.	do	4.65
	Nashville, Chattanooga and St. Louis Rwy. Co.	do	10.95
	Wm. P. Clyde & Co.	do	8.00
	Grand Trunk R. R. Co.	do	25.62
	Delaware, Lackawanna and Western R. R. Co.	do	21.25
	New York Central and Hudson River R. R. Co.	do	34.36
	Dayton and Union R. R. Co.	do	9.00
	Pere Marquette R. R. Co.	do	3.39
	Grand Rapids and Indianapolis Rwy. Co.	do	18.96
	Atlantic Coast Line R. R. Co.	do	64.20

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## FORESTRY INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
June 24	The Wabash R. R. Co. ....	Passenger transportation .....	\$21.00
	Washington Southern Rwy. Co. ....	do .....	15.85
	International Merchants' Marine Co. ....	do .....	157.95
	Southern Rwy. Co. ....	do .....	166.05
	Seaboard Air Line Rwy. Co. ....	do .....	45.30
	do .....	do .....	43.44
	Baltimore and Ohio R. R. Co. ....	do .....	109.50
	Pacific Coast Steamship Co. ....	do .....	22.00
	Rutland R. R. Co. ....	do .....	2.95
	Pennsylvania R. R. Co. ....	do .....	261.28
	Louisville and Nashville R. R. Co. ....	do .....	10.85
	Northern Pacific Rwy. Co. ....	do .....	9.05
	Union Pacific P. R. Co. ....	do .....	3.72
25	Burlington and Missouri River R. R. Co. ....	Transportation .....	2.87
	Chesapeake and Ohio Rwy. Co. ....	do .....	.91
	Darius E. Burton .....	Hatchets .....	.75
	M. C. Jensen .....	Traveling expenses .....	56.48
	H. B. Kempton .....	do .....	148.85
	Ralph S. Housmer .....	do .....	114.47
	Wm. R. Lazenby .....	do .....	56.85
	J. W. Toumey .....	do .....	21.80
27	W. K. Halt .....	do .....	61.47
29	Titus G. Phillips .....	do .....	2.25
	David G. Kinney .....	do .....	143.31
30	Geo. B. Sudworth et al .....	Salaries .....	5,212.92
	Total fourth quarter .....		54,080.89
	<i>Supplemental.</i>		
July 2	Filibert Roth .....	Traveling expenses .....	89.50
	Wm. F. Hubbard .....	do .....	45.33
3	W. F. Fiske .....	do .....	80.19
	do .....	do .....	68.32
	Frank Tompkins .....	do .....	204.00
	Frank G. Miller .....	Services .....	11.54
6	Philip W. Ayres .....	do .....	24.70
	Everett E. Adams .....	do .....	24.70
	E. E. Bogue .....	do .....	24.70
	Thos. Balfour .....	do .....	24.70
	W. W. Everett .....	do .....	24.70
	Hartley B. Holroid .....	do .....	24.70
	Clifton D. Howe .....	do .....	24.70
	Burton E. Livingston .....	do .....	24.70
	Wm. R. Lazenby .....	do .....	24.70
	L. H. Pammel .....	do .....	24.70
	A. V. Stubenrauch .....	do .....	24.70
	Harry B. Tiemann .....	do .....	24.23
	Zina L. Bliss .....	do .....	39.60
	J. Fred Baker .....	do .....	39.60
	Wm. W. Cheever .....	do .....	39.60
	Wm. T. Cox .....	do .....	39.60
	Saml. B. Detwiler .....	do .....	39.60
	Jas. M. Fetherolf .....	do .....	39.60
	E. R. Hodson .....	do .....	39.60
	Wm. B. Howard .....	do .....	39.60
	J. B. Jones .....	do .....	39.60
	David G. Kinney .....	do .....	39.60
	C. A. McCue .....	do .....	39.60
	Wm. H. Mast .....	do .....	39.60
	Titus G. Phillips .....	do .....	39.60
	Herbert A. Paul .....	do .....	39.60
	Robt. V. Reynolds .....	do .....	39.60
	Herbert O. Stabler .....	do .....	39.60
	C. O. Sparks .....	do .....	39.60
	E. R. Secrest .....	do .....	39.60
	G. E. Tower .....	do .....	39.60
	Frank Tompkins .....	do .....	39.60
	J. P. Wentling .....	do .....	39.60
	S. P. Woolfolk .....	do .....	39.60
	Harry E. Burke .....	do .....	49.50
	W. J. Gardner .....	do .....	49.50
	Geo. Griswold .....	do .....	49.50
	Frank Klarpp .....	do .....	49.50
	Chas. A. Scott .....	do .....	49.50
	Raymond E. Benedict .....	do .....	59.30
	Anson E. Cohoon .....	do .....	59.30
	Geo. Farley .....	do .....	59.30
	Reynold Hill .....	do .....	59.30
	Royal S. Kellogg .....	do .....	59.30

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## FORESTRY INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
	<i>Supplemental—Continued.</i>		
1903.			
July 6	H. B. Kempton	Services	\$59.30
	Theo. P. Lukens	do	59.30
	Jno. W. Riggs	do	59.30
	Frank A. Clarke	do	74.20
	Rollin G. Giffin	do	74.20
	W. H. B. Kent	do	74.20
	Smith Riley	do	74.20
	Geo. L. Clothier	do	82.40
	Alfred K. Chittenden	do	82.40
	Coert Du Bois	do	82.40
	Edw. M. Hamilton	do	82.40
	Wm. C. Hodge, jr.	do	82.40
	Roy L. Marston	do	82.40
	H. K. Porter	do	82.40
	Edw. T. Allen	do	148.30
	W. A. Langille	do	148.30
	F. E. Olmsted	do	148.30
	Thos. H. Sherrard	do	148.30
	Eugene S. Bruce	do	164.80
	Loren E. Hunt	do	164.80
	H. S. Langille	do	164.80
	Alfred Akerman	do	41.21
	Hugh P. Baker	do	34.62
	G. Alleman	do	60.00
	Jno. B. Anderson	do	13.85
	M. A. Benedict	do	35.60
	C. W. Edgerton	do	12.36
	Harrold B. Eastman	do	7.91
	Henry Grinnell	do	98.90
	Austin F. Hawes	do	13.85
	W. I. Hutchinson	do	13.85
	Jno. H. Hatton	do	100.50
	M. C. Jensen	do	50.00
	Louis Kraulton	do	12.36
	E. J. S. Moore	do	13.85
	Louis C. Miller	do	31.65
	A. E. Oman	do	12.36
	Alfred F. Potter	do	123.60
	Saml. N. Spring	do	31.65
	O. T. Swan	do	12.36
	Blaine S. Viles	do	14.51
	Theo. S. Woolsey	do	29.67
	H. J. Tompkins	do	115.40
	Robt. B. Wilson	do	26.37
	H. E. Burke	Traveling expenses	46.10
	T. E. Olmsted	do	91.20
	Geo. L. Clothier	do	3.55
	Gilbert Alleman	do	230.57
	T. P. Lukens	do	75.33
	Jas. B. Jones	do	124.75
7	J. K. Bishop	Photographic material	21.00
8	Gifford Pinchot	Traveling expenses	1,897.38
	Henry Grinnell	do	169.53
9	Theo. F. Borst	Services	12.00
	Judson T. Clark	do	19.23
	Herbert A. Smith	do	49.00
	Willis L. Jepson	do	24.70
11	Merchants' Transfer and Storage Co	Moving furniture	18.00
	D. Frank Parker	Carbon paper	20.00
	Jno. C. Parker	Copying pens	49.96
13	Jno. Appleton	Service	14.51
	M. A. Benedict	Traveling expenses	64.28
	T. P. Lukens	do	39.71
	Austin T. Hawes	do	5.30
	W. C. Hodge, jr.	do	114.25
	Fred. A. Schmidt	Parallel rule	53.50
	Fredk. Carl	Brass	3.50
	Wyckoff, Seamans & Benedict	Paragon ribbons	15.50
	M. G. Copeland Co	Tents	21.00
	E. J. Pullman	Photographic supplies	103.20
	Houghton & Delano	do	80.10
	W. Silas Sheets	do	86.40
	R. C. M. Burton & Sons	Awnings	35.75
	Clara Stück	Translation	29.75
	Lutz & Co	Case	15.50
	do	do	5.00
	Geo. E. Corbett	Photographic supplies	10.00
	Saks & Co.	do	2.00
	D. N. Walford	do	87.50

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## FORESTRY INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
<i>Supplemental—Continued.</i>			
1903.			
July 13	J. B. Nawrath	Twine	57.00
	W. P. Turner	Tools	40.00
	Jewett & Sons	Maps	6.00
	The American News Co.	Blotter	7.41
	Eugene Dietzgen Co.	Tapes	72.80
	Church & Stephenson	Lumber	140.99
	C. Becker	Kodak cases	100.46
14	Densmore Typewriter Co.	Repairs	.60
	K. Kneassis Sons	Cases	34.80
	Geo. F. Muth	Photographic supplies	120.56
	L. V. Ludy	Traveling expenses	25.00
15	Geo. H. Walker & Co.	Maps	10.00
	W. & L. E. Gurley	Compass	868.70
	D. G. Purse	Turpentine	7.20
	Bausch & Lomb Optical Co.	Field glasses	300.00
	Warren & Bass	Brass cylinder, etc	325.00
	Ed. M. Scott	Horses	200.00
	Abercrombie & Fitch	Tents	323.18
	Yawman & Erbe Manufacturing Co.	Section case	16.25
	Robert V. R. Reynolds	Traveling expenses	60.89
	Clayton D. Mell	do	65.20
	Z. L. Bliss	do	84.35
	Frank Tompkins	do	143.35
	E. A. Braniff	do	38.33
	Ferris R. Miller	do	19.82
	Harold B. Kempton	do	107.88
	C. O. Sparks	do	106.50
	Richard P. Ines	do	44.60
	Reynolds Hill	do	215.55
	G. E. Tower	do	152.85
	L. C. Miller	do	46.35
	J. P. Wentling	do	67.50
	H. E. Burke	do	67.70
	Charles S. Chapman	do	25.70
	Herbert A. Smith	do	15.30
16	R. Carter Ballantyne	Stationery	6.84
	M. Du Perow	Electrical supplies	9.66
	Barber & Ross	Hardware	6.65
	W. L. King	Felt	1.00
	The Chesapeake and Ohio Rwy. Co.	Transportation	138.50
	Michigan Central R. R. Co.	do	12.15
	The Lake Shore and Michigan Southern Rwy. Co.	do	11.41
	Atlantic Coast Line R. R. Co.	do	13.95
	Chicago, Rock Island and Pacific Rwy. Co.	do	15.95
	Great Northern Rwy. Co.	do	63.56
	Southern Rwy. Co.	do	80.50
	Pennsylvania R. R. Co.	do	27.55
	do	do	59.50
	do	do	74.05
	do	do	88.13
	Oregon Short Line R. R. Co.	do	14.65
	Illinois Central R. R. Co.	do	20.65
	Denver and Rio Grande R. R. Co.	do	59.30
	Duluth and Iron Range R. R. Co.	do	6.40
	Nashville, Chattanooga and St. Louis Rwy.	do	18.60
17	Alfred Gaskill	do	82.20
	Wm. H. Mast	Traveling expenses	40.41
	Herman von Schrenk	do	134.40
	do	do	538.18
	John W. Riggs	do	51.65
	Theodore S. Woolsey, jr.	do	33.69
	E. E. Bogue	do	23.21
	Robert B. Wilson	do	98.05
	C. A. McCue	do	99.70
	Albert F. Potter	do	108.98
	M. C. Jensen	do	71.49
	Hugh P. Baker	do	65.64
	Edwin M. Hamilton	do	180.89
	E. R. Secrist	do	32.75
	James F. Fetherolf	do	42.90
	American Electric Telephone Co.	Telephones	44.56
	Ira N. Bovee	Services	24.38
	Fred. Thornton	do	25.00
	Walter Shoemaker	do	32.80
18	A. D. Hopkins	Traveling expenses	55.62
	H. J. Tompkins	do	31.74
	do	do	32.35
	do	do	103.00

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## FORESTRY INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
<i>Supplemental—Continued.</i>			
1903.			
July 18	R. G. Giffin	Traveling expenses	\$229.28
	Frank A. Clarke	do	160.22
	David G. Kinney	do	152.47
	R. S. Kellogg	do	124.44
	Raphael G. Zon	do	84.13
	Wesley J. Gardner	do	16.10
	Theo. F. Borst	do	46.29
20	Woodward & Lothrop	Desk, etc	55.50
	Chadwick Copying Book Co	Letter book	.92
	Whitall, Tatum Co	Condensers	4.74
21	Rudolph, West & Co	Pulleys	1.29
	Chas. A. Scott	Traveling expenses	277.25
	Herbert A. Paul	do	69.55
	Loren E. Hunt	do	178.25
	Edward T. Allen	do	134.21
	F. E. Olmsted	do	17.60
	H. M. Suter	do	29.64
	William B. Howard	do	43.60
	George Griswold	do	69.41
	G. E. Clement	do	38.23
	George Farley	do	47.15
	Eugene S. Bruce	do	83.02
24	Frank Klarpp	do	66.94
	William W. Cheever	do	39.80
	J. S. Holmes	do	26.12
	Leverett Bradley, jr	do	13.78
	H. K. Porter	do	158.93
	John H. Hatton	do	127.60
	Gilbert Alleman	do	265.02
	W. A. Langille	do	191.45
	Fred Murphy	Services	23.75
	John C. Parker	Ink	3.00
25	Houghton & Delano	Films	21.60
	E. P. Burton & Co	Lumber	204.45
	Tinius Olsen & Co	Testing machine	1,088.00
27	The Kny-Scheerer Co	Ark	19.65
	Queen & Co. (Incorporated)	Slide boxes	11.50
28	Colclesser Bros	Marking hatchets	180.00
	Roy L. Marston	Traveling expenses	212.43
	Wallace I. Hutchinson	do	29.75
	John B. Anderson	do	27.70
	E. J. S. Moore	do	17.40
29	John M. Keeler	do	20.95
	Filibert Roth	do	119.95
	J. D. Frazee	Laundry (towels)	4.44
	Washington Gaslight Co.	Gas pipe	18.30
	The Chesapeake and Potomac Telephone Co.	Telephone service	26.05
	Whitall, Tatum Co	Jars	41.01
30	Coert Du Bois	Traveling expenses	165.85
	Edward A. Braniff	Services	95.00
	Herbert A. Paul	Expenses	196.00
Aug. 4	Barber & Ross	Axes	42.78
	Fred. A. Schmidt	Drawing materials	38.65
5	Samuel N. Spring	Traveling expenses	14.10
	J. Fred. Baker	do	80.46
	Harold B. Eastman	do	12.00
	Ralph S. Hosmer	do	44.43
	Riehle Bros. Testing Machine Co.	Testing machines, etc.	1,827.00
10	Roy L. Marston	Traveling expenses	24.39
	Samuel B. Detwiler	do	66.95
	H. D. Langille	do	157.40
	C. D. Mell	Services	39.60
12	Gifford Pinchot	Traveling expenses	57.12
14	Wm. H. Rupp Co	Ink wells	3.00
	W. H. B. Kent	Traveling expenses	197.15
	Blaine S. Viles	do	120.20
	Smith Riley	do	138.59
	Thos. H. Sherrard	do	48.25
	E. R. Hodson	do	31.40
	R. E. Benedict	do	274.90
15	James B. Lambie Co. (Incorporated)	Screw eyes	2.50
	Adams Express Co	Transportation	44.98
	Hugh Reilly	Turpentine	1.73
	Adams Express Co	Transportation	4.25
	do	do	16.30
17	Amberg File and Index Co	Index	.82
	The Okonite Co. (Limited)	Wire	3.75
	Library Bureau	Case, etc	76.00



Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## FORESTRY INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
<i>Supplemental—Continued.</i>			
1903.			
Aug. 17	Queen & Co. (Incorporated) .....	Repairs .....	\$16.00
	Keuffel & Esser Co. ....	Steel tapes .....	55.00
	J. W. Stebbins & Co. ....	Fencing .....	1,441.13
18	Woodward & Lothrop .....	Cases .....	105.00
19	H. D. Langille .....	Expenses .....	41.16
20	United States Express Co. ....	Transportation .....	17.75
	.....do.....	.....do.....	182.17
25	James B. Jones .....	Traveling expenses .....	106.50
26	Anson E. Cohoon .....	.....do.....	69.42
	Coert Du Bois .....	.....do.....	27.00
	Keuffel & Esser Co. ....	Mirrors .....	80.00
	F. L. Nichols .....	Machine .....	200.00
27	Thomas H. Sherrard .....	Traveling expenses .....	191.05
	J. N. Le Conte .....	Maps .....	4.50
	Amberg File and Index Co. ....	Cabinet .....	87.49
	C. W. Coggins & Co. ....	Safe .....	242.00
	Fred. A. Schmidt .....	Pocket tapes .....	30.00
	Yawman & Erbe Manufacturing Co. ....	Case .....	41.50
	The J. C. Ergood Co. ....	Polish .....	71.90
Sept. 3	John Appleton .....	Traveling expenses .....	85.04
4	Z. F. Moody .....	Keep and forage of horses .....	48.00
9	W. F. Fiske .....	Traveling expenses .....	54.51
11	The Chesapeake and Potomac Telephone Co. ....	Telephone service .....	37.07
	Yawman & Erbe Manufacturing Co. ....	Section case .....	75.55
	Keuffel & Esser Co. ....	Compasses .....	824.35
	Wasco Warehouse Milling Co. ....	Storage .....	2.25
17	The Chicago Lumber Co. ....	Lumber .....	659.06
	Keuffel & Esser Co. ....	Hypsometer .....	51C.00
18	Louisville and Nashville R. R. Co. ....	Passenger transportation .....	9.00
	Maine Central R. R. Co. ....	.....do.....	11.00
	The Chicago, Burlington and Quincy Rwy. Co. ....	.....do.....	12.75
	The Pennsylvania R. R. Co. ....	.....do.....	67.10
	.....do.....	.....do.....	128.92
	.....do.....	.....do.....	6.50
	.....do.....	.....do.....	105.65
	The Oregon Railroad and Navigation Co. ....	.....do.....	9.10
	.....do.....	.....do.....	12.30
	Postal Telegraph Cable Co. ....	Telegraph service .....	.70
	Western Union Telegraph Co. ....	.....do.....	53.71
19	Northern Pacific Rwy. Co. ....	Passenger transportation .....	70.30
	Duluth, South Shore and Atlantic Rwy. Co. ....	.....do.....	9.21
	Union Pacific R. R. Co. ....	.....do.....	38.05
	Baltimore and Ohio R. R. Co. ....	.....do.....	368.35
	Atlantic Coast Line R. R. Co. ....	.....do.....	44.20
	The Pullman Co. ....	.....do.....	38.00
	.....do.....	.....do.....	30.00
	Grand Rapids and Indiana Rwy. Co. ....	.....do.....	20.32
	.....do.....	.....do.....	9.65
	Seaboard Air Line Rwy. ....	.....do.....	3.80
	The Wabash R. R. Co. ....	.....do.....	22.00
	The Chesapeake and Ohio Rwy. Co. ....	.....do.....	138.75
	Burlington and Missouri River R. R. in Nebraska. ....	.....do.....	23.00
	New York, New Haven and Hartford R. R. Co. ....	.....do.....	31.36
	.....do.....	.....do.....	45.15
	New York Central and Hudson River R. R. Co. ....	.....do.....	34.89
	Chicago and Northwestern Rwy. Co. ....	.....do.....	38.54
	.....do.....	.....do.....	57.05
	Erie R. R. Co. ....	.....do.....	9.00
	Pere Marquette R. R. Co. ....	.....do.....	19.89
	Santa Fe, Prescott and Phoenix Rwy. ....	.....do.....	8.20
	The Atchison, Topeka and Santa Fe Rwy. Co. ....	.....do.....	77.35
	.....do.....	.....do.....	93.20
	Rutland R. R. Co. ....	.....do.....	5.50
	Central Vermont Rwy. Co. ....	.....do.....	12.62
	Georgia Southern and Florida Rwy. Co. ....	.....do.....	6.60
	.....do.....	.....do.....	5.40
	Central Vermont Rwy. Co. ....	.....do.....	3.07
	Denver and Rio Grande R. R. Co. ....	.....do.....	64.05
	The Lake Shore and Michigan Southern Rwy. Co. ....	.....do.....	26.05
	Chicago, Milwaukee and St. Paul Rwy. Co. ....	.....do.....	14.41
Oct. 10	Adams Express Co. ....	.....do.....	60.38
	.....do.....	.....do.....	58.15

300 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

FORESTRY INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
<i>Supplemental—Continued.</i>			
1903.			
Oct. 10	Adams Express Co .....	Transportation .....	\$6.35
	do .....	do .....	44.52
	Geo. F. Muth .....	Ink .....	2.40
	Woodruff Manufacturing Co .....	Cases .....	204.00
12	Chas. Becker .....	Lead .....	.70
	The Chesapeake and Potomac Telephone Co .....	Telephone service .....	.30
14	Keuffel & Esser Co .....	Hypsometer .....	100.00
21	J. F. Moody .....	Pasturing horses .....	1.00
29	Postal Telegraph Cable Co .....	Telegraph service .....	12.43
31	New York, New Haven and Hartford R. R. Co. ....	Passenger transportation .....	26.25
Nov. 13	F. H. Sherrard .....	Traveling expenses .....	82.50
	Total .....		34,821.51

RECAPITULATION.

First quarter .....	\$36,471.54
Second quarter .....	48,762.33
Third quarter .....	37,473.58
Fourth quarter .....	54,080.89
Supplemental .....	34,821.51
Total .....	211,609.85

FORESTRY INVESTIGATIONS—ACCOUNTS SETTLED BY U. S. TREASURY.

Date.	Name.	Nature of payment.	Total.
1902.			
Dec. 9	The Kansas and Texas Rwy. Co .....	Passenger transportation .....	\$56.40
	Northern Pacific Rwy. Co .....	do .....	25.20
	The Atchison, Topeka and Santa Fe Rwy. Co .....	do .....	77.90
	Louisville and Nashville R. R. Co .....	do .....	64.19
	D. M. Taylor, Ordnance Department .....	Saddle, etc .....	25.76
1903.			
Jan. 23	Southern Pacific System .....	Passenger transportation .....	373.83
	do .....	do .....	82.00
	do .....	do .....	28.20
	do .....	do .....	107.40
	The Geo. W. Knox Express Co .....	Transportation .....	107.27
Mar. 10	Southern Pacific System .....	Passenger transportation .....	94.52
	do .....	do .....	77.00
14	The Public Printer .....	Printing Bulletin No. 37 .....	2,296.29
Apr. 15	do .....	Printing Bulletin No. 38 .....	1,294.87
May 22	do .....	Printing Bulletins Nos. 36 and 39 .....	2,345.65
26	Blue Line Transfer Co .....	Drayage .....	1.57
	Southern Pacific System .....	Passenger transportation .....	17.50
July 1	do .....	do .....	83.35
	Northern Pacific Rwy. Co .....	do .....	28.55
	The Public Printer .....	Printing Circular No. 15 .....	71.18
3	do .....	Printing Bulletins Nos. 29 and 40 .....	2,081.66
	do .....	Printing Bulletin No. 41 .....	1,402.98
18	do .....	Printing Bulletins Nos. 42, 8, 10, and 6 .....	2,012.79
Aug. 3	Southern Pacific System .....	Passenger transportation .....	67.95
26	Ordnance Department, U. S. Army .....	Saddlebags .....	70.80
	do .....	do .....	107.40
	The Public Printer .....	Printing Bulletin No. 24 .....	1,172.34
	do .....	Printing Bulletin No. 36, etc .....	2,204.02
	do .....	Printing Bulletins Nos. 24 and 41 .....	2,863.86
	Southern Pacific System .....	Passenger transportation .....	91.25
	Baltimore and Ohio R. R. Co .....	do .....	465.29
	Pennsylvania R. R. Co .....	do .....	77.00
	Blue Line Transportation Co .....	Transportation .....	10.48
	The Public Printer .....	Printing Bulletin No. 42 .....	863.61
	Chicago, St. Paul, Minneapolis and Omaha Rwy. Co. ....	Passenger transportation .....	118.70
	Southern Pacific Co .....	do .....	64.60
	Total .....		20,933.36

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## FORESTRY INVESTIGATIONS—RENT.

Date.	Name.	Nature of payment.	Total.
1902.			
July 16	The Atlantic Building Co.	Rent, March to June, 1902	\$692.17
Oct. 10	do	Rent, July to September, 1902	1,000.00
	do	do	38.25
1903.			
Jan. 3	do	Rent, October to December, 1902	1,328.35
	Emmons S. Smith	Rent, November to December, 1902	45.00
Apr. 1	The Atlantic Building Co.	Rent, January to March, 1903	1,558.40
	Emmons S. Smith	do	67.50
July 1	The Atlantic Building Co.	Rent, April to June, 1903	1,818.40
	Emmons S. Smith	do	67.50
	Total		6,615.57
	<i>Special agent.</i>		
1903.			
May 18	J. H. Herty	Treasury warrant	1,000.00

## FUEL, LIGHTS, AND REPAIRS, WEATHER BUREAU.

1902.			
July 31	Joshua Carey et al	Pay roll	\$353.19
Aug. 11	John Moran	Repairing closets	13.10
	do	Iron pipe and elbow	4.00
	do	Iron pipe and couplings	9.56
	do	Iron pipe	8.00
	Charles Becker	White lead	28.00
	India Alkali Works.	House savogran	30.00
	John Moran	Stable cesspool	19.00
	do	Rubber washers	1.00
22	Hugh Reilly	Glass	1.88
31	Thos. R. Fowler	Laying concrete floor	50.00
	Joshua Carey et al	Pay roll	368.80
	Thos. R. Fowler	Hauling rubbish	8.25
Sept. 5	Washington Gaslight Co.	Gas	38.90
10	Thos. Somerville & Sons	Bushings and elbows	5.04
	John Moran	Charcoal and hoes	2.25
	Hugh Reilly	Turpentine	10.00
	E. G. Schafer & Co	Iron pipe, etc	48.27
	The Allegheny Co.	Coal	169.85
13	Chemical Paint Manufacturing Co.	Repairing and painting roof	41.60
15	John Moran	Repairing sewer	15.00
	do	Excavating, etc	33.25
	do	Iron washers	1.00
	Welsbach Co	Welsbach lamps	9.90
19	Washington Gaslight Co.	Gas	38.20
22	Hugh Reilly	Burned umber in oil	1.50
	Geo. F. Muth & Co.	Oil and paint	33.80
	J. B. Lambie	Hardware	12.66
30	Rudolph, West & Co	Hose nozzles and latches	16.00
	J. E. Turton	Enlarging windows	108.00
	T. R. Fowler	Hauling ashes	8.75
	Joshua Carey et al	Pay roll	357.40
	Total first quarter		1,846.15
Oct. 9	Welsbach Co	Welsbach lamps	6.60
	Thos. Somerville & Sons	Galvanized malleable tees	1.18
	do	Radiator valves	5.82
	J. T. Walker Sons	Lime	.75
	John Moran	Wall washer	3.00
	do	Repairing water pipes	2.50
	Church & Stephenson	Lumber	515.50
13	John Robertson	Fertilizer, etc	8.00
	John Moran	Sewer trap	10.00
22	do	Repairing toilet room	13.50
	Thos. Somerville & Sons	Solder	4.80
	do	Altering steam pipe	28.64
	M. Du Perow	Molding rosettes	5.04
	do	Copper wire, etc	14.95
	Geo. Meier & Co	Bronze	7.00
	Columbia National Sand Dredging Co	Sand	.75
	National Mortar Co.	Cement	1.72
	Louis Hartig	Bar iron	3.80
25	Welsbach Co.	Welsbach light	6.60
	C. J. Cassidy	Laying floor	350.00
31	Washington Gaslight Co.	Gas	44.30

302 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

FUEL, LIGHTS, AND REPAIRS, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Oct. 31	Thos. B. Fowler	Hauling ashes	\$11.50
	Joshua Carey et al	Pay roll	368.80
Nov. 15	The Crawford Paving Co	Paving roadway	680.55
	Hugh Reilly	Paints	8.40
	Barber & Ross	Nails	2.75
17	Washington Gaslight Co.	Gaslight	63.10
	John Moran	Faucets	1.50
	do	Stove	19.00
	Church & Stephenson	Lumber	3.00
	M. Du Perow	Electrical material	2.00
	do	do	3.60
	J. B. Lambie	Brackets	1.00
	Thos. Somerville & Sons	Washers	2.80
	The Allegheny Co	Coal	4.20
	A. C. Rowe	Hooks	1.20
	do	Fire extinguishers	36.00
21	John Robertson	Fertilizer	8.00
	Welsbach Co	Welsbach mantles	4.50
30	Thos. B. Fowler	Hauling ashes	10.75
	Geo. F. Muth & Co	Paints, etc	3.20
	do	Tapers	2.80
	The Bunnell Telegraphic and Electrical Co.	Lamps, etc	9.60
	Joshua Carey et al	Pay roll	335.30
Dec. 18	The Allegheny Co	Coal	168.86
	Washington Gaslight Co.	Gas	64.40
22	Johnson Bros	Wood	12.98
	L. Warner	Paint off	3.50
	M. J. Falvey	Sandstone slab, etc	20.00
	John Moran	Fire brick	6.75
	do	Stovepipe	.75
23	Grafton & Son	Repairing building	100.00
	T. R. Fowler	Hauling ashes	11.75
	Joshua Carey et al	Pay roll	318.80
	Total second quarter		3,324.79
1903.			
Jan. 9	Grafton & Son	Painting smokestacks	10.00
	Instantaneous Fire Alarm Co	Rent of fire-alarm boxes	25.00
14	John Moran	Repairs to tanks	29.00
	J. B. Lambie	Keys	3.00
	do	Brass wire, etc	9.45
23	The Fircide Manufacturing Co	Fire extinguishers	162.00
31	Hugh Reilly	Turpentine	5.00
	Church & Stephenson	Lumber	141.75
	Louis Hartig	Bar iron	2.28
	William Phillips	Lawn fertilizer	50.00
	T. R. Fowler	Hauling ashes	11.50
	Joshua Carey et al	Pay roll	325.40
Feb. 12	Geo. F. Muth & Co	Linseed oil, etc	5.00
	Chamberlin Metal Weather Strip Co	Weather strips	12.00
	Chas. Becker	White lead	28.00
	John Moran	Repairing tank	6.75
	do	Ash cans	4.50
20	M. Du Perow	Lamps	13.92
	Hugh Reilly	Glass	3.12
	John Moran	Marble slab and placing	23.00
	do	Sewer trap	1.25
21	Chamberlin Metal Weather Strip Co	Weather strips	190.00
	Hugh Reilly	Glass	4.86
	Church & Stephenson	Lumber	57.00
	do	do	13.50
	Hugh Reilly	Glass	3.75
	do	Shellac	1.80
25	Washington Gaslight Co.	Gas	76.27
	G. F. Muth & Co	Hard oil finish, etc	20.80
	Washington Gaslight Co.	Gas	75.40
	T. R. Fowler	Hauling ashes	11.50
	Joshua Carey et al	Pay roll	294.20
Mar. 9	The Allegheny Co	Coal	12.26
	do	do	345.85
	do	do	28.92
	do	do	171.77
12	Hugh Reilly	Glass	2.63
	Johnson Bros	Wood	6.19
	Welsbach Co	Welsbach mantles, etc	9.00
	Francis Miller	Drop black in oil	1.20
	Thos. Somerville & Sons	Valves with offset	14.70
20	Hugh Reilly	Glass	3.76
	Washington Gaslight Co.	Gas	58.20
31	The Allegheny Co	Coal	315.95

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## FUEL, LIGHTS, AND REPAIRS, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1903. Mar. 31	C. B. Lukens .....	Painting flagstaff .....	\$11.00
	T. R. Fowler .....	Hauling ashes .....	12.00
	Joshua Carey et al .....	Pay roll .....	325.40
	Total third quarter .....		2,939.33
Apr. 7	The Allegheny Co. ....	Coal .....	227.57
21	Instantaneous Fire Alarm Co. ....	Rent of fire-alarm boxes .....	12.50
	The Allegheny Co. ....	Coal .....	7.25
	Washington Gaslight Co. ....	Gas .....	45.20
30	T. R. Fowler .....	Hauling ashes .....	10.25
	Joshua Carey et al .....	Pay roll .....	153.44
May 5	National Electrical Supply Co. ....	Key sockets .....	1.98
	John Moran .....	Stovepipe, etc .....	4.00
	do .....	Faucet .....	1.00
	do .....	Repairs in toilet room .....	2.50
	G. F. Muth & Co. ....	Kerosene oil .....	1.50
	Hugh Reilly .....	Glass .....	1.56
	Church & Stephenson .....	Door .....	3.50
	Johnson Bros .....	Coal .....	207.38
	James B. Lambie Co. ....	Shears .....	1.25
12	John Moran .....	Sheep shears .....	1.20
	National Mortar Co. ....	Cement .....	1.72
	Hugh Reilly .....	Turpentine .....	15.00
	Washington Gaslight Co. ....	Gas .....	44.90
27	Johnson Bros .....	Coal and wood .....	208.86
31	T. R. Fowler .....	Hauling ashes .....	10.00
	Joshua Carey et al .....	Pay roll .....	98.53
June 18	Washington Gaslight Co. ....	Gas .....	35.50
30	Johnson Bros .....	Coal .....	206.85
	Hugh Reilly .....	Glass .....	1.88
	do .....	do .....	1.88
	John Moran .....	Washbowl .....	3.00
	T. R. Fowler .....	Hauling ashes .....	9.50
	Joshua Carey .....	Pay roll .....	59.30
	Total fourth quarter .....		1,378.80
	<i>Supplemental.</i>		
July 9	India Alkali Works .....	Savogran .....	12.00
20	John Robinson .....	Fertilizer .....	12.00
	National Mortar Co. ....	Cement .....	1.72
31	Instantaneous Fire Alarm Co. ....	Fire-alarm boxes .....	12.50
	National Electrical Supply Co. ....	Cable .....	62.50
	Washington Gaslight Co. ....	Gas .....	41.50
	G. F. Muth & Co. ....	Jars .....	1.00
	Hugh Reilly .....	Floor wax .....	2.40
	Thos. R. Fowler .....	Hauling ashes .....	12.00
Sept. 15	Wurdeman & Co. ....	Laying flooring .....	317.76
	Total .....		475.58

## RECAPITULATION.

First quarter .....	\$1,846.15
Second quarter .....	3,324.79
Third quarter .....	2,939.33
Fourth quarter .....	1,378.80
Supplemental .....	475.58
Total .....	9,964.65

## CONTINGENT EXPENSES—WEATHER BUREAU.

Date.	Name.	Nature of payment.	Total.
1902. July 9	W. T. Kirby .....	Sorrel horse .....	\$160.00
14	Peter Gray .....	Iron cylinder .....	85.00
16	Postmaster, Washington, D. C. ....	Postage stamps .....	304.00
24	Capital Traction Co. ....	Street-car tickets .....	20.00
Aug. 11	Lutz & Co. ....	Concord hames .....	90.00
	do .....	Repairing harness .....	13.40
	do .....	Hoof dressing, etc .....	13.60
	W. S. Jenks .....	Sheet copper .....	18.50

## 304 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## CONTINGENT EXPENSES—WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Aug. 11	J. E. Shaw	Fish tire, etc.	\$3.30
	Hugh Reilly	Enamel paint	6.30
	W. G. Duckett	Gall cure	3.50
	J. R. Galloway	Casing for ceiling	1.82
	do	Ceiling fans	80.00
	John Moran	Elbows for coolers	5.00
	M. Du Perow	Repairing fans	5.50
14	John Moran	Copper pan	3.50
	Houghton & Delano	Plates, etc	1.74
	Rudolph, West & Co	Horseshoes	3.88
	W. B. Moses & Sons	Desk, double	34.00
	do	Typewriter chairs	15.48
18	M. Du Perow	Push buttons	1.75
22	W. B. Moses & Sons	Oilcloth	3.30
	G. A. Schwakhopf	Angle for table	.75
	The Avant Courier Publishing Co.	Advertising	7.00
	Frank Wright	do	3.80
31	M. Du Perow	Wall phone and cable	32.75
Sept. 5	Depue & Church	Salt	15.00
	do	Hay	9.36
	The M. Lindsay Rubber Co.	Rubber gloves	6.00
	do	Disks	1.61
	American Ice Co	Ice	176.50
	G. W. Todd & Co	Check punch	30.00
	John Moran	Trap screw	5.50
	Carey Machinery and Supply Co.	Brass fittings	11.14
	W. B. Moses & Sons	Hatrack	7.85
	M. Du Perow	Buzzers	4.20
	Woodward & Lothrop	Office furniture	60.25
	Depue & Church	Middlings and hay	7.60
	do	Hay	12.30
	do	Straw and oats	47.40
	do	Salt	30.00
	do	Hay	12.00
	do	Oats	36.40
	do	Rye straw	9.00
10	J. C. Parker	Dictionary, atlas, etc	39.00
	Louis Hartig	Hangers, tracks, etc	5.72
	The J. C. Ergood Co	Bon ami	10.00
	The Chesapeake and Potomac Telephone Co.	Moving telephone	8.00
	M. Du Perow	Desk fan	9.90
	Wm. H. Dyer	Wooden roller	5.00
	Helena Herald Publishing Co	Advertising	21.00
13	Commercial Publishing Co	do	6.72
	Key West Advertiser	do	6.00
	Capital Traction Co	Street-car tickets	20.00
	Frank Hume	Salt	26.25
15	Joseph Mathy	Repairing ice box	2.50
	Rudolph, West & Co	Wrench and shears	5.00
	Frank Hume	Salt	.90
	Lutz & Co	Leather neck net	1.50
	do	Brushes and net	9.90
19	J. Baumgarten & Sons	Date stamps	6.75
	Great Falls Daily Leader	Advertising	8.80
	Louis Hartig	Horseshoes and hammer	48.45
	John Moran	Galvanized iron	13.00
	J. B. Lambie	Scales and hardware	69.19
22	do	Screws	2.72
	Z. D. Gilman	Powdered alum	1.35
	Florida Publishing Co	Advertising	9.60
	Dean Publishing Co	do	8.80
30	Rudolph, West & Co	Stepladders	10.13
	The Tropical Sun	Advertising	8.80
	Laughlin Manufacturing Co	Fountain pen	2.50
	Herman Baumgarten	Rubber stamps	5.46
	J. Baumgarten & Sons	Self-inking stamp	3.00
	J. F. Donahoo	Carbon paper	4.00
	A. Kahlert & Co	Cleaning carpet	1.43
	Wyckoff, Seamans & Benedict	Repairing typewriter	1.00
	J. Baumgarten & Sons	Rubber stamps	7.20
	The Smith Premier Typewriter Co.	Repairing typewriter	8.25
	Total first quarter		1,797.80
Oct. 9	Herman Baumgarten	Rubber stamps	1.48
	do	do	2.64
	do	do	1.36
	Louis Hartig	Swedish iron	3.90
	Daniel Hiser	Flower pots	5.00
	Wyckoff, Seamans & Benedict	Repairing typewriter	16.50

## Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## CONTINGENT EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Oct. 13	Chicago Chronicle Co .....	Advertising	\$36.00
	Sun Printing and Publishing Co .....	.... do .....	57.60
	American Ice Co .....	Ice .....	123.62
	J. E. Shaw .....	Bicycle tire .....	2.50
	The San Francisco Chronicle .....	Advertising .....	27.00
	W. G. Duckett .....	Arnica .....	3.00
17	J. C. Parker .....	Book cover .....	1.00
	Depue & Church .....	Rye straw .....	9.00
	C. R. Edmonston .....	Spittoons .....	6.25
	Rudolph, West & Co .....	Brushes .....	10.50
	United States Express Co .....	Transportation .....	4.40
22	Depue & Church .....	Hay and oats .....	45.60
	Louis Hartig .....	Fuller hammer and handle .....	1.80
	George Roberts .....	Soda .....	1.00
	The A. J. Joyce Carriage Co .....	Resetting carriage axle .....	3.50
	Louis Hartig .....	Blacksmith apron .....	2.45
	J. R. Galloway .....	Ceiling fan .....	20.00
	Herman Baumgarten .....	Rubber stamps .....	1.40
	American Writing Machine Co .....	Repairing typewriter .....	5.00
	Library Bureau .....	Desk typewriter stand .....	160.00
	Z. D. Gilman .....	Rubber tubing .....	1.42
	G. E. Stechert .....	Publications .....	2.79
31	Southern Printers' Supply Co .....	Pair bellows .....	.89
Nov. 8	R. McReynolds' Sons .....	Repairs to carriage .....	52.00
15	American Ice Co .....	Ice .....	33.56
	.... do .....	.... do .....	28.88
	Salt Lake Telegram .....	Advertising .....	6.75
	The Evening Post Publishing Co .....	.... do .....	13.65
	Standard Publishing Co .....	.... do .....	19.80
	A. H. Bell & Co., publishers .....	.... do .....	19.00
	Tampa Tribune Publishing Co .....	.... do .....	15.00
	New York American and Journal .....	.... do .....	72.00
	W. B. Moses & Sons .....	Awning and shades .....	4.60
	W. M. Galt & Co .....	Forage .....	7.65
	.... do .....	.... do .....	25.35
	Mackall Bros .....	Borax .....	1.20
17	Woodward & Lothrop .....	Venetian blinds .....	11.00
	John C. Parker .....	Staples, seals, etc .....	13.15
	Martin Wiegand .....	Shelving .....	86.00
	E. J. Pullman .....	Photograph supplies .....	10.10
	John Moran .....	Ice chest .....	7.00
	Capital Traction Co .....	Car tickets .....	20.00
	John Moran .....	Chest handles .....	4.80
	Church & Stephenson .....	Lumber .....	46.00
	W. M. Galt & Co .....	Forage .....	11.44
	.... do .....	.... do .....	11.00
	Herman Baumgarten .....	Rubber stamps .....	6.20
	W. B. Moses & Sons .....	Chair caning .....	1.50
	Houghton & Delano .....	Photo supplies .....	2.50
	M. Du Perow .....	Repairing telephone .....	1.00
	Wyckoff, Seamans & Benedict .....	Repairing typewriter .....	1.60
	Mackall Bros .....	Liniment .....	1.50
	Wm. Nordhoff .....	Clock .....	2.50
	Barber & Ross .....	Metal polish .....	2.75
	Hugh Reilly .....	Glass .....	1.88
	United Disinfecting Co .....	Disinfectant .....	10.00
	Rand, McNally & Co .....	Pocket pencils .....	2.00
21	Tribune Co .....	Advertising .....	46.80
	Salt Lake Tribune .....	.... do .....	18.20
	W. M. Galt & Co .....	Forage .....	29.41
	Clark & Davenport .....	Carpet .....	157.82
30	The Herald Co .....	Advertising .....	13.20
	Adams Express Co .....	Express charges .....	9.50
	.... do .....	.... do .....	4.45
	Clark & Davenport .....	Repairing carpet .....	8.60
	Woodward & Lothrop .....	Book .....	1.50
	W. B. Moses & Sons .....	Wardrobe .....	9.60
	.... do .....	Cushion .....	1.35
	Tampa Publishing Co .....	Advertising .....	8.75
	The Anthony & Scoville Co .....	Carbon paper .....	1.93
	Library Bureau .....	Office furniture .....	312.50
	M. Du Perow .....	Electric clock .....	2.25
	W. G. Duckett .....	Chemicals .....	1.20
Dec. 6	Burrells Press Clipping Bureau .....	Press clippings .....	18.26
	Adams Express Co .....	Transportation .....	14.95
9	W. M. Galt & Co .....	Hay, straw, and middlings .....	23.72
	J. B. Lambie .....	Plane, drill, etc .....	3.25
	Hugh Reilly .....	Glass, etc .....	2.09
	Deseret News .....	Advertising .....	8.74

306 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

CONTINGENT EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Dec. 9	Library Bureau	Catalogue cards	\$4.80
	J. C. Parker	Calendar pads	2.00
18	Woodward & Lothrop	Wardrobe	8.50
	Z. D. Gilman	Sulphuric acid	1.79
	American Ice Co	Ice	22.50
22	John Moran	Tin pails	1.00
	Smith Premier Typewriter Co.	Repairing typewriter	.50
	do	do	1.75
	Chicago Herald Co	Advertising	48.00
	Lutz & Co	Repairing harness	.75
	John D. Frazee	Washing towels	17.07
	Woodruff Manufacturing Co	File holders	179.15
	W. M. Galt & Co.	Corn	2.36
	W. B. Moses & Sons	Repairing office furniture	31.50
	do	Repairing chair	2.50
	do	Shades	5.95
	M. Du Perow	Telephone	15.00
	J. B. Lambie	Clamps	8.50
	do	Pulley	1.30
23	Mirror Co.	Advertising	4.40
	J. B. Lambie	Locks, etc	9.40
	Total second quarter		2,176.80
1903.			
Jan. 14	W. M. Galt & Co	Oats	25.35
	do	Corn	7.22
	American Ice Co	Ice	21.38
15	Wm. B. Lynch	Advertising	2.00
20	Adams Express Co	Express charges	5.80
	do	do	1.25
	United States Express Co.	do	3.95
	do	do	.75
	The Deseret News	Advertising	4.75
22	Postmaster, Washington, D. C	Postage stamps	300.00
24	J. C. Parker	Washington city directories	15.00
	do	Calendar pads, etc	2.80
31	United States Express Co.	Express charges	12.73
	Rudolph, West & Co	Horseshoes	8.08
	J. D. Frazee	Washing towels	8.78
	Albert Kahlert & Co.	Repairing carpet	16.64
	Wurdeman & Co	Repairing map desk	110.00
	Capital Traction Co.	Street-car tickets	20.00
	Library Bureau	Filing case and stand	77.50
	The Smith Premier Typewriter Co.	Repairing typewriter	9.70
	Wyckoff, Seamans & Benedict	Rubber mat	2.00
	Hugh Kelly	Glass cutter	6.00
	J. B. Lambie	Ladder	12.75
	do	Copper tubing	8.80
Feb. 4	Carter & Russell Publishing Co.	Advertising	8.75
	Lockney & Martin	do	4.40
	The Herald Co	do	8.40
7	John Underwood	Typewriter ribbons	9.00
	Keuffel Esser Co	Cross-section paper	1.92
10	G. E. Leith	Advertising	5.00
12	E. J. Pullman	Sulphite soda	1.00
	Adams Express Co	Express charges	1.15
	W. M. Galt & Co.	Rye straw	13.48
	do	Hay	10.74
	W. B. Moses & Sons.	Shades of opaque	5.95
	The Smith Premier Typewriter Co.	Repairing typewriter	22.70
	J. Baumgarten & Sons	Repairing dating stamp	1.50
	do	Rubber stamps	2.50
	Lutz & Co	Repairing harness	3.25
	do	Horse blankets	31.50
	Harris & Shafer Co	Repairing clock	2.00
	M. Lindsay Rubber Co.	Rubber	10.00
	American Ice Co	Ice	20.00
	Smithsonian Institution	Transporting exchanges	117.70
	W. M. Galt & Co.	Corn	5.90
	do	Hay	13.42
	do	Oats	23.40
	G. F. Muth & Co	Kerosene oil	1.50
	J. B. Lambie	Spring catches, etc	4.35
	do	Horseshoe nails	5.00
20	Anthony & Scoville Co	Carbon cyko	8.67
	Houghton & Delano	Farbutt plates	1.07
	Library Bureau	Cards, etc	27.25
	John Moran	Repairing filter	4.00
	Frank Wright	Advertising	3.80



## EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE. 307

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## CONTINGENT EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Feb. 20	Amarillo Record .....	Advertising .....	\$4.80
	G. H. Wolf, publisher .....	do .....	6.16
	Salt Lake Telegram Publishing Co .....	do .....	4.41
21	John C. Parker .....	Notarial seals .....	1.60
	W. B. Moses & Sons .....	Recaning stool .....	1.50
	W. G. Duckett .....	Liniment and arnica .....	3.20
	do .....	Witch-hazel .....	1.00
	W. M. Galt & Co. ....	Straw, hay, and bran .....	10.18
	P. Mann & Co. ....	Rye, etc .....	1.90
	Wm. Nordhoff .....	Repairing clock .....	2.00
	Lutz & Co. ....	Repairing leather portfolio .....	1.50
	John C. Parker .....	Fountain pen .....	5.00
	John Moran .....	Ice chute .....	7.00
	Southern Printers' Supply Co. ....	Label holders .....	9.37
28	Burrell's Press Clipping Bureau .....	Press clippings .....	11.82
	The Smith Premier Typewriter Co .....	Repairing typewriter .....	7.60
Mar. 5	The Inter Ocean .....	Advertising .....	9.10
	Pioneer Printing and Publishing Co .....	do .....	3.00
9	India Alkali Works .....	Savogran .....	12.00
	The Avant Courier Publishing Co .....	Advertising .....	7.00
12	Tribune Co .....	do .....	7.60
	E. H. Becker .....	do .....	8.75
	do .....	do .....	8.40
	Lutz & Co. ....	Carriage rug .....	5.00
	W. M. Galt & Co. ....	Oats, rye, hay .....	38.57
	M. Du Perow .....	Push button .....	2.00
	J. B. Lambie Co. ....	Saw filing guide .....	2.50
	Wurdeman & Co. ....	Repairing desk .....	15.00
	Woodward & Lothrop .....	Ducking .....	6.25
	W. B. Moses & Sons .....	Shades .....	3.54
20	Library Bureau .....	Office furniture and cards .....	72.30
	Lutz & Co. ....	Repairing shaft, tug .....	1.50
	J. E. Shaw .....	Repairing bicycle .....	1.55
	American Ice Co. ....	Ice .....	21.50
24	The World Manufacturing Co. ....	Screen .....	23.70
	W. M. Galt & Co. ....	Straw and hay .....	6.80
	Capital Traction Co .....	Street car tickets .....	20.00
	Wurdeman & Co. ....	Mahogany file case .....	130.00
	The Washington Times Co .....	Advertising .....	18.00
	The Washington Post Co .....	do .....	19.09
	Salt Lake Tribune .....	do .....	10.56
	J. B. Lambie Co. ....	Shelf pins .....	1.20
	Total third quarter .....		1,595.38
Apr. 7	Independent Publishing Co. ....	Advertising .....	5.28
	Louis Hartig .....	Iron .....	1.43
	do .....	Horseshoe pads .....	17.65
	J. E. Shaw .....	Bicycle lamp .....	2.75
	W. S. Jenks .....	Tin pipe .....	3.25
14	Peter Gray & Sons .....	Cooling machine .....	45.00
21	Woodward & Lothrop .....	Oak stools .....	2.35
	R. McReynolds Sons .....	Repairing carriage .....	100.00
	Lutz & Co. ....	Tilbury shaftings .....	2.65
	Burrell's Press Clippings Bureau .....	Press clippings .....	9.30
	American Ice Co. ....	Ice .....	28.88
	The Record .....	Advertising .....	2.00
May 5	Chicago Herald Co. ....	do .....	36.00
	J. D. Frazee .....	Washing .....	13.71
	W. M. Galt & Co. ....	Hay and oats .....	36.09
	do .....	Rye straw .....	6.60
	Rudolph, West & Co. ....	Wire nails, screws, etc .....	1.98
7	The Chesapeake and Potomac Telephone Co. ....	Telephone services .....	115.00
	do .....	do .....	109.29
12	United States Express Co. ....	Express charges .....	3.15
	W. M. Galt & Co. ....	Hay .....	13.42
	R. McReynolds Sons .....	Cloth .....	1.50
	T. T. Pitman .....	Advertising .....	4.31
	The Chesapeake and Potomac Telephone Co. ....	Telephone services .....	120.21
13	J. Baumgarten & Sons .....	Repairing numbering machines .....	1.75
16	W. M. Galt & Co. ....	Oats and straw .....	33.30
	Lutz & Co. ....	Repairing harness .....	1.75
	American Ice Co. ....	Ice .....	26.37
19	Boston Herald Co .....	Advertising .....	15.00
	United States Express Co. ....	Express charges .....	9.75
27	Clark & Davenport .....	Carpet .....	37.42
31	United States Express Co. ....	Express charges .....	.70
	G. E. Stechert .....	Publications .....	3.66

308 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

CONTINGENT EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
May 31	G. E. Stechert	Publications	\$2.80
	do	do	5.50
	do	do	1.20
	W. M. Galt & Co	Hay	13.42
	Hugh Reilly	Glass	3.12
	Herman Baumgarten	Rubber stamps	2.88
	John Lynch	Shoeing horses	6.00
	Rudolph, West & Co	Hinges	.60
June 3	J. B. Lambie Co. (Incorporated)	Iron band	1.00
	Inter Mountain Publishing Co	Advertising	27.72
	The Sun Printing and Publishing Association.	do	40.80
	W. B. Moses & Sons	Window curtain	1.50
	W. G. Duckett	Roach paste	2.40
10	Evening Star Newspaper Co	Advertising	11.34
18	W. B. Moses & Sons	Bookcase	18.75
	John Moran	Rubber hose	1.20
	Providence Journal Co.	Advertising	11.00
	The Havre Plaindealer	do	5.40
	John C. Parker	Postal scales	4.00
	W. M. Galt & Co	Oats	23.40
	American Ice Co	Ice	36.63
	W. M. Galt & Co	Hay	13.42
	John Moran	Sand	1.20
	Hugh Reilly	Glass	1.88
	John Moran	Wooden measure	1.25
	National Railway Publication Co	Subscription	8.00
	Lutz & Co	Repairing harness.	.50
	G. E. Stechert	Publication	1.05
	Record Publishing Co.	Advertising	8.10
	J. C. Parker	Index tags	.75
	do	Call bell	1.50
	Total fourth quarter		1,069.81
	<i>Supplemental.</i>		
July 15	Duluth Printing and Publishing Co	Advertising	9.03
21	Burrell's Press Clipping Bureau	Press clippings	9.06
	American Ice Co	Ice	37.75
	Capital Traction Co	Street-car tickets	20.00
	United States Express Co.	Express charges	4.95
	J. D. Frazee	Washing towels	14.94
22	The Chesapeake and Potomac Telephone Co.	Telephone services	121.25
	G. W. Todd	Ink	6.00
31	Evening Telegram Co.	Advertising	13.20
	Geo. F. Muth & Co	Brushes	1.90
	Houghton & Delano	Films	4.34
	E. Morrison Paper Co	Part for letterpress	6.00
	Hutton & Hilton	Rubber cloth	1.25
	W. M. Galt & Co	Rye straw	8.25
	Louis Hartig	Rubber horseshoe	7.35
	Smithsonian Institution	Transportation of exchanges	287.55
	Mackall Bros	Sodium carbonate	1.58
	W. B. Moses & Sons	Repairing chairs	1.96
	John C. Parker	Album	4.50
	do	Dictionary	15.00
	do	Dictionary and stand	19.50
Aug 6	M. Lindsay Rubber Co	Rubber gloves	1.25
	Duluth News-Tribune Co.	Advertising	12.34
	The Morning Leader	do	12.60
	Z. D. Gilman	Hydrochinon, etc	1.24
	Albert Kahlert & Co.	Taking up carpet	23.10
15	Havre Press	Advertising	10.40
24	Adams Express Co.	Express charges	.95
	do	do	.45
	do	do	7.05
	do	do	.30
	do	do	11.20
Sept. 9	do	do	3.13
15	Remington Typewriter Co	Set cushion keys	3.50
	United States Express Co	Express charges	1.35
22	G. E. Stechert	Library books	309.72
Oct. 12	United States Express Co	Express charges	.90
20	G. E. Stechert	Publications	6.00
24	The Chesapeake and Potomac Telephone Co.	Telephone services	2.40
	Total		1,003.24

*Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.*

## RECAPITULATION.

First quarter .....	\$1,797.80
Second quarter .....	2,176.80
Third quarter .....	1,595.38
Fourth quarter .....	1,069.81
Supplemental .....	1,003.24
Total .....	7,643.03

## GENERAL EXPENSES, WEATHER BUREAU.

Date.	Name.	Nature of payment.	Total.
1902.			
July 14	I. G. Gardiner .....	Traveling expenses	\$7.50
	F. L. Wilson .....	do	1.50
16	A. Zappone .....	do	20.75
21	L. M. Campfield .....	do	8.85
24	A. McC. Ashley .....	do	11.00
	F. H. Coleman .....	do	10.10
	J. K. Hooper .....	do	10.05
	O. M. Hadley .....	do	1.60
	C. E. Holmes .....	do	20.35
	W. H. Watters .....	do	4.50
26	E. P. Jones .....	do	23.75
	R. G. Allen .....	do	7.45
	J. B. Marbury .....	do	15.98
	M. R. Sanford .....	do	3.00
	C. A. Hyle .....	do	29.50
	R. L. Miller .....	do	13.20
	Charleston Consolidated Railway, Gas and Electric Co.	Repairing storm-warning lan- terns.	8.00
	Wm. E. Davis .....	Repairing typewriter	10.00
	Southern Electric Supply Co.	Electric fans	30.00
	D. B. Etheridge .....	Repairing telegraph line	1.50
	S. S. Kime .....	Barometer platform	2.00
	J. H. Stevens, jr.	Repairing furniture	50.00
	R. F. Fairchild .....	Repairing instrument shelter	7.00
	Ed. McNamara .....	Ink and mucilage	4.10
	W. J. Coffin .....	Cleaning map	.16
31	Louis Hendricks .....	Erecting tower	95.00
	The Cushman Chuck Co.	Chuck pinion	.45
	W. T. Crenshaw .....	Repairing typewriter	20.00
	S. S. Bassler .....	Traveling expenses	3.50
	C. C. Garrett .....	do	15.35
	L. A. Laird .....	Repairing instruments	8.00
	T. E. Ronne .....	do	10.00
	R. P. Niles .....	Painting flagstaff	8.75
	Potter & Wolf .....	Office furniture	32.25
	J. F. McLean .....	Ink and oil	9.00
	Boston and Maine R. R.	Passenger transportation	7.80
	Somerset Rwy .....	do	2.50
	Wm. McComb .....	Express charges	1.25
	McClung, Buffat & Buckwell	Water cooler	6.75
	L. A. Brown .....	Repairing flag pole	3.50
	A. H. Freeman .....	Erecting tower	70.00
	J. J. Freeman .....	Cleaning clock	2.50
	W. E. Carter .....	Electric fans	24.00
	Louis Lodholz .....	Traveling expenses	12.10
	R. M. Geddings .....	do	5.00
	W. F. R. Phillips et al.	Pay roll (climatology)	528.17
	Jno. P. Church et al.	Printing office	2,846.36
Aug. 6	The Western Railway of Alabama	Passenger transportation	22.00
	do	do	22.00
	E. A. Evans .....	Traveling expenses	9.00
	R. A. Fessenden .....	do	8.50
	J. H. Robinson .....	do	37.30
	E. A. Brown .....	do	11.10
	W. G. Wilson .....	do	14.75
	A. C. Pickels .....	do	22.75
	L. A. Welsh .....	Drayage	2.13
	W. S. Palmer .....	Lumber, freight, etc.	6.04
	J. H. Kroeber & Co.	Gas fixtures	8.50
11	J. H. Robinson .....	Traveling expenses	19.87
	J. J. McLean .....	do	31.25
	National Printers' Supply Co.	Mallet and planer	.84
	American Writing Machine Co.	New Century Caligraph	69.75
	Smith-Premier Typewriter Co.	Repairing typewriter	8.20
	Hutton & Hilton .....	Listerine insect powder	31.20
	Seth Thomas Clock Co.	Clocks	110.00
	H. B. Hersey .....	Traveling expenses	13.00
12	J. W. Austin .....	Services	15.00
14	John Underwood & Co.	Ink	19.86
	Julien P. Friez .....	Brass supports for thermome- ters.	17.50

310 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1902. Aug. 14	W. B. Moses & Sons	Chair	\$4.70
	do	Chairs	9.50
	do	Office furniture	38.75
	do	Chair	5.90
	do	Water cooler	6.38
	Clark & Davenport	Carpet	39.49
	do	do	105.90
	do	do	28.94
	do	do	96.03
	Hugh Reilly	Paint	18.55
	do	Wood alcohol	.90
	New York substations	Pay roll	35.00
	J. W. Ward	Ink and mucilage	3.00
	David Sutherland	Repairing tower	5.00
	Lee Young	Repairing chair	1.00
	Louis Hendricks	Coal and wood	100.00
	Stafford Bell	Recasting rollers	6.00
	Broderick Bros	White rags	14.00
	Conger Bros	Relaying carpet	6.60
	E. P. Clarke	Felt, etc	45.00
	E. Morrison Paper Co	Ink	12.00
	Southern Printers' Supply Co	Gauge pins	34.20
	Otto Martin & Co	Pumice stone, hone, etc	14.10
	R. P. Andrews & Co. (Incorporated)	Ink	8.20
	G. E. Kitzmeyer	Table	2.75
	G. H. Hornby	Window shades	3.50
	Holbrook, Merrill & Stetson	Stove, etc	20.00
	G. E. French & Co	Silver sand	3.00
	Philip Lindemeyer	Paste	312.00
	National Printers' Supply Co	Staples	50.00
	W. P. Herbst	Bottles and corks	6.00
	H. C. Gambrell	Repairing furniture	6.00
	Emry Davis	Inkstands	135.00
	W. H. Rollinson	Brooms	1.50
	H. C. Haskins	Repairing instrument supports	5.00
	R. McLaughlin	Office rent	46.50
	Wilkinson & Eastwood	Repairing office furniture	58.25
	G. W. Hardway	Repairing clock	3.00
	J. E. Turton	Chart frames	18.00
18	J. W. Halford	Traveling expenses	7.30
	E. D. Beattie	Printing climate and crop reports	36.00
	do	do	10.00
	Robert Tyler	Office rent	8.00
	R. C. Evans	Constructing platform for instrument shelter	24.00
	Henry Behrens	do	25.00
	Montgomery Light and Power Co	Electric fans	14.50
	J. C. Ellington, jr	Installing map frames and glass	117.00
	Deetz & Co	Erecting storm-warning tower	33.25
	J. S. Pinney	Repairing stereotyping outfit	30.00
	Myer, Newberger & Co	Repairing typewriter	5.40
	Northwest Electric Engineering Co	Dry cells	51.25
	The Fred Marcy Co. (Limited)	Bookcase	28.00
	Western Electric Works	Instantaneous call-bell system	7.75
	T. B. Royal	Gas stove	10.00
	Wm. J. Cooper	Repairing walk on roof	3.40
	S. G. Adams Stamp and Seal Co	Ink	5.00
	T. H. Lawrence	Constructing platform on roof	6.00
	C. P. Smith	Repairing chairs	10.37
	J. A. Howerton	Repairing furniture	8.50
	R. N. Getty	Oil and brooms	2.00
	A. Werner	Boxes	7.00
	J. R. Wyss	Painting instrument shelter	24.00
	E. P. Jones	Wood	9.00
	W. & J. Sloan & Co	Office chairs	94.50
	John Wanamaker	Linoleum and matting	50.00
	J. F. Meyer & Co	Building file case	77.00
	M. Weil & Co	Carpet and lining	2.90
	C. M. Osborn	Binding climate and crop bulletins	2.25
	Yates & Co	Oil	1.50
	Noble & Roemcke	Repairing thermograph clock	46.00
	H. J. Green	Repairing thermometers	15.00
	L. E. Stone	Repairing telephone line	3.50
	George Bredbeck	Repairing instrument supports	5.00
	R. A. Neeld	Reblocking jury rods	8.00
	George Dast	Painting roof instruments	24.83
	Eimer & Amend	Iridium sheet	353.60
	D. Frank Parker	Stencil paper	11.50
22	W. B. Moses & Sons	Table	

## Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1902, Aug. 22	Boston and Maine R. R.	Passenger transportation	\$0.46
do	do	do	.43
do	do	do	1.90
	L. J. Baker	Services	5.00
	Pacific States Telephone and Telegraph Co.	Batteries	2.16
	St. Paul Electric Co.	Glass cells	1.50
	J. L. Puff	Repairing typewriter	1.50
	T. H. Lawrence	Painting instrument shelter	10.00
	Havre Furniture Co.	Lamp chimneys	.90
	Scarff & O'Connor Co.	Printing materials	3.90
	L. A. Midgett	Wood	30.00
	J. A. Howerton	Repairing instrument stand	5.00
	Alf Taler	Cleaning carpet	7.00
	Nashville Banner	Stereotype metal	9.62
	A. Clark	Cleaning carpet, etc	6.00
	F. Pfaff & Co.	Glass	10.00
	J. C. Ruff	Repairing furniture	5.00
	G. E. Mayer	Stepladder	2.75
	J. S. Stahl	Typewriter stand	5.00
	R. C. Francis	Painting instrument shelter, etc	15.00
	Rudolph, West & Co.	Files	10.80
	W. B. Moses & Sons	Office furniture	34.00
	Aberdeen Packing Co.	Coal oil, etc	22.10
	Frank Thielen	Services	.81
	Willis L. Moore	Traveling expenses	18.50
	do	do	10.90
	Standard Oil Co.	Oil, "Aladdin"	5.59
	Brown & Borsheim	Repairing self-register	2.50
31	T. B. Meeker	Glass, etc	19.00
	Joe Coley	Repairing telegraph line	2.50
	H. A. Drinkwater	do	2.50
	J. C. Wilson & Co.	Coal and wood	80.00
	H. Lewark	Horse hire and services	3.50
	W. C. Grantham	Repairing telegraph line	2.50
	Norfolk & Southern R. R. Co.	Passenger transportation	1.45
	Maine Central R. R. Co.	do	2.05
	Southern Ry. Co.	do	6.66
	do	do	21.05
	Michigan Central R. R. Co.	do	13.75
	Littlefield, Alvord & Co.	Drayage	16.75
	H. B. Hersey	Traveling expenses	37.10
	J. H. Robinson	do	26.00
	J. C. Parker	Paper, etc.	428.55
	W. F. R. Phillips, et al	Pay roll, climatology	465.67
	Jno. P. Church, et al	Printing office	2,854.54
Sept. 5	M. G. Copeland Co.	Answering pennant	1.75
	W. B. Moses & Sons	Table	11.50
	M. Du Perow	Electric bells	10.40
	do	Switch board	6.60
	Woodward & Lothrop	Oak stand	5.10
	do	Muslin	11.55
	do	Oak desk	24.50
	do	Office furniture	85.74
	do	Oak desk	24.50
	do	Office furniture	69.74
	do	Oak wardrobe	8.50
	do	Furniture	5.90
	do	Oak wardrobe	8.50
	do	Soap, buckets, and baskets	123.10
	do	Ash table	5.00
	do	Office furniture	20.80
	do	Desk	27.50
	Walter Scott & Co.	Printing material	30.00
	do	Repairing lithograph press	75.25
	Fred Geiger	Repairing chairs	2.75
	T. N. Kendler	Repairing typewriter	2.00
	L. F. Willoughby	Lever for press	2.50
	J. E. Janssen	Scuttle, wrench, etc	1.70
	H. E. Clark	Window shades	13.50
	D. M. Hogsett	Glass for map frames	17.00
	G. H. Cobleigh	Window glass	9.52
	Ed. Kingsbury	Glass for map frames	18.50
	E. D. Ballinger	do	15.50
	Pacific Metal Works	Stereotype metal	18.81
	do	do	8.00
	Bass & Harbour Furniture and Carpet Co.	Window shades	11.70
	W. D. Miller	Erecting shelving	9.40
	J. L. Smathers & Son	Window shades	13.40
	E. R. Mason	Repairing register and clock	3.00
	M. F. Brown	Laying carpet	6.50

312 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1902. Sept. 5	The Williams & Rogers Co	Window shades	\$9.40
	" Maud S." Wind Mill and Pump Co	Moving instruments, etc.	35.00
	Pew & Dryburgh	Constructing walk on roof	48.79
	The Pennsylvania R. R. Co.	Passenger transportation	18.35
	Maine Central R. R. Co.	do	14.45
	Seaboard Air Line Rwy	do	8.30
	F. H. Winter	Installing charts and construct- ing office case.	29.50
	The J. C. Ergood Co	Flour, rye and wheat	1.50
	D. M. Hogsett	Painting instrument shelter	5.00
	Josiah Conover	Repairing doors and shelves	9.00
	The Schoepfle Manufacturing and Lum- ber Co.	Glass, etc	14.35
	R. S. Tebbutt	Repairing instrument stand	4.00
	Montgomery & Grand (in liquidation)	File case	51.25
	Machado & Roller	Pocket voltmeter	44.40
	P. F. Byrne	Running levels	10.00
	McKay & Farr	Laying cable, etc	12.00
	Philip Prioleau	Running levels	20.00
	E. A. While	Resetting flagstaff	20.00
	H. L. Larsh & Co	Painting instrument shelter	8.00
	C. E. Johnson	Horse hire	2.75
	National Electrical Supply Co	Electrical supplies	20.28
	American Writing Machine Co	Typewriter stand and paper	71.10
	Neeley Electric Co.	Insulators	18.75
	Eberhard Faber	Files	38.00
	Herman Baumgarten	Rubber stamps	9.25
	J. Stainer	Attaching charts to wall	1.25
	R. P. Andrews & Co. (Incorporated)	Paper	1,118.00
	Otto Martin & Co	Scrap leather	2.00
	Philip Lindemeyer	Cardboard	22.50
10	Flint & Walling Manufacturing Co	Section of tower, etc	37.75
	do	Towers and lantern shelters	596.00
	W. H. Branigan	Repairing telegraph line	2.50
	Morris L. Negus	Erecting anemometer supports.	10.00
	Peter Gray	Brass clamp	3.00
	Southern Printers' Supply Co.	Grippers	15.00
	Campbell Printing Press and Manufactur- ing Co.	Press board	9.50
	Thos. Somerville & Sons	Albany grease	10.75
	F. G. Wayne	Glass, etc	19.00
	Robt. Tyler	Printing climate and crop re- ports.	10.00
	B. M. Lee	Running levels	6.00
	W. D. Miller	Erecting platforms, wind vane, etc.	95.00
	Chas. Eneu Johnson & Co.	Printing ink	102.50
	The Henry Walke Co	Jewelers' saws	1.25
	Syracuse Architectural Iron Works	Constructing iron ladder	37.50
	Trimble & Lutz Co.	Extending river gauge	35.00
	The Hammatt Contracting Co.	Repairing tower	75.00
	C. H. Phelps	Repairing clock	2.50
	J. A. Melton	Tables and chair	9.50
	Rudolph, West & Co.	Tacks and staples	7.74
	Mackall Bros	Soap	128.40
	Julien P. Friez	Repairing triple register	6.90
	R. C. Evans	Office rent	8.00
	Evans & Meekins	Station expenses	13.33
	American Type Founders Co	Type	14.71
	Mangrum & Otter (Incorporated)	Sheet zinc	19.55
	The American News Co.	Celluloid folders	9.30
	O. D. Thompson	Glass, etc	17.00
	Gick & Sayles	do	16.00
	J. H. Schumacher	Removing wind instrument	22.00
	The Geo. R. Butler Co	Making file case	27.00
	H. J. Green	Repairing thermometers	48.90
	The Webb C. Ball Co.	Cleaning barograph clock	1.50
	Schroeder & Dickinson	Repairing furniture	16.75
	Wyckoff, Seamans & Benedict	Repairing typewriter	15.04
	Maine Central R. R. Co.	Passenger transportation	4.20
	The Crescent	Rugs	55.00
	W. G. Doyle	Painting office signs	9.00
	Lorick & Smith	Drayage	8.00
	J. M. Bennetts	Repairing instrument shelter	5.10
	E. D. Beattie	Printing climate and crop bul- letins.	36.00
	The Grote Rankin Co	Office chairs	14.50
	Ben Moore	Repairing instrument shelter	4.40
	New York substations.	Pay roll	35.00
11	The Hammott Contracting Co.	Moving furniture	10.00

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Sept. 11	The Hammott Contracting Co.	Flagstaff and erecting same	\$50.00
	Evans & Meekins	Team hire	64.25
	do	do	48.00
	Havre Furniture Co.	Office chairs	13.50
	H. A. Poole	Horse hire	3.00
	J. E. Denton	Hire of horse and buggy	2.50
	Wyckoff, Seamans & Benedict	Repairing typewriter	13.00
	Pier Hardware Co.	Stoves, etc	82.95
	Morse & Land	Erecting flagstaff	30.00
	M. Cotter	Wood	4.00
	E. E. Cleaveland Furniture Co.	Cabinet typewriter	22.00
	Joe Fuller	Repairing instrument shelter	1.50
	N. A. Devereaux	do	48.00
	Fred Forest	Team hire	10.00
	J. H. Cunningham	Erecting instrument shelter	18.00
	W. T. Jarvis	Oil, kerosene	11.81
	H. J. Bool	Erecting screen	4.20
	H. W. Flower	Painting instrument shelter	9.00
	G. W. Gordon	Installing table	20.00
	Dorris Heyman Furniture Co.	Window shades, etc	48.90
	Walsh & Bland	Cabinet	43.00
	Clark & Davenport	Carpet	87.50
	do	do	65.51
	Flint & Walling Manufacturing Co.	Repairs for tower	3.00
	R. Hoe & Co.	Stereotype block	2.50
	E. H. Emery	Furniture and cards	20.55
13	A. J. Henry	Traveling expenses	19.25
	E. H. Emery	do	3.25
	Louis Dorman	do	12.45
	T. L. Bridges	do	14.00
	G. E. Lawton	do	12.25
	J. W. Cronk	do	45.80
	L. G. Sutton	do	33.35
	A. H. Thiessen	do	10.86
	W. S. Palmer	do	28.25
	I. M. Cline	do	23.45
	A. H. Thiessen	do	43.00
	W. S. Palmer	do	40.00
	J. L. Bartlett	do	13.50
	E. H. Emery	do	7.04
	E. A. Brown	do	10.00
	T. F. Townsend	do	5.00
	H. C. Frankenfield	do	274.77
	Louis Dorman	Subsistence	21.70
	do	do	9.80
	S. S. Bassler	Repairing river gauge	3.00
	Clark & Davenport	Carpet and linoleum	161.92
	The J. C. Ergood Co.	Stove polish	4.60
	Noble & Roemcke	Cleaning barograph clock	1.50
	H. A. Drinkwater	Repairing telegraph line	10.00
	The Evans Burke Lumber Co.	Glass and setting same	12.55
	The Colorado Southern Rwy. Co.	Passenger transportation	29.93
	Rudolph, West & Co.	Halvards, etc	149.95
	H. Baumgarten	Rubber stamps	1.12
	M. Du Perow	Battery brushes	13.50
	do	Tape	14.00
	American Writing Machine Co.	Typewriter	72.25
	F. A. Schmidt	Millographs	150.00
	A. J. White	Repairing telegraph line	1.00
	B. J. Sherry	do	4.50
	Queen & Co. (Incorporated)	Anemometer vanes	18.00
	F. Wesel Manufacturing Co.	Stereotype block	3.75
	The Waterbury Battery Co.	Battery parts	50.00
	L. C. Stakes	Repairing telegraph lines	2.00
	Julien P. Friez	Base plates	39.00
	do	Thermometer supports	127.50
	do	Thermographs	167.50
	do	Anemometers, wind vanes, etc	1,941.01
	do	do	450.25
	do	Triple registers	3,509.00
	do	Nephoscope plates	21.90
	do	Thermographs	100.50
	Southern Rwy. Co.	Passenger transportation	18.00
	Star Union Line	Freight charges	.42
	S. C. Dooley	Drayage	.25
	Wm. J. Crawford	do	2.25
	E. H. Emery	do	6.45
15	J. H. Kimball	Subsistence	31.00
	A. H. Thiessen	do	12.25
	Delaware, Lackawanna and Western Rwy.	Passenger transportation	4.00

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Sept. 15	Great Northern Rwy	Passenger transportation	\$2. 70
	John C. Parker	Paper	2, 281. 46
	do	Paper and blank books	717. 91
	do	Linen paper	389. 76
	do	Pencils, penholders, pens, etc	364. 77
17	Disbursing clerk, Post-Office Department	Post-route maps	10. 40
19	Evans & Meekins	Messenger service	17. 50
	do	Station supplies	6. 90
	Chicago, Milwaukee and St. Paul Rwy. Co.	Passenger transportation	12. 75
	The Oregon Railroad and Navigation Co.	do	27. 40
	New York, New Haven and Hartford R. R. Co.	do	9. 22
	Norfolk and Washington Steamboat Co.	do	3. 00
	Manitou Steamship Co	do	8. 50
	L. G. Sutton	Repairing telegraph line	2. 50
	H. C. Bate	Horse hire, cartage, etc	2. 00
	J. C. Entwistle	Engraving chart	7. 50
	do	do	7. 50
	J. B. Lambie	Belt, zinc, hardware, etc	27. 92
	Standard Oil Co.	Oil	11. 87
	Hansen Glass and Paint Co.	Glass and setting same	12. 20
	Addressograph Co	Type, logotypes, etc	57. 39
	John Wanamaker	Rug	30. 00
	M. Marcus	Repairing river gauge	40. 00
	D. F. Parker	Paper, ink, pads, etc.	3, 464. 20
	J. H. Cunningham	Laying carpet	5. 00
	C. H. Beverley	Office rent	26. 71
	John Heffernan	Ice	4. 00
	American Type Founders Co.	Algebraic signs	. 72
	E. C. Fuller & Co.	Parts of stitching machine	1. 50
	W. E. Day	Erecting instrument shelter	4. 00
	Talbott & Hubbard	Glass, etc	22. 50
	R. P. Andrews & Co. (Incorporated)	Paper	694. 38
	Keuffel & Esser Co.	Printers' supplies, etc	33. 06
	C. H. Krebs & Co	Glass	10. 00
	American Writing Machine Co.	Repairing typewriter	2. 30
	American Type Founders Co.	Script type	11. 68
	P. Kennedy	Castings	15. 50
	H. I. Wood	Electric fan	12. 00
	Z. D. Gilman	Sponge	2. 85
	The Waterbury Battery Co.	Battery recharges, etc	1, 538. 20
	John Underwood & Co.	Paper, carbon	78. 80
	Slater Price Leidig Co	Dictionary stand	2. 90
	Eberhard Faber	Pencils	77. 06
	The Williams Rodgers Co	Water cooler and stand	6. 00
	The Pain Manufacturing Co.	Signal rockets	63. 00
	T. G. Miller	Copying ink	. 75
	The William Schake Book Bindery	Binding weather maps	7. 50
	G. E. Chase & Co.	Sash cord	5. 50
	Columbia Phonograph Co	Clock movement	8. 00
	The Fuchs & Lang Manufacturing Co.	Lithographic stones	83. 10
	Buechner & Son	Repairing typewriter	1. 00
	Fee & Steward	Oil, paint, and turpentine	15. 00
22	I. M. Small	Repairing storm-warning lanterns.	6. 00
	Wm. Neuman & Co	Replacing electric lamps in tower.	3. 00
	C. F. Boyd	Painting river gauge	3. 15
	E. A. Slack	Printing climate and crop reports.	24. 00
	C. E. Stonaker	Traveling expenses	4. 49
	A. H. Thiessen	do	11. 20
	E. A. Evans	do	3. 25
	A. C. Pickels	do	11. 75
	F. J. Walz	do	26. 60
	M. J. Driscoll	do	3. 50
	Thos. Crawford	do	10. 25
	Norman B. Conger	do	15. 50
	C. F. von Herrmann	do	7. 00
	H. J. Cox	do	181. 10
	W. T. Blythe	do	32. 60
	B. C. Kadel	do	8. 97
	Southern Rwy. Co.	Passenger transportation	1. 75
	do	do	24. 00
	Maine Central R. R. Co.	do	7. 50
	do	do	1. 55
	Grand Trunk Rwy	do	24. 03
	Norfolk and Western Rwy. Co	do	9. 20
	Lake Shore and Michigan Southern Rwy. Co.	do	14. 50



Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## GENERAL EXPENSES. WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Sept. 22	Portland and Rumdorf Falls Rwy	Passenger transportation	\$3.15
	Atchison, Topeka and Santa Fe Rwy. Co	do	34.86
	D. Swinehart	Ice	5.50
	B. J. Sherry	Repairing telegraph line	3.00
	A. Jacobus	Painting instrument shelter	10.00
	W. D. Miller	Services	3.00
	C. R. Edmonston	Glasses	4.20
	E. Morrison Paper Co	Paper	117.60
	G. H. Wear	Removing office	4.60
	H. Paddock & Co	Painting flagstaff	3.00
	Eimer & Amend	Repairing burette	1.50
	J. T. Myers	Cleaning office	10.00
	Bennett & Son	Erecting shelving	5.40
	J. H. Kimball	Subsistence	31.00
	L. J. Baker	Service	3.00
	H. B. Hersey	Traveling expenses	40.50
	A. H. Thiessen	do	12.45
	R. G. Allen	do	11.20
	W. A. Mitchell	do	20.00
	M. W. Hayes	do	26.00
	Louis Dorman	do	40.90
	H. C. Bate	do	7.50
	S. S. Bassler	do	3.50
	Abe Wiesner	do	12.75
	A. H. Robinson	do	42.46
	R. P. Andrews & Co. (Incorporated)	Paper	151.59
	do	do	73.77
	W. B. Moses & Sons	Typewriter chair	5.16
	J. B. Lambie	Wrenches	3.60
	R. C. Ballantyne	Stationery supplies	346.63
	Parsons Bros	Cardboard	21.50
	The Vellaum Box Lumber Co	Shelving	10.00
	Will E. Matheis Co	Cleaning carpet	6.80
	Western Union Telegraph Co	Repairing telegraph line	20.90
	The Bunnell Telegraph and Electrical Co.	Telegraphic supplies	120.36
	The Pennsylvania R. R. Co	Passenger transportation	30.70
	Pacific States Telephone and Telegraph Co.	Telegraph services	10.40
	Corvallis and Eastern R. R. Co	do	2.60
	Rising Sun Telegraph Line	do	2.60
	Corvallis and Eastern R. R. Co	do	2.60
	Abe Wiesner	Knurl wheels	10.00
	N. M. Cunningham	Ice, laying carpet, etc.	8.65
	A. Zappone	Traveling expenses	7.00
30	Alabama and Georgia Long Distance Telephone Co.	Telephone services	3.30
	Alabama, Mississippi and Tennessee Telephone Co.	do	6.50
	do	do	6.25
	Home Telephone Co	do	3.75
	Rising Sun Telegraph Line.	Telegraph services	2.60
	Herman Baumgarten	Rubber stamps	5.01
	Clark & Davenport	Carpet	52.95
	Woodward & Lothrop	Desk	24.50
	B. J. Bolger	Wire, nails, etc.	341.92
	Flint & Walling Manufacturing Co.	Irons, bolts, etc.	12.60
	M. G. Copeland Co.	Code flags	35.00
	J. N. Rupp	Ink	6.00
	W. E. Matheis Co	Commode	10.50
	W. T. & Jno. Barnes Co.	Belt for scroll saw	1.00
	Valley Paper Co.	Paper	420.00
	National Electrical Supply Co.	Connectors	22.40
	A. J. Stowe	Paint brushes	1.50
	A. J. Roebblings Sons Co	Bronze tiller	35.10
	Bazille & Partridge (Incorporated)	Glass, etc	12.25
	H. C. Hansen	Stereotype metal	24.00
	G. L. Lovett	Office rent	105.00
	Geo. F. Muth & Co.	Brushes, lamp chimneys, etc	192.22
	Rudolph, West & Co	Cotton waste	87.00
	Southern Printers' Supply Co.	Chases	4.89
	Wolf Bros	Stationery	613.15
	Chas. E. Johnson & Co	Printers' ink	187.50
	F. R. Beahan	Services	4.95
	G. W. Miller & Co.	Paper	324.90
	E. T. Johnson	Subsistence	18.17
	American Type Founders' Co	Printers' type, signs, etc	63.32
	Chadwick Copying Book Co	Letter press books	83.52
	New York Central and Hudson River R. R. Co.	Passenger transportation	6.06
	The Pullman Co.	do	2.50
	E. A. Beals	Traveling expenses	52.70

## Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd

## GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Sept. 30	F. G. Erskine .....	Traveling expenses .....	\$11.35
	A. Zappone .....	do .....	1.00
	E. T. Turner .....	do .....	19.00
	C. A. Blummer .....	Janitor service .....	15.00
	W. F. R. Phillips et al .....	Pay roll, climatology .....	522.00
	Jno. P. Church et al .....	Printing office .....	2,714.60
	Total first quarter .....		41,774.86
Oct. 3	S. M. Martin .....	Gas-engine launch .....	455.50
9	Herman Baumgarten .....	Rubber stamps .....	3.71
	Wyckoff, Seamans & Benedict .....	Repairs for typewriter .....	4.75
	John Moran .....	Charcoal .....	1.25
	W. B. Moses & Sons .....	Desk, double flat top .....	34.00
	do .....	Chair, high back .....	5.90
	do .....	Desk, rugs, and door mats .....	280.50
	do .....	Casting for chair .....	1.00
	J. E. Turton .....	Crating map frames .....	35.00
	do .....	Map frames .....	990.00
	M. G. Copeland .....	Flags .....	1,150.07
	do .....	Code flags .....	35.00
	American Type Founders' Co. ....	Type .....	1.00
	do .....	do .....	10.30
	Southern Printers' Supply Co. ....	do .....	62.16
	do .....	Leads .....	6.74
	Julien P. Friez .....	Instrument parts .....	44.70
	Salt Lake Ice Co. ....	Ice .....	9.00
	G. A. Stump .....	Painting instrument shelter .....	7.00
	E. D. Beattie .....	Printing climate and crop bul- letins. ....	36.00
	Lytle Ice Co. ....	Ice .....	6.20
	John Cooper .....	Cleaning carpet .....	10.00
	E. G. Turner .....	Painting instrument shelter .....	9.00
	F. H. Brandenburg .....	Erecting wind vane, etc. ....	1.25
	Bundt Carlson .....	Oil .....	.60
	Western Newspaper Union .....	Recasting rollers .....	2.50
	American Linen Supply Co. ....	Towel service .....	3.00
	Louisville Book Co. ....	Railroad map .....	12.00
	Mather Manufacturing Co. ....	Type case .....	.90
	American Writing Machine Co. ....	Typewriter, New Century .....	69.75
	Frank McDillon .....	Repairing typewriter .....	3.50
	Morgans & Wilcox Manufacturing Co. ....	Cylinder-press locks .....	19.50
	L. A. Midgett .....	Painting signal tower shed .....	18.00
	F. M. Locke .....	Insulators .....	2.00
	Chase & Roys .....	Coat and hat rack .....	10.00
	Union Dock and Coal Co. ....	Coal .....	100.05
	H. G. Markell .....	Moving office and erecting in- struments. ....	50.00
	The H. & W. B. Drew Co. ....	Hanging charts .....	3.30
	E. B. Calvert .....	Subsistence .....	22.12
	I. Geverts & Sons .....	Office furniture .....	165.29
	A. H. Kelly .....	Binding climate and crop re- ports. ....	2.00
	H. J. Bool .....	Window shades .....	6.00
	Paul A. F. Walter, P. M. ....	Rent of post-office box .....	1.50
	J. D. Havens .....	Typewriter stand .....	4.75
	Grant Rivenburg .....	Ice .....	2.30
	J. G. Mack & Co. ....	Carpet .....	70.00
	C. Smith & Sons .....	Crating bookcase .....	2.00
	The Waterbury Battery Co. ....	Zincs .....	20.00
	Beardsley & Finney .....	Ink, mucilage, and broom .....	7.50
	James Norman Rupp .....	Ink .....	16.00
	Hoke Engraving Plate Co. ....	Type .....	6.60
	Walker Evans & Cogswell Co. ....	Repairing typewriter .....	16.00
	Tampa Electric Co. ....	Electric light and current .....	13.25
	Chicago Telephone Co. ....	Telephone services .....	15.00
	A. N. Weckler .....	do .....	3.00
	Valley Paper Co. ....	Paper .....	445.84
	Broderick Bros. ....	Rags .....	14.00
	The Okonite Co. (Limited) .....	Copper wire cable .....	624.50
	C. E. Johnson & Co. ....	Ink .....	100.00
	J. W. Jordan .....	Repairing cylinder-press roller .....	3.00
	Robert Little .....	Drayage .....	3.50
	F. A. Schmidt .....	Copying oil boards .....	5.05
	J. P. Nawrath .....	Twine and tape .....	120.54
	E. L. Knight .....	Washing towels .....	1.50
	Naegele & Co. ....	Printing climate and crop re- ports. ....	27.50
	United States Envelope Co. ....	Envelopes .....	332.48
	National Printers' Supply Co. ....	Tweezers .....	4.50

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Oct. 9	Clark & Davenport	Carpet lining	\$59.91
	Flint & Walling Manufacturing Co	Signs for tower	10.55
	F. O. Stetson	Traveling expense	32.25
	E. H. Bowie	do	15.00
	Idaho Independent Telephone Co	Telephone services	4.50
	The Colorado Telephone Co.	do	12.00
	Pennsylvania Telephone Co	do	18.00
	Bell Telephone Co.	do	26.50
	Williston Telephone Exchange	do	6.00
	West Virginia Western Telephone Co	do	4.50
	Southern Bell Telephone and Telegraph Co.	do	12.00
	Rocky Mountain Bell Telephone Co	do	8.25
	Southern Bell Telephone and Telegraph Co.	do	3.00
	Lynchburg Telephone Co.	do	3.00
	The Inland Telephone and Telegraph Co	do	9.00
	Santa Fe Electric Telephone Co	do	6.00
	Rocky Mountain Bell Telephone Co	do	10.50
	Independent Telephone Co	do	7.00
	The Bell Telephone Co. of Buffalo	do	15.00
	Southern Bell Telephone and Telegraph Co.	do	9.00
	do	do	15.00
	Pacific States Telephone and Telegraph Co.	do	9.00
	Missouri and Kansas Telephone Co	do	9.00
	Southern Bell Telephone and Telegraph Co.	do	12.00
	Rocky Mountain Bell Telephone Co.	do	15.00
	Northwestern Telephone Exchange Co.	do	9.00
	The Southern New England Telephone Co.	do	27.00
	The Telephone Company of South Jersey.	do	5.00
	Dodge City Telephone Co.	do	3.00
	Missouri and Kansas Telephone Co	do	18.00
	Pacific States Telephone and Telegraph Co.	do	9.00
	Citizens' Telephone Co.	do	6.00
	R. C. Evans	Office rent	8.00
	Union Trust Building Co. (Limited)	do	167.50
	Prudential Building Co	do	170.00
	Orson Adams, jr	do	120.00
	E. S. Hughes & Co	do	95.45
	A. L. Cook	do	90.00
	Dent & Butler	do	105.00
	Wm. Pollman	do	112.50
	E. W. Daniels	do	87.50
	Walla Walla Lodge, No. 56, I. O. O. F.	do	84.87
	A. J. Knight	do	82.19
	Edgar Harding	do	70.00
	T. M. Jeffris & Co	do	125.00
	Tyree & Wilkins, agents	do	67.50
	Jacob Crocker	do	75.00
	City of Columbia, S. C.	do	90.00
	The Gamble Desmond Co.	do	96.00
	J. E. Dooly	do	150.00
	H. Wollenberg	do	84.75
	O. I. Mairs	do	90.00
	The Citizens' Bank of Norfolk, Va	do	131.25
	Chicago Auditorium Association.	do	457.50
	Paine Bros	do	73.95
	Farmers' National Bank of Fresno	do	94.50
	Otto B. Hart	do	24.00
	T. B. Catron	do	105.00
	Kathrina Wagner	do	75.00
	The Conrad National Bank.	do	67.50
13	F. H. Bigelow	Traveling expenses	3.00
	D. Cuthbertson	do	19.35
	M. E. Blystone	do	22.96
	J. L. Bartlett	do	4.90
	F. H. Brandenburg	do	35.20
	Warfield & Dann	Office rent	72.00
	American Surety Co	do	625.00
	Dyal Upchurch Investment Co.	do	125.00
	J. L. Connell	do	118.75
	J. E. Rankin	do	72.26
	C. P. Meekins	do	10.00
	The Hayden Co	do	300.00
	Bank of Tehama County, Cal.	do	99.06
	B. M. Jacobs	do	30.00
	The Pennsylvania R. R. Co	Passenger transportation	66.60
	Seaboard Air Line Rwy	do	17.50
	Boston and Maine R. R.	do	6.75
	Columbus Citizens' Telephone Co.	Telephone services	10.00
	Southern States Telephone Co	do	9.50
	Nebraska Telephone Co	do	12.00

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Oct. 13	Central Union Telephone Co	Telephone services	\$10.50
	The Southwestern Telegraph and Telephone Co.	do	7.50
	The San Antonio Telephone Co	do	7.50
	San Antonio Gas and Electric Co.	Electric light	6.25
	Lincoln Traction Co	Electric current	13.50
	J. R. Williams	Ice, laying carpet, etc	18.50
	E. L. Renoe	Laying carpet and painting	10.25
	E. H. Nimmo	Washing towels and express charges.	2.30
	B. Bunmeyer	Drayage	.75
	R. M. Hardinge	Express charges	3.25
	L. C. Cover	Drayage	2.80
	C. L. Denman	Repairing typewriter	8.00
	The Consumers' Co	Ice	5.00
	Lone Star Ice Co.	do	4.50
	Joe Campbell	Washing towels	2.25
	F. Lewis Clark	Constructing board walk	21.80
	Lutheran Book Concern	File cases	3.00
	A. E. Tilden	Cleaning carpet	2.00
	Barnhart Bros. & Spindler	Printing supplies	8.00
	W. P. Mairs	Repairing furniture	5.00
	Northwestern Furniture Co.	Repairing instrument stand	26.85
	J. H. Cuningham	Installing Weather Bureau office, Syracuse.	325.00
	J. G. Gloan	Repairing rain gauge	1.00
	P. C. Shaw	Towel service	6.00
	State Journal Co	Printing climate and crop reports.	31.20
	Chamberlain Manufacturing Co	Office case	39.80
	E. C. Sawyer	Linoleum and laying same	67.60
	R. G. Sleater	Printing climate and crop reports.	40.00
	James Cain	Oil, kerosene	.60
	Bauman & Son	Painting instrument shelter	6.25
	H. E. Clark	Laying carpet and linoleum	14.20
	Electric Supply Co.	Repairing cable and switches	12.00
	T. A. Roberts	Repairing clocks	6.00
	H. B. Graves	Laying carpet	3.35
	Reinhold Twardokus	Distributing	6.00
	Gust Fosberg	Repairing furniture	18.00
	The J. J. Langever Co.	Glass, and hanging charts	14.96
	Scarff & O'Connor Co.	Gauge pins	1.24
	Richard Fysh	Repairing clock	1.00
17	United States Express Co	Express charges	68.81
	do	do	36.05
	Library Bureau	Cards	32.55
	C. M. Osborn	Binding climate and crop reports.	1.60
	Schneider Bros	Repairing nephoscopes	40.00
	C. G. LeClair	Ice	3.00
	The Heliotype Printing Co	Transferring bolograph spectrum.	180.00
	The Huron Ice Co.	Ice	3.75
	J. A. Wells	do	40.50
	Oklahoma Ice and Cold Storage Co	do	3.56
	G. A. v. Blucher	do	4.60
	R. L. Polk	Wisconsin Gazetteer	5.00
	L. A. Midgett	Stovepipe and zinc	10.00
	E. J. Davis	Making inspection case	5.50
	The Brown, Eager & Hull Co.	Repairing typewriter	8.45
	Herman Baumgarten	Rubber stamps	2.09
	W. B. Moses & Sons	Bookcases	23.70
	The S. B. Hubbard Co	Repairing rain gauge	.25
	J. B. Lambie	File handles, etc	3.60
	C. B. Little	Water supply	11.00
	S. B. Sedon	Fire brick	1.25
	J. E. Turton	Instrument shelters.	225.00
	G. C. Upright	Laying carpet	1.82
	D. F. Parker	Mimeograph frames	9.00
	J. J. Gorman	Repairing typewriter	5.85
	Patterson Transfer Co	Drayage	2.00
	J. F. Beck	Washing towels	3.00
	Baltimore Towel Supply Co	do	2.25
	J. T. Myers	Janitor service	15.00
	R. J. McMaster	Storm-warning display man.	15.00
	Catherine Ryan	Janitor service	12.00
	Annapolis Gas and Electric Light Co	Electric light	9.00
	Green Bay Light and Power Co.	do	3.00
	Improvement Loan and Trust Co	do	8.75

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Oct. 17	People's Gas and Electric Co. of Oswego	Electric light	\$4.81
	E. A. Born	do	27.75
	E. A. Hughes	do	9.00
	Grand Haven City Electric Light Co	do	9.00
	Georgetown Electric Co	do	8.75
	Charleston Railway, Gas and Electric Co	do	8.75
	do	Electric current	8.75
	The Raleigh Electric Co	do	4.73
	The Milwaukee Electric Railway and Light Co.	do	4.82
	Cumberland Electric Light and Power Co.	do	15.00
	Max Levy	do	30.00
	Indianapolis Light and Power Co	do	18.00
	Edison Sault Electric Co.	Electric light	11.74
	Buffalo Gas Co.	Gas	5.60
	Johnson & Johnson	Ice	3.20
	Samuels Transfer Co.	Drayage	.50
	W. R. Nifong	Ice	3.15
	Board of public works	Water supply	3.50
	Galveston Gas Co.	Gas	9.50
	Nashville Gas Co.	do	8.40
	A. A. Finck	Printing climate and crop bulletins.	22.50
	The R. L. Bryan Co	do	56.00
	The Garrett Printing Co	do	55.25
	John Longstaff	do	45.50
	Times-Journal Publishing Co.	do	19.50
	Vicksburg Herald	do	49.00
	Clem Jaycocks	Ice	9.20
	Standard Gas and Electric Co.	Gas	13.65
	Nashville Laundry Co	Towel service	1.80
	A. Klein	Washing towels	2.00
	Mary Fantleroy	do	1.50
	M. K. Weems & Co.	Towel service	1.80
	The Silver State Towel Supply Co.	do	3.00
	C. A. Johnson	Washing towels	3.00
	The American Toilet Supply Co.	Towel service	2.25
	Kentucky Steam Laundry	Washing towels	1.50
	M. A. Graham	do	1.50
	B. L. James	Painting office walls, etc.	35.00
	Thos. E. Brownson	Cleaning carpet	6.50
	L. H. Daingerfield	Drayage	2.75
	G. N. Wilson	do	1.15
	G. S. Waife	Office rent	109.45
	C. M. Beeson	do	88.91
	Henry Bolton	do	52.84
	Indianapolis Gas Co.	do	256.25
	O. I. Taylor	do	57.50
	Binghamton Telephone Co	Telephone service	7.50
	Ontario Telephone Co.	do	15.00
	Missouri and Kansas Telephone Co	do	6.00
	do	do	30.00
	Central Union Telephone Co	do	10.50
	New Telephone Co	do	10.00
	Southwestern Telegraph and Telephone Co.	do	15.00
	Maryland Telephone and Telegraph Co	do	14.50
	Cumberland Telephone and Telegraph Co.	do	12.00
	The Bell Telephone Co. of Philadelphia	do	20.00
	The City and Suburban Telegraph Association.	do	21.00
	Fayette Home Telephone Co.	do	4.50
	Mississippi Valley Telephone Co.	do	6.60
	Southern Bell Telephone and Telegraph Co.	do	8.25
	Wisconsin Telephone Co.	do	12.00
	Columbia Telephone Co.	do	6.00
	Sunset Telephone and Telegraph Co.	do	6.00
	E. T. Broadwater	do	7.50
	Southwestern Telegraph and Telephone Co.	do	21.00
	E. S. Allen	do	2.50
	Chicago Telephone Co	do	57.50
	Michigan Telephone Co.	do	4.82
	The Southwestern Telegraph and Telephone Co.	do	12.00
	The Colorado Telephone Co	do	13.50
	Southern Bell Telephone and Telegraph Co.	do	7.50
	East Tennessee Telephone Co	do	12.00

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Oct. 17	Louisville Home Telephone Co .....	Telephone service .....	\$12.00
	Cumberland Telephone Co .....	do .....	21.00
	Southern Bell Telephone and Telegraph Co. ....	do .....	12.00
	Palestine Telephone Co .....	do .....	9.00
	W. S. Rowe .....	do .....	3.00
	The Gordon Telephone Co .....	do .....	9.00
	Southern Bell Telephone and Telegraph Co. ....	do .....	15.00
	The Northwest Telephone Exchange Co. ....	do .....	18.00
	Southern Bell Telephone and Telegraph Co. ....	do .....	9.00
	Consolidated Telephone Co .....	do .....	5.00
	East Tennessee Telephone Co .....	do .....	9.00
	Rocky Mountain Bell Telephone Co. ....	do .....	9.00
	New York and Pennsylvania Telephone and Telegraph Co. ....	do .....	7.50
	Zenith City Telephone Co .....	do .....	7.50
	The Union Telephone Co .....	do .....	6.25
	The Consolidated Telephone Co. of Pennsylvania. ....	do .....	9.00
	Chesapeake and Potomac Telephone Co. of Baltimore. ....	do .....	31.25
	Michigan Telephone Co .....	do .....	9.00
	Duluth Telephone Co .....	do .....	12.50
	Black Hills Telegraph and Telephone Co. ....	do .....	21.00
	New England Telephone and Telegraph Co. ....	do .....	29.00
	Southern Bell Telephone and Telegraph Co. ....	do .....	7.50
	Cumberland Telephone and Telegraph Co. ....	do .....	16.50
	H. F. Alciatore .....	Traveling expenses .....	14.30
	E. C. Linney .....	do .....	66.86
	S. M. Blandford .....	do .....	40.00
	J. W. Smith .....	do .....	3.05
	H. S. Cole .....	do .....	14.95
	C. S. Wood .....	do .....	10.00
	E. A. Evans .....	do .....	5.50
	A. Zappone .....	do .....	44.20
22	C. D. C. Thompson .....	do .....	34.05
	Rudolph, West & Co .....	Copper tacks .....	4.80
	American Type Founders Co. ....	Type .....	4.33
	do .....	Algebra signs .....	.72
	W. B. Moses & Sons .....	Desk and bookcase .....	45.85
	do .....	Stools .....	8.20
	Baker & Co .....	Platinum wire .....	11.51
	Queen & Co. (Incorporated) .....	Sunshine recorders .....	150.00
	John Moran .....	Gas-pipe straps .....	1.25
	F. M. McKeough .....	Recasting rollers .....	3.00
	Stafford Bell .....	do .....	3.25
	C. H. Roland .....	Ice .....	3.00
	C. P. Babcock .....	Repairing typewriter .....	2.00
	McCormick & Bates .....	Drayage .....	1.00
	Talbot & Hubbard .....	Glass .....	2.75
	Stoll & Thayer Co. ....	Index cabinet .....	19.00
	J. B. Taylor .....	Repairing typewriter .....	4.75
	Joe Coley .....	Repairing telegraph line .....	2.50
	James Kelly .....	Ice .....	9.20
	The Union Ice Co .....	do .....	9.10
	Baltimore Ice Co .....	do .....	3.95
	T. B. Satterwhite & Co .....	do .....	3.95
	H. G. Whitman .....	Table, telegraph climbers, rubber gloves. ....	17.55
	R. P. Andrews & Co. (Incorporated) .....	Paper .....	975.00
	do .....	do .....	95.22
	H. E. Darr .....	Repairs to wind vane .....	1.35
	John Lang .....	Repairing telegraph line .....	2.50
	J. H. Ledoux .....	Drinking water .....	6.32
	H. A. Drinkwater .....	Repairing telegraph line .....	5.00
	The E. T. Burrows Co .....	Screen and placing same .....	90.00
	Dybert & Son .....	Binding climate and crop reports. ....	65.00
	D. R. Holden .....	Erecting instrument shelter, etc. ....	225.00
	Statesman Printing Co .....	Printing climate and crop reports. ....	101.50
	J. W. Frederickson .....	Ice .....	9.00
	Consumers Ice Co .....	do .....	3.95
	Addressograph Co. ....	Type and logotype .....	192.14
	E. J. Pullman .....	Carbon paper, etc .....	4.85
	J. W. Eagleson .....	Ice .....	7.50

*Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.*

## GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1902.	E. H. Bacon	Painting instrument shelter	\$8.00
Oct. 22	The Model Drug and Jewelry Co.	Glass	13.60
	Z. D. Gilman	Rubber tubing	1.42
	Flint & Walling Manufacturing Co.	Supports for instrument shelter	38.70
	W. B. Lount	Ice	12.50
	W. H. H. Smith	Repairing telegraph line	4.00
	C. E. Johnson	Horse hire	2.50
	A. M. Adie	do	1.00
	H. A. Poole	do	1.50
	W. G. Howard	Ice	3.95
	Inland Type Foundry	Type	7.02
	Geo. Meier & Co.	Gum arabic	2.00
	G. J. Mueller	Glucose	1.05
	Duluth substations.	Pay roll	130.00
	Norfolk substations.	do	105.00
	New Haven substations.	do	48.00
	W. T. Turbeville	Storm-warning display man	15.00
	J. Lawrence	do	21.00
	J. J. Cason	do	15.00
	H. L. Holden	do	20.00
	A. V. Landgraf	do	10.00
	Arthur Jordan	Cleaning office	15.00
	J. W. Geraty	Storm-warning display man	15.00
	D. W. King	Washing towels	1.50
	Dora Moven	do	6.00
	Fowler Manufacturing Co. (Limited)	Towel service	3.00
	M. T. Hayden	Washing towels	3.00
	Omaha Towel Co.	do	3.00
	F. O. Bill	do	.75
	Mill Valley and Mount Tamalpais Scenic Rwy.	Cleaning office	15.00
	J. P. Bolton	Telephone service	24.20
	New Orleans Lighting Co., lessee	Gas	16.37
	Peoples' Gaslight and Coke Co.	do	7.60
	Consolidated Gas Co. of Baltimore City	do	.66
	Bennett Printing House	Printing climate and crop bulletins.	56.00
	Kansas Farmer Co.	do	40.00
	E. H. Hamann	do	26.60
	Acme Publishing Co.	do	35.75
	Summers Printing Co.	do	42.25
	Detroit and Mackinac Rwy. Co.	Passenger transportation	8.45
	A. Booth & Co.	do	10.00
	Union Pacific R. R. Co.	do	60.50
	Michigan Central R. R. Co.	do	1.70
	Baltimore and Ohio R. R.	do	21.00
	New York Central and Hudson River R. R. Co.	do	1.83
	Burlington and Missouri River R. R. in Nebraska.	do	29.50
	Denver and Rio Grande R. R. Co.	do	22.50
	Rio Grande Western Rwy. Co.	do	31.15
	The United Electric Light and Power Co.	Electric light	9.00
	Minneapolis General Electric Co.	Electric current	15.00
	Fort Smith and Van Buren Light and Transit Co.	do	6.00
	Electric Lighting Co. of Mobile	Electric light	2.15
	New Bedford Gas and Edison Light Co.	do	7.91
	Port Huron Light and Power Co.	do	2.85
	Rockingham County Light and Power Co.	do	4.48
	New Orleans and Carrollton Railroad, Light and Power Co.	do	4.50
	Alpena Electric Light Co.	do	6.00
	T. W. Pemberton	do	6.87
	Cumberland Telephone and Telegraph Co.	Telephone service	29.85
	Michigan Telephone Co.	do	6.00
	Central New York Telephone and Telegraph Co.	do	13.33
	Northwestern Telephone Exchange Co.	do	18.60
	Wisconsin Telephone Co.	do	3.76
	Interstate Telephone and Telegraph Co.	do	4.55
	La Crosse Telephone Co.	do	7.50
	The Colorado Telephone Co.	do	28.50
	Rocky Mountain Bell Telephone Co.	do	12.00
	The Bell Telephone Co. of Missouri	do	22.50
	Michigan Telephone Co.	do	6.00
	Capital Telephone and Telegraph Co.	do	4.50
	Missouri and Kansas Telephone Co.	do	9.00
	do	do	9.00

## 322 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Oct. 22	Iowa Telephone Co.	Telephone service	\$15.00
	Southern Bell Telephone and Telegraph Co.	do	4.50
	Sunset Telephone and Telegraph Co.	do	5.35
	Pacific States Telephone and Telegraph Co.	do	30.00
	do	do	25.50
	do	do	18.00
	Southwestern Telegraph and Telephone Co.	do	9.00
	People's Telephone and Telegraph Co.	do	7.50
	Dubuque Telephone Co.	do	6.00
	Cumberland Telephone and Telegraph Co.	do	10.00
	New York Telephone Co.	do	60.00
	New York and Pennsylvania Telephone and Telegraph Co.	do	12.00
	Columbia Telephone Co.	do	10.50
	Cumberland Telephone and Telegraph Co.	do	48.00
	Hudson River Telephone Co.	do	16.50
	Southern Bell Telephone and Telegraph Co.	do	21.50
	Georgia Telephone and Telegraph Co.	do	10.00
	Southwestern Telegraph and Telephone Co.	do	9.00
	Cumberland Telephone and Telegraph Co.	do	10.50
	Southern Bell Telephone and Telegraph Co.	do	15.00
	Central District and Printing Telegraph Co.	do	35.75
	The Rocky Mountain Bell Telephone Co.	do	15.00
	Sunset Telephone and Telegraph Co.	do	15.00
	Wisconsin Telephone Co.	do	30.00
	H. H. Taylor, agent Mills Building	Office rent	322.50
	M. Parmentier	do	74.25
	F. D. Miracle	do	147.00
	Peter Sonna	do	120.00
	Joseph Gussenhoven	do	90.00
	The Utah and Pacific R. R. Co.	do	45.00
	Improvement, Loan, and Trust Co.	do	150.00
	City of Palestine, Tex.	do	78.50
	Albert Marty	do	165.00
	Adam Geiger	do	60.00
	M. E. Conway	do	37.74
	A. W. Kennie	do	25.00
	J. R. Hunter, agent	do	225.00
	Fraternal Hall Association	do	105.00
	H. F. Barnett	do	10.00
	B. S. Williams	do	73.00
	M. W. Cunningham	do	30.32
	John Semer	do	112.50
	D. L. Buhne et al.	do	92.20
	Fremont Lumber Co.	do	87.75
	J. L. Smith	do	30.00
	B. D. Johnson	do	63.00
	E. L. Renoe	do	150.00
	Board of Commissioners, Humboldt County, Nev.	do	67.00
	Mill Valley and Mount Tamalpais Scenic Rwy.	do	105.00
	Chamber of Commerce Building Co.	do	93.21
	J. G. Hatch	do	64.75
	Dexter Horton	do	120.00
	Northwestern Mutual Life Insurance Co.	do	125.00
	F. L. Keating	do	90.00
	F. E. Warren Mercantile Co.	do	129.40
	C. J. Baell	do	94.50
	Walter Talbot	do	120.00
	Pacific Club	do	65.75
	K. F. Coke	do	60.00
	Taylor National Bank	do	143.75
	A. W. Kennie	do	28.00
	E. D. Osborn	do	87.50
	R. G. Lewis	do	.92
	Lorenzo Littlefield	do	11.85
	Mutual Ice Delivery Co.	Ice	3.85
	Sheboygan Light, Power, and Railway Co.	Electric light	7.50
	East Tennessee Telephone Co.	Telephone services	9.00
	Cumberland Telephone and Telegraph Co.	do	12.90
	Sunset Telephone and Telegraph Co.	do	6.00
	Michigan Telephone Co.	do	18.60
	R. H. Varpahl	Recasting rollers	2.70
	Geo. Draper	Coal oil	5.00
	G. M. Hedderick	Stove	36.00
	Geo. F. Muth & Co.	Lamp wicks	5.50
	Densmore Typewriter Co.	Repairing typewriter	13.00
	Baltimore Bolt and Iron Works	Erecting instrument shelter	8.00
	D. F. Billmyer	Repairing office quarters	125.00



Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1902. Oct. 25	Arizona Publishing Co.....	Printing climate and crop bulletins.	\$101.00
	Norwich University .....	Steam heat .....	21.50
	Engene Shepardson .....	Towel service .....	3.00
	W. H. Jenks .....	Repairing electric motor .....	.50
	R. S. Bishop .....	Repairing platform of wind instrument.	36.00
	Sawyer Implement Co.....	Erecting storm-warning tower.	38.00
	G. C. Harris .....	Ink and mucilage .....	1.25
	John O'Brien .....	Painting wind vane .....	3.50
	C. H. Krebs & Co .....	Kerosene and gasoline .....	2.00
	Inland Type Foundry .....	Chase and gauge pins .....	2.98
	J. H. Cunningham .....	Glass, etc. ....	16.32
	Dan Stephenson .....	Repairing self-register .....	1.50
	Duluth Van and Storage Co .....	Drayage .....	3.00
	R. C. Kuhn Sash and Door Co .....	Glass .....	9.80
	A. Fairservice .....	Oil and brooms .....	8.50
	John Hyslop .....	Painting tower .....	10.00
	Gamble & Ludwig .....	Gasoline .....	.70
	H. R. Sadler .....	Repairing instrument stand .....	5.00
	Drey & Kahn Glass Co .....	Glass .....	7.25
	Manhattan Electric Supply Co .....	Shades and telegraph sounders.	22.45
	L. P. Parker .....	Wood .....	20.00
	Gordon Battery Co .....	Battery cells .....	5.40
	The Myers Co .....	Repairing typewriter .....	5.50
	Herman Gundlach .....	Repairing roof walks .....	19.50
	Charleston substation .....	Pay Roll .....	186.00
	Milwaukee substation .....	do .....	180.00
	Cleveland substation .....	do .....	225.00
	Louisville substation .....	do .....	57.00
	New York substation .....	do .....	35.00
	Buffalo substation .....	do .....	162.00
	Chicago substation .....	do .....	495.00
	Macon substation .....	do .....	39.00
	Parkersburg substation .....	do .....	72.00
	Charleston substation .....	do .....	73.00
	Des Moines substation .....	do .....	258.40
	Portland, Oreg., substation .....	do .....	45.50
	Vicksburg substation .....	do .....	110.20
	Omaha substation .....	do .....	25.10
	La Crosse substation .....	do .....	66.50
	Alpena substation .....	do .....	105.00
	Mobile substation .....	do .....	72.00
	do .....	do .....	147.20
	Augusta substation .....	do .....	30.00
	Chicago substation .....	do .....	367.00
	Indianapolis substation .....	do .....	183.20
	Louisville substation .....	do .....	294.20
	New Orleans substation .....	do .....	84.00
	Wilmington substation .....	do .....	128.80
	do .....	do .....	72.00
	Montgomery substation .....	do .....	165.60
	Cairo substation .....	do .....	135.75
	Chattanooga substation .....	do .....	118.80
	Harrisburg substation .....	do .....	87.50
	Jacksonville substation .....	do .....	75.00
	Portland, Oreg., substation .....	do .....	75.00
	Cincinnati substation .....	do .....	189.00
	Sault Ste. Marie substation .....	do .....	135.00
	New Orleans substation .....	do .....	120.00
	Vicksburg substation .....	do .....	84.00
	Atlanta substation .....	do .....	200.80
	J. E. Harris, jr .....	Services .....	15.50
	M. A. Webster .....	do .....	15.00
	S. W. Lightner .....	do .....	30.00
	A. G. Wiley .....	do .....	9.00
	N. W. Wagner .....	do .....	21.00
	J. E. Cotter .....	do .....	15.75
	T. A. Boon .....	do .....	30.00
	C. P. Disney .....	do .....	21.00
	L. C. Collins .....	do .....	30.00
	J. L. Cline .....	Drayage and battery jars .....	1.40
	E. C. Vose .....	Station expenses .....	5.95
	P. Connor .....	do .....	9.95
	J. Warren Smith .....	Drayage .....	16.05
	J. P. Marbury .....	do .....	4.65
	F. J. Walz .....	do .....	8.20
	L. N. Jesunofsky .....	do .....	2.00
31	Willis L. Moore .....	Traveling expenses .....	116.75
	W. G. Burns .....	do .....	31.05

324 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1902. Oct. 31	First National Bank, Portland, Me .....	Office rent .....	\$126.00
	Michigan Telephone Co. ....	Telephone services .....	12.00
	Sunset Telephone and Telegraph Co. ....	do .....	15.00
	New England Telephone and Telegraph Co. ....	do .....	14.25
	Wagner Typewriter Co. ....	Typewriter .....	85.00
	Hoke Engraving Plate Co. ....	Typewriter and casting box .....	41.00
	do .....	Recoating base plates .....	287.50
	do .....	Repairs to base plates .....	199.50
	American Type Founders Co. ....	Electrotypes .....	137.50
	E. M. Bowman .....	Drayage .....	1.75
	Scarff & O'Connor Co. ....	News cases .....	1.28
	Dygert & Son .....	Pamphlet holders .....	25.00
	M. Cotter .....	Fuel .....	8.00
	B. J. Sherry .....	Ice .....	9.20
	W. P. Gilbert .....	Kerosene oil .....	5.00
	C. E. Scott & Co. ....	Coal .....	80.00
	H. C. Cooke .....	Traveling expenses .....	5.95
	O. L. Fassig .....	do .....	15.50
	G. D. Featherstone .....	do .....	2.00
	E. T. Giers .....	do .....	7.75
	J. B. Marbury .....	do .....	7.75
	O. St. Marie .....	do .....	9.75
	J. N. Ryker .....	do .....	15.60
	O. L. Fassig .....	Office expenses .....	5.35
	A. E. Hackett .....	do .....	5.85
	J. W. Byram .....	do .....	6.50
	F. H. Brandenburg .....	do .....	1.50
	G. E. Lawton .....	do .....	65.00
	Louis Dorman .....	do .....	21.00
	J. H. Kimball .....	do .....	30.00
	G. E. Grimes .....	do .....	9.52
	J. J. Kelliher .....	do .....	5.75
	W. G. Burns .....	do .....	3.50
	P. F. Lyons .....	do .....	1.25
	A. G. McAdie .....	do .....	2.05
	F. H. Clarke .....	do .....	4.50
	G. N. Salisbury .....	do .....	4.15
	E. R. Miller .....	do .....	1.25
	W. S. Belden .....	do .....	10.55
	G. W. Felger .....	do .....	1.00
	W. T. Lathrop .....	Traveling expenses .....	13.75
	E. C. Vose .....	do .....	10.15
	W. M. Wilson .....	do .....	65.60
	do .....	do .....	6.10
	D. A. Seeley .....	Tissue books, oil boards, and silk.	4.16
	C. C. Garrett .....	Washing towels .....	3.00
	R. H. Dean .....	Drayage .....	.50
	W. M. Wilson .....	Erecting instrument shelter, etc.	12.80
	T. S. Outram .....	Electric brushes and drayage ..	3.42
	L. M. Tarr .....	Traveling expenses .....	26.13
	F. J. Walz .....	Board and lodging .....	48.00
	L. H. Murdoch .....	Repairing instruments, etc .....	1.00
	Columbus, substations .....	Pay roll .....	275.40
	Galveston, substations .....	do .....	29.19
	do .....	do .....	491.60
	Kansas City, substations .....	do .....	293.80
	Memphis, substations .....	do .....	220.80
	Minneapolis, substations .....	do .....	546.00
	New Orleans, substations .....	do .....	219.40
	Pittsburg, substations .....	do .....	364.75
	St. Louis, substations .....	do .....	184.00
	San Francisco, substations .....	do .....	172.40
	The Freidenwald Co. ....	Manila cards .....	578.36
	do .....	Wrappers .....	960.00
	W. F. R. Phillips et al. ....	Pay roll, climatology .....	539.00
	Jno. P. Church et al. ....	Pay roll, printing office .....	2,887.34
Nov. 8	G. R. Oberholzer .....	Traveling expenses .....	19.25
	F. H. Brandenburg .....	do .....	14.25
	E. H. Bowie .....	do .....	16.66
	J. F. Atherton .....	do .....	13.80
	C. S. Grindle .....	do .....	13.95
	H. B. Hersey .....	do .....	13.45
	G. E. Lawton .....	do .....	5.75
	C. E. Vose .....	do .....	6.25
	H. A. McNally .....	do .....	38.75
	A. G. McAdie .....	do .....	5.50
	H. B. Boyer .....	do .....	.75
	M. L. Fuller .....	do .....	20.45

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1902. Nov. 8	N. R. Taylor .....	Traveling expenses .....	\$18.80
	T. B. Jennings .....	do .....	5.00
	H. C. Frankenkfield .....	do .....	44.81
	C. P. Cronk .....	Freight and drayage .....	20.00
	J. H. Smith .....	Drayage and expressage .....	4.15
	S. M. Blandford .....	Expressage .....	2.10
	J. R. Weeks .....	Cleaning river gauge .....	.75
	J. W. Cronk .....	Drayage .....	3.00
	A. H. Thiessen .....	Oil, cartage, and lodging .....	25.50
	E. H. Emery .....	Board and lodging .....	88.50
	J. C. Entwistle .....	Engraving river chart .....	7.50
	Peter Gray .....	Lanterns, burners, and wicks .....	2,278.40
	H. J. Green .....	Repairing thermometers .....	49.45
	do .....	Thermometers .....	1,000.00
	A. Zappone .....	Traveling expenses .....	81.45
	John Hyslop .....	Services .....	30.00
	C. P. Searle .....	do .....	30.00
	Al. Brand .....	Gas and electric current .....	16.94
	E. H. Bowie .....	Drayage, etc .....	10.10
	W. T. Blythe .....	do .....	22.63
	R. G. Allen .....	do .....	17.60
	O. St. Marie .....	Lodging and meals .....	8.57
	W. Roche .....	Dry cells .....	5.86
	E. A. Beals .....	Drayage .....	14.58
	C. F. von Herrmann .....	do .....	26.62
	W. G. Burns .....	Meals and lodging .....	19.12
	Neely Electric Co .....	Silk cord, etc .....	41.54
	Robt. Maxwell .....	Services .....	30.00
	Augusta, substations .....	Pay roll .....	164.80
	Baltimore, substations .....	do .....	90.00
	Galveston, substations .....	do .....	48.25
	Houghton, substation .....	do .....	60.00
	Little Rock, substations .....	do .....	51.00
11	Knoxville, substations .....	do .....	104.75
	Little Rock, substations .....	do .....	9.00
	Memphis, substations .....	do .....	51.00
	Montgomery, substations .....	do .....	46.50
	Nashville, substations .....	do .....	70.90
	New Orleans, substations .....	do .....	152.80
	Philadelphia, substations .....	do .....	69.00
	Port Huron, substations .....	do .....	195.00
	Raleigh, substations .....	do .....	120.00
	Savannah, substations .....	do .....	61.00
	do .....	do .....	202.00
	Shreveport, substations .....	do .....	41.55
	Sioux City, substations .....	do .....	105.00
	J. I. Widmeyer .....	Traveling expenses .....	21.75
	H. Hamilton .....	Services .....	2.74
	do .....	do .....	5.00
	San Francisco, substations .....	Pay roll .....	20.00
	R. M. Geddings .....	Drayage and office expenses .....	5.93
	St. Louis, substations .....	Pay roll .....	125.80
	Richmond, substations .....	do .....	6.50
15	Omaha, substations .....	do .....	239.20
	Boston, substations .....	do .....	757.25
	Atlanta, substations .....	do .....	78.00
	New York, substations .....	do .....	35.00
	Charleston, substations .....	do .....	24.80
	do .....	do .....	35.00
	Vicksburg, substations .....	do .....	37.20
	Atlanta, substations .....	do .....	68.20
	Memphis, substations .....	do .....	68.20
	Tom Sweeney Hardware Co .....	Coal stove .....	35.00
	Keuffel & Esser Co .....	Drawing table .....	11.00
	Wm. Schwarzwaelder & Co .....	Wardrobe .....	22.00
	Western Union Telegraph Co .....	Repairing telegraph line .....	10.90
	R. L. Polk & Co .....	Business directory .....	5.00
	S. B. Hicks & A. E. Hicks .....	Office rent .....	120.00
	F. L. Ewing .....	Ice .....	9.20
	H. B. Hartman .....	Water .....	7.50
	F. G. Wayne .....	Repairing and painting .....	6.00
	Jacksonville Towel Co .....	Washing towels .....	2.00
	Whitall, Tatum Co .....	Glass graduate .....	.71
	J. B. Irwin .....	Repairs to building .....	450.00
	O. G. Skylstead .....	Bowl and pitcher .....	1.50
	S. A. D. Keisler .....	Ink and mucilage .....	3.25
	Emry Davis .....	Inkstands .....	108.00
	W. F. Starkweather .....	River gauge .....	25.00
	Central Union Telephone Co .....	Telephone service .....	40.50
	Wyckoff, Seamans & Benedict .....	Repairing typewriters .....	23.00

326 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1902. Nov. 15	Schneider Bros	Anemometer cups	\$50.00
	H. H. Hart	Binding weather maps	6.00
	G. E. French & Co	Silver sand	3.00
	Broderick Bros	Rags	14.00
	J. A. Melton	Forms case	46.50
	Hermann & Co	Repairing furniture	36.50
	W. H. Branigan	Repairing telegraph lines	10.00
	California Ink Co	Casting rollers	2.55
	L. E. Scars	Washing towels	1.50
	Mack Wellman	Glass	14.00
	F. F. Bosnot	Nephoscope support	1.00
	New England Telephone and Telegraph Co	Telephone services	8.25
	The General Cartage and Storage Co	Cartage	6.25
	J. B. Throckmorton, jr	Carriage hire	38.75
	Vicksburg Herald	Printing	10.50
	E. H. Farbusch	Drayage	1.00
	Barnhart Bros. & Spindler	Type	33.61
	W. T. Langlois	Printing	40.00
	Western Union Telegraph Co	Repairing telegraph line	12.95
	Marquette County Savings Bank	Office rent	90.00
	N. B. Conger	Office expense	12.25
	The Society for Savings	Office rent	285.00
	Joseph Bryan	do	150.00
	C. P. Jones	do	25.00
	I. D. Gibson	Laying carpet	5.00
	Dunn & Lemmon	Printing	30.00
	Peleg Brown	Horse hire	19.00
	L. P. Parker	Repairing telegraph line	3.00
	Woodward & Lierman Printing Co	Bookbinding	20.00
	Nebraska Telephone Co	Telephone service	22.50
	John Bruegger	Window shades	13.60
	Consumers' Ice Co	Ice	4.58
	Gether-Drebert-Perkins Co	Stereotype metal	11.30
	Southern Bell Telephone and Telegraph Co	Telephone service	24.00
	P. H. Cheney & Sons	Electric current	5.62
	B. J. Sherry	Repairing telegraph line	1.50
	Norwich University	Moving office	125.00
	H. A. Poole	Repairing telegraph line	3.00
	C. H. Besly & Co	Blast lamp	3.37
	L. Rogers	Horse hire	30.00
	Campbell Printing Press and Manufacturing Co	Air valve	.75
	Yates & Co	Coal oil	2.26
	R. L. Lewis	Telephone services	24.00
	E. Dickerson	Glass	22.00
	Wolf Bros	Printed envelopes	15.15
	O. J. Maigue	Recasting rollers	58.94
	H. E. Clack	Drayage	.75
	Bertram Wilson	Repairing telegraph line	4.00
	J. E. Thomas	Storing coal	5.00
	Potter Bros	Brush hook	1.00
	A. M. Adie	Horse hire	1.00
	C. E. Johnson	do	1.50
	C. J. Brierley	Repairing telegraph line	4.00
	W. E. Williams	Carpet sweeper	3.00
	Robt. Tyler	Printing	17.50
	The Globe-Wernicke Co	Pamphlet-holder boxes	12.15
	Montgomery substations	Pay roll	55.80
	Myer, Newberger & Co	Silk sheets	7.50
	C. A. Nason	River gauge	8.00
	R. C. Evans	Office rent	8.00
	L. J. Baker	Services	.50
	Oklahoma substations	Pay roll	222.80
	E. Antoine	Printing	2.40
	Smith Premier Typewriter Co	Repairing typewriter	16.50
	A. Greenwood & Co	Painting river gauge	12.50
	Claybourne Burner Co	Repairing furnace, etc	11.55
	G. W. Millar & Co	Plate paper	360.00
	H. H. Hodgson	Repairing typewriter	10.10
	J. K. Porter	Office rent	150.00
	M. E. Shelden	do	93.75
	Wm. J. Smith	Printing office sign	3.00
	Evans & Meekins	Drayage	46.00
	do	do	54.00
	James Hunter	do	52.00
	J. Spiers	Painting	1.00
	J. T. Patrick	do	1.00
	E. T. Hollowell	do	1.25
	Electric Light Co	Electric current	5.99
	Ivrie Electrical Supply and Construction Co	Electric light	65.00

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Nov. 15	C. D. Page	Drayage	\$10.60
	M. W. Divine & Co	Glass	16.40
	Iowa Telephone Co.	Telephone service	30.00
	The Empire State Telephone and Telegraph Co.	do	7.50
	John Carter & Co	Paper	25.50
	National Lead Co	Stereotype metal	3.36
	J. I. Schaffer	Repairing office furniture	3.00
	Southern Bell Telephone and Telegraph Co	Telephone services	12.25
	F. G. Blaisdell	do	16.50
	M. J. Nash	Erecting instrument shelter	1.50
	The Cleveland Telephone Co	Telephone service	30.00
	E. D. Beattie	Printing	36.00
	J. J. Nolan	Repairing river gauge	7.50
	Delaware and Atlantic Telegraph and Telephone Co.	Telephone services	12.00
	The Commercial Electric Co	Electric current	9.91
	H. S. Dodd	Drayage	4.00
	C. R. Redden	Erecting instrument shelter	5.80
	Louis Boder	Erecting supports	12.00
	Pacific States Telephone and Telegraph Co.	Rent of conduit	35.10
	Fall River Electric Light Co	Electric light	9.00
	The Lorain Gas Co	Electric current	7.67
	Pacific States Type Foundry	Type	2.00
	F. E. Hamell Rope Co	Halyards	2.00
	Houghton County Electric Light Co.	Electric light	2.34
	H. M. Price	Halyards	10.32
	Municipal electric light plant	Electric current	18.00
	W. A. Fellows	River gauge	88.00
	Needham Bros	Washing towels	.36
	Wm. Nordhoff	Repairing clocks	16.50
	American Type Founders' Co	Type	29.36
	P. A. Willis	Rent of roof	8.18
	D. B. Dodge	Office rent	49.03
	S. H. Britton	Repairs to press	26.00
	American Ice Co	Ice	6.15
	Julien P. Friez	Repairs to instruments	337.50
	T. D. Stewart	Erecting instrument shelter	9.00
	Flint & Walling Manufacturing Co	Wrenches	3.75
	Hugh Reilly	Turpentine	24.15
	American Writing Machine Co.	Typewriters and covers	144.50
	do	do	69.75
	do	Repairs to typewriter	20.75
	do	Typewriter and cover	72.25
	do	do	72.25
	do	Platen	2.00
	W. B. Moses & Sons	Chair	5.90
	do	Bookcase	22.55
	Mackall Bros	Chemicals	19.01
	Woodward & Lothrop	Towels and linen	262.87
	do	Furniture	56.99
	Herman Baumgarten	Rubber stamps	2.47
	J. Baumgarten & Sons	Logotype outfits	709.34
	E. J. Pullman	Photograph material	22.47
	Barber & Ross	Tools, handles, etc	48.05
	Southern Printers' Supply Co.	Repairing stitching machine	60.00
	Marthas Vineyard Telegraph Co.	Telegraph services	48.82
	Jacksonville and St. Johns Bar Telegraph Line.	do	12.25
	Chicago, Burlington and Quincy R. R. Co.	do	2.74
	Minneapolis, St. Paul and Sault Ste. Marie Rwy. Co.	do	15.98
	The Bell Telephone Co. of Buffalo	do	.55
	Ocean Towboat Line	do	30.00
	Baltimore and Ohio R. R.	do	2.70
	Postal Telegraph Cable Co. of Texas	do	32.96
	The Great Northwestern Telegraph Co. of Canada.	do	165.22
	Enterprise Telegraph Co	do	2.60
	Postal Telegraph Cable Co.	do	24.71
	W. J. Crawford	Drayage	2.25
	New England Telephone and Telegraph Co.	Telegraph service	2.60
	Aurora and Friendship Telephone Line	do	15.60
	Pacific States Telephone and Telegraph Co.	do	42.49
	Ann Arbor R. R. Co	Passenger transportation	2.96
	Chesapeake and Ohio Rwy. Co	do	32.00
	Atlantic City R. R. Co	do	1.75
	Atlantic Coast Line	do	2.85
	Nashville, Chattanooga and St. Louis Rwy.	do	11.75
	Union Pacific R. R. Co	do	28.65

## 328 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

*Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.*

## GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1902. Nov. 15	Grand Trunk Rwy. Co.	Passenger transportation	\$7.30
	Manistee and Northeastern R. R. Co.	do	2.93
	Pennsylvania Co.	do	35.00
	Georgia Southern and Florida Rwy. Co.	do	7.90
	Louisville and Nashville R. R. Co.	do	9.00
	Utah and Nevada Express Co.	do	28.00
	The Western Rwy. of Alabama	do	26.00
	Atlanta and West Point R. R. Co.	do	2.61
	Atchison, Topeka and Santa Fe Rwy. Co.	do	13.40
	Grand Rapids and Indiana Rwy.	do	.81
	New York Central and Hudson River R. R. Co.	do	9.78
	South Haven and Eastern R. R. Co.	do	1.00
	Denver and Rio Grande E. R. Co.	do	38.55
	Central of Georgia Rwy. Co.	do	1.52
	Boston and Maine R. R.	do	5.99
	do	do	.90
	Chicago and Northwestern Rwy. Co.	do	75.50
	do	do	19.20
	Delaware, Lackawanna and Western R. R. Co.	do	24.75
	do	do	9.65
	Northern Pacific Rwy. Co.	do	5.80
	do	do	5.20
	do	do	12.74
	do	do	25.75
	Michigan Central R. R. Co.	do	6.99
	do	do	16.59
	New York, New Haven and Hartford E. R. Co.	do	1.70
	do	do	13.10
	do	do	12.25
	Great Northern Rwy. Co.	do	20.00
	do	do	15.95
	Southern Rwy. Co.	do	4.60
	do	do	2.05
	U. S. Express Co.	Express charges	7.00
	Littlefield, Alvord & Co.	Expressage	37.74
	Louisville and Nashville R. R. Co.	Freight charges	1.11
	N. B., M. V. and Nan. Steamboat Co.	do	.61
	Pennsylvania R. R. Co.	do	.45
	do	do	.66
	do	do	.59
	do	do	.81
	do	do	.67
	do	do	.42
	do	do	.66
	do	do	3.58
	do	do	1.00
	do	do	.35
	do	do	.60
	do	do	.60
	do	do	.88
	do	do	.45
	do	do	.50
	do	do	.25
	Richmond, Fredericksburg and Potomac R. R. Co.	do	1.01
	Rio Grande Western Rwy. Co.	do	.25
	E. S. Randall Potomac River Line Co.	do	10.06
	Star Union Line	do	.51
	do	do	.94
	do	do	.67
	do	do	3.26
	do	do	.83
	Southern Rwy. Co.	do	9.89
	do	do	1.27
	do	do	.83
	F. B. Spear & Son	do	.57
	St. Louis Transfer Co.	do	1.42
	do	do	.95
	do	do	.70
	Wabash R. R. Co.	do	.70
	St. Louis and San Francisco R. R. Co.	do	1.06
	Star Union Line	do	.67
	New York Central and Hudson River R. R. Co.	do	14.06
	Chesapeake and Ohio Rwy. Co.	do	3.42
	Washington Southern Rwy. Co.	do	.69
	Delaware, Lackawanna and Western R. R. Co.	do	.70

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Nov. 15	E. Argeltinger	Drayage	50.18
	Erie and Western Transportation Co	Freight charges	.83
	do	do	.57
	do	do	2.38
	do	do	.57
	do	do	.68
	do	do	1.93
	J. J. Hagerty	Drayage	1.80
	W. J. Crawford	do	2.25
	Evansville and Terre Haute R. R. Co	Freight charges	.75
	Fort Worth and Denver City Rwy. Co	do	1.89
	Southern Rwy. Co	do	5.28
	do	do	36.62
	Littlefield, Alvord & Co	Drayage	18.72
	New York Central and Hudson River R. R. Co.	Freight charges	3.96
	Pennsylvania R. R. Co	do	.45
	do	do	.54
	do	do	.31
	Erie and Western Transportation Co	do	2.10
	Cleveland, Cincinnati, Chicago and St. Louis Rwy. Co.	do	1.31
	do	do	4.81
	Atlantic Coast Line R. R. Co	do	.58
	J. J. Hagerty	Drayage	3.68
	Chicago and Northwestern Rwy. Co	Freight charges	1.41
	Denver and Rio Grande R. R. Co	do	5.27
	Louisville and Nashville R. R. Co	do	.92
	Wabash R. R. Co	do	1.47
	Norfolk and Washington Steamboat Co	do	.75
	S. C. Dooley	Hauling	1.00
	New Orleans, substations	Pay roll	50.60
	Mobile, substations	do	49.60
	Portland, Me., substations	do	87.74
	Summer Hackett	Drayage, etc	1.00
	Cincinnati, New Orleans and Texas Pacific Rwy. Co.	Freight charges	.82
	Continental Caoutchouc and Guttapercha Co	Rubber balloons	80.85
17	L. C. Bandin	Thermometers	27.02
	J. H. Stuhe	Frames and glass	118.00
	J. C. Parker	Map paper	400.53
	American Ice Co	Ice	1.35
	New Orleans, substations	Pay roll	54.80
	A. A. Finck	Printing	6.00
	Valley Paper Co	Paper	22.40
	John Underwood & Co.	Carbon paper	67.50
	R. C. Ballantyne	Paper, etc	528.30
	C. M. Newton	Repairs to desk	1.50
	A. C. Pickels	Subsistence	42.75
	H. C. Cooke	Traveling expenses	9.10
	W. S. Belden	do	9.80
	Standard Oil Co	Oil	6.24
	do	Benzine	5.81
	E. E. Howell	Relief map	25.00
	H. Baumgarten	Rubber stamps	1.63
	do	do	4.68
	J. C. Entwistle	Engraving charts	7.50
	Maurice Joyce Engraving Co	Electrotypes, etc	37.82
	do	do	78.15
	H. Baumgarten	Rubber stamps	1.42
	do	do	1.28
	E. Morrison Paper Co	Paper	11.00
	M. Joyce Engraving Co	Electrotypes, etc	60.27
	do	do	75.49
	American Writing Machine Co	Typewriter and cover	72.25
	do	Repairing typewriter	12.85
	do	do	10.90
	W. B. Moses & Sons	Linoleum	9.00
	do	Chair, etc	10.32
	do	do	15.48
	Woodward & Lothrop	Chairs and table	11.75
	do	Chairs and desk	28.85
	do	Millinet	.93
	Houghton & Delano	Camera case	2.00
	J. B. Lambie	Scissors and spigots	31.28
	M. G. Copeland Co.	Pennants	11.40
	Clark & Davenport	Carpet	61.48
	Wagner Typewriter Co	Typewriter and case	87.50
	J. H. Thiemeyer	Packing boxes	18.00

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Nov. 17	The J. C. Ergood Co.	Feather dusters	\$66.20
	Wyckoff, Seamans & Benedict	Repairing typewriter	16.00
	Fort Smith, substations	Pay roll	39.00
	E. E. Cleveland Furniture Co.	High stools	8.00
	East Tennessee Telephone Co.	Telegraph services	7.80
	Iowa Telephone Co.	do	7.90
	Dakota Central Telephone Lines (Incorporated).	do	85.14
	Alabama, Mississippi and Tennessee Telephone Co.	do	6.00
	Home Telephone Co.	do	3.75
	Michigan Telephone Co.	do	8.10
	James Kenecaly	Express charges	1.60
	Allen Buell	Repairing typewriter	6.00
	W. H. Dyer	Sawdust	1.75
	Sunset Telephone and Telegraph Co.	Telegraph services	6.00
	The Consolidated Improvement Co.	Office rent	165.00
	Jabez T. Mathews	Erecting wind vane, etc	31.00
	Burt Brown	River gauge	10.00
	E. C. Fuller	Bookbinders' wire	3.80
	E. C. Sawyer	Repairing linoleum	1.00
	Eberhard Faber	Pencils	39.78
	Home Telephone Co.	Telegraph services	3.90
	G. W. O'Brien	Office rent	15.00
	Corvallis and Eastern R. R. Co.	Telegraph services	2.50
	Yates & Co.	Benzine	1.15
	Rocky Mountain Bell Telephone Co.	Telephone services	38.40
	Cumberland Telephone and Telegraph Co.	do	20.10
	do	do	.40
	do	do	7.00
	The Ohio River Telephone Co.	do	15.40
	Winton Telegraph Co.	Telegraph services	7.60
	Enterprise Ice Co.	Ice	6.15
	Rising Sun Telegraph Line.	Telegraph services	5.20
	The Central District and Printing Telegraph Co.	do	16.80
	Pacific States Telephone and Telegraph Co.	do	10.40
	Cumberland Telephone and Telegraph Co.	Telephone services	150.10
	H. E. Wadsworth	Telegraph services	41.60
	C. E. Johnson & Co.	Inks	127.50
	Thayer & Jackson Stationery Co.	Bookbinding	60.00
	E. W. Hilliard	Furniture	17.00
	Queen & Co. (Incorporated)	Instruments	131.25
	S. A. Bowe	River gauge	5.00
	John Underwood & Co.	Carbon paper	98.30
	E. A. Hughes	Lamps	3.00
	Joe Watkins	Drayage	.50
	Star Union Line.	Freight charges	.72
	do	do	9.65
	do	do	1.06
	do	do	.67
	Chicago and Northwestern Rwy Co.	do	1.79
	Virginia and Truckee R. R. Co.	do	1.85
	Steamer New Shoreham	do	5.86
	E. Aigeltinger	Drayage	1.30
	O. J. Humphrey	Freight charges	144.00
	C. H. Mallory & Co.	do	17.50
	J. W. Smith	Express charges	2.05
	G. B. Chadwick & Co.	Erecting storm-warning tower	60.00
	Eimer & Amend	Silver wire	.80
	Southern Printers' Supply Co.	Printers' supplies	1.69
	B. J. Sherry	Services	6.00
	Geary Brothers	Hauling	1.50
	Geo. F. Muth & Co.	Paint, etc	18.64
	Yates & Co.	Oil	1.05
	Clark & Davenport	Carpet	75.84
	American Writing Machine Co.	Typewriter	72.25
	Portland General Electric Co.	Services	9.00
	The Pacific Transfer Co.	Express charges	18.75
	National Electrical Supply Co.	Belting	17.64
	Elizabeth City and Norfolk Telegraph Co.	Telegraph services	1.58
	B. S. Bennett	Cord wood	18.00
	Western Union Telegraph Co.	Telegraph services	122.61
21	A. G. Burns	Repairing roof, etc	4.38
	David Cuthbertson	Stereotype metal, etc	18.25
	A. McC. Ashley	Drayage	8.00
	H. Hamilton	Services	5.00
	Geo. Draper	Coal oil	25.13
	Jacksonville Telephone Co.	Telegraph services	7.50
	W. H. Burch	Surveying	5.00



## Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Nov. 21	G. W. Emery	Drayage	\$1.50
	J. P. Regan	do	1.75
	W. M. Shuler	Painting	1.00
	The Atchison, Topeka and Santa Fe Rwy. Co.	Freight charges	20.82
	Baltimore and Ohio R. R. Co	do	1.68
	do	do	.32
	St. Lou's Transfer Co	do	1.02
	Pennsylvania R. R. Co	do	.63
	New York, New Haven and Hartford R. R. Co.	do	.52
	Wabash R. R. Co	do	.56
	R. G. Allen	Traveling expenses	15.29
	H. B. Hersey	do	68.35
	W. V. Martin	do	9.40
	H. S. Cole	do	8.00
	O. L. Blue	do	5.20
	A. E. Hackett	do	21.68
	do	do	11.56
	F. J. Walz	Maintenance	49.50
	do	Drayage, etc	11.30
	H. H. Kimball	Lodging and meals	8.50
	do	Traveling expenses	5.75
	J. I. Widmeyer	do	54.25
	W. M. Fulton	do	5.82
	G. E. Turner	do	10.10
	M. E. Blystone	do	25.95
	E. M. Keyser	do	6.25
	Louis Dorman	Maintenance	21.70
	W. J. Rachal	Services	18.20
	P. E. Smyth	Repairing typewriter	8.45
	H. P. Hardin	Ice, fuel, and oil	18.25
	R. W. Gray	Maintenance	16.50
	Central R. R. Co	Passenger transportation	6.50
	Louisville and Nashville R. R. Co	do	9.82
	M. Du Perow	Wire	59.38
	Clark & Davenport	Carpet	49.14
	do	do	66.86
	J. E. Turton	Instrument shelter	1,671.75
	A. Ballinger	Freight transportation	.17
30	W. R. Chambers	Services	6.20
	Galveston, substations	Pay roll	161.20
	Wilmington, substations	do	43.40
	Little Rock	do	289.60
	J. Warren Smith	Traveling expenses	11.70
	D. V. Burney	do	19.00
	A. B. Wollaber	do	49.15
	H. C. Cooke	do	14.00
	W. S. Palmer	do	36.50
	do	do	90.00
	J. H. Kimball	do	31.00
	A. J. Mitchell	Express and drayage	4.70
	J. L. Bartlett	Station expenses	2.91
	F. R. Beahan	Laying carpet	5.00
	O. St. Marie	Maintenance	24.67
	Julien P. Friez	Brass sockets	37.50
	do	Barograph and thermograph pens.	37.50
	Goodell Co.	Pencil pointers	4.10
	W. B. Moyers	Repairing river gauge	8.00
	J. Weltner	Ink, mucilage, brooms, etc.	6.40
	John Lang	Services	6.25
	G. L. Ferrin	Reeving halyards	2.00
	H. J. Wohlgemuth	Repairing instruments	3.00
	Sioux City, substations.	Pay roll	28.00
	E. H. Emery	Traveling expenses	2.25
	Savannah, substations	Pay roll	68.20
	L. A. Midgett	Firewood	45.00
	W. R. Perry	Coal and oil	61.90
	Adams Express Co	Express charges	20.22
	do	do	63.93
	I. M. Cline	Office expenses	9.30
	O. W. Roberts	do	4.15
	A. J. Davis	Express charges	2.15
	G. M. Chappel	Drayage	2.50
	Cleveland Abbe	Traveling expenses	6.81
	American Ice Co	Ice	6.00
	The Smith Premier Typewriter Co	Typewriter stand	4.50
	Herman Baumgarten	Rollers	32.50
	do	Rubber stamps	2.44

332 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Nov. 30	Clark & Davenport	Carpet	\$22.66
	do	Linoleum	47.88
	Woodward & Lothrop	Office furniture	69.55
	F. A. Schmidt	Oil boards	19.86
	Rudolph, West & Co	Pitchers	21.12
	American Writing Machine Co.	Repairing typewriter	18.35
	W. B. Moses & Sons	Bookcase and table	23.35
	Evans & Meekins	Oil, etc	4.82
	W. T. Cenlile & Son	Bookcase	21.75
	The Villium Box and Lumber Co	Roof platform	45.00
	L. H. Babcock	do	10.00
	C. S. Piper	Instrument shelter	50.80
	Julius Lando	Repairs to field glasses	3.75
	H. S. Crocker Co	Ink and mucilage	2.25
	Ernest McCullough	River gauge	6.00
	G. L. Bartlum	Boat furniture	6.10
	Washington Southern Rwy. Co.	Passenger transportation	22.65
	United States Envelope Co	Envelopes	13.40
	American Type Founders Co.	Type	15.57
	do	do	13.69
	W. F. Ferguson & Co	Stair rubber	6.38
	Wyckoff, Seamans & Benedict	Typewriter and cover	90.00
	French & Bassett	Stove oil	7.45
	N. C. Grover	River gauge	18.00
	William James	Firewood	20.00
	A. B. Pitman	Services	6.25
	Hoke Engraving Plate Co	Stereotype metal	5.40
	W. H. Field	Carpentry	2.00
	H. H. McNeil	Inks	3.00
	C. W. Friend	Services	1.50
	H. W. Gross	Glass	1.00
	Racine Boat Manufacturing Co	Launch	500.00
	R. P. Andrews & Co. (Incorporated)	Paper	652.00
	National Electrical Supply Co	Services	490.00
	Wm. H. Hoskins Co. (Incorporated)	Index cards	6.00
	S. Spitz	Cleaning clock	2.00
	H. F. Farley	River-gauge work	3.00
	Bendeinagel & Co	Recasting rollers, etc	1.75
	Western Union Telegraph Co	Services	450.00
	W. F. R. Phillips et al	Pay roll, climatology	522.00
	Jno. P. Church et al	Printing office	2,891.37
Dec. 6	N. B. Conger	Traveling expenses	207.15
	H. C. Merrill	do	23.80
	H. H. Kimball	Meals and lodging	30.00
	E. R. Richards	Traveling expenses	8.25
	do	Station expenses	7.85
	A. J. Mitchell	Traveling expenses	8.75
	E. C. Vose	do	9.47
	G. C. Coe	do	19.50
	A. H. Thiessen	Subsistence, etc	31.58
	Wm. G. Burns	Subsistence	45.00
	A. C. Pickels	Traveling expenses	21.45
	G. T. Todd	do	3.25
	W. M. Fulton	Station expenses	17.00
	C. E. Ashcroft, jr	Express charges	3.30
	T. T. Townsend	Station expenses	5.49
	H. K. Holcomb	Station supplies	1.61
	A. Wiesner	Traveling expenses	51.75
	Adams Express Co	Transportation	13.55
	Pennsylvania R. R. Co.	do	77.40
	New York substations	Pay roll	35.00
	H. W. Richardson	Traveling expenses	5.75
	C. A. Donnell	do	9.15
	W. H. Watters	do	5.20
	H. J. Kimball	Wind-vane supports	1.50
	Peter Wood	Station expenses	4.35
	M. J. Nash	Services	24.20
	H. T. Nisbett	do	19.00
	N. C. Dawson	Repairing river gauge	9.50
	American Writing Machine Co	Repairing typewriter	39.00
	do	Typewriter	72.25
	J. I. Holcomb Manufacturing Co.	Dust brushes	26.00
	M. F. & Jno. Barnes Co.	Saw blades	19.50
	A. C. Parker	Glass and attaching frames to wall	18.35
	Niles Pease Furniture Co.	Cleaning carpet, etc.	48.50
	C. Mauthe	Repairing thermograph clock	2.00
	Max Levy	Shades	2.75
	G. C. Williams	Erecting instrument shelter	12.00
	Leo. Suck	Moving office, etc	93.00

## Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1902. Dec. 9	John Underwood & Co .....	Semicarbon paper .....	\$45.80
	F. L. Wing .....	Matting, etc .....	8.20
	M. F. Hayes .....	Drayage .....	1.25
	E. D. Beattie .....	Printing climate and crop bul letins. ....	36.00
	John Lang .....	Repairing telegraph line .....	2.50
	R. W. Cook .....	Repairing wind vane .....	6.50
	L. C. Hall .....	Repairing telegraph line .....	2.00
	The Henry Walke Co .....	Circular saws .....	2.50
	do .....	Wire solder .....	.75
	Eimer & Amend .....	Platinum iridium .....	54.35
	Chas. J. Smith .....	Blotter bath, etc .....	7.47
	The Davis Kaser Co .....	Office furniture .....	10.25
	Morse & Land .....	Constructing tower, instrument shelter, etc. ....	200.00
	Thayer & Jackson Stationery Co .....	Cutting paper into sheets. ....	1.50
	W. H. H. Smith .....	Telegraph poles .....	175.00
	W. O. Davey & Sons .....	Trunk boards .....	51.45
	Standard Oil Co .....	Oil .....	5.61
	Oregon Short Line R. R. Co .....	Repairing guy rod .....	2.12
	Addressograph Co .....	Addressograph and cabinet .....	45.25
	Evans & Meekins .....	Station supplies .....	8.89
	G. S. Bruce & Co .....	Window shades and carpet .....	45.60
	George Innes & Co .....	Carpet .....	56.96
	E. G. Pluke .....	Painting anemometer supports. ....	5.00
	R. C. Evans .....	Office rent .....	8.00
	The Amarillo Grain and Coal Co .....	Coal .....	7.00
	John Carter & Co .....	Paper .....	51.00
	T. M. Caldwell .....	Erecting wind vane, etc .....	12.00
	S. Y. Austin .....	Repairing river gauge .....	5.00
	Florida Electric Co .....	Electric-light attachments .....	13.75
	Lewiston Furniture and Undertaking Co .....	Rug .....	10.00
	Jno. T. Odee .....	Repairing instrument shelter .....	1.50
	C. E. Johnson .....	Repairing telegraph line .....	1.00
	Chamberlain & Taylor .....	Ink and mucilage .....	11.00
	Tacoma Chamber of Commerce and Board of Trade .....	Office rent .....	75.00
	O. W. Bye .....	Repairing telegraph line .....	1.00
	H. A. Poole .....	Hire of horse .....	2.00
	Yates & Co .....	Oil .....	2.45
	Broderick Bros .....	Rags .....	14.00
	Clark & Davenport .....	Carpet .....	126.10
	do .....	Linoleum .....	22.80
	E. Morrison Paper Co .....	Paper .....	57.00
	W. B. Moses & Sons .....	Office furniture .....	28.07
	Geo. F. Muth & Co .....	Type .....	2.40
	do .....	Asphaltum .....	1.65
	do .....	Lantern wicks .....	2.70
	Campbell Printing Press and Manufactur- ing Co .....	Air valve .....	.75
	The Addressograph Co .....	Line holders and links .....	.75
	Lake Erie and Western R. R. Co .....	Passenger transportation .....	3.25
	Northern Michigan Transportation Co .....	do .....	2.00
	Oregon Short Line R. R. Co .....	do .....	10.50
	Southern Rwy. Co .....	do .....	17.00
	do .....	do .....	101.93
	Oregon Railroad and Navigation Co .....	do .....	12.75
	Lake Shore and Michigan Southern Rwy. Co .....	do .....	26.95
	Central of Georgia Rwy. Co .....	do .....	4.72
	Boston and Maine R. R. ....	do .....	4.22
	do .....	do .....	.70
	Union Pacific R. R. Co .....	do .....	26.45
	Baltimore and Ohio R. R. ....	do .....	25.00
	Chicago and Northwestern Rwy. Co .....	do .....	27.50
	Ann Arbor R. R. Co .....	do .....	8.03
	Michigan Central R. R. Co .....	do .....	36.00
	Great Northern Rwy. Co .....	do .....	25.00
	Pennsylvania Co .....	do .....	7.00
	Grand Trunk Rwy. System .....	do .....	8.50
	do .....	do .....	6.07
	Chicago, Milwaukee and St. Paul Rwy. Co .....	do .....	20.05
	Chicago, St. Paul, Minneapolis and Omaha Rwy. Co .....	do .....	11.50
	Galveston, Houston and Northern Rwy. Co .....	do .....	12.30
	Atlantic City R. R. Co .....	do .....	1.75
	Astoria and Columbia River R. R. Co .....	do .....	4.30
	Atchison, Topeka and Santa Fe Rwy. Co .....	do .....	14.11
	Santa Fe, Prescott and Phoenix Rwy. Co .....	do .....	127.85
	Texas Pacific Rwy. Co .....	do .....	14.55

## 334 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1902. Dec. 9	Delaware, Lackawanna and Western R. R. Co.	Passenger transportation.....	\$11.25
	The Pullman Co.....	do.....	5.50
	Wells, Fargo & Co. Express.....	Express charges.....	5.00
	S. C. Dooley.....	Drayage.....	.25
	Duluth, South Shore and Atlantic Rwy. Co.	Freight charges.....	.58
	Rome, Watertown and Ogdensburg R. R.	do.....	.85
	Wm. J. Crawford.....	Drayage.....	1.50
	Littlefield, Alvord & Co.....	do.....	42.12
	New York, New Haven and Hartford R. R. Co.	Freight charges.....	1.04
	Atlantic Coast Line R. R. Co.....	do.....	7.76
	Missouri Pacific Rwy. Co.....	do.....	1.02
	Mohawk and Malone Rwy.....	do.....	.70
	A. A. McCarkle.....	do.....	.13
	J. C. Parker.....	Paper.....	845.42
	Crocker-Wheeler Co.....	Carbon brushes.....	.20
	Cumberland Building Co.....	Repairing river gauge.....	15.00
18	F. J. Walz.....	Traveling expenses.....	149.60
	S. D. Flora.....	do.....	14.50
	A. G. McAdie.....	do.....	6.00
	F. H. Duff.....	do.....	2.0
	J. W. Bauer.....	do.....	8.16
	F. P. Chaffee.....	do.....	20.79
	G. H. Noyes.....	do.....	5.00
	Florida East Coast Rwy. Co.....	Passenger transportation.....	18.00
	The Cleveland, Cincinnati, Chicago and St. Louis Rwy. Co.	do.....	46.50
	Baltimore and Ohio R. R.....	do.....	32.25
	The Chesapeake and Potomac Telephone Co.	Telephone services.....	3.20
	Alabama and Georgia Long-Distance Telephone Co.	do.....	7.90
	do.....	do.....	8.10
	do.....	do.....	7.50
	Aurora and Friendship Telephone Line	do.....	7.50
	Alabama, Mississippi and Tennessee Telephone Co.	do.....	6.75
	The Central District Printing Telegraph Co.	Telegraph services.....	6.20
	Minneapolis, St. Paul and Sault Ste. Marie Rwy. Co.	do.....	22.06
	Cumberland Telephone and Telegraph Co.	do.....	96.70
	Home Telephone Co.....	do.....	4.05
	Marthas Vineyard Telegraph Co.....	do.....	25.48
	Corvallis and Eastern R. R. Co.....	do.....	2.70
	Postal Telegraph Cable Co. of Texas.....	do.....	64.03
	Pacific States Telephone and Telegraph Co.	do.....	6.90
	do.....	do.....	8.80
	do.....	do.....	9.60
	J. T. Harper.....	do.....	9.25
	Jacksonville and St. Johns Bar Telegraph Line.	do.....	6.00
	Great Northwestern Telegraph Co. of Canada.	do.....	160.68
	Philadelphia, Reading and Pottsville Telegraph Co.	do.....	.20
	F. H. Brandenburg.....	Station expenses.....	2.00
	O. D. Stewart.....	do.....	3.25
	H. F. Alps.....	do.....	11.25
	Louis Dorman.....	Subsistence.....	21.00
	Allen Buell.....	Repairs to roof, etc.....	4.70
	W. S. Currier.....	Drayage.....	2.25
	F. Z. Gosewisch.....	Repairing clock, etc.....	.75
	C. A. Donnell.....	Subsistence.....	25.33
	H. P. Hardin.....	Services and gasoline.....	29.90
	S. S. Bassler.....	Station expenses.....	3.67
	J. H. Kimball.....	Subsistence.....	30.00
	Hoke Engraving Plate Co.....	Recoating base plates.....	50.00
	do.....	Stereotype metal, antimony, etc.....	14.95
	do.....	Recoating base plates.....	287.50
	Addressograph Co.....	Parts for addressograph.....	2.10
	do.....	Cabinet.....	11.35
	Standard Oil Co.....	Gasoline.....	19.80
	Peter Gray.....	Repairing storm-warning lanterns.....	8.00
	J. Richard.....	Thermometer tubes.....	121.20
	Patterson Transfer Co.....	Drayage.....	1.00
	Seth Thomas Clock Co.....	Clocks.....	55.44
	J. C. Entwistle.....	Engraving rain chart.....	7.50

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Dec. 18	Charles Falk .....	Painting rain gauge .....	54.00
	The Maurice Joyce Engraving Co .....	Engraving plates .....	10.70
	F. A. Schmidt .....	Paper .....	15.00
	J. H. Bunnell & Co .....	Standard relay .....	7.50
	R. Carter Ballantyne .....	Paper .....	39.20
	do .....	Fasteners .....	43.49
	W. B. Moses & Sons .....	Chairs .....	11.80
	Frederick & Nelson .....	Furniture polish, brooms, etc .....	4.00
	Woodward & Lothrop .....	Desk .....	24.50
	do .....	Chairs .....	16.20
	do .....	Desk .....	24.50
	Illinois Central R. R. Co .....	Freight transportation .....	.27
	Pennsylvania R. R. Co .....	do .....	1.70
	do .....	do .....	.99
	do .....	do .....	.35
	do .....	do .....	.70
	do .....	do .....	.37
	do .....	do .....	.78
	Central Vermont Rwy. Co .....	do .....	1.88
	Boston and Albany R. R .....	do .....	1.71
	Southern Rwy. Co .....	do .....	1.80
	Washington Southern Rwy. Co .....	do .....	5.06
	Lakeside and Marblehead R. R. Co .....	do .....	1.00
	O'Callahan, Nelson & Co .....	do .....	.67
	F. B. Spear & Sons .....	do .....	29.50
	James Hunter .....	do .....	1.43
	J. J. Hagerty .....	do .....	6.09
	The Oregon Short Line R. R. Co .....	do .....	4.75
22.	W. B. Moses & Sons .....	Chair .....	30.96
	do .....	Chairs .....	11.50
	do .....	Table .....	11.50
	do .....	do .....	18.00
	J. B. Lambie .....	Hooks .....	9.39
	do .....	Rope, etc .....	4.90
	do .....	Tools, etc .....	120.24
	Western Union Telegraph Co .....	Telegraphic services .....	6.25
	Postal Telegraph Cable Co .....	do .....	591.57
	do .....	do .....	50.05
	do .....	do .....	89.30
	do .....	do .....	2.15
	Rocky Mountain Bell Telephone Co .....	do .....	5.20
	Baltimore and Ohio R. R. Co .....	do .....	4.97
	Chicago, Burlington and Quincy R. R. Co .....	do .....	2.40
	Rising Sun Telegraph Line .....	do .....	6.60
	The Bell Telephone Co. of Buffalo .....	do .....	6.00
	Alabama, Mississippi and Tennessee Tele- phone Co. ....	do .....	.80
	Moncure and Pittsboro Telegraph Co .....	do .....	60.00
	Ocean Tow Boat Line .....	do .....	5.10
	New England Telephone and Telegraph Co .....	do .....	43.50
	Pacific States Telephone and Telegraph Co .....	do .....	10.80
	do .....	do .....	3.86
	Elizabeth City and Norfolk Telegraph Co .....	do .....	73.09
	International Ocean Telegraph Co .....	do .....	63.75
	H. B. Hersey .....	Traveling expenses .....	9.50
	American Writing Machine Co .....	Repairing typewriter .....	2.00
	do .....	Platen for typewriter .....	.20
	New England Telephone and Telegraph Co .....	Telephone services .....	3.90
	The Tyrrell County Telephone Co .....	do .....	23.00
	North Mountain Telephone Co .....	do .....	19.88
	Illinois Central R. R. Co .....	Passenger transportation .....	10.50
	Pennsylvania Co .....	do .....	38.80
	Louisville and Nashville R. R. Co .....	do .....	15.75
	F. A. Schmidt .....	Oil boards .....	43.33
	Clark & Davenport .....	Carpet .....	24.00
	John C. Parker .....	Ink .....	14.50
	Wyckoff, Seamans & Benedict .....	Repairing typewriter .....	3.00
	H. J. Green .....	Thermometer .....	2.40
	Peter Gray .....	Thumb screws for lantern .....	490.44
	Geo. W. Millar & Co .....	Cardboard .....	30.03
	R. Carter Ballantyne .....	Envelopes .....	4.25
	Arkansas Democrat Co .....	Recasting rollers .....	11.19
	Meteorological Council .....	Compiling telegrams .....	3.00
	New York Telephone Co .....	Telephone services .....	48.00
	Evans & Meekins .....	Team hire .....	4.10
	L. F. Willoughby .....	Recasting rollers .....	4.00
	do .....	do .....	17.42
	Van Bibber Roller Co .....	Printing supplies .....	45.00
	E. C. Palmer & Co. (Limited) .....	Erecting storm warning tower .....	198.21
	Kelley Island Line and Transportation Co .....	Furniture and printers' supplies .....	4.65
	J. S. Pinney .....	do .....	
	Barber & Ross .....	Hand tack pullers .....	

336 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Dec. 22	Elizabeth Davison	Services	\$6.20
	D. Frank Parker	Typewriter ribbons	27.00
	F. L. Wing	Laying carpet	4.00
	H. P. Watson	Cypress poles	10.00
	W. S. Jenks	Battery trays	12.00
	Standard Oil Co	Oil	6.48
	National Printers' Supply Co.	Brushes	4.56
	American Type Founders Co.	Brass ovals	1.94
	Broderick Bros	Rags	14.00
	Keystone Type Foundry	Printing materials	8.20
	Foote, Pierson & Co.	Spark arreser	2.25
	Chas. Genschaw	Clearing brush from telegraph line	16.00
	J. & A. Bosch	Seismograph	149.70
	Western Electric Co	Gordon cells	6.00
	The Marine Review Publishing Co.	Subscription	4.75
	Theodore Schallere	Installing map frames	14.00
	Delaware and Hudson Co.	Freight transportation	.88
	do	do	1.22
	Pennsylvania R. R. Co	do	1.30
	Illinois Central R. R. Co	do	.72
	Boston and Maine R. R.	do	14.02
	Chesapeake and Ohio Rwy. Co	do	3.92
	Star Union Line	do	1.91
	do	do	.51
	Atlantic Coast Line	do	1.08
	do	do	2.11
	do	do	2.93
	Washington County R. R. Co	do	2.86
	Cornwall and Lebanon R. R. Co	do	.87
	The Denver and Rio Grande R. R. Co	do	29.94
	S. C. Dooley	Drayage	.50
	M. Du Perow	Recharges for battery	8.90
23	B. B. McCay	Traveling expenses	14.00
	A. J. Davis	Drayage	2.00
	R. J. Hyatt	Washing towels, etc.	5.80
	J. W. Smith	Traveling expenses	2.95
	do	do	1.55
	G. Goers	Repairing chairs	3.25
	A. H. Thiessen	Subsistence	30.00
	J. C. Widman & Co.	Weather map and frames	387.00
	Paul Haskins	Repairing launch	10.00
	Dyal Upchurch Inv. Co	Relocating rain gauges	1.20
	Universal Machine and Elevator Works.	Erecting pipe mast	17.50
	Walter Reed	Binoculars	51.15
	Berndt Carlson	Oil, can, and lanterns	7.65
	F. E. Hamell Rope Co	Rope	1.30
	Buxton & Skinner Stationery Co	Ink	1.65
	R. D. Baynard	Installing river gauge	5.50
	M. G. Copeland Co	Flags	705.50
	Flint & Walling Manufacturing Co	Supports for instrument shelter	201.60
	Chas. Williams	Repairing telegraph line	6.00
	T. A. Stevenson	Repairing electric apparatus	6.00
	H. R. Eley	Repairing telegraph line	5.00
	W. H. Renear	Team hire	4.00
	S. G. Morse	Horse hire	3.00
	Thos. Fairservice	Repairing telegraph line	1.00
	E. Minnihan	do	1.00
	J. B. Miner	Installing map frames	15.40
	Aberdeen Packing Co	Crosscut saw	2.75
	John Lang	Repairing telegraph line	2.50
	Millison Office Supply Co	Desk	38.50
	J. W. Austin	Repairing wind vane	2.00
	Great Western Smelting and Refining Co.	Stereotype metal	7.00
	G. W. Edwards	Binoculars	45.00
	Clark & Davenport	Carpet	116.71
	St. Louis Typewriter Exchange	Repairing typewriter	7.25
	A. F. Gourley & Bro	Repairing clock	1.50
31	H. A. Pool	Horse hire	10.00
	R. P. Andrews & Co. (Incorporated)	Penholders	29.00
	F. R. Bartlett	Repairing typewriter	10.00
	C. W. Crutsinger	Recasting rollers	2.00
	C. E. Johnson	Horse hire	1.25
	R. C. Ballantyne	Paper	143.92
	T. E. Warren Mercantile Co.	Office furniture	12.50
	G. F. Muth & Co	Linsed oil	3.25
	Heiman Baumgarten	Rubber stamps	1.93
	J. W. Austin	Repairing well	30.00
	Clark & Davenport	Carpet	30.52
	A. S. Fraser	Constructing river gauge	1,071.00

## Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1902. Dec. 31	St. Louis and San Francisco R. R. Co.....	Passenger transportation.....	\$7.40
	Chicago, Milwaukee and St. Paul Rwy. Co.....	do.....	2.55
	Southern Rwy. Co.....	do.....	3.30
	Seaboard Air Line Rwy.....	do.....	10.15
	J. A. Roebling's Sons Co.....	Copper wire.....	23.80
	James Berry.....	Traveling expenses.....	13.05
	Peter Gray.....	Storm-warning lanterns.....	2,950.00
	W. F. Phillips et al.....	Pay roll, climatology.....	563.71
	Jno. P. Church et al.....	Printing office.....	2,917.59
	Total second quarter.....		82,533.86
1903. Jan. 9	A. W. Kennie.....	Office rent.....	75.00
	Prudential Building Co.....	do.....	170.00
	William Pollman.....	do.....	112.50
	Tyree & Wilkins, agents.....	do.....	67.50
	F. E. Warren Mercantile Co.....	do.....	129.40
	The Citizens' Bank of Norfolk, Va.....	do.....	131.25
	Conrad National Bank.....	do.....	67.50
	B. M. Jacobs.....	do.....	30.00
	O. I. Mairs.....	do.....	90.00
	B. D. Johnson.....	do.....	63.00
	Dent & Butler.....	do.....	105.00
	A. J. Knight.....	do.....	82.19
	T. B. Catron.....	do.....	105.00
	S. B. Hicks and H. E. Hicks.....	do.....	120.00
	Consolidated Improvement Co.....	do.....	165.00
	Paine Brothers.....	do.....	73.95
	H. H. Taylor, agent Mills Building.....	do.....	322.50
	Estate of S. Marcks & Co.....	do.....	84.75
	Edgar Harding.....	do.....	70.00
	Fraternal Hall Association.....	do.....	105.00
	Warfield & Dann.....	do.....	72.00
	American Surety Co. of New York.....	do.....	625.00
	James L. Connell.....	do.....	118.75
	Walla Walla Lodge, No. 56, I. O. O. F.....	do.....	84.87
	The Gamble-Desmond Co.....	do.....	96.00
	Fremont Lumber Co.....	do.....	87.75
	Emily Cuthbertson.....	do.....	127.50
	do.....	do.....	127.50
	O. B. Hart.....	do.....	24.00
	Taylor National Bank.....	do.....	143.75
	D. L. Buhne, M. C. Pratt and S. C. Buhne.....	do.....	92.20
	Orson Adams, jr.....	do.....	120.00
	G. L. Lovett.....	do.....	105.00
	Henry Bolton.....	do.....	52.84
	City of Columbia, S. C.....	do.....	90.00
	J. J. Gray.....	Traveling expenses.....	9.80
	J. Kenealy.....	do.....	12.35
	E. D. Coberly.....	do.....	5.50
	J. H. Scott.....	do.....	16.15
	H. C. Hunter.....	do.....	3.85
	S. W. Glenn.....	do.....	18.65
	J. M. Kirk.....	do.....	27.80
	Southern Rwy. Co.....	Passenger transportation.....	44.90
	Chicago, Burlington and Quincy Rwy. Co.....	do.....	62.50
	Detroit and Cleveland Navigation Co.....	do.....	3.75
	Norfolk and Southern R. R. Co.....	do.....	3.85
	Oregon Short Line R. R. Co.....	do.....	36.10
	Chicago and Northwestern Rwy. Co.....	do.....	26.50
	Denver and Rio Grande R. R. Co.....	do.....	13.00
	Fort Worth and Denver City Rwy. Co.....	do.....	10.05
	Missouri and Kansas Telephone Co.....	Telephone services.....	6.00
	Bell Telephone Co.....	do.....	26.50
	Tampa Electric Co.....	Electric light.....	3.00
	Marais Lumber Co.....	do.....	6.00
	N. M. Cunningham.....	Post-office box rent.....	.40
	E. H. Emery.....	Station expenses.....	18.70
	H. C. Bate.....	do.....	2.40
	T. S. Collins.....	Cleaning river gauge.....	3.50
	W. G. Burns.....	Subsistence.....	45.75
	A. D. Carley.....	Painting office signs.....	7.00
	C. H. Terwilliger.....	Erecting instrument shelter.....	25.00
	Pew & Dryburgh.....	Erecting shelving, etc.....	43.50
	O. D. Thompson.....	Constructing board walk.....	28.50
	Eimer & Amend.....	Electric supplies.....	3.50
	W. P. Holcombe.....	Repairs for storm towers.....	58.65
	E. Dickerson.....	Repairing instrument shelter.....	13.00
	Amarillo Grain and Coal Co.....	Coal.....	7.00

338 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1903. Jan. 9	Pelouze Paper and Type Co	Casting rollers	\$2.70
	A. W. Porter	Running levels	6.00
	Idaho Furniture Co	Repairing furniture	11.50
	Dobbins Brothers	Keys for instrument shelter	.50
	The S. B. Hubbard Co	Repairing rain gauge	.75
10	A. R. Teeple	Traveling expenses	23.25
	E. M. Keyser	do	3.50
	J. Warren Smith	do	23.15
	A. C. Pickels	do	25.37
	L. A. Denson	do	5.50
	F. L. Ruble	do	24.50
	L. A. Denson	Subsistence	32.00
	G. T. Todd	Subsistence and drayage	45.00
	E. H. Nimmo	Washing towels	1.50
	J. C. Piercy	Drayage, etc	2.25
	L. C. Cover	do	1.00
	C. C. Garrett	Washing towels	3.00
	L. M. Dey	Drayage	1.40
	Norfolk substations	Pay roll	105.00
	Catherine Ryan	Cleaning office	12.00
	A. V. Landgraf	Services	15.00
	J. Lawrence	do	21.00
	J. J. Cason	do	15.00
	Valentine Montaya	Cleaning office	15.00
	J. T. Myers	do	15.00
	J. A. Venable	do	15.00
	Baumgardt Publishing Co	Printing climate and crop bulletins.	13.00
	C. T. Abeles & Co.	Making bulletin boards	96.50
	Dozier & Gay Hardware and Paint Co	Paint and brush	.85
	L. C. Hall	Repairing telegraph line	2.50
	J. C. Entwistle	Engraving rain chart	7.50
	Geo. Meier & Co.	Gum arabic	2.00
	Valley Paper Co.	Paper	140.00
	Hooker & Lightbody	Soap dishes	1.50
	E. L. Renoe	Office rent	150.00
	Walter Talbot	Stovepipe	1.50
	Addressograph Co.	Stamper arm	2.10
	Edward Vail & Co.	Repairing clock	2.50
	J. Miller	Installing storm-warning lanterns.	16.25
	J. J. Davis	Rerigging gaff on mast	33.00
	J. C. Widman & Co	Making map stretcher	102.00
	Chicago Edison Co	Repairing brush holder	1.88
	William Redd	Cleaning office	5.00
	L. V. Ellington	Form case	8.00
	Umstadter Myers Co.	Chairs	15.25
	Grant Rivenburg	Ice	2.30
	Hoke Engraving Plate Co	Stereotype metal	115.60
	J. F. Beck	Washing towels	3.00
	The American Toilet Supply Co	do	2.25
	The Silver State Towel Supply Co	do	3.00
	Williamson Towel Supply Co.	do	3.00
	Mary Fantleroy	do	1.50
	F. L. Knight	do	1.50
	Kentucky Steam Laundry	do	1.50
	Fowler Manufacturing Co. (Limited)	do	3.00
	L. Wilson	do	1.50
	American Linen Supply Co.	do	3.00
	Joe Campbell	do	2.25
	Joseph Gussenhoven	Office rent	90.00
	J. E. Rankin, guardian Coche heirs	do	96.00
	Utah and Pacific R. R. Co	do	45.00
	Adam Geiger	do	60.00
	Pacific Club	do	65.75
	J. G. Hatch	do	64.75
	T. M. Jeffris & Co	do	125.00
	First National Bank of Moorhead	do	66.31
	Indianapolis Gas Co.	do	256.25
	A. S. Cook	do	90.00
	Albert Marty	do	165.00
	Chamber of Commerce Building Co.	do	93.21
	J. E. Dooley	do	150.00
	John Smer	do	112.50
	Bank of Wytheville	do	100.00
	Chas. P. Meekins	Ground rent	10.00
	H. F. Barnett	do	10.00
	Board of Fire and Water Commissioners.	Electric light	5.00
	Charleston Consolidated Railway, Gas, and Electric Co.	do	8.75



*Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.*

## GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Jan. 10	San Antonio Gas and Electric Co .....	Electric light .....	\$6.25
	Menominee Electric Light, Railway, and Power Co. ....	do .....	3.50
	Muskegon Traction and Light Co. ....	do .....	15.00
	Washburn Electric Light and Power Co. ....	do .....	10.00
	Red Wing Gas and Electric Co. ....	do .....	7.50
	City of South Haven, Mich. ....	do .....	12.50
	City of Lake City, Minn. ....	do .....	7.50
	Northern Michigan Turning Works .....	do .....	12.50
	Charleston Consolidated Light, Railway, and Power Co. ....	do .....	8.75
	Georgetown Electric Co. ....	do .....	8.75
	Green Bay Light and Power Co. ....	do .....	3.00
	Sands Electric Lighting Co. ....	do .....	7.50
	Ashland Light, Power, and Street Railway Co. ....	do .....	5.00
	J. S. Stearns .....	do .....	5.00
	W. S. Bricker .....	Electric current .....	12.50
	J. F. Byrne .....	do .....	12.50
	Indianapolis Light and Power Co. ....	do .....	18.00
	Lincoln Traction Co. ....	do .....	13.50
	Standard Gas and Electric Co. ....	Gas .....	14.40
	Denver and Rio Grande R. R. Co. ....	Passenger transportation .....	50.75
	Northern Michigan Transportation Co. ....	do .....	1.75
	Northern Pacific Rwy. Co. ....	do .....	18.65
	Central of Georgia Rwy. Co. ....	do .....	2.64
	Zenith City Telephone Co. ....	Telephone services .....	7.50
	Michigan Telephone Co. ....	do .....	6.00
	Southern Bell Telephone Co. ....	do .....	12.00
	Cumberland Telephone and Telegraph Co. ....	do .....	12.00
	Ontario Telephone Co. ....	do .....	15.00
	Southern Bell Telephone and Telegraph Co. ....	do .....	3.00
	Columbia Telephone Co. ....	do .....	6.00
	The Consolidated Telephone Co. of Pennsylvania. ....	do .....	9.00
	Duluth Telephone Co. ....	do .....	12.50
	Independent Telephone Co. ....	do .....	7.00
	Lynchburg Telephone Co. ....	do .....	3.00
	New Telephone Co. ....	do .....	10.00
	Rocky Mountain Bell Telephone Co. ....	do .....	15.00
	Southern New England Telephone Co. ....	do .....	27.00
	Binghamton Telephone Co. ....	do .....	7.50
	Chicago Telephone Co. ....	do .....	15.00
	Consolidated Telephone Co. ....	do .....	5.00
	West Virginia Western Telephone Co. ....	do .....	4.50
	Southern Bell Telephone and Telegraph Co. ....	do .....	20.00
	Citizens' Telephone Co. ....	do .....	6.00
	Missouri and Kansas Telephone Co. ....	do .....	18.00
	Southern Bell Telephone and Telegraph Co. ....	do .....	24.00
	Southern States Telephone Co. ....	do .....	9.50
	Southern Bell Telephone and Telegraph Co. ....	do .....	9.00
	Sunset Telephone and Telegraph Co. ....	do .....	6.00
	Pacific States Telephone and Telegraph Co. ....	do .....	9.00
	Pennsylvania Telephone Co. ....	do .....	18.00
	The Inland Telephone and Telegraph Co. ....	do .....	9.00
	Bell Telephone Co. of Buffalo. ....	do .....	15.00
	Southern Bell Telephone and Telegraph Co. ....	do .....	15.00
	The Southwestern Telegraph and Telephone Co. ....	do .....	7.50
	The San Antonio Telegraph Co. ....	do .....	7.50
	Telephone Co. of South Jersey .....	do .....	5.00
	Idaho Independent Telephone Co. (Limited) .....	do .....	4.50
	Rocky Mountain Bell Telephone Co. ....	do .....	15.00
	The Colorado Telephone Co. ....	do .....	12.00
	Wytheville Telephone Co. ....	do .....	1.25
	Santa Fe Electric Telephone Co. ....	do .....	6.00
	Rocky Mountain Bell Telephone Co. ....	do .....	8.25
	Southern Bell Telephone Co. ....	do .....	12.00
	Michigan Telephone Co. ....	do .....	4.50
	Cumberland Telephone and Telegraph Co. ....	do .....	16.50
	Iowa Telephone Co. ....	do .....	15.00
	Missouri and Kansas Telephone Co. ....	do .....	30.00
	The Gordon Telephone Co. ....	do .....	9.00
	A. Klein .....	do .....	2.00
	East Tennessee Telephone Co. ....	do .....	9.00
	The Missouri and Kansas Telephone Co. ....	do .....	9.00
	Nebraska Telephone Co. ....	do .....	13.50
	The Central District and Printing Telegraph Co. ....	do .....	35.75

340 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Jan. 10	Alpena Electric Light Co	Electric light	\$5.00
	Power department town of Bayfield	do	5.00
	M. K. Weems & Co	Washing towels	1.80
	J. A. Morse	Erecting river gauge	5.00
	Weis & Co	Making iron bracket	.90
	Consumers' Ice Co.	Ice	3.95
	Hadley Dean Glass Co	Glass	4.50
	Bank of Tehama County	Office rent	99.06
	E. S. Hughes & Co	do	95.45
	J. Crocker	do	75.00
	J. L. Smith	do	30.00
14	H. B. Hersey	Drayage	8.45
	F. J. Walz	Traveling expenses	52.95
	Alpena, substations	Pay roll	88.06
	R. J. McMaster	Services	15.00
	A. H. Thiesen	Traveling expenses	22.50
	H. C. Cooke	do	10.60
	F. H. Clarke	Drayage, etc	2.45
	J. W. Bauer	do	2.40
	G. N. Wilson	Drayage	1.40
	H. H. Kimball	Subsistence	32.90
	Southern Bell Telephone and Telegraph Co.	Telephone services	15.00
	Sunset Telephone and Telegraph Co	do	6.00
	Palestine Telephone Co	do	9.00
	Chicago Telephone Co	do	57.50
	Southern Bell Telephone and Telegraph Co.	do	4.50
	Interstate Telephone and Telegraph Co	do	4.50
	The Colorado Telephone Co	do	13.50
	Michigan Telephone Co	do	22.50
	The Bell Telephone Co. of Missouri	do	22.50
	The Southwestern Telegraph and Telephone Co.	do	12.00
	Wisconsin Telephone Co	do	30.00
	Michigan Telephone Co	do	6.00
	J. B. Lambie	Machine bolts	2.90
15	F. P. Chaffee	Traveling expenses	8.55
	G. M. Chappel	do	3.25
	J. W. Byram	Telephone rent	6.35
	J. R. Weeks	Drayage, etc	3.50
	C. F. von Hermann	do	22.35
	A. G. Burns	do	1.30
	L. H. Daingerfield	do	1.75
	L. N. Jesunofsky	do	2.50
	J. P. Slaughter	do	.85
	W. H. Fallon	do	1.25
	E. L. Renoe	Telephone rent	3.00
	Geo. Reeder	Drayage	2.10
	A. E. Hackett	Drayage, etc	9.77
	J. B. Marbury	Cabinet, repairing furniture, etc.	35.40
	J. N. Ryker	Drayage, etc	10.50
	P. Connor	Station expenses	8.35
	J. E. Cotter	Services	15.75
	J. E. Harris, jr	do	16.00
	M. A. Webster	do	15.50
	A. G. Miley	do	9.00
	S. W. Lightner	do	30.00
	Augusta, substations	Pay roll	47.00
	Baltimore, substations	do	90.00
	Parkersburg, substations	do	81.00
	Macon, substations	do	39.00
	Charleston, substations	do	30.00
	New York, substations	do	35.00
	Louisville, substations	do	59.50
	Cairo, substations	do	139.25
	Charles E. Johnson	Duplicating ink	300.00
	Paul A. F. Walter, P. M	Rent post-office box	1.50
	Lone Star Ice Co	Ice	4.50
	Board of Public Works	Water supply	3.50
	The Consumers' Co	Ice	7.50
	The Fred Marcy Co. (Limited)	Sectional file system	48.52
	H. M. Knowles	Repairing telegraph line	2.00
	Henry Bolte Furniture Co.	Office furniture	27.50
	Richard Fysh	Cleaning thermograph clock	1.00
	McEwer & Lauver	Wood	20.16
	Peter Sonna	Office rent	120.00
	Dexter Horton	do	120.00
	Chicago Auditorium Association	do	437.50
	R. C. Evans	do	8.00
	G. S. Waite	do	109.45
	Tacoma Chamber of Commerce and Board of Trade.	do	75.00

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Jan. 15	Union Trust Building Co. (Limited) .....	Office rent .....	\$167.50
	O. I. Taylor .....	do .....	57.50
	M. Parmentier .....	do .....	74.25
	The Hayden Co .....	do .....	300.00
	City of Palestine, Tex .....	do .....	78.50
	Central Union Telephone Co .....	Telephone services .....	10.50
	Southwestern Telegraph and Telephone Co. ....	do .....	15.00
	Rocky Mountain Bell Telephone Co .....	do .....	9.00
	Columbus Citizens' Telephone Co .....	do .....	10.00
	The Colorado Telephone Co .....	do .....	28.50
	Wisconsin Telephone Co .....	do .....	12.00
	New York and Pennsylvania Telephone and Telegraph Co. ....	do .....	7.50
	Michigan Telephone Co .....	do .....	9.00
	New Bedford Gas and Edison Light Co .....	Electric light .....	19.61
	Sheboygan Light, Power, and Railway Co. ....	do .....	6.25
	E. A. Born .....	do .....	27.75
	The Raleigh Electric Co .....	Electric power .....	4.52
	Statesman Printing Co .....	Printing climate and crop bulletins .....	69.00
	Buffalo Gas Co .....	Gas .....	5.00
	Western Union Telegraph Co .....	Telegraph services .....	15,586.92
	do .....	do .....	15,410.11
20	Adams Express Co .....	Express charges .....	30.88
	do .....	do .....	25.22
	United States Express Co .....	do .....	56.85
	do .....	do .....	16.05
	C. H. Reynolds .....	Cleaning thermometer .....	.75
	C. V. Bates .....	Cleaning thermograph clock .....	1.50
	C. E. Johnson & Co .....	Ink .....	5.00
	Queen & Co. (Incorporated) .....	Ribbon .....	2.00
	M. J. Schubert .....	Glass .....	13.75
	W. B. Knight .....	Holder for rain gauge .....	1.00
	Milwaukee Printers' Roller Co .....	Recasting rollers .....	3.00
	P. Brown .....	Team hire .....	13.00
	V. C. Roeder .....	Ink and mucilage .....	2.05
	C. B. Tucker .....	Installing storm-warning lanterns .....	30.00
	do .....	Making meter-box switches .....	5.50
	A. O. Fischer .....	Team hire .....	4.00
	Norwich University .....	Electric light and heat .....	21.50
	W. H. H. Smith .....	Team hire .....	11.00
	H. A. Brossard .....	Drayage .....	5.00
	W. T. Hodge .....	Hire of schooner and crew .....	375.00
	McCormick & Bates .....	Drayage .....	.75
	J. W. Austin .....	Repairing sheds, etc .....	20.00
	The Central Ohio Paper Co .....	Paper .....	44.82
	G. B. Hollister .....	Constructing river gauge .....	54.75
	Samuels Transfer Co .....	Drayage .....	1.00
	A. B. Pitman .....	Repairing telegraph line .....	1.25
	Clem Jaycocks .....	Ice .....	9.20
	C. B. Little .....	Water supply .....	11.00
	G. A. von Blucher .....	Ice .....	1.55
	W. B. Lount .....	do .....	7.00
	Willison Office Supply Co .....	Ink and mucilage .....	3.00
	Barnhart Bros. & Spindler .....	Printing supplies .....	8.09
	O. G. Skylstead .....	Lamp shade, etc .....	1.50
	United States Envelope Co .....	Envelopes .....	14.55
	Evans & Meekins .....	Station supplies .....	11.54
	do .....	Transporting employees .....	46.00
	H. H. Buhne .....	Coal oil .....	1.60
	S. Bell .....	Recasting rollers .....	6.00
	Wm. Neuman & Co .....	Installing storm-warning lanterns .....	18.70
	G. E. Loyd & Co .....	Repairing casting box .....	9.00
	E. D. Beattie .....	Printing climate and crop bulletins .....	36.00
	The Garrett Printing Co .....	do .....	55.25
	Baumgardt Publishing Co .....	do .....	16.25
	A. A. Finck .....	do .....	2.00
	Munger's Laundry .....	Towel service .....	6.00
	Nashville Laundry Co .....	do .....	1.80
	Long's Towel Supply .....	Washing towels .....	3.00
	Omaha Towel Co .....	do .....	3.00
	Banner Laundering Co .....	do .....	3.00
	Pere Marquette R. R. Co .....	Passenger transportation .....	17.59
	Nebraska Telephone Co .....	Telephone services .....	22.50
	Black Hills Telegraph and Telephone Co .....	do .....	21.00
	Central New York Telephone and Telegraph Co. ....	do .....	20.00

## 342 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

*Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.*

## GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Jan. 20	Central Union Telephone Co	Telephone services	\$14.80
	Ashville Telephone Co	do	6.00
	R. L. Lewis	do	24.00
	Pacific States Telephone and Telegraph Co.	do	30.00
	Columbia Telephone Co	do	10.50
	Hudson River Telephone Co.	do	16.50
	Missouri Valley Telephone Co.	do	6.00
	Southern Bell Telephone and Telegraph Co.	do	8.25
	Delaware and Atlantic Telegraph and Telephone Co.	do	12.00
	New York Telephone Co.	do	60.00
	The Empire State Telephone and Telegraph Co.	do	7.50
	W. S. Rowe	do	3.00
	Sunset Telephone and Telegraph Co.	do	6.00
	La Crosse Telephone Co	do	7.50
	Cumberland Telephone and Telegraph Co.	do	21.00
	The Louisville Home Telephone Co.	do	12.00
	New England Telephone and Telegraph Co.	do	29.00
	Wisconsin Telephone Co.	do	3.75
	Southern Bell Telephone and Telegraph Co.	do	21.50
	Georgia Telephone and Telegraph Co	do	10.00
	Sunset Telephone and Telegraph Co.	do	15.00
	Southern Bell Telephone and Telegraph Co.	do	7.50
	do	do	9.00
	Kalispel Water and Electric Co.	do	4.00
	U. V. Hendrix	Services	21.00
	N. W. Wagner	do	21.00
	Mill Valley and Mt. Tamalpais Scenic Rwy.	do	15.00
	C. P. Disney	do	21.00
	C. P. Biachly	do	9.00
	Atlanta, substations	Pay roll	30.00
	Vicksburg, substations	do	90.00
	Memphis, substations	do	51.00
	Cincinnati, substations	do	194.25
	Chattanooga, substations	do	132.80
	Philadelphia, substations	do	69.00
	Wilmington, substations.	do	72.00
	Wm. G. Burns	Traveling expenses	12.30
	D. S. Landis	do	9.40
	Stanley Boykin	do	20.25
	F. L. Ruble	do	4.70
	do	Subsistence	64.40
	L. J. Guthrie	Express charges	4.40
	A. H. Thiessen	Subsistence	28.25
	D. Cuthbertson	Station expenses	7.85
	J. H. Murdoch	Drayage	2.60
	H. K. Holcomb	Station expenses	1.53
	C. A. Donnell	Traveling expenses	8.25
	J. M. Ware	do	14.10
	L. M. Pindell	Station expenses	42.25
	L. M. Tarr	Car fare, drayage, etc	18.45
	W. M. Wilson	Drayage, etc	7.70
	Al Brand	Electric light, current, etc	47.97
	D. C. Grunow	Drayage, etc	2.25
	J. M. Shrier	Car fare, etc	4.75
	E. H. Emery	Electric current and drayage	12.94
	E. R. Demain	P. O. box rent, etc	2.20
	J. Warren Smith	Drayage	15.64
	T. F. Townsend	do	1.80
	L. A. Chidester	Services	9.00
	C. A. Johnson	do	3.00
	Elizabeth City and Norfolk Telegraph Co.	Telephone services	4.64
	P. D. Holmes	Repairing telegraph line	3.00
	J. B. Sherry	do	7.70
	A. Jacobus	Repairing wind vane and anemometer supports.	10.00
	Duluth Van and Storage Co	Drayage	5.00
	Stringfellow Drug Co.	Clock	1.75
	G. F. Meekins	Repairing telegraph line	3.75
	L. Rogers	Horse hire	30.00
	Seashore Machine Works.	Repairing flagstaff	21.50
	L. C. Carter	Atlas	2.50
	A. L. Johnson	Typewriter stand	5.00
	R. H. Varpahl	Recasting rollers	2.70
	American Type Founders Co.	Electrotype metal, etc	8.30
	The Union Ice Co	Ice	9.20
	The Daggett Printing Co	Binding weather maps	1.50
	T. W. Peake	Electric lanterns	18.50
	People's Gas and Electrical Co	Electric light	14.12

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1903. Jan. 20	Baltimore Towel Supply Co	Washing towels	\$2.25
	A. W. Bradfield	Framing cloud chart	1.25
	C. B. Cannon	Ink	3.50
	Consolidated Gas Co. of Baltimore	Gas	.88
	Gamble & Ludwig	Gasoline	.70
	B. W. Strong	Repairing table	4.00
	M. T. Hayden	Washing towels	3.00
	The Minneapolis General Electric Co	Electric current	15.00
	William Roche	Electric cells	7.72
	Weston Electrical Instrument Co	Repairing anemometer	7.60
	O. C. G. Urban	Electric light	4.00
	Benton Harbor and St. Joseph Electric Railway and Light Co.	do	12.50
	Rockingham County Light and Power Co.	do	23.56
	The Kenosha Gas and Electric Co.	do	8.94
	E. A. Hughes	do	9.00
	Edison Sault Electric Co.	do	35.54
	Grand Haven City Electric Light Co	do	7.50
	Charleston Electric Light Plant	do	4.50
	Improvement Loan and Trust Co	do	8.75
	Fall River Electric Light Co	do	14.53
	The Milwaukee Electric Railroad and Light Co.	Electric current	12.54
	Cumberland Electric Light and Power Co.	do	15.00
	Max Levy	do	30.00
	People's Gas Light and Coke Co.	Gas	7.60
	Galveston Gas Co	do	11.85
	Astoria and Columbia River R. R. Co.	Passenger transportation	2.00
	Nashville Gas Co.	Gas	8.80
	The Southwestern Telegraph and Tele- phone Co.	Telephone services	21.00
	The City and Suburban Telegraph Assn	do	21.00
	The Bell Telephone Co.	do	30.00
	The Union Telephone Co.	do	6.25
	Pacific States Telephone and Telegraph Co	do	9.00
	Chesapeake and Potomac Telephone Co.	do	31.25
	Maryland Telephone and Telegraph Co.	do	14.50
	Michigan Telephone Co.	do	12.00
	New England Telephone and Telegraph Co.	do	8.25
	Southern Bell Telephone and Telegraph Co.	do	7.50
	The Fayette Home Telephone Co	do	4.50
	E. T. Broadwater	do	7.50
	Southern Bell Telephone and Telegraph Co.	do	12.00
	Pacific States Telephone and Telegraph Co.	Rent of conduit	35.10
	do	Telephone services	25.50
	Cumberland Telephone and Telegraph Co.	do	10.00
	Missouri and Kansas Telephone Co	do	9.00
	Pacific States Telephone and Telegraph Co.	do	18.00
	Cumberland Telephone and Telegraph Co.	do	29.85
	The Oregon Railroad and Navigation Co.	Passenger transportation	16.20
	Union Pacific R. R. Co	do	17.99
	The Yazoo and Mississippi Valley R. R. Co.	do	40.35
	Illinois Central R. R. Co.	do	53.85
	Pennsylvania Co	do	28.50
	Little Rock, substations	Pay roll	60.00
	Savannah, substations	do	61.00
	Galveston, substations	do	30.00
	Jacksonville, substations	do	75.00
	Charleston, substations	do	62.00
	Galveston, substations	do	45.75
	Montgomery, substations	do	96.82
	Harrisburg, substations	do	102.75
	Fort Smith, substations.	do	39.00
	L. C. Collins, substations	do	25.16
	St. Louis, substations	do	119.00
	Portland, substations	do	85.00
	Milwaukee, substations	do	150.96
	Buffalo, substations	do	142.86
	Mobile, substations	do	70.25
	T. R. Boon	Service	30.00
	Northwestern Mutual Life Insurance Co.	Office rent	125.00
	F. D. Miracle	do	147.00
	B. S. Williams	do	73.00
	Mill Valley and Mount Tamalpais Scenic Rwy.	do	105.00
	M. W. Cunningham	do	60.00
	M. E. Conway	do	37.74
	J. R. Hunter, agent	do	225.00
	Los Angeles Trust Co	do	165.65
	J. K. Porter	do	150.00
	Improvement Loan and Trust Co	do	150.00

344 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Jan. 20	C. J. Buell	Office rent	\$94.50
	J. B. Smith	do	58.87
	Henry Goucher	Traveling expenses	69.47
	W. M. Husson	do	14.50
	C. D. Widman & Co.	Making glass weather maps	970.00
23	Augusta, substations	Pay roll	49.60
	Sault Ste. Marie, substations	do	111.78
	C. P. Searle	Services	30.60
	John Hyslop	do	30.00
	J. L. Cline	Station expenses	2.70
	Frank Jermin	do	3.75
	J. J. Kelliher	Drayage, etc	3.50
	O. K. Johnson	Traveling expenses	14.80
	B. B. McCay	do	59.70
	L. G. Sutton	do	5.00
	F. Montgomery	do	4.90
	J. I. Widmeyer	Drayage, etc	9.75
	N. R. Taylor	Drayage	1.30
	J. Warren Smith	Table	10.40
	W. S. Belden	Station expenses	5.55
	Robt. Rinkle	Repairing river gauge	12.00
	C. J. Brierley	Repairing telegraph line	2.00
	O. Bye	do	2.00
	New Orleans and Carrollton Light and Power Co.	Electric light	7.43
	New Orleans Lighting Co., Lessee	Gas	15.50
	E. S. Allen	Telephone services	7.50
	East Tennessee Telephone Co	do	12.00
	do	do	12.90
	New England Telephone and Telegraph Co.	do	14.25
	Cumberland Telephone and Telegraph Co.	do	48.00
	East Tennessee Telephone Co	do	9.00
	do	do	14.50
	do	do	3.30
	Chesterfield Telephone and Telegraph Co.	Telephone services	7.50
	The Central District and Printing Telegraph Co.	do	5.80
	Pacific States Telephone and Telegraph Co.	do	9.60
	Alabama, Mississippi and Tennessee Telephone Co.	Telephone services	6.50
	Cumberland Telephone and Telegraph Co.	do	6.10
	Pacific States Telephone and Telegraph Co.	Telephone services	8.40
	East Tennessee Telephone Co	do	9.80
	Corvallis and Eastern R. R. Co	do	2.30
	Baltimore and Ohio R. R.	do	2.60
	do	do	2.50
	Great Northwestern Telegraph Co. of Canada.	do	319.21
	Ocean Tow Boat Line	do	8.00
	Chicago, Burlington and Quincy R. R. Co	do	2.70
	New England Telephone and Telegraph Co	do	2.70
	do	do	1.30
	The Bell Telephone Co. of Buffalo	do	3.20
	Marthas Vineyard Telegraph Co.	do	36.04
	Aurora and Friendship Telephone Line	do	15.30
	Minneapolis, St. Paul and Sault Ste. Marie Rwy. Co.	do	22.99
	Jacksonville and St. Johns Bar Telegraph Line.	do	13.25
	The Northwestern Telephone Exchange Co	Telephone services	18.00
	Southwestern Telegraph and Telephone Co	do	9.00
	Burke & Gregory	Binding Bible	1.50
	Pacific Metal Works	Stereotype metal	8.00
	Dora Moyen	Washing towels	6.00
	J. H. Thiemeyer	Packing boxes	3.25
	Julien P. Friez	Copper cans	10.00
	Eastern Towel Supply Co	Washing towels	6.00
	J. H. Ledoux	Drinking water	2.88
	American Type Founders Co.	Type	1.64
	National Lead Co	Stereotype metal	6.51
	J. A. Roebling's Sons Co.	Tiller rope	15.98
	H. J. Green	Maximum thermometers	325.00
	Norfolk and Washington, D. C., Steamboat Co.	Passenger transportation	3.00
	Chicago, Milwaukee and St. Paul Rwy. Co.	do	3.32
	do	do	5.79
	K. F. Coke	Office rent	60.00
	E. D. Osborn	do	87.50
	The Farmers' National Bank	do	94.50

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Jan. 23	The First National Bank .....	Office rent .....	\$126 00
	P. A. Willis .....	Rent of roof, etc. ....	10.00
	D. B. Dodge .....	Office rent .....	59.99
	Western Union Telegraph Co .....	Repairing telegraph line .....	8.40
	C. E. Johnson .....	Horse hire .....	2.50
	E. F. Conora .....	Oil and gasoline .....	.95
	The Fyricide Manufacturing Co .....	Fire extinguishers .....	162.00
	Northwestern Telephone Exchange Co .....	Telephone services .....	12.00
	H. E. Hobbs .....	Traveling expenses .....	2.90
	Southern Rwy. Co .....	Passenger transportation .....	27.50
	do .....	do .....	22.45
	do .....	do .....	27.50
	Central Union Telephone Co .....	Telephone services .....	40.50
24	J. C. Parker .....	Paper .....	156.00
31	Knoxville, substations .....	Pay roll .....	112.50
	New Orleans, substations .....	do .....	84.00
	Houghton, substations .....	do .....	50.32
	Pittsburg, substations .....	do .....	374.00
	Chicago, substations .....	do .....	429.82
	New Haven, substations .....	do .....	48.00
	Richmond, substations .....	do .....	15.50
	Boston, substations .....	do .....	779.25
	H. Hamilton .....	Services .....	10.00
	J. W. Scarborough .....	do .....	3.16
	Cleveland, substations .....	Pay roll .....	198.39
	La Crosse, substations .....	do .....	67.00
	New Orleans, substations .....	do .....	112.50
	Portland, substations .....	do .....	90.00
	Atlanta, substations .....	do .....	82.00
	Nashville, substations .....	do .....	86.40
	G. E. Bateman .....	Services .....	2.71
	Walter F. Hudson, deceased, estate of .....	do .....	18.59
	Portland, substations .....	Pay roll .....	72.50
	Raleigh, substations .....	do .....	120.00
	Duluth, substations .....	do .....	125.80
	R. Hume .....	Services .....	27.58
	F. J. Walz .....	Traveling expenses .....	10.10
	E. H. Emery .....	Repairs for typewriter, etc. ....	11.53
	R. J. Hyatt .....	Washing towels, etc. ....	5.10
	A. McC. Ashley .....	Station expenses .....	4.75
	H. B. Boyer .....	Drayage .....	1.00
	J. H. Scott .....	Subsistence .....	28.50
	do .....	Traveling expenses .....	11.75
	J. H. Kimball .....	Subsistence .....	22.50
	J. W. Smith .....	Traveling expenses .....	46.67
	do .....	Field glasses .....	5.00
	G. E. Franklin .....	Station expenses .....	29.50
	G. E. Grimes .....	do .....	2.61
	J. H. Robinson .....	Traveling expenses .....	3.60
	H. B. Hersey .....	do .....	73.15
	E. D. Emigh .....	do .....	2.80
	I. M. Cline .....	Station expenses .....	3.20
	W. T. Blythe .....	do .....	16.80
	W. M. Dudley .....	Drayage .....	.75
	C. W. Ling .....	Laying linoleum, etc. ....	5.00
	N. B. Conger .....	Station expenses .....	2.76
	Louis Dorman .....	Subsistence .....	15.40
	A. H. Thiessen .....	do .....	21.60
	Littlefield, Alvord & Co .....	Drayage .....	17.77
	Southern Rwy. Co .....	Passenger transportation .....	6.65
	do .....	do .....	6.20
	do .....	do .....	35.40
	R. A. Shaw .....	Clearing weather map .....	5.00
	Wagner Typewriter Co .....	Typewriter .....	87.50
	M. Du Perow .....	Slate .....	2.40
	Neeley Electric Construction and Supply Co .....	Insulators .....	3.24
	Herman Baumgarten .....	Stamps .....	3.82
	National Electrical Supply Co .....	Repairing circuit breaker .....	8.80
	Woodward & Lothrop .....	Water cooler and stand .....	7.49
	Z. D. Gilman .....	Amyl acetate .....	1.25
	United States Express Co .....	Express charges .....	22.60
	J. B. Lambie .....	Bolts, brass rod, etc. ....	5.55
	do .....	Screw-drivers .....	3.00
	do .....	Oil stones, solder, mica, etc. ....	10.55
	D. F. Parker .....	Typewriter ribbons .....	157.50
	do .....	Ink pads .....	75.50
	J. C. Parker .....	Pens, pins, stand, etc. ....	125.33
	do .....	Letter-copying books .....	30.06
	do .....	Ink .....	7.89

346 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

*Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.*

GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1903,			
Jan. 31	W. F. R. Phillips et al	Pay roll, climatology	\$578.70
	Jno. P. Church et al	Pay roll, printing office	2,941.34
Feb. 4	Heybach-Bush Co	Brass rule	9.15
	W. H. Ranney	Recasting rollers	2.50
	Medical and Standard Book Co	Writing fluid	.55
	Peter Gray	Repairs to storm-warning lanterns.	30.00
	The J. L. Bowles Furniture Co.	Packing instrument stand	2.50
	Rich Bros	Repairing furniture	8.75
	Bendernagel & Co	Recasting rollers	3.00
	American Type Founders Co.	Printing supplies	15.19
	Johnson & Johnson	Wood	8.50
	C. A. Burton	Coal	144.01
	V. E. Swanson	Repairing self-register clock	1.00
	Milner & Ebert	Oil, kerosene	1.40
	R. B. Thompson	Placing halyards on flagstaff	7.00
	T. C. Hurst	Sacks	4.50
	Topeka Transfer and Storage Co	Drayage and storage	10.60
	Patterson Transfer Co	Drayage	1.60
	P. D. Clack	do	2.00
	A. Bloedel	Repairing clock	2.50
	Eaton Machine Works	Hanger, shaft, and pulley	14.48
	Harn Rotary Printing Machine Co	Printing machine	400.00
	The General Cartage and Storage Co	Drayage	5.10
	J. A. Schofield	Cleaning thermograph clock	2.00
	Wyckoff, Seamans & Benedict	Repairing typewriter	2.20
	Yates & Co.	Oil	2.50
	Western Newspaper Union	Recasting rollers, etc.	2.54
	R. N. Getty	Ink and maulage	2.65
	Geary Brothers	Drayage	3.00
	B. F. Venable	River gauge and placing same	10.00
	Northwestern Furniture Co.	Map frame and bulletin board	125.00
	A. S. Lawyer	Wood alcohol	1.00
	J. Jones & Bro.	Benzine	1.00
	Wyckoff, Seamans & Benedict	Cylinder for typewriter	2.50
	Keystone Type Foundry	Type	2.65
	Fred Geiger	Repairing chairs	6.00
	Gether Drebert Perkins Co.	Gordon press chase	2.00
	W. O. Stubbs	Repairing typewriter	15.00
	H. B. Hartman	Drinking water	2.00
	A. McDonnell	River gauge and placing same	97.00
	Z. C. Niles & Piper Co	Insulators, etc	15.18
	C. D. Page	Drayage	7.00
	Electrical Supply and Construction Co	Anemometer and wind vane supports.	15.00
	J. P. Nawrath	Type	9.00
	Standard Oil Co	Benzine	6.10
	Bingham & Runge	Recasting rollers	3.25
	Lon Albright	Wood	20.00
	A. P. Curtin	Cabinet, carpet, etc.	29.30
	C. E. Johnson & Co	Ink	263.75
	Morse & Land	Placing glass in door	4.00
	A. F. Loden	Erecting shelving	32.00
	J. T. Zeigler	Kerosene oil	4.00
	Arizona Publishing Co.	Printing climate and crop bulletins.	66.00
	Oklahoma Ice and Cold Storage Co	Ice	2.44
	E. Shepardson	Washing towels	3.00
	D. W. King	do	1.50
	Arizona Laundry Co.	do	.48
	Jacksonville Towel Co.	do	3.00
	Needham Bros	do	1.50
	Mutual Telephone Co	Telephone service	22.50
	New York and Pennsylvania Telephone and Telegraph Co.	do	12.00
	Southern Telegraph and Telephone Co.	do	9.00
	Northwestern Telephone Exchange Co.	do	12.00
	Iowa Telephone Co.	do	31.00
	Southern Bell Telephone and Telegraph Co.	do	18.00
	Rocky Mountain Bell Telephone Co.	do	10.50
	Cumberland Telephone and Telegraph Co.	do	10.50
	The Cleveland Telephone Co	do	30.00
	Peoples' Telephone and Telegraph Co	do	7.50
	do	do	.45
	Cumberland Telephone and Telegraph Co.	do	3.80
	do	do	12.30
	Sunset Telephone and Telegraph Co.	do	4.75
	Michigan Telephone Co.	do	2.50
	do	do	6.00
	Missouri and Kansas Telephone Co	do	9.00



Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Feb. 4	Peninsular Telephone Co .....	Telephone services .....	\$8.25
	Sunset Telephone and Telegraph Co. ....	do .....	15.00
	Put in Bay Telegraph Co .....	Telegraph services .....	12.56
	Michigan Telephone Co .....	do .....	7.70
	The Tyrrell County Telephone Co .....	do .....	7.40
	Moncure-Pittsboro Telegraph Co .....	do .....	6.60
	Alabama and Georgia Long Distance Tele- phone Co. ....	do .....	7.80
	do .....	do .....	7.20
	Cumberland Telephone and Telegraph Co. ....	do .....	153.50
	Miami Telephone Co .....	do .....	1.54
	Iowa Telephone Co .....	do .....	6.60
	The Ohio River Telephone Co .....	do .....	15.40
	Cumberland Telephone and Telegraph Co. ....	do .....	37.90
	Winton Telegraph Co .....	do .....	7.20
	Home Telephone Co .....	do .....	3.45
	Chesterfield Telephone and Telegraph Co. ....	do .....	7.70
	Pacific States Telephone and Telegraph Co. ....	do .....	10.00
	Wm. Curry's Sons .....	Office rent .....	16.00
	Walter Talbot .....	do .....	120.00
	Kathrina Wagner .....	do .....	75.00
	F. L. Keating .....	do .....	90.00
	Marquette County Savings Bank .....	do .....	90.00
	C. M. Beeson .....	do .....	88.91
	Joseph Bryan .....	do .....	150.00
	C. Baldwin .....	do .....	15.60
	The First National Bank of Moorhead .....	do .....	66.31
	M. E. Sheldon .....	do .....	93.75
	The Society of Savings .....	do .....	285.00
	Houghton County Electric Light Co .....	Electric light .....	9.22
	Consolidated Electric Light Co .....	do .....	37.50
	United Electric Light and Power Co .....	do .....	9.00
	Annapolis Gas and Electric Light Co .....	do .....	9.00
	The Phoenix Light and Fuel Co .....	do .....	6.12
	P. H. Cheney & Sons .....	do .....	4.96
	Municipal Electric Light Plant .....	do .....	15.87
	City of East Tawas, Mich .....	do .....	7.50
	Electric Lighting Co. of Mobile .....	do .....	4.79
	The Commercial Electrical Co .....	do .....	19.47
	The Lorain Gas Co .....	do .....	17.25
	Port Huron Light and Power Co .....	do .....	5.49
	Chicago Edison Co .....	do .....	5.95
	The Missouri Pacific Rwy. Co .....	Passenger transportation .....	15.65
	do .....	do .....	4.77
	Baltimore and Ohio R. R. .....	do .....	45.77
	The Pennsylvania R. R. Co .....	do .....	29.97
	do .....	do .....	29.25
	Atlantic Coast Line R. R. Co .....	do .....	39.20
	do .....	do .....	4.10
	Cleveland, Cincinnati, Chicago and St. Louis Rwy. Co. ....	do .....	28.14
	Chesapeake and Ohio Rwy. Co .....	do .....	25.00
	Pere Marquette R. R. Co .....	do .....	4.08
7	New York Central and Hudson River R. R. Co. ....	Freight charges .....	9.10
	Lake Shore and Michigan Southern Rwy. Co. ....	do .....	1.31
	do .....	do .....	5.58
	Star Union Line .....	do .....	1.30
	San Antonio and Aransas Pass Rwy. Co .....	do .....	1.80
	Fremont, Elkhorn and Missouri Valley R. R. Co. ....	do .....	1.30
	Wm. P. Clyde & Co .....	do .....	1.48
	do .....	do .....	.88
	Chesapeake and Ohio Rwy. Co .....	do .....	.67
	New York, Ontario and Western Rwy. Co .....	do .....	.45
	Denver & Rio Grande R. R. Co .....	do .....	14.18
	do .....	do .....	2.38
	do .....	do .....	5.06
	Pere Marquette R. R. Co .....	do .....	14.77
	do .....	do .....	1.28
	Steamer Arrow .....	do .....	1.67
	The Atchison, Topeka and Santa Fe Rwy. Co. ....	do .....	42.43
	Baltimore and Ohio R. R. Co .....	do .....	12.49
	Chicago and Alton Rwy. Co .....	do .....	1.49
	Southern Rwy. Co .....	do .....	14.40
	do .....	do .....	12.97
	do .....	do .....	1.60
	Pennsylvania R. R. Co .....	do .....	.46

348 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd

GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Feb. 7	Rome, Watertown and Ogdensburg R. R.	Freight charges	\$1.64
	Norfolk and Washington Steamboat Co.	do	.42
	Northern Michigan Transportation Co.	do	5.86
	Norfolk and Western Rwy.	do	38.17
	J. J. Hagerty	Drayage	1.68
	Wm. J. Crawford	do	1.50
	S. C. Dooley	do	.92
	Adams Express Co.	Express charges	1.93
	do	do	3.10
	J. H. Kimball	Subsistence	8.50
	C. E. Linney	Traveling expenses	10.75
	C. S. Grindle	do	14.50
	H. C. Frankenfield	do	64.40
	A. H. Thiessen	do	6.75
	E. S. Nichols	do	13.20
	J. Kenealy	Reeving halyards	8.00
	E. C. Vose	Station expenses	9.75
	E. A. Beals	Drayage, etc.	7.30
	P. McDonough	Drayage	1.75
	L. F. Laney, deceased, estate of	Services	6.20
	do	do	1.00
	Boston, substations.	Pay roll	176.50
	Shreveport, substations.	do	47.25
	Port Huron, substations	do	188.70
	St. Louis Transfer Co.	Drayage	1.07
	do	do	.80
	do	do	1.13
	The Northwestern Telephone Exchange Co.	Telephone services	21.00
	Dodge City Telephone Co.	do	3.00
	Northwestern Telephone Exchange Co.	do	9.00
	F. Muller	Repairing telegraph line	4.00
	F. F. Bossnot	Erecting shelves	1.50
	H. M. Dearborn	Making electrical connections with lanterns.	20.00
	W. B. C. Duryee	Incandescent lamps	2.10
	R. G. Chambers	Storm door	2.60
	Duluth Van and Storage Co.	Packing storm-warning lanterns	2.50
	A. Sjogren	Painting storm-warning tower.	12.00
	C. M. Bailey	Repairing triple register	1.50
	Chicago and Northwestern Rwy. Co.	Passenger transportation.	30.43
	Norfolk and Southern R. R. Co.	do	2.45
	Pere Marquette R. R. Co.	do	3.12
	The Atchison, Topeka and Santa Fe Rwy. Co.	do	25.79
	C. P. Meekins	Office rent	3.33
	H. F. Barnett	do	3.33
	R. C. Evans	do	8.00
	Dyal Upchurch Investment Co.	do	187.50
10	W. H. Rollins	Shovels	3.00
	C. Baldwin	Office rent	112.50
	F. Brookins	Reeving halyards	5.00
	Fee & Stewart Co.	Oil heater	12.00
	E. D. Beattie	Printing climate and crop reports.	36.00
	P. Dickson	Repairing tower	2.00
	H. H. Kimball	Subsistence	31.00
	Peter Wood	Station expenses	9.95
	O. W. Roberts	do	6.25
	W. Bell	Drayage	1.50
	A. H. Thiessen	Station expenses	11.75
	J. H. Kimball	Subsistence	31.00
	A. C. Pickels	Traveling expenses	28.25
	G. A. Loveland	do	11.20
	R. H. Sullivan	do	19.95
	E. A. Beals	do	18.50
	A. G. McAdie	do	2.00
	do	do	10.50
	O. D. Stewart	do	8.25
	L. Lodholz	do	5.85
	E. D. Coberly	do	25.90
	R. Z. Burns	do	8.05
	Western Union Telegraph Co.	Telegraph services	15,675.40
	do	do	15,474.00
	A. F. Jorss	Brass railing	86.00
12	The Atchison, Topeka and Santa Fe Rwy. Co.	Passenger transportation	4.61
	Baltimore and Ohio R. R.	do	33.50
	Chicago and Northwestern Rwy. Co.	do	61.50
	Peninsular and Occidental Steamship Co.	do	24.35
	Julien P. Friez	Barometer	20.00

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1903, Feb. 12	Jackson & Jackson	Coal	\$7.00
	Norfolk and Washington Steamboat Co.	Freight charges	3.79
	do	do	2.98
	Wabash R. R. Co.	do	2.27
	do	do	1.97
	do	do	.70
	do	do	3.16
	Louisville and Nashville R. R. Co.	do	.29
	do	do	11.61
	Pennsylvania R. R. Co.	do	1.43
	do	do	1.08
	do	do	.83
	do	do	.35
	do	do	.45
	do	do	.37
	do	do	.42
	do	do	.42
	do	do	.37
	do	do	.37
	do	do	.49
	do	do	1.96
	do	do	.60
	do	do	.82
	do	do	.35
	Lehigh Valley R. R. Co.	do	.90
	do	do	5.05
	do	do	.45
	Illinois Central R. R. Co.	do	2.22
	do	do	.22
	do	do	.21
	The Denver and Rio Grande R. R. Co.	do	1.08
	do	do	1.87
	Delaware, Lackawanna and Western R. R. Co.	do	.45
	Texasarkana and Fort Smith Rwy. Co.	do	1.57
	Chicago and Northwestern Rwy. Co.	do	.86
	Maine Central R. R. Co.	do	1.44
	Detroit and Mackinac Rwy. Co.	do	2.78
	Ulster and Delaware R. R. Co.	do	.77
	Richmond, Fredericksburg and Potomac R. R. Co.	do	.63
	Michigan Central R. R. Co.	do	.92
	Atlanta and North Carolina R. R. Co.	do	.62
	Boston and Maine R. R.	do	3.76
	Baltimore and Ohio Southwestern R. R. Co.	do	.40
	New York Central and Hudson River R. R. Co.	do	2.52
	Evansville and Terre Haute R. R. Co.	do	2.87
	Star Union Line	do	.87
	Charleston and Western Carolina Rwy. Co.	do	1.19
	Washington and Southern Rwy. Co.	do	2.46
	Grand Trunk Railway of Canada	do	.95
	Pere Marquette R. R. Co.	do	.98
	West Virginia Central and Pittsburg Rwy. Co.	do	.58
	Washington County R. R. Co.	do	.94
	Mackall Bros	Glycerin, etc	1.67
	do	Beeswax	2.00
	W. B. Moses & Sons	Office furniture	20.90
	The Smith Premier Typewriter Co.	Repairing typewriter	10.55
	J. Baumgarten & Sons	Rubber stamps	2.40
	New York, substations	Pay roll	35.00
	J. P. Bolton	Rent of telephone, etc	17.90
	W. L. Day	Station expenses	24.42
	C. M. Strong	Drayage	3.95
	T. S. Outram	do	2.20
	J. W. Cronk	Station expenses	4.35
	R. G. Allen	Drayage	14.30
	A. G. McAdie	do	2.55
	E. H. Bowie	do	12.05
	A. H. Thiessen	Packing apparatus, etc.	14.93
	H. K. Holcomb	Traveling expenses	24.80
	W. L. Moore	do	31.10
	John Moran	Iron kettle	1.25
	Maurice Joyce Engraving Co.	Printing supplies	40.29
	do	Photo-engraving plates	19.18
	Rudolph, West & Co.	Mica and hammers	5.50
	do	Hose and couplings	4.75
	Woodward & Lothrop	Soap	61.84

350 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Feb. 12	Woodward & Lothrop	Desk	\$24.50
	do	do	24.50
	do	Office furniture	22.99
	do	do	34.90
	Broderick Bros	Rags	14.00
	Summers Printing Co.	Printing annual	69.50
	C. A. Schneider's Sons	Cast-iron pan	1.25
	Barber & Ross	Scoop shovels	3.60
	W. B. Moses & Sons	Office furniture	32.75
	do	Bookcase	11.85
	do	Chair	4.70
	do	Rugs	276.00
	The J. C. Ergood Co	Matches	15.30
	do	Lye	10.56
	M. Du Perow	Push button	1.80
	do	Clamps	18.00
	American Writing Machine Co.	Typewriter	144.50
	do	Repairing typewriter	10.00
	do	Platen for caligraph	2.00
	Herman Baumgarten	Rubber stamps	1.82
	do	Duplicating rollers	52.50
	do	Rubber stamps	2.64
	do	do	1.22
	M. G. Copeland Co	Flags	94.50
	do	do	243.23
	do	Code signals	41.00
	Southern Printers' Supply Co.	Type, brass rule, etc	4.19
	Geo. F. Muth & Co	Chamois skins	98.00
	Z. D. Gilman	Vaseline	3.60
	Hugh Reilly	Turpentine	25.80
	Wyckoff, Seamans & Benedict	Repairing typewriter	13.50
	District of Columbia Paper Manufacturing Co.	Blotting paper	29.70
	Clark & Davenport	Carpet	23.33
	National Printers' Supply Co.	Tweezers	36.00
	J. C. Entwistle	Engraving rain chart	7.50
	J. Baumgarten & Sons	Logotypes	17.00
	do	Dating stamps	23.60
	do	Type	18.60
	do	Numbering machine	2.50
20	American Writing Machine Co.	Platen for caligraph	2.00
	do	Paper	71.30
	do	Repairing caligraph	17.60
	Geo. F. Muth & Co	Lamps, etc	95.68
	do	Clock and varnish brushes	41.20
	Woodward & Lothrop	Office furniture	37.90
	do	do	52.49
	do	Towels	195.00
	Rudolph, West & Co	Copper rivets	1.44
	do	Halyards, etc	28.26
	do	Rope, nails, etc.	45.72
	do	Pliers	3.60
	do	Cuspidors	44.00
	do	Meyers's putz cream	13.00
	R. Carter Ballantyne	Paper	43.68
	do	Copying pads	52.20
	Maurice Joyce Engraving Co.	Electrotype plates	58.39
	M. G. Copeland & Co.	Flags	44.10
	J. N. Rupp	Mucilage	12.90
	National Printers' Supply Co	Lye brushes	16.80
	Smith Premier Typewriter Co.	Repairing typewriter	31.50
	D. Frank Parker	Paper, varnish, etc.	460.70
	H. Baumgarten	Type	27.00
	E. Morrison Paper Co	Ink	8.98
	Eberhard Faber	Rubber bands	125.04
	Yawman & Erbe Manufacturing Co	Form files	80.00
	Mackall Bros	Soap	102.00
	J. C. Entwistle	Engraving rain chart	7.50
	Lamb & Tilden	Ink	54.00
	Densmore Typewriter Co	Repairing typewriter	10.51
	John Moran	Charcoal	1.00
	R. P. Andrews & Co. (Incorporated)	Paper	12.00
	Postal Telegraph Cable Co	Telegraph services	83.40
	do	do	48.00
	do	do	39.76
	do	do	505.55
	do	do	1.24
	Southern Rwy. Co	Passenger transportation	2.30
	Littlefield, Aivord & Co.	Drayage	13.81
	Norfolk and Washington Steamboat Co.	Passenger transportation	3.00

*Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.*

## GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1903. Feb. 20	Pennsylvania R. R. Co.	Freight charges	80.37
	do	do	.38
	do	do	.28
	Western Union Telegraph Co.	Telegraph services	360.32
	The Northwestern Telephone Exchange Co.	Telephone services	4.74
	The International Ocean Telegraph Co.	Telegraph services	72.98
	Corvallis and Eastern R. R. Co.	do	2.60
	Chicago, Burlington and Quincy R. R. Co.	do	2.30
	Minneapolis, St. Paul and Sault Ste. Marie Rwy. Co.	do	17.24
	Jacksonville and St. Johns Bar Telegraph Co.	do	8.25
	Great Northwestern Telegraph Co. of Canada.	do	155.55
	Cumberland Telephone and Telegraph Co.	do	87.30
	Aurora and Friendship Telephone Line	do	3.00
	Home Telephone Co.	do	3.90
	Rocky Mountain Bell Telephone Co.	do	30.20
	New England Telephone and Telegraph Co.	do	3.40
	The Bell Telephone Co. of Buffalo	do	8.80
	Ocean Towboat Line	do	12.00
	Marthas Vineyard Telegraph Co.	do	79.93
	The International Ocean Telegraph Co.	do	149.90
	Pacific States Telephone and Telegraph Co.	do	10.40
	Kelley Island and Sandusky Cable Co.	do	9.20
	Philadelphia, Reading and Pottsville Telegraph Co.	do	.21
	Elizabeth City and Norfolk Telegraph Co.	do	3.85
	Southern Bell Telephone and Telegraph Co.	Telephone services	15.00
	Jacksonville Telephone Co.	do	7.50
	Dakota Central Telephone Lines (Incorporated).	do	98.59
	L. G. Sutton	Drayage	1.70
	A. J. Mitchell	Station expenses	3.03
	L. Lodholz	Subsistence	15.30
	B. Bunнемeyer	Drayage	1.00
	N. M. Cunningham	Station expenses	.65
	G. A. Loveland	do	8.16
	H. W. Grasse	do	5.00
	O. L. Fassig	do	8.75
	E. A. Evans	Drayage	16.45
	G. E. French & Co.	Silver sand	3.00
	The Pacific Transfer Co.	Drayage	18.00
	C. A. Clement	Repairing thermograph	1.50
	Thayer & Jackson Stationery Co.	Binding weather maps	10.50
	Charles Eneu Johnson & Co.	Ink	27.50
	Flint & Walling Manufacturing Co.	Anchor posts	7.30
	Addressograph Co.	Addressograph and cabinet	45.00
	do	Rubber type, logotype, etc.	30.69
	G. R. Foster	Printing annual summary	70.00
	Wagner Typewriter Co.	Repairing typewriter	7.00
	J. P. Nawrath	Jute	58.86
	Parker Bros	Bookcase	30.00
	B. J. Sherry	Repairing telegraph line	2.50
	L. C. Hall	do	2.50
	J. A. Jones	do	2.00
	Baumgardt Publishing Co.	Printing climate and crop bulletins.	13.00
	John Lang	Repairing telegraph line	2.50
	Johnson & Johnson	Coal	12.50
	American Type Founders Co.	Type	28.40
	J. A. Melton	Telegraph table	9.50
	Evans & Meekins	Drayage	12.00
	do	Team hire	41.00
	do	Station expenses	7.41
	J. H. Thiemeyer	Packing boxes	5.40
	F. F. Bossnot	Repairing furniture	1.75
	Yates & Co.	Oil	2.50
	Spokane Dry Goods Co.	Rug and carpet	36.50
	T. Strauss	Cleaning thermograph	2.00
	Leaman Parker	Repairing telegraph line	3.00
	H. H. McNeil	Printing annual summary	72.50
	H. R. Poole	Horse hire	8.00
	The Holtzer-Cabot Electrical Co.	Electric motor	27.50
	O. F. Fritchie	Cleaning office cabinet	5.00
	Humboldt County, Nev.	Office rent	67.00
	Northern Electrical Co.	Placing lanterns	37.65
	Electric Light Co.	Electric light	13.48

*Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.*

## GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Feb. 20	H. D. Feast & Co.	Telescopes	\$101.00
	Spahr & Glenn	Printing summary	67.50
	Seth Thomas Clock Co	Keys	1.60
	do	Regulator clocks	66.00
	James Murphy	Repairing river gauge	5.00
	J. P. Nawrath	Velvet sponge	22.35
	American News Co	Ink eradicators	29.00
	do	Blotters	88.92
	Coston Signal Co. (Incorporated)	Answering signals	33.00
	R. A. Milligen	Laying carpet	5.00
	E. O. Zadek	Repairing clock	2.00
	U. B. Dodge	Repairing flagstaff	6.00
	H. T. Madgwick	Repairing instrument shelter, etc.	38.00
	A. Bitterman	Repairing barograph and ther- mograph.	4.50
	Philip Lindemeyer	Paste	322.40
	Smith Premier Typewriter Co	Repairs for typewriter	10.00
	Cincinnati, New Orleans and Texas Pacific Rwy. Co.	Passenger transportation	7.70
	Nashville, Chattanooga and St. Louis Rwy.	do	4.10
	Atlantic Coast Line R. R. Co	do	27.50
	W. M. Fulton	Traveling expenses	16.97
	do	do	19.95
	A. G. McAdie	do	6.00
	Stanley Boykin	do	3.00
	Rudolph, West & Co	Shears, screw-driver, etc	69.61
	United States Envelope Co.	Envelopes	51.60
21	J. C. Parker	Map paper	759.88
	W. B. Moses & Sons	Repairing chair	1.00
	F. R. Beahan	Station expenses	38.00
	J. N. Ryker	Freight charges	29.70
	R. B. Harkness	Drayage, etc	3.55
	W. M. Fulton	Station expenses	15.50
	G. N. Salisbury	Express charges, etc	6.70
	Herman Baumgarten	Rubber stamps	3.03
	do	do	1.64
	American Type Founders Co.	Type	626.84
	Louis Bader	River gauge	4.50
	F. A. Schmidt	Metal tubes, etc	4.74
	Chadwick Copying Book Co	Copying books	149.76
	R. Carter Ballantyne	Pens and pencils	134.79
	Waterbury Battery Co	Batteries and recharges	1,107.50
	The J. C. Ergood Co	Starch	1.04
	G. K. Whitcomb	Erecting instrument shelter	6.00
	B. D. Johnson	Office rent	21.00
	T. B. Satterwhite & Co	Ice	.65
	J. P. Friez	Register pens	75.00
	do	Sockets for sunshine recorder	37.50
	J. E. Turton	Locks and keys	17.00
	H. G. Hart	Team hire and services	10.00
	E. S. Adams & Co.	Mirror	1.50
	W. S. Jenks	Copper cover for thermometers	9.00
	E. P. Jones	Office rent	25.00
	Helotype Printing Co	Zinc-plate map	7.50
	Thos. Somerville & Sons	Roller frames	16.80
	Keuffel & Esser Co	Office furniture	16.70
	Albert Blackwood	Running levels	5.00
	W. P. Gilbert	Oil	5.00
	H. A. Poole	Horse hire	2.50
	W. L. Thompson	Ice	7.75
	Alabama, Mississippi and Tennessee Tele- phone Co.	Telephone services	6.50
	John Clarke	do	3.00
	The Central Distributing and Printing Telegraph Co.	Telegraph services	7.20
	Pacific States Telephone and Telegraph Co.	do	7.60
	Corvallis and Eastern R. R. Co	do	2.60
	Rising Sun Telegraph Line	do	2.60
	do	do	2.60
	H. E. Wadsworth	do	58.65
	New England Telephone and Telegraph Co.	do	2.40
	J. T. Harper	do	13.26
	The Wabash R. R. Co	Passenger transportation	66.11
	Southern Printers' Supply Co	Rubber bands	3.50
	R. Carter Ballantyne	Paper	19.20
	American Type Founders Co.	Cutting sticks	5.64
	J. B. Lambie	Shovels, spring catches, etc	13.25

## Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Feb. 21	J. B. Lambie	Hand reamer	\$10.40
	M. G. Copeland Co	Code signals	35.00
	The Henry Walke Co	Jeweler's rolling mill	94.98
	Wolf Bros	Envelopes	453.78
	Geo. W. Taylor & Co	Coal	14.62
	Cheboygan Electric Light and Power Co	Installing electric lanterns	27.70
	Standard Oil Co	Oil	6.36
	Clark & Davenport	Carpet	42.18
	M. Du Perow	Switches	2.60
	C. F. Marvin	Traveling expenses	16.60
28	N. B. Conger	do	87.25
	G. W. Wagner	Printing annual summary	60.00
	The Addressograph Co	Addressograph	60.00
	W. B. Moses & Sons	Door mats	39.00
	H. R. Rust	Repairing file case	20.00
	O. B. Hart	Office rent	8.00
	I. W. Appleton	Repairing telegraph line	3.00
	S. G. Morse	Horse hire	3.00
	Flora Jones	Laying carpet	4.00
	H. D. Reed	Repairing instrument shelter	2.25
	C. E. Johnson	Horse hire	1.50
	R. C. Ballantyne	Pens	2.46
	Addressograph Co	Parts for addressograph	.85
	Richmond, Fredericksburg and Potomac R. R. Co.	Passenger transportation	14.70
	Northern Pacific Rwy. Co	do	93.85
	Norfolk & Southern R. R. Co	do	2.45
	Michigan Central R. R. Co	Freight charges	2.32
	Peninsular and Occidental S. S. Co	do	1.42
	New York, New Haven and Hartford R. R. Co.	do	2.16
	Southern Rwy. Co	do	6.16
	Cleveland, Cincinnati, Chicago and St. Louis Rwy. Co.	do	5.84
	Chicago and Southeastern Rwy. Co	do	.89
	Virginia Truckee R. R. Co	do	.28
	Central Vermont Rwy. Co	do	.57
	Burlington and Missouri River R. R. in Nebraska.	do	1.17
	The Denver and Rio Grande R. R. Co	do	3.50
	do	do	2.30
	Ocean Steamship Co., of Savannah	do	1.00
	New Bedford, Marthas Vineyard and Nantucket Steamboat Co.	do	.69
	T. B. Spear & Sons	do	1.02
	Burnside and Burkville Transportation Co.	do	1.17
	Pennsylvania R. R. Co	do	.37
	do	do	.35
	R. C. Ballantyne	Ledger	20.00
	J. E. Green	Services	5.19
	Peter Gray	Copper vessels	30.00
	do	Lantern chimneys	12.00
	Addressograph Co	Type and links	5.00
	F. H. Coleman	Traveling expenses	14.30
	A. G. McAdie	do	10.35
	W. M. Wilson	do	14.45
	H. B. Hersey	do	53.15
	W. M. Wilson	Subsistence	45.00
	Frankfort Electric Light Co	Wiring tower	56.50
	F. G. Blaisdell	Telephone services	16.50
	G. H. Berry	Station expenses	4.00
	Statesman Printing Co	Printing annual summary	44.00
	H. Alf Sparling	do	59.75
	Charles Williams	Pepparing Telegraph line	4.00
	H. R. Eley	do	2.50
	Williston Telephone Exchange	Telephone services	6.00
	New York Telephone Co	do	1.90
	do	do	2.30
	do	do	.60
	The Electric Storage Battery Co.	Elements type	21.86
	E. Clark	Repairing caligraph	31.00
	The Apalachicola Electric Light and Telephone Co.	Installing storm-warning station.	15.00
	American Writing Machine Co	Repairing caligraph	18.75
	do	do	18.00
	Rudolph, West & Co	Oilstones, etc	45.58
	F. I. Carter	Repairing typewriter	5.00
	Western Union Telegraph Co	Constructing loop	5.93

354 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Feb. 28	Charles Wood	Wood	\$9.95
	Peter Dickson	Repairing storm-warning tower	7.00
	Southern Rwy. Co.	Freight charges	7.86
	do	do	11.34
	do	do	2.83
	Boston and Maine R. R.	do	3.47
	Atlantic Coast Line R. R. Co.	do	1.36
	Tennessee Central R. R. Co.	do	4.65
	Pere Marquette R. R. Co.	do	2.60
	Old Dominion S. S. Co.	do	1.35
	W. J. Crawford	Drayage	1.50
	The Chicago and Alton Rwy. Co.	Passenger transportation	8.90
	E. H. Bowie	Traveling expenses	12.45
	W. F. R. Phillips et al.	Pay roll, climatology	516.26
	J. P. Church et al.	Pay roll, printing office	2,610.10
Mar. 5	J. F. Atherton	Traveling expenses	14.00
	J. Sands	do	10.00
	E. H. Emery	Office furniture	17.00
	G. E. Mooers	Linoleum	7.00
	Western Union Telegraph Co.	Repairing telegraph line	2.40
	Edwards & Broughton	Printing annual summary	40.00
	Keystone Type Foundry	Repairing printing press	2.25
	American Type Founders Co.	Logotypes	56.43
	F. B. Brown	Printing annual summary	58.00
	M. D. Leaming	Installing electric lights	12.00
	Chadwick Copying Book Co.	Copying books	73.44
	C. D. Peacock, jr.	Repairing thermograph	4.00
	Addressograph Co.	Parts of addressograph	15.00
	Hoke Engraving Plate Co.	Recoating base plates	287.50
	do	Section liner	2.50
	do	Recoating base plates	175.00
	R. P. Andrews & Co. (Incorporated)	Book paper	975.00
	Fremont, Elkhorn and Missouri Valley R. R. Co.	Freight charges	8.94
	J. C. Davis	do	3.96
	do	do	10.07
	Pere Marquette R. R. Co.	do	2.37
	Pacific Coast S. S. Co.	do	.34
	Norfolk and Washington Steamboat Co.	do	2.48
	do	do	5.06
	New Bedford, Martha's Vineyard and Nantucket Steamboat Co.	do	1.26
	The Denver and Rio Grande R. R. Co.	do	4.76
	J. J. Hagerty	Drayage	.74
	E. Aigetlinger	do	.51
	do	do	.18
	S. C. Dooley	do	.50
	Illinois Central R. R. Co.	Freight charges	4.75
	do	do	2.39
	Washington Southern Rwy. Co.	do	1.24
	do	do	.78
	Atlantic Coast Line R. R. Co.	do	3.14
	do	do	2.26
	Eureka and Ely Stage Line	do	.65
	Texas Pacific Rwy. Co.	do	1.63
	Western Rwy. of Alabama	do	4.80
	Pennsylvania R. R. Co.	do	1.28
	do	do	.69
	Louisville and Nashville R. R. Co.	do	2.64
	New York, Ontario and Western Rwy. Co.	do	.45
	Norfolk and Western Rwy. Co.	do	2.68
	The Oregon Short Line R. R. Co.	do	8.94
	Addressograph Co.	Logotype, links, etc	125.58
	A. Zappone	Traveling expenses	62.45
	S. C. Calvert	do	10.80
	C. E. Linney	Subsistence	28.72
	Pennsylvania Co.	Passenger transportation	53.88
	The Atchison, Topeka and Santa Fe Rwy. Co.	do	60.90
	Boston and Maine R. R.	do	4.32
	Capital Ice Co.	Ice	4.85
	Norwich University	Repairing platform	70.11
	Addressograph Co.	Type and logotype	188.13
	H. S. Crocker	Electrotype plates	6.50
	S. E. Christian	Placing wind vane	10.00
	Harrisburg Cycle and Typewriter Co.	Repairing typewriter	7.50
	E. C. Palmer Co. (Limited)	Station supplies	2.65
	W. W. Montague & Co.	do	85.40
	Meteorological Council	Compiling forecast telegrams	11.19
	The Addressograph Co.	Logotype	4.80



## Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Mar. 9	American Type Founders Co.....	Staple cases.....	\$1.40
	T. J. Tillett.....	Kerosene.....	3.00
	Joseph Boothby.....	Erecting tower.....	60.00
	J. C. Hayden.....	Drayage.....	1.10
	H. H. Kimball.....	Subsistence.....	28.00
12	Pittsburg, Shawmut and Northern R. R. Co.	Freight charges.....	7.70
	Thos. Somerville & Sons.....	Glass water gauges.....	3.39
	Woodward & Lothrop.....	Chair, brooms, and india linen.....	61.09
	do.....	Cotton wadding.....	21.00
	W. B. Moses & Sons.....	Chair.....	5.90
	do.....	Bookcase.....	11.85
	do.....	Table and chair.....	16.20
	E. Morrison Paper Co.....	Shipping tags.....	1.08
	Geo. F. Muth & Co.....	Varnish, etc.....	2.45
	Z. D. Gilman.....	Bottles.....	1.50
	The Smith Premier Typewriter Co.....	Repairing typewriter.....	21.65
	W. W. White.....	Repairing printing press.....	15.50
	Rudolph, West & Co.....	Shears.....	38.10
	The Central District and Printing Tele- graph Co.....	Telegraph services.....	10.40
	do.....	do.....	3.00
	Postal Telegraph Cable Co.....	do.....	.86
	do.....	do.....	33.03
	do.....	do.....	233.38
	do.....	do.....	45.20
	Pacific States Telephone and Telegraph Co.	do.....	7.00
	Home Telephone Co.....	Telephone services.....	3.90
	A. G. McAdie.....	Traveling expenses.....	4.65
	H. O. Geren.....	do.....	27.55
	F. P. Chaffee.....	do.....	13.35
	J. H. Robinson.....	do.....	19.00
	Central Printing Co.....	Printing annual summary.....	81.00
	Daniel Murphy.....	do.....	30.00
	Phillips Brothers.....	do.....	95.00
	E. D. Beattie.....	do.....	150.00
	Rice & Rice.....	Repairs to stove.....	1.35
	S. J. Shiel.....	Hard-oil finish.....	12.00
	J. L. Christie.....	Constructing river gauge, etc.....	75.00
	J. E. Garrett.....	Washing towels.....	.75
	J. C. Widman & Co.....	Making weather map.....	162.00
	J. L. Christie.....	Installing river gauge.....	5.00
	The Globe Wernicke Co.....	File cabinet.....	16.80
	W. J. Coffin.....	Cleaning weather map.....	15.64
	F. L. Hartenstein.....	Repairing clock.....	2.00
	R. G. Chambers.....	Repairing instrument shelter.....	6.50
	M. Krammer.....	Repairing thermograph.....	1.50
	L. J. Cottrill.....	Repairing furniture.....	15.00
	Manhattan Electrical Supply Co.....	Telegraph sounders.....	7.50
	Frank Rooney.....	Freight and drayage.....	3.95
	O. L. Fassig.....	Lantern slides.....	25.00
	New York substations.....	Pay roll.....	35.00
	Burlington and Missouri River R. R. in Nebraska.....	Passenger transportation.....	31.65
	Illinois Central R. R. Co.....	do.....	28.25
	Santa Fe, Prescott and Phoenix Rwy. Co.....	do.....	30.05
	The Lake Shore and Michigan Southern Rwy. Co.....	do.....	11.20
	Chesapeake and Ohio Rwy. Co.....	do.....	51.50
	Chicago, Rock Island and Pacific Rwy. Co.....	do.....	59.00
	Western Union Telegraph Co.....	Telegraph services.....	14,428.34
	Duluth, South Shore and Atlantic Rwy. Co.	Freight charges.....	3.07
	Kansas City Southern Rwy. Co.....	do.....	1.20
	Burlington and Missouri River R. R. in Nebraska.....	do.....	33.21
	Union Pacific R. R. Co.....	do.....	5.06
	Erie R. R. Co.....	do.....	.45
	J. J. Hagerly.....	Drayage.....	.37
	Wm. J. Crawford.....	do.....	.75
	Buffalo, Rochester and Pittsburg Rwy. Co.	Freight charges.....	.56
	Illinois Central R. R. Co.....	do.....	.21
	The Denver and Rio Grande R. R. Co.....	do.....	1.08
	Lehigh Valley R. R. Co.....	do.....	1.54
	Norfolk and Washington Steamboat Co.....	do.....	1.88
	C. H. Mallory & Co.....	do.....	6.05
	De Tour Lumber and Cedar Co.....	do.....	1.50
	Pennsylvania Co.....	do.....	1.48
	Hannibal and St. Joseph R. R.....	do.....	1.62
	New York Central and Hudson River R. R. Co.....	do.....	.49
	Rome, Watertown and Ogdensburg R. R.....	do.....	.60

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Mar. 12	Gulf, Colorado and Santa Fe Rwy. Co. ....	Freight charges .....	\$1.00
	Southern Rwy. Co. ....	do .....	5.03
	Texas and Pacific Rwy. Co. ....	do .....	1.52
	The Oregon Short Line R. R. Co. ....	do .....	6.32
	Great Northern Rwy. Co. ....	do .....	7.78
	do .....	do .....	7.35
	do .....	do .....	11.75
14	San Antonio and Aransas Pass Rwy. Co. ...	do .....	10.28
	Chicago, St. Paul, Minneapolis and Omaha Rwy. Co. ....	do .....	6.14
	Chicago and Northwestern Rwy. Co. ....	do .....	5.05
	do .....	do .....	16.52
	do .....	do .....	15.63
	Hannibal and St. Joseph R. R. ....	do .....	.94
	The Colorado and Southern Rwy. Co. ....	do .....	1.23
	Delaware, Lackawanna and Western R. R. Delaware and Hudson Co. ....	do .....	.85
	do .....	do .....	.60
	St. Louis and San Francisco R. R. Co. ....	do .....	2.35
	The Hocking Valley Rwy. Co. ....	do .....	.67
	Pacific Coast Steamship Co. ....	do .....	.93
	Atlantic Coast Line R. R. Co. ....	do .....	5.48
	Burlington and Missouri River R. R. in Nebraska. ....	do .....	17.76
	Lehigh Valley R. R. Co. ....	do .....	.45
	De Tour Lumber and Cedar Co. ....	do .....	2.35
	Michigan Central R. R. Co. ....	do .....	.70
	St. Louis Transfer Co. ....	Drayage .....	.95
	Western Union Telegraph Co. ....	Telegraph services .....	117.78
	Postal Telegraph Cable Co. ....	do .....	.20
	Cumberland Telephone and Telegraph Co. Enterprise Telegraph Co. ....	do .....	4.30
	do .....	do .....	15.40
	Elizabeth City and Norfolk Telegraph Co. Alabama and Georgia Long Distance Tele- phone Co. ....	do .....	5.20
	do .....	do .....	6.30
	Chicago, Burlington and Quincy R. R. Co. ....	do .....	5.21
	International Ocean Telegraph Co. ....	do .....	113.98
	Chesapeake and Potomac Telephone Co. ....	do .....	4.75
	Baltimore and Ohio R. R. ....	Passenger transportation .....	1.20
	Jacksonville and St. Johns Bar Telegraph Co. ....	Telegraph services .....	9.50
	Marthas Vineyard Telegraph Co. ....	do .....	43.12
	Burlington and Missouri River R. R. in Nebraska. ....	Passenger transportation .....	16.25
	Chicago, Milwaukee and St. Paul Rwy. Co. do .....	do .....	20.05
	do .....	do .....	1.53
	Northern Pacific Rwy. Co. ....	do .....	44.00
	J. H. Kimball .....	Subsistence .....	28.00
	Charles Eneu Johnson & Co. ....	Ink .....	20.00
	A. H. Kelly .....	Binding weather maps .....	1.50
	Phillips & Butlorff Manufacturing Co. ....	Water cooler and filter .....	4.50
	A. C. Lake .....	Repairing telegraph line .....	2.50
	Benjamin Lynch .....	do .....	1.00
	A. B. Pitman .....	do .....	5.00
	Frank Golart, jr. ....	do .....	7.50
	A. O. Fischer .....	Team hire .....	2.00
	C. H. Pitman .....	do .....	2.00
	S. C. Luce .....	do .....	4.00
	R. G. Allen .....	Traveling expenses .....	11.07
	J. B. Marbury .....	do .....	40.50
	J. W. Smith .....	do .....	2.95
	do .....	do .....	3.65
17	E. H. Furbush .....	Drayage .....	.75
	E. D. Beattie .....	Printing climate and crop bul- letins. ....	36.00
	T. J. Tillett .....	Horse hire .....	2.00
	B. J. Sherry .....	Repairing telegraph line .....	13.50
	H. J. Green .....	Thermometers .....	1,000.00
	George Innes & Co. ....	Carpet .....	56.96
	Brant & Gribi .....	Office case .....	38.00
	W. Nelson .....	Repairing clock .....	2.00
	D. W. Maynard .....	Painting wind-instrument sup- ports. ....	5.00
	D. A. Oliver .....	Frame and glass .....	2.00
	Carter, Rice & Co. (Corporation) .....	Tissue paper .....	33.17
	J. H. Kroeber & Co. ....	Gas brackets .....	8.50
	G. W. Millar & Co. ....	Paper .....	370.50
	G. W. O'Brien .....	Office rent .....	15.00
	Addressograph Co. ....	Addressograph and cabinet .....	44.60
	Yates & Co. ....	Oil, etc .....	2.50
	J. L. Hudson .....	Repairing furniture .....	14.50

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Mar. 17	Chadwick Copying Book Co.....	Rebinding books.....	\$7.92
	C. E. Johnson & Co.....	Ink.....	60.00
	do.....	do.....	40.00
	American Type Founders Co.....	Printing material.....	29.40
	A. F. Magrum.....	Traveling expenses.....	10.00
	J. L. Bartlett.....	do.....	14.75
	A. C. Pickels.....	do.....	9.85
	C. E. Linney.....	do.....	8.65
	The Nevada Central R. R. Co.....	Freight charges.....	.35
	Pennsylvania R. R. Co.....	do.....	.57
	Star Union Line.....	do.....	1.97
	do.....	do.....	.87
	Cleveland, Cincinnati, Chicago and St. Louis Rwy. Co.....	do.....	2.42
	do.....	do.....	2.04
	do.....	do.....	.37
	do.....	do.....	6.46
20	United States Express Co.....	Express charges.....	6.15
	Edward Mullin.....	White rags.....	14.00
	Yawman & Erbe Manufacturing Co.....	File case.....	50.00
	The Maurice Joyce Engraving Co.....	Half-tone plates, etc.....	476.75
	do.....	Electrotype plates, etc.....	45.85
	do.....	do.....	18.50
	Wyckoff, Seamans & Benedict.....	Repairing typewriter.....	21.50
	Yawman & Erbe Manufacturing Co.....	File case.....	50.00
	W. S. Jenks.....	Copper tray.....	2.00
	R. A. Shaw.....	Cleaning weather map.....	10.64
	Bausch & Lomb Optical Co.....	Watchmakers' eyeglasses.....	3.60
	Electric Storage Battery Co.....	Battery cells.....	14.66
	Gray & Dudley Hardware Co.....	Pinchers.....	.50
	Henry Heidenreich.....	Shelving.....	10.00
	Terre Haute and Indianapolis R. R.....	Passenger transportation.....	19.25
	Michigan Central R. R. Co.....	do.....	64.50
	New York Central and Hudson River R. R.....	do.....	9.50
	H. C. Bate.....	Drayage, etc.....	3.75
	L. A. Hatten.....	Traveling expenses.....	17.55
	Rising Sun Telegraph Line.....	Telegraph services.....	2.20
	Alabama, Mississippi and Tennessee Telephone Co.....	do.....	5.75
	Dybert & Son.....	Binding forecast charts.....	35.00
	Knight & Wall Co.....	Water cooler.....	2.50
	Baumgardt Publishing Co.....	Printing climate and crop bulletins.....	13.00
	Max Levy.....	Repairing electric circuits.....	2.80
	Yates & Co.....	Benzine.....	1.25
	The Pelouze Paper and Type Co.....	Recasting rollers.....	2.70
	Geo. W. Taylor & Co.....	Coal.....	42.77
	E. Wiggers.....	Repairing barograph clock.....	2.50
	J. H. Cook.....	River gauge.....	40.00
	The Timothy Dry Goods Co.....	Linoleum.....	41.00
24	Postal Telegraph Cable Co. of Texas.....	Telegraph services.....	9.63
	Home Telephone Co.....	do.....	3.45
	Elizabeth City and Norfolk Telegraph Co.....	do.....	6.32
	Ocean Tow Boat Line.....	do.....	12.00
	Minneapolis, St. Paul and Sault Ste. Marie Rwy. Co.....	do.....	11.55
	The Great Northwestern Telegraph Co. of Canada.....	do.....	140.54
	do.....	do.....	162.23
	do.....	do.....	2.70
	New England Telephone and Telegraph Co.....	Passenger transportation.....	48.95
	Santa Fe, Prescott and Phoenix Rwy. Co.....	do.....	8.60
	The Pennsylvania R. R. Co.....	do.....	15.00
	Colorado Midland Rwy. Co.....	do.....	15.00
	John C. Parker.....	Bookcase.....	15.00
	M. Lindsay Rubber Co.....	Rubber gloves.....	1.25
	Phillips-Buttorff Manufacturing Co.....	Water-cooler stand.....	3.15
	J. & A. Bosch.....	Balloon baro-thermograph.....	68.57
	W. W. Best.....	Repairing telegraph line.....	2.50
	A. E. Drinkwater.....	do.....	1.50
	Western Union Telegraph Co.....	do.....	6.75
	H. A. Pool.....	Horse hire.....	3.50
	E. G. Colvin.....	Traveling expenses.....	13.90
	C. E. Linney.....	do.....	13.00
	M. E. Conway.....	Repairing typewriter.....	6.10
	A. Zappone.....	Traveling expenses.....	6.80
	J. Warren Smith.....	do.....	10.20
	Fred A. Schmidt.....	Rain gauges and measuring sticks.....	1,332.00
31	J. B. Lambie.....	Scissors.....	27.00
	do.....	Scissors, padlocks, etc.....	53.88

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Mar. 31	Rudolph, West & Co .....	Grindstone .....	\$2.00
	Western Union Telegraph Co .....	Telegraph services .....	114.39
	Jacksonville and St. Johns Bar Telegraph Line .....	do .....	9.75
	Marthas Vineyard Telegraph Co. ....	do .....	42.82
	International Ocean Telegraph Co .....	do .....	183.19
	Corvallis and Eastern R. R. Co .....	do .....	2.30
	New England Telephone and Telegraph Co.	do .....	2.60
	Philadelphia, Reading and Pottsville Tele- graph Co. ....	do .....	.10
	do .....	do .....	.10
	Pacific States Telephone and Telegraph Co.	do .....	11.90
	Postal Telegraph Cable Co .....	do .....	281.37
	do .....	do .....	46.82
	do .....	do .....	37.02
	do .....	do .....	.22
	The R. L. Bryan Co. ....	Bookcase, etc .....	26.74
	Pier Hardware Co .....	Heating stove .....	8.50
	O. G. Skylstead .....	Lantern and lamp shade .....	1.50
	Capital Telephone and Telegraph Co .....	Telephone services .....	4.50
	W. H. Renear .....	Repairing telegraph line .....	2.00
	C. J. Brierley .....	do .....	3.00
	C. H. Foster .....	do .....	2.50
	B. J. Sherry .....	do .....	2.50
	Cumberland Presbyterian Publishing House .....	Printing annual summary .....	44.00
	Julien P. Friez .....	Parts for sunshine recorder .....	75.00
	E. C. Fuller Co .....	Parts for wire stitchee .....	2.95
	Edward Morse & Co .....	Cementing basement floor .....	388.00
	F. F. Bossnot .....	Repairing wind-vane support .....	1.00
	E. F. Sanguinetti .....	Oil and ink .....	11.25
	Borton Coal and Trading Co .....	Coal .....	76.29
	Seth Thomas Clock Co .....	Clocks .....	38.50
	W. S. Lanneau .....	Glass .....	12.50
	American Writing Machine Co .....	Repairing typewriter .....	.40
	Townsend Gas and Electric Co .....	Storm-warning lanterns .....	22.00
	W. A. Duvall .....	Renovating office rooms .....	14.00
	E. J. Joy .....	Wardrobe shelving, etc .....	21.75
	Barnhart Bros. & Spindler .....	Printing supplies .....	3.71
	Portland General Electric Co .....	Constructing regulating rheo- stat .....	25.00
	The Bunnell Telegraph and Electric Co .....	Pliers, relays, etc .....	59.82
	Wm. Gadsby .....	Carpet, etc .....	67.50
	Colwell & Rogers .....	Laying plank roadway .....	121.20
	J. R. Reynolds .....	Painting and erecting river gauge .....	22.00
	The Globe-Wernicke Co .....	Base for cabinet .....	4.50
	McEwen & Lauver .....	Wood .....	19.84
	Whitly & Haines .....	Installing storm-warning lan- terns .....	18.50
	George Meier & Co. ....	Gum arabic .....	2.00
	I. Gevartz & Sons .....	Installing stand and shades .....	14.60
	The Smith Premier Typewriter Co .....	Repairing typewriter .....	1.50
	J. A. Roebing's Sons Co .....	Telegraph wire .....	229.90
	Eureka Lighting Co .....	Installing storm-warning lan- terns .....	10.00
	Millison Office Supply Co .....	Table and cabinet .....	12.00
	Astoria Electric Co .....	Installing lanterns .....	30.00
	Durward McGee .....	Repairing river gauge .....	1.50
	Thayer & Jackson Stationery Co .....	Binding circulars .....	3.75
	J. A. Melton .....	Telegraph table .....	11.50
	Megeath Stationery Co .....	Ink .....	1.20
	Seaboard Air Line .....	Passenger transportation .....	5.45
	Southern Rwy. Co. ....	do .....	8.50
	Littlefield, Alvord & Co .....	Drayage .....	14.30
	do .....	do .....	11.89
	Wm. J. Crawford .....	do .....	1.50
	W. B. Moses & Sons .....	Table .....	11.50
	J. C. Parker .....	Stationery supplies .....	109.80
	do .....	Neostyle springs .....	1.00
	J. E. Turton .....	Instrument shelters .....	600.00
	do .....	do .....	12.00
	do .....	do .....	135.00
	The Smith Premier Typewriter Co .....	Repairing typewriter .....	12.50
	J. C. Entwistle .....	Engraving rain chart .....	7.50
	Edward Mullen .....	Rags .....	14.00
	R. A. Shaw .....	Cleaning weather map .....	2.42
	F. A. Schmidt .....	Rain gauges .....	78.75
	Dennison Manufacturing Co .....	Shipping tags .....	22.98
	National Electric Supply Co .....	Repairing engines .....	45.00

*Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.*

## GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Mar. 31	Wm. H. Dyer	Sawdust	\$1.75
	W. L. Moore	Traveling expenses	43.00
	R. L. Miller	do	5.10
	E. A. Beals	do	7.25
	G. F. Field	do	4.55
	John Grover	do	16.05
	E. W. McGann	do	6.60
	W. M. Wilson	Subsistence	45.00
	O. C. Burrows	Station expenses	2.25
	H. O. Geren	Subsistence	27.20
	E. H. Emery	Stereotype metal, etc	9.42
	A. F. Sims	Express charges	3.65
	W. F. R. Phillips et al	Pay roll (climatology)	568.30
	Jno. P. Church et al	Pay roll (printing office)	2,900.15
	Total third quarter		142,877.58
Apr. 7	Union Pacific R. R. Co	Freight charges	4.55
	do	do	3.71
	do	do	35.69
	Norfolk and Western Rwy. Co	do	1.14
	Chicago, St. Paul, Minneapolis and Omaha Rwy. Co.	do	64.51
	Louisville and Nashville R. R. Co	do	1.21
	Cleveland, Cincinnati, Chicago and St. Louis Rwy. Co.	do	3.80
	Pacific Coast Steamship Co.	do	1.63
	Grant Rivenburg	Ice	2.25
	Lone Star Ice Co	do	4.50
	Consumers' Co	do	7.50
	Grable & Collings Co	Ink and mucilage	3.00
	R. A. Milligan	Office furniture	19.25
	Fairbanks, Morse & Co.	Scales	2.50
	Paul A. F. Walter, postmaster	Rent of post-office box	1.50
	Chicago Telephone Co	Delivering bulletins	15.00
	F. L. Knight	Washing towels	1.50
	Joe Campbell	do	2.25
	Munger's Laundry	do	6.00
	L. E. Scarr	do	3.00
	The Apalachicola Electric Light and Telephone Co.	Electric light	6.25
	Tampa Electric Co.	do	3.00
	M. E. Blystone	Traveling expenses	8.55
	H. O. Geren	do	7.50
	B. M. Jacobs	Office rent	30.00
	Chicago Auditorium Association	do	457.50
	Fraternal Hall Association	do	105.00
	Prudential Building Co	do	170.00
	E. P. Jones	do	25.00
	H. H. Taylor, agent	do	322.50
	Taylor National Bank	do	143.75
	T. B. Catron	do	105.00
	Jacob Crocker	do	75.00
	Consolidated Improvement Co	do	165.00
	Dent & Butler	do	105.00
	Tyree & Wilkins, agents	do	67.50
	Walla Walla Lodge, No. 56, I. O. O. F.	do	84.87
	Faine Brothers	do	73.95
	T. E. Warren Mercantile Co	do	129.40
	E. L. Renoe	do	150.00
	Conrad National Bank	do	67.50
	C. P. Meekins	do	2.00
	William Pollman	do	112.50
	G. L. Lovett	do	105.00
	Farmers' National Bank, Fresno, Cal	do	94.50
	City of Columbia, S. C.	do	90.00
	A. W. Kenne	do	75.00
	Fremont Lumber Co.	do	87.75
	H. F. Barnett	do	2.00
	Peter Sonna	do	120.00
	The Gamble-Desmond, Co	do	96.00
	O. I. Mairs	do	90.00
	A. J. Knight	do	82.19
	The Southwestern Telegraph and Telephone Co.	Telephone services	15.00
	Pennsylvania Telephone Co.	do	18.00
	Chicago Telephone Co	do	57.50
	Idaho Independent Telephone Co	do	4.50
	Rocky Mountain Bell Telephone Co.	do	8.25
	Michigan Telephone Co.	do	15.00

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Apr. 7	Michigan Telephone Co.	Telephone services	\$6.00
	Missouri and Kansas Telephone Co	do	9.00
	Independent Telephone Co	do	7.00
	Santa Fe Electric Telephone Co.	do	6.00
	Rocky Mountain Bell Telephone Co.	do	15.00
	Pacific States Telephone and Telegraph Co.	do	9.00
	Southern Bell Telephone and Telegraph Co.	do	3.00
	Lynchburg Telephone Co	do	3.00
	The Inland Telephone and Telegraph Co	do	9.00
	Northwestern Telephone Exchange Co	do	9.00
	Southern Bell Telephone and Telegraph Co.	do	12.00
	Michigan Telephone Co.	do	22.50
	Kalispell Water and Electric Co	do	12.00
	Citizens' Telephone Co.	do	6.00
	Mississippi Valley Telephone Co. of Iowa	do	6.00
	Sunset Telephone and Telegraph Co.	do	6.00
	Bell Telephone Co.	do	26.50
	Southern Bell Telephone and Telegraph Co.	do	12.00
	Telephone Co. of South Jersey	do	5.00
	Rocky Mountain Bell Telephone Co.	do	9.00
	Alabama and Georgia Long Distance Telephone Co.	do	5.70
	Pacific States Telephone and Telegraph Co.	do	9.00
	Southern Bell Telephone and Telegraph Co.	do	9.00
	Peninsular Telephone Co	do	8.25
	Missouri and Kansas Telephone Co	do	18.00
	R. Carter Ballantyne	Books	801.12
	do	Letter paper	20.30
11	The Pennsylvania R. R. Co	Passenger transportation	27.75
	do	do	28.14
	D. F. Thompson	Services	4.00
	D. F. Webber	do	4.00
	L. C. Ballard	do	4.00
	C. Eblighausen	do	4.00
	C. T. Dagwell	do	45.00
	Jno. T. Myers	do	15.00
	Washington Ellis	do	9.00
	Arkansas Typewriter Exchange	Repairing typewriter	5.00
	Home Telephone Co	Telephone services	6.37
	San Antonio Gas and Electric Co	Electric light	6.25
	The Southwestern Telegraph and Telephone Co.	Telephone services	7.50
	The San Antonio Telephone Co	do	7.50
	West Virginia Western Telephone Co	do	4.50
	Dodge City Telephone Co	do	3.00
	The Colorado Telephone Co	do	12.00
	William Vandenburg	Services	3.00
	A. V. Landgrof	do	10.81
	Joseph Lawrence	do	21.00
	J. J. Cason	do	15.00
	Chas. J. Chabot	Repairing typewriter	1.85
	Whitelaw & Peasley	Photographic supplies	2.00
	Prince A. McCree	Services	5.00
	Kathrina Wagner	Office rent	75.00
	Yate Hicks, agent	do	120.00
	Dexter Horton	do	120.00
	Utah and Pacific R. R. Co	do	45.00
	Ed. S. Hughes & Co.	do	95.45
	T. M. Jeffris & Co.	do	125.00
	C. M. Beeson	do	88.91
	Emily Culbertson	do	127.50
	Van Bibber Roller Co	Casting rollers	4.00
	Addressograph Co	Rubber type, etc	18.00
	Eberhard Faber	Pencils	10.80
	E. D. Beattie	Printing	36.00
	Davis & Kirman	Window shades	8.34
	Emmet Minnihan	Repairing telegraph line	1.00
	Norfolk, substations	Pay roll	105.00
	Macon, substations	do	35.84
	New Haven, substations	do	48.00
	Catherine Ryan	Services	12.00
	E. H. Nimmo	Station expenses	1.50
	N. R. Taylor	Expressage	.50
	L. C. Cover	do	2.00
	C. C. Garrett	Station expenses	3.00
	H. H. Kimball	Board and lodging	26.25
	A. McC. Ashley	Subsistence	45.00
	R. H. Sullivan	Station expenses	1.05
	Frank Ridgway	Subsistence	45.00
	E. L. Renoe	Telephone rent	3.00

## Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Apr. 11	J. H. Jones .....	Traveling expenses	\$90.07
	J. W. Wolcott .....	do	1.45
	J. K. Hooper .....	do	5.25
	J. W. Bauer .....	do	6.22
	C. M. Strong .....	do	17.75
	E. R. Miller .....	do	15.25
	G. M. Chappel .....	do	6.84
	H. H. Kimball .....	do	4.85
	Atchison, Topeka and Santa Fe Rwy. Co.	Passenger transportation	47.30
	New York, New Haven and Hartford R. R. Co.	Freight transportation	.61
	Buffalo, Attica and Arcade R. R. Co.	do	.49
	Columbia and Okanogan Steamship Line.	do	.75
	Cleveland, Cincinnati, Chicago and St. Louis Rwy. Co.	do	.89
	do	do	.67
	do	do	3.98
	Burlington route, Missouri lines.	do	1.62
	do	do	2.66
	do	do	.94
	Chicago, Burlington and Quincy R. R. Co.	do	23.13
	do	do	.85
	Missouri Pacific Rwy. Co.	do	1.50
	do	do	.24
	do	do	3.27
	The Denver and Rio Grande R. R. Co.	do	4.75
	Atlantic Coast Line R. R. Co.	do	11.04
	Chesapeake and Ohio Rwy. Co.	do	14.02
	Chicago, St. Paul, Minneapolis and Omaha Rwy. Co.	do	31.75
	Baltimore and Ohio Southwestern R. R. Co.	do	.40
	Central of Georgia Rwy. Co.	do	.66
	Baltimore and Ohio R. R. Co.	do	18.77
	do	do	2.43
	Pennsylvania Co.	do	.42
	Southern Rwy. Co.	do	14.80
	do	do	1.83
	do	do	1.36
	Union Pacific R. R. Co.	do	1.21
	do	do	5.98
	do	do	2.21
	Chicago, Rock Island and Pacific Rwy. Co.	do	1.07
	do	do	1.80
	Chicago, Milwaukee and St. Paul Rwy. Co.	do	.76
	do	do	4.16
	do	do	.78
	Michigan Central R. R. Co.	do	3.63
	C. H. Mallory & Co.	do	1.15
	Pennsylvania R. R. Co.	do	1.42
	M. E. Conway	Office rent	37.74
	Board of county commissioners of Humboldt County, Nev.	do	67.00
	Charles J. Buell	do	94.50
	Chamber of Commerce Building Co.	do	93.21
	M. J. G. Hatch	do	64.75
	The Society for Savings, Cleveland	do	285.00
	G. S. Waite	do	109.45
	Albert Marty	do	165.00
	Northwestern Mutual Life Insurance Co., of Milwaukee, Wis.	do	125.00
	Los Angeles Trust Co.	do	195.00
	Fannie L. Keating	do	90.00
	Joseph Gussenhoven	do	90.00
	Tacoma Chamber of Commerce and Board of Trade.	do	75.00
	Improvement Loan and Trust Co.	do	150.00
	do	Electric light	8.75
	New York, substation	Pay roll	25.00
	Norwich University	Heat and electric light	21.50
	The Hanson & Van Winkle Co.	Instrument supplies	39.77
	E. A. Born	Electric light	27.75
	W. H. H. Smith	Services	14.00
	E. J. Phelps	Station supplies	8.50
	The Williams & Rodgers Co.	Clock	.75
	C. A. Johnson	Washing towels	3.00
	F. J. Finck	Station supplies	4.00
	People's Gaslight and Coke Co.	Gas	8.00
	The Silver State Towel Supply Co.	Towel supply	3.00
	Charleston Consolidated Railway, Gas, and Electric Co.	Electric light	8.75

*Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.*

## GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Apr. 11	Cumberland Electric Light and Power Co.	Electric power	\$15.00
	Cumberland Telephone and Telegraph Co.	Telephone services	21.00
	R. L. Lewis	do	24.00
	H. J. Ledoux	Water services	3.52
	J. E. Roche & Co.	Repairing clock	3.00
	R. M. Geddings	Express charges	3.95
	J. Warren Smith	Drayage and express charges	16.57
	P. H. Smyth	Drayage	2.25
	L. H. Murdoch	Express charges	2.60
	W. S. Belden	do	3.45
	A. G. Burns	Drayage, etc	1.65
	Frank Jermin	Cleaning thermograph clock	2.10
	A. G. McAdie	Drayage and express	2.10
	J. L. Cline	do	1.40
	Wm. M. Dudley	do	.75
	P. Connor	Car fare	7.65
	R. A. Gardiner	Traveling expenses	18.20
	David Cuthbertson	Station expenses	7.05
	L. H. Daingerfield	do	.90
	A. L. Cook	Office rent	90.00
	F. D. Miracle	do	147.00
	M. Parmentier	do	74.25
	Warfield & Dann	do	72.00
	Bank of Wytheville	do	100.00
	O. I. Taylor	do	57.50
	American Surety Co., of New York	do	625.00
	P. A. Willis	do	10.00
	D. B. Dodge	do	59.99
	K. F. Coke	do	60.00
	Pacific Club	do	65.75
	J. B. Smith	do	75.00
	Hudson River Telephone Co.	Telephone services	16.50
	Binghamton Telephone Co.	do	7.50
	Nebraska Telephone Co.	do	16.50
	Cumberland Telephone and Telegraph Co.	do	10.00
	The Southern New England Telephone Co.	do	27.00
	The Bell Telephone of Philadelphia	do	30.00
	Southern Bell Telephone and Telegraph Co.	do	24.00
	New York Telephone Co.	do	60.00
	Rocky Mountain Bell Telephone Co.	do	15.00
	Chesapeake and Potomac Telephone Co.	do	31.25
	Central New York Telephone and Telegraph Co.	do	20.00
	Union Telephone Co.	do	6.25
	Wytheville Telephone Co.	do	3.75
	Maryland Telephone and Telegraph Co.	do	14.50
	Wisconsin Telephone Co.	do	3.75
	La Crosse Telephone Co.	do	7.50
	The Consolidated Telephone Companies of Pennsylvania.	do	9.00
	Southern Bell Telephone and Telegraph Co.	do	7.50
	Palestine Telephone Co.	do	9.00
	Marquette City Light and Power Commission.	Electric power	12.90
	R. Ashtenhagen	Laying carpet	4.50
	Postal Telegraph Cable Co.	Telegraph services	47.06
	Ocean Tow-Boat Line	do	10.00
	The Kelley Island and Sandusky Cable Co.	do	9.50
	The Central District and Printing Telegraph Co.	do	14.00
	Pacific States Telephone and Telegraph Co.	do	6.99
	Cleveland, Cincinnati, Chicago and St. Louis Rwy. Co.	Passenger transportation	52.00
	Standard Gas and Electric Co.	Gas	16.20
	Riley J. McMaster	Storm-warning displayman	15.00
	Chas. C. Armour	Services	5.00
	Annapolis Gas and Electric Light Co.	Electric light	9.00
	Charleston Consolidated Railway, Gas, and Electric Co.	do	8.75
	Georgetown Electric Co.	do	8.75
	O. D. Thompson	Services	5.50
	R. M. Hull	Repairing typewriter	6.50
	Lincoln Traction Co.	Electric current	13.50
	Honeyman Hardware Co.	Pulley and tackle	5.50
	Arizona Publishing Co.	Printing	4.60
	Board of Public Works, Sault Ste. Marie, Mich.	Water	3.50
	Fowler Manufacturing Co. (Limited)	Towels, etc	3.00
	F. S. Cox	Electric supplies	4.40
	Consumers' Ice Co.	Ice	3.85



Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Apr. 14	J. J. Kelliher .....	Traveling expenses .....	\$2.00
	L. A. Denson .....	do .....	7.00
	J. B. Marbury .....	do .....	4.84
	J. N. Ryker .....	Drayage .....	.75
	F. H. Brandenburg .....	Express, etc .....	2.60
	L. N. Jesunofsky .....	Drayage .....	2.00
	I. M. Cline .....	Express, etc .....	4.55
	G. W. Felger .....	Drayage .....	.50
	F. W. Conrad .....	Office expenses .....	5.25
	G. N. Wilson .....	Drayage .....	.50
	J. W. Byram .....	do .....	7.85
	O. L. Fassig .....	Office expenses .....	6.85
	C. F. von Herrmann .....	Express, etc .....	24.15
	Mill Valley and Mount Tamalpais Scenic Rwy. .....	Office rent .....	105.00
	do .....	Services .....	15.00
	J. K. Porter .....	Office rent .....	150.00
	J. L. Connell .....	do .....	118.75
	City of Palestine, Tex .....	do .....	78.50
	Citizens' Bank of Norfolk, Va .....	do .....	181.25
	D. L. Buhne et al .....	do .....	92.20
	Bank of Tehama County .....	do .....	99.06
	Wm. Curry's Sons .....	do .....	24.00
	Adam Geiger .....	do .....	60.00
	J. E. Rankin, guardian Coche heirs .....	do .....	96.00
	Cramer & Goff .....	Partitions .....	79.00
	Jos. Fredericks & Co. (Incorporated) .....	Carpet, etc .....	261.95
	B. S. Williams .....	Rent .....	73.00
	Indianapolis Gas Co. .....	do .....	256.25
	John Semer .....	do .....	112.50
	J. R. Hunter, agent .....	do .....	279.00
	E. D. Osborn .....	do .....	125.00
	Hoke Engraving Plate Co .....	Recoating base plates .....	162.50
	do .....	do .....	15.75
	Rocky Mountain Bell Telephone Co .....	Telephone services .....	11.20
	Missouri and Kansas Telephone Co .....	do .....	6.00
	Southern Bell Telephone and Telegraph Co. .....	do .....	15.00
	New England Telephone and Telegraph Co. .....	do .....	16.15
	Bell Telephone Co. of Buffalo .....	do .....	15.00
	Columbia Telephone Co .....	do .....	7.00
	The Colorado Telephone Co .....	do .....	13.50
	Postal Telegraph Cable Co .....	Telegraph services .....	452.59
	do .....	do .....	36.72
18	Southern Bell Telephone and Telegraph Co. .....	Telephone services .....	21.50
	E. V. Hauser .....	do .....	7.50
	The City and Suburban Telegraph Assoc- iation .....	do .....	21.00
	New York and Pennsylvania Telephone and Telegraph Co. .....	do .....	7.50
	Raynor Ness .....	Services .....	10.00
	Statesman Printing Co .....	Printing .....	76.50
	A. L. Whitaker .....	Painting .....	7.00
	C. B. Little .....	Water .....	11.00
	New Orleans and Carrollton Railroad, Light and Power Co. .....	Electric light .....	6.89
	Max Levy .....	Electric power .....	30.00
	The Citizens' Gas and Electric Co. .....	Electric light .....	3.00
	A. A. Finck .....	Printing .....	6.00
	Milner & Ebert .....	Kerosene oil .....	5.60
	Clem Jaycocks .....	Ice .....	9.00
	American Linen Supply Co .....	Towels .....	3.00
	J. E. Pleasants .....	Book binding .....	7.50
	Edison Sault Electric Co .....	Electric light .....	11.02
	New Orleans Lighting Co., lessee .....	Gas .....	13.12
	Municipal Electric Light Plant .....	Electric meter .....	11.50
	E. S. Allen .....	Telephone services .....	7.50
	Green Bay Light and Power Co .....	Electric light .....	6.25
	The American Toilet Supply Co .....	Towels, etc .....	2.25
	Capital Electric Engineering Co .....	Services .....	4.50
	W. S. Rowe .....	Telephone services .....	3.00
	Chippewa Hardware Co .....	Smoke pipe .....	1.40
	M. T. Hayden .....	Towels .....	3.00
	Dora Moyon .....	do .....	6.00
	G. Forsberg .....	Printing .....	3.00
	E. A. Hughes .....	Electric light .....	9.00
	J. E. Garrett .....	Towels .....	.75
	Omaha Towel Co .....	do .....	3.00
	Buffalo Gas Co .....	Gas .....	5.20

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Apr. 18	Indianapolis Light and Power Co .....	Electric power .....	\$18.00
	Nashville Laundry Co .....	Towels .....	1.80
	Alabama, Mississippi and Tennessee Tele- phone Co. ....	Telephone services .....	6.50
	Rising Sun Telegraph Line .....	Telegraphing .....	2.60
	The Louisville Home Telephone Co .....	Telephone services .....	12.00
	Galveston Gas Co .....	Gas .....	10.80
	Campbell & Gilbert .....	Services .....	2.25
	A. Klein .....	Washing towels .....	2.00
	Kentucky Steam Laundry .....	do .....	1.50
	J. F. Beck .....	do .....	3.00
	Baltimore Towel Supply Co .....	do .....	2.25
	Mary Fantleroy .....	do .....	1.50
	New York, New Haven and Hartford R. R. Co. ....	Passenger transportation .....	18.45
	L. Wilson .....	Washing towels .....	1.50
	Illinois Central R. R. Co .....	Freightage .....	1.50
	Baltimore, substations .....	Pay roll .....	90.00
	R. W. Clement .....	Services .....	10.10
	Boston, substations .....	Pay roll .....	749.25
	Louisville, substations .....	do .....	61.00
	Galveston, substations .....	do .....	47.75
	L. A. Chidester .....	Services .....	9.00
	H. Hamilton .....	do .....	15.00
	T. A. Boon .....	do .....	30.00
	M. A. Webster .....	do .....	15.50
	J. E. Harris, jr .....	do .....	16.50
	S. W. Lightner .....	do .....	30.00
	J. A. Venable .....	do .....	15.00
	Conrad Schmidt .....	do .....	6.25
	Mobile, substations .....	Pay roll .....	72.00
	New Orleans, substations .....	do .....	84.00
	Portland, Oreg., substations .....	do .....	80.25
	Savannah, substations .....	do .....	61.00
	C. P. Disney .....	Services .....	7.00
	Montgomery, substations .....	Pay roll .....	140.50
	Augusta, substations .....	do .....	57.00
	N. W. Wagner .....	Services .....	21.00
	Cincinnati, substations .....	Pay roll .....	206.00
	John Hyslop .....	Services .....	30.00
	C. P. Searle .....	do .....	30.00
	J. E. Cotter .....	do .....	15.75
	Harrisburg, substations .....	Pay roll .....	158.50
	Charleston, substations .....	do .....	83.00
	do .....	do .....	30.00
	Wilmington, substations .....	do .....	72.00
	New Orleans, substations .....	do .....	105.00
	Philadelphia, substations .....	do .....	69.00
	C. A. Blummer .....	Services .....	15.00
	Cairo, substations .....	Pay roll .....	150.20
	A. G. Wiley .....	Services .....	9.00
	Portland, Oreg., substations .....	Pay roll .....	130.00
	C. P. Blachley .....	Services .....	9.00
	Galveston, substations .....	Pay roll .....	30.00
	Paul De Graw .....	Traveling expenses .....	4.00
	J. B. Marbury .....	Station expenses .....	38.00
	do .....	do .....	3.65
	S. W. Glenn .....	do .....	3.95
	J. M. Sherier .....	Street-car fare .....	12.15
	L. M. Tarr .....	Drayage .....	15.50
	E. H. Emery .....	Station expenses .....	24.06
	A. E. Hackett .....	do .....	5.94
	C. E. Johnson .....	Drayage .....	.50
	W. G. Burns .....	do .....	4.40
	J. Roberts .....	Traveling expenses .....	3.80
	A. J. Mitchell .....	do .....	11.05
	J. F. Atherton .....	do .....	16.00
	E. A. Evans .....	do .....	25.80
	L. Lodholz .....	do .....	26.25
	L. H. Daingerfield .....	Cleaning carpet .....	1.75
	J. H. Kimball .....	Subsistence .....	31.00
	J. R. Williams .....	Express .....	3.25
	F. H. Clarke .....	Drayage .....	1.55
	H. B. Boyer .....	do .....	.75
	O. Adams, jr .....	Office rent .....	120.00
	First National Bank of Moorhead, Minn .....	do .....	66.31
	M. W. Cunningham .....	do .....	54.00
	Dyal Upchurch Investment Co .....	do .....	187.50
	The Hayden Co .....	do .....	300.00
	Estate of S. Marks & Co .....	do .....	84.75

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1903. Apr. 18	Joseph Bryan .....	Office rent .....	\$150.00
	Walter Talbot .....	do .....	120.00
	J. L. Smith .....	do .....	30.00
	J. E. Dooley .....	do .....	150.00
	G. W. O'Brien .....	do .....	18.00
	Fayette Home Telephone Co .....	Telephone services .....	4.50
	Iowa Telephone Co .....	do .....	15.00
	East Tennessee Telephone Co .....	do .....	9.00
	Asheville Telephone Co .....	do .....	6.00
	The Southwestern Telegraph and Tele- phone Co .....	do .....	12.00
	The Cleveland Telephone Co .....	do .....	30.00
	The Gordon Telephone Co .....	do .....	9.00
	Consolidated Telephone Co .....	do .....	5.00
	Wisconsin Telephone Co .....	do .....	12.00
	Zenith City Telephone Co .....	do .....	7.50
	The Bell Telephone Co. of Missouri .....	do .....	22.50
	New Telephone Co .....	do .....	10.00
	Southern Bell Telephone and Telegraph Co .....	do .....	18.00
	Nebraska Telephone Co .....	do .....	22.50
	New England Telephone and Telegraph Co .....	do .....	8.25
	Missouri and Kansas Telephone Co .....	do .....	30.00
	The Columbus Citizens' Telephone Co .....	do .....	10.00
	Duluth Telephone Co .....	do .....	12.50
	The Colorado Telephone Co .....	do .....	28.50
	Central Union Telephone Co .....	do .....	15.00
	Delaware and Atlantic Telephone and Telegraph Co .....	do .....	12.00
	Black Hills Telegraph and Telephone Co .....	do .....	21.00
	Mutual Telephone Co .....	do .....	11.25
	Missouri and Kansas Telephone Co .....	do .....	9.00
	Cumberland Telephone and Telegraph Co .....	do .....	12.00
	Rocky Mountain Bell Telephone Co .....	do .....	10.50
	J. S. Pinney .....	Services .....	8.00
	do .....	do .....	7.00
	J. M. Russell .....	Fuel .....	32.00
	St. Louis Toilet Supply Co .....	Washing towels .....	4.50
	Electric Lighting Co. of Mobile, Ala .....	Electric light .....	1.85
	Pacific States Telephone and Telegraph Co .....	Telephone services .....	25.50
	do .....	do .....	35.10
	Columbia Telephone Co .....	do .....	6.00
	Sunset Telephone and Telegraph Co .....	do .....	6.00
	The Empire State Telephone and Tele- graph Co .....	do .....	7.50
	Cumberland Telephone and Telegraph Co .....	do .....	29.85
	Southern States Telephone Co .....	do .....	9.50
	Interstate Telephone and Telegraph Co .....	do .....	4.50
	Southern Bell Telephone and Telegraph Co .....	do .....	8.25
	Pacific States Telephone and Telegraph Co .....	do .....	18.00
	Southern Bell Telephone and Telegraph Co .....	do .....	4.50
	Pacific States Telephone and Telegraph Co .....	do .....	30.00
	Sunset Telephone and Telegraph Co .....	do .....	15.00
	Southern Bell Telephone and Telegraph Co .....	do .....	12.00
	Cumberland Telephone and Telegraph Co .....	do .....	16.50
	Sunset Telephone and Telegraph Co .....	do .....	6.00
	Cumberland Telephone and Telegraph Co .....	do .....	10.50
	The Southwestern Telegraph and Tele- phone Co .....	do .....	13.00
	Northwestern Telephone Exchange Co .....	do .....	12.00
	East Tennessee Telephone Co .....	do .....	12.00
	New England Telephone and Telegraph Co .....	do .....	29.00
	Southwestern Telegraph and Telephone Co .....	do .....	9.00
	Jacksonville Telephone Co .....	do .....	7.50
	New York and Pennsylvania Telephone and Telegraph Co .....	do .....	12.00
	Williston Telephone Exchange .....	do .....	6.00
	Ontario Telephone Co .....	do .....	15.00
	Southern Bell Telephone and Telegraph Co .....	do .....	15.00
	do .....	do .....	7.50

366 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1903. Apr. 18	Central District and Printing Telegraph Co.	Telephone services .....	\$35.75
	Duluth Van and Storage Co .....	Drayage .....	1.00
	Cape May Light and Power Co .....	Electric light .....	6.05
	Eugene Shepardson .....	Washing towels .....	3.00
	R. G. Sleater .....	Printing .....	24.00
	H. B. Hartman .....	Water .....	3.00
	Louis Hendricks .....	Services .....	5.00
	John Carter & Co .....	Drawing paper .....	44.85
	Brady & Walters .....	Shelving .....	20.00
	B. M. Lee .....	Bench mark .....	8.50
	J. C. Covert .....	Photographs .....	5.00
	L. Rogers .....	Services .....	30.00
	R. L. Anderson .....	do .....	4.00
	A. J. Stowe .....	Spikes .....	4.00
	D. W. King .....	Washing towels .....	1.50
	H. E. Wadsworth .....	Telegraph services .....	70.40
21	United Electric Light and Power Co .....	Electric light .....	10.31
	Charles Baldwin .....	Office rent .....	112.50
	N. C. Reynick .....	Printing annual summary .....	46.00
	Amarillo Light and Water Co .....	Water supply .....	3.00
	Astoria Electric Co .....	Electric light .....	2.67
	The Pacific Transfer Co .....	Drayage .....	26.50
	Arizona Publishing Co .....	Printing climate and crop bulletins .....	66.00
	The Raleigh Electric Co .....	Electric power .....	4.71
	Dobbin & Ferrall .....	Linoleum .....	51.00
	Stone & Barringer .....	Chart frames .....	5.30
	H. Brooker & Co .....	Kerosene oil .....	4.00
	Fall River Electric Light Co .....	Electric light .....	14.80
	J. G. Flook .....	Form case .....	25.00
	The S. A. Bristol Co .....	Binding bulletins .....	23.00
	Henry Horster .....	Cleaning carpet .....	8.50
	The General Cartage and Storage Co .....	Drayage .....	5.00
	Wild & Stevens .....	Printing supplies .....	2.55
	Rockingham County Light and Power Co .....	Electric light .....	16.36
	F. D. Day & Co .....	Repairing clock .....	2.00
	New London Gas and Electric Co .....	Electric light .....	27.80
	Nashville Gas Co .....	Gas .....	9.10
	New Bedford Gas and Edison Light Co .....	Electric light .....	29.84
	Marblehead Municipal Light Department .....	do .....	14.25
	Chas. A. Drach Electrotype Co .....	Stereotype blocks .....	.80
	M. G. Markell .....	Installing platform .....	50.00
	Consolidated Gas Co .....	Gas .....	.55
	E. E. Jones .....	Running levels .....	13.00
	Baumgardt Publishing Co .....	Printing climate and crop bulletins .....	16.25
	J. F. Leland .....	Painting instrument shelter .....	10.00
	Arizona Laundry Co .....	Washing towels .....	.46
	Dunn & Lemmon .....	Printing annual summary .....	50.00
	Phoenix Light and Fuel Co .....	Electric light .....	8.86
	Southern Bell Telephone and Telegraph Co .....	Telephone services .....	9.00
	The Northern Telephone Exchange Co .....	do .....	18.00
	Michigan Telephone Co .....	do .....	6.00
	Morgan City Improvement Co .....	Electric light .....	2.50
	Chicago and Northwestern Rwy. Co .....	Passenger transportation .....	41.35
	The Wabash R. R. Co .....	do .....	25.55
	Texas Pacific Rwy. Co .....	do .....	24.55
	do .....	do .....	18.55
	Yazoo and Mississippi Valley R. R. Co .....	do .....	17.85
	Southern Rwy. Co .....	do .....	27.40
	Baltimore and Ohio R. R. .....	do .....	23.00
	City Ice Delivery Co .....	Ice .....	4.40
	Jos. Fredericks & Co. (Incorporated) .....	Iron bed, mattress, and pillows .....	36.00
	J. Richard .....	Barometers, etc .....	178.14
	Barber & Ross .....	Tools .....	27.60
	do .....	Axes and nails .....	7.00
	do .....	Scoop shovels .....	5.40
	American Writing Machine Co .....	Typewriter, etc .....	72.25
	The Maurice Joyce Engraving Co .....	Photo-engraving plates .....	16.65
	Clark & Davenport .....	Carpet .....	42.63
	do .....	do .....	65.97
	Fred A. Schmidt .....	Pencils and tinfoil .....	1.30
	Herman Baumgarten .....	Rubber stamps .....	2.51
	R. P. Clarke Co .....	Flannel .....	34.50
	Dulin & Martin Co .....	Jar .....	2.75
	Z. D. Gilman .....	Dishes .....	1.46
	Neely Electric Construction Supply Co .....	Insulators .....	13.12
	Woodward & Lothrop .....	Office furniture .....	22.99

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1903, Apr. 21	Memphis, substations .....	Pay roll .....	\$62.00
	Atlanta, substations .....	do .....	37.00
	Jacksonville, substations .....	do .....	75.00
	Atlanta, substations .....	do .....	96.25
	La Crosse, substations .....	do .....	74.00
	Pittsburg, substations .....	do .....	433.50
	Shreveport, substations .....	do .....	38.41
	Raleigh, substations .....	do .....	99.00
	Parkersburg, substations .....	do .....	82.00
	J. U. Haley .....	Services .....	12.00
	John Forster .....	do .....	12.00
	A. C. McCleary .....	do .....	12.00
	F. P. Chaffee .....	Drayage .....	3.70
	H. W. Grasse .....	Station expenses .....	4.25
	E. A. Beals .....	Drayage, etc .....	6.06
	S. S. Bassler .....	Telephone services .....	2.75
	W. C. McGuinness .....	Drayage .....	1.00
	L. M. Pindell .....	do .....	1.90
	M. R. Sanford .....	do .....	1.00
	U. G. Purssell .....	do .....	2.10
	W. T. Blythe .....	Drayage, etc .....	35.92
	H. A. Poole .....	Horse hire .....	5.00
	J. N. Thompson .....	Repairing telegraph line .....	3.00
	L. P. Parker .....	do .....	2.00
	C. Williams .....	do .....	4.00
	Western Union Telegraph Co .....	do .....	5.45
	Henry Bolton .....	Office rent .....	52.84
	People's Telephone and Telegraph Co .....	Telephone services .....	7.50
	East Tennessee Telephone Co .....	do .....	9.00
	Southern Bell Telephone and Telegraph Co .....	do .....	15.00
	Central Union Telephone Co .....	do .....	10.50
	Michigan Telephone Co .....	do .....	3.00
	New England Telephone and Telegraph Co .....	do .....	14.25
	The Southwestern Telegraph and Telephone Co .....	do .....	21.00
	Northwestern Telephone Exchange Co .....	do .....	21.00
	Rocky Mountain Bell Telephone Co .....	do .....	24.00
	Wisconsin Telephone Co .....	do .....	21.48
	Sunset Telephone and Telegraph Co .....	do .....	4.75
	Iowa Telephone Co .....	do .....	30.00
	Courier Journal Job Printing Co .....	Printing annual summary .....	90.00
	Naegele & Co .....	Printing bulletins .....	21.00
	The Garrett Printing Co .....	do .....	55.25
	Minneapolis General Electric Co .....	Electric current .....	15.00
	The Milwaukee Electric Railway and Light Co .....	do .....	2.85
	Jacksonville Towel Co .....	Washing towels .....	3.00
	H. McP. Baldwin .....	Traveling expenses .....	8.50
	T. F. Townsend .....	do .....	9.00
	The Missouri Pacific Rwy. Co .....	Passenger transportation .....	50.50
	Buffington & Co .....	Recoating ink rollers .....	3.45
	The S. B. Hubbard Co .....	Repairing rain gauge .....	.50
	W. D. Twitchell .....	Running levels .....	5.00
	F. N. Rounsville .....	Repairing rain gauge .....	5.20
	Gamble & Ludwig .....	Gasoline .....	.75
	M. L. Cohen .....	Repairing thermograph .....	3.50
	R. H. Vorpahl .....	Recasting rollers .....	3.00
	W. A. Moore .....	Ink and mucilage .....	5.75
	Maverick Clark Lithographing Co .....	Ink .....	1.50
	American Type Founders Co .....	Brush, etc .....	1.00
	T. J. Nolan .....	Awnings .....	9.00
	Western Union Telegraph Co .....	Telegraph services .....	15,578.53
	Home Telephone Co .....	do .....	22.80
	do .....	do .....	7.35
	Alabama and Vicksburg Rwy. Co .....	Freight charges .....	6.21
	The Colorado and Southern Rwy. Co .....	do .....	1.30
	Pennsylvania R. R. Co .....	do .....	1.05
	Burlington Route, Missouri lines .....	do .....	8.30
	Toledo and Ohio Central Rwy. Co .....	do .....	.50
	Sierra Rwy. Co. of California .....	do .....	.25
	Chicago and Alton Rwy. Co .....	do .....	.75
	do .....	do .....	1.86
	Chicago, Peoria and St. Louis Rwy. Co. of Illinois .....	do .....	1.13
	Nashville, Chattanooga and St. Louis Rwy. Co .....	do .....	.70
	New York, New Haven and Hartford R. R. Co .....	do .....	.45

368 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1903. Apr. 30	Union Pacific R. R. Co	Freight charges	\$2.46
	Norfolk and Washington Steamboat Co.	do	2.81
	do	do	2.63
	Rome, Watertown and Ogdensburg R. R. Co.	do	.60
	St. Louis and San Francisco R. R. Co	do	2.72
	do	do	3.75
	St. Louis Transfer Co	do	.94
	Wabash R. R. Co	do	3.03
	Baltimore and Ohio Southwestern R. R. Co	do	3.99
	Boston and Albany R. R. Co	do	.94
	Chesapeake and Ohio Rwy. Co	do	5.65
	Chicago and Northwestern Rwy. Co	do	.84
	Cleveland, Cincinnati, Chicago and St. Louis Rwy. Co.	do	.73
	Detroit and Mackinac Rwy. Co	do	4.39
	Great Northern Rwy. Co	do	22.57
	do	do	4.44
	do	do	3.39
	Louisville and Nashville R. R. Co	do	.95
	do	do	9.28
	The Atchison, Topeka and Santa Fe Rwy. Co.	do	74.32
	The Denver and Rio Grande R. R. Co	do	1.01
	James Hunter	do	16.00
	International and Great Northern R. R. Co.	do	6.98
	do	do	1.56
	Lakeside and Marblehead R. R.	do	1.34
	Manistique Rwy. Co	do	2.79
	Missouri Pacific Rwy. Co	do	1.88
	New York Central and Hudson River R. R. Co.	do	.93
	Oregon Railroad and Navigation Co.	do	13.37
	Pere Marquette R. R. Co	do	1.34
	Western Rwy. of Alabama	do	2.25
	Pennsylvania R. R. Co	do	.85
	do	do	1.55
	do	do	.45
	do	do	.45
	do	do	1.88
	Southern Rwy Co	do	1.25
	do	do	1.09
	Star Union Line	do	1.29
	West Virginia Central and Pittsburg Rwy. Co.	do	1.07
	W. F. R. Phillips et al.	Pay roll (climatology)	481.50
	Jno. P. Church et al	Pay roll (printing office)	2,927.77
	A. F. Jors	Erecting stairway	198.00
May 5	National Electrical Supply Co.	Incandescent lamps	3.60
	do	Repairing resistance box	3.30
	Hugh Reilly	Turpentine	24.61
	do	Shellac	1.20
	John Parker	Paper	248.56
	do	do	42.60
	do	Iron dampening bowls	4.00
	do	Map paper	811.69
	Woodward & Lothrop	Desk	17.25
	do	Millinet	1.61
	M. Du Perow	Cords, mica, etc	20.40
	The J. C. Ergood Co.	Soap	1.30
	Mackall Bros	Nitric acid, etc	2.66
	E. Morrison Paper Co.	Paper	20.64
	C. L. Wilkinson	Tallow	10.00
	Library Bureau	Typewriter stand	8.50
	Thos. Somerville & Sons	Steam cock, etc.	1.02
	R. C. Ballantyne	Paper	14.85
	J. Baumgarten & Sons	Repairing numbering machines	4.00
	R. P. Andrews & Co. (Incorporated)	Lead pencils	33.08
	Western Union Telegraph Co	Telegraph services	93.07
	Cumberland Telephone and Telegraph Co.	do	153.85
	Rocky Mountain Bell Telephone Co.	do	29.50
	East Tennessee Telephone Co	do	23.50
	Moncure and Pittsboro Telephone Co.	do	4.80
	The Tyrrell County Telephone Co	do	7.10
	Dakota Central Telephone Lines (Incorporated).	do	112.52
	Winton Telegraph Co	do	7.10
	Iowa Telephone Co	do	1.80
	Cumberland Telephone and Telegraph Co.	do	52.40

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
May 5	Chesapeake and Potomac Telephone Co	Telegraph services	\$7. 10
	New England Telephone and Telegraph Co	do	2. 30
	Home Telephone Co	do	7. 80
	Great Northwestern Telegraph Co. of Canada.	do	129. 06
	Knox Telephone and Telegraph Co	do	3. 50
	Corvallis and Eastern R. R. Co	do	2. 60
	New England Telephone and Telegraph Co	do	1. 50
	Chicago, Burlington and Quincy R. R. Co	do	2. 31
	International Ocean Telegraph Co	do	206. 01
	The Central District and Printing Telegraph Co.	do	12. 30
	Pacific States Telephone and Telegraph Co.	do	11. 60
	Georgia Telephone and Telegraph Co	Telephone services	1. 67
	do	do	10. 00
	Cumberland Telephone and Telegraph Co.	do	12. 30
	Capital Telephone and Telegraph Co	do	4. 50
	Michigan Telephone Co	do	12. 00
	Rocky Mountain Bell Telephone Co.	do	2. 20
	Union Trust Co., Detroit, receiver of Michigan Telephone Co.	do	9. 00
	do	do	5. 96
	Cumberland Telephone and Telegraph Co.	do	5. 60
	Amarillo Telephone Exchange	do	3. 00
	Pacific States Telephone and Telegraph Co.	do	12. 00
	Northwestern Telephone Exchange Co.	do	6. 00
	B. C. Watkins	Services	21. 00
	Albany, substations	Pay roll	84. 78
	Boston, substations	do	286. 50
	Chattanooga, substations	do	140. 70
	Fort Smith, substations	do	39. 00
	Nashville, substations	do	82. 05
	Augusta, substations	do	4. 50
	Little Rock, substations	do	61. 25
	Portland, Me., substations	do	90. 00
	Sioux City, substations	do	31. 83
	Knoxville, substations	do	124. 50
	Richmond, substations	do	16. 50
	J. W. Bauer	Drayage and washing towels	1. 40
	R. B. Harkness	Repairing thermograph clock	2. 50
	T. S. Outram	Drayage	4. 90
	E. C. Vose	Station expenses	4. 50
	E. G. Allen	Drayage	17. 80
	J. L. Bartlett	Station expenses	2. 44
	T. F. Townsend	Traveling expenses	18. 00
	N. M. Cunningham	do	13. 50
	E. A. Beals	do	28. 85
	A. G. McAdie	do	4. 75
	G. W. Felger	do	17. 15
	H. B. Hersey	do	12. 30
	Marquette County Savings Bank	Office rent	90. 00
	Union Trust Building Co	do	167. 50
	E. Harding	do	81. 94
	First National Bank	do	126. 00
	M. E. Shelden	do	93. 75
	Escanaba Municipal Lighting Plants	Electric lights	7. 50
	Pittsburg and Lake Erie R. R. Co	Passenger transportation	8. 30
	Mobile and Ohio R. R. Co	do	15. 70
	The S. A. Bristol Co	Printing bulletins	15. 00
	American Writing Machine Co.	Repairing typewriter	13. 50
	The Webb C. Ball Watch Co	Repairing barograph clock	2. 50
	George Kemp	Coal	8. 00
	Needham Bros	Washing towels	. 87
	Lowman & Hanford Stationery and Printing Co.	Ink and mucilage	5. 75
	Geary Bros	Drayage	1. 00
	The Union Ice Co	Ice	9. 00
	H. J. Bool	Parts for addressograph	3. 70
	J. A. Bailey	Erecting instruments	30. 00
	Geo. Innes & Co	Carpet sweeper	3. 00
	Wm. Anderson	Repairs in office	15. 00
	Davis & Kirman	Ink	3. 00
	Pelouze Paper and Type Co.	Printing materials	3. 90
	W. A. McKenzie	Awnings	18. 00
	Philip Bryan	Electric-light fixture	2. 00
	Stearns Light and Power Co	Wiring tower	31. 55
	J. J. Davis	Repairing furniture	12. 00
	Eimer & Amend	Acid	1. 30
	F. J. Steinmetz	Oil and benzine	1. 90

## 370 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
May 5	The Friedenwald Co.....	Forecast cards.....	\$60.80
	G. W. Taylor & Co.....	Coal.....	5.61
	S. H. Quint & Sons.....	Stencils.....	5.00
	E. O. Zadek.....	Repairing clock.....	2.50
	W. P. Smith.....	Laying carpet.....	3.50
	C. S. Clinton.....	Repairing thermograph clock.....	1.25
	E. E. Garrett.....	Oil and brooms.....	2.50
	Texas and Pacific Rwy. Co.....	Freight charges.....	3.27
	Erie and Western Transportation Co.....	do.....	.57
	Central Vermont Rwy. Co.....	do.....	.57
7	A. Zappone.....	Traveling expenses.....	6.30
	Geo. Hass Hagen.....	do.....	11.00
	W. M. Wilson.....	do.....	28.75
	F. R. Roers.....	Services.....	10.75
	O. W. Roberts.....	Station expenses.....	4.50
	G. E. Franklin.....	do.....	10.50
	Frank Ridgway.....	Subsistence.....	38.62
	East Tennessee Telephone Co.....	Telephone services.....	10.10
	Cumberland Telephone and Telegraph Co.....	do.....	11.00
	do.....	do.....	48.00
	East Tennessee Telephone Co.....	do.....	14.60
	Miami Telephone Co.....	do.....	3.08
	The New York, New Haven and Hartford R. R. Co.....	Passenger transportation.....	9.35
	Dunn & Lemmon.....	Printing bulletins.....	16.00
	J. A. Roebbling's Sons Co.....	Steel wire.....	13.80
	do.....	Telegraph wire.....	18.80
	W. H. Kistler.....	Railroad map.....	1.75
	Campbell Printing Press and Manufacturing Co.....	Shooflys.....	6.00
	The Smith Premier Typewriter Co.....	Repairing typewriter.....	11.00
	A. Fairservice & Co.....	Nails.....	4.00
	Western Newspaper Union.....	Stereotype metal.....	3.50
	E. H. Bochner.....	Repairing typewriter.....	1.00
	L. A. Midgett.....	Wood.....	20.00
	L. F. Willoughby.....	Recasting rollers.....	3.40
	F. M. McKeough.....	do.....	3.00
	Julien P. Friez.....	Handles for thermographs.....	2.10
12	Queen & Co. (Incorporated).....	Anemometer.....	10.00
	John C. Parker.....	Binders.....	9.20
	United States Express Co.....	Express charges.....	48.65
	Woodward & Lothrop.....	Station supplies.....	60.43
	United States Envelope Co.....	Envelopes.....	197.67
	do.....	do.....	20.70
	J. C. Entwistle.....	Engraving rain chart.....	7.50
	Reich & Cowles.....	Repairing instruments.....	28.00
	F. G. Blaisdell.....	Telephone services.....	16.50
	The M. Lindsay Rubber Co.....	Balloons and gum.....	6.38
	Houghton County Electric Light Co.....	Electric light.....	4.38
	G. Deronon.....	Repairing instrument shelter.....	5.00
	T. H. Smith.....	Cleaning motor.....	2.50
	Addressograph Co.....	Type.....	1.73
	C. A. Burton.....	Coal.....	103.36
	Columbia Liquid Air Co.....	Vacuum chamber, etc.....	178.30
	Wm. Nordhoff.....	Repairing clock.....	3.00
	The Wm. E. French Co.....	Rugs.....	21.00
	Patrick Claffey.....	Repairing instrument shelter.....	2.50
	W. H. Upton.....	Cleaning instruments.....	3.00
	Barrett & Brooks Electric Co.....	Wiring tower.....	21.50
	T. T. Beebe.....	River staff gauges.....	24.00
	Robt. Tyler.....	Printing bulletins.....	10.00
	E. A. Barnes.....	Repairing instrument shelter.....	1.00
	C. F. Horner.....	Constructing walk.....	105.00
	Standard Oil Co.....	Oil.....	6.24
	Stoll & Thayer Co.....	Addressograph, etc.....	94.00
	American Type Founders Co.....	Printing supplies.....	7.45
	do.....	Type.....	5.82
	Barelli & Kittridge.....	Repairing printing press.....	3.00
	Joseph Ryan, 2d.....	Placing river gauge.....	1.00
	Maurice Joyce Engraving Co.....	Printing materials.....	62.27
	The Central Ohio Paper Co.....	Paper.....	90.00
	W. S. Jenks.....	Wire.....	3.50
	F. A. Schmidt.....	Measuring sticks.....	90.00
	A. F. Jorse.....	Repairing building.....	25.00
	Carey Machinery Co.....	Tools.....	13.42
	C. E. Johnson & Co.....	Ink.....	152.50
	Edward Mullin.....	Rags.....	14.00
	J. A. Roebbling's Sons Co.....	Copper wire.....	22.41
	James B. Lambie Co.....	Washers and screws.....	1.18
	do.....	Sheet iron.....	1.60



Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
May 12	James B. Lambie Co	Screws and steel	\$1.00
	do	Coal scuttles	8.00
	Rudolph, West & Co	Hatchets and staples	12.34
	Wyckoff, Seamans & Benedict	Repairing typewriter	19.00
	do	do	1.20
	R. Carter Ballantyne	Paper	171.12
	R. P. Andrews & Co. (Incorporated)	do	180.18
	W. B. Moses & Sons	Chairs	11.80
	American Writing Machine Co	Repairing typewriter	17.10
	do	Platen	2.00
	Flint & Walling Manufacturing Co	Pipe and clamps	13.75
	do	Machine bolts	3.75
	H. Baumgarten	Rubber stamps	2.90
	do	do	3.97
13	O. T. Moore	Services	1.80
	W. A. Wise	do	12.00
	San Francisco, substations	Pay roll	9.50
	Vicksburg, substations	do	102.00
	Philadelphia, substations	do	14.14
	St. Louis, substations	do	141.75
	New York, substations	do	35.00
	Catherine Wilson	Office rent	140.82
	do	do	22.71
	Capital Ice Co	Ice	3.85
	Port Huron Light and Power Co	Electric light	1.50
	Baumgardt Publishing Co	Printing bulletins	13.00
	Boston and Maine R. R.	Passenger transportation	1.40
	Atlantic Coast Line R. R.	do	18.96
	Choctaw, Oklahoma and Gulf R. R. Co	do	21.47
	Chicago, Rock Island and Pacific R. R. Co	do	10.75
	Oregon Short Line R. R. Co	do	31.50
	Lehigh Valley R. R. Co	do	9.33
	Denver and Rio Grande R. R. Co	do	59.70
	The Pennsylvania R. R. Co	do	45.95
	Cincinnati, Hamilton and Dayton Rwy	do	9.65
	People's Telephone and Telegraph Co	Telephone services	.45
	Sunset Telephone and Telegraph Co	do	15.00
	Union Trust Co., Detroit	do	6.00
	Alabama and Georgia Long-Distance Telephone Co.	do	6.90
	Elizabeth City and Norfolk Telegraph Co.	Telegraph services	2.18
	Jacksonville and St. Johns Bar Telegraph Line.	do	7.75
	Chicago, Burlington and Quincy R. R. Co.	do	2.61
	Minneapolis, St. Paul and Sault Ste. Marie Rwy. Co.	do	15.21
	Marthas Vineyard Telegraph Co	do	29.52
	Chesterfield Telephone and Telegraph Co.	do	7.50
	C. F. Marvin	Traveling expenses	13.65
	A. H. Thessen	do	13.80
	M. E. Blystone	do	5.00
	C. F. von Herrmann	do	18.85
	A. G. McArdie	do	14.75
	W. S. Belden	do	26.00
	F. Ridgway	do	4.25
	O. L. Fassig	do	25.78
	O. C. Burrows	do	9.80
	H. B. Hersey	do	10.45
	do	do	5.95
	L. H. Murdoch	do	37.35
	E. T. Burns	do	3.85
	T. F. Townsend	do	2.90
	do	Muffin pans	.65
	A. Brand	Station expenses	34.29
	do	Traveling expenses	6.67
	W. M. Fulton	do	6.85
	do	Station expenses	5.25
	S. W. Glenn	Traveling expenses	9.14
	do	Station expenses	2.40
	J. H. Kimball	Subsistence	30.00
	G. R. Oberholzer	Station expenses	3.45
	J. P. Bolton	Telephone services	15.00
	Peter Wood	Station expenses	2.75
	J. W. Schaeffer	do	4.55
	J. J. Kelliher	Drayage	.50
	J. W. Cronk	Telephone services	3.70
	A. McC. Ashley	Subsistence	45.00
	E. H. Bowie	Drayage	13.84
	Union Pacific R. R. Co	Freight charges	3.55
	do	do	2.47

372 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1903. May 13	Burlington and Missouri River R. R. in Nebraska.	Freight charges -----	\$14.45
	do	do	8.12
	do	do	1.76
	do	do	1.04
	do	do	.45
	do	do	1.12
	Norfolk and Washington Steamboat Co.	do	45.07
	Chicago and Alton Rwy. Co.	do	1.02
	Pere Marquette R. R. Co.	do	1.53
	New York, New Haven and Hartford R. R. Co.	do	.90
	Duluth, South Shore and Atlantic Rwy. Co.	do	.96
	do	do	2.32
	Chicago, Rock Island and Pacific Rwy. Co.	do	7.78
	Illinois Central R. R. Co.	do	.27
	do	do	15.10
	do	do	.22
	do	do	2.55
	Missouri Pacific Rwy. Co.	do	3.62
	do	do	8.63
	The Denver and Rio Grande R. R. Co.	do	1.08
	The Oregon Short Line R. R. Co.	do	10.19
	Star Union Line.	do	1.24
	do	do	.45
	do	do	.68
	Pennsylvania R. R. Co.	do	.49
	do	do	.35
	Chicago, Burlington and Quincy R. R. Co.	do	1.71
	do	do	.18
	Norfolk and Western Rwy. Co.	do	.57
	Missouri, Kansas and Texas Rwy. Co.	do	1.60
	Southern Rwy. Co.	do	2.12
	Mineral Range R. R. Co.	do	2.12
	Richmond, Fredericksburg and Potomac R. R. Co.	do	.25
	O'Callahan, Nelson & Co.	do	1.00
	James Hunter	do	.25
	Wm. J. Crawford	Drayage	1.50
	G. M. Chappel	Traveling expenses	2.25
16	Pennsylvania R. R. Co.	Freight charges	1.15
	do	do	.78
	do	do	.81
	Star Union Line.	do	.87
	do	do	1.94
	Pennsylvania R. R. Co.	do	.42
	Missouri Pacific Rwy. Co.	do	15.38
	do	do	21.93
	Central of Georgia Rwy. Co.	do	.61
	Baltimore and Ohio Southwestern R. R. Co.	do	2.40
	Baltimore and Ohio R. R. Co.	do	5.80
	Chicago, Milwaukee and St. Paul Rwy. Co.	do	2.50
	do	do	.85
	do	do	3.50
	Great Northern Rwy. Co.	do	37.79
	Washington Southern Rwy. Co.	do	1.11
	Union Pacific R. R. Co.	do	7.10
	Peninsular and Occidental S. S. Co.	do	3.01
	Steamer Alexander Volta	do	50.00
	J. J. Hagerty	Drayage	.90
	W. B. Moses & Sons	Linoleum	7.67
	do	Window shades	28.08
	Woodward & Lothrop	Station supplies	16.20
	do	Desk	24.50
	R. P. Andrews & Co. (Incorporated)	Paper	30.97
	E. D. Beattie	Printing bulletins	36.00
	H. A. Poole	Horse hire	1.00
	The Smith Premier Typewriter Co.	Repairing typewriter	6.70
	E. J. Shattuck & Co.	Machine oil	.60
	National Iron Works	Repairing instrument shelter	20.00
	Barnhart Bros. & Spindler	Printing material	6.73
	W. T. Jenkins	Binding maps	14.28
	Pacific States Telephone and Telegraph Co.	Repairing telegraph line	17.00
	D. K. Frost	Repairing lanterns	15.00
	Morse & Land	Constructing tramway	248.50
	Oscar Newlin	Drayage	3.00
	C. J. Cain	do	5.50
	C. S. Winthar	do	10.00
	P. Huggins	Cleaning office	20.00
	J. T. Sullivan	Repairing river gauge	5.00

## Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
May 16	The Friedenwald Co.	Paper wrappers	\$720.00
	Manhattan Electrical Supply Co.	Insulator brackets	7.50
	C. D. Page.	Drayage	3.90
	Houghton & Delano.	Seed plates	1.52
	W. R. Huston	Repairing river gauge	10.00
	Southern Printers' Supply Co.	Type	3.89
	A. McC. Ashley	Traveling expenses	9.15
	J. Warren Smith	do	3.45
	A. L. Brockway	do	5.25
	W. S. Palmer	do	3.25
	A. J. Mitchell	do	5.50
	Southern Rwy. Co.	Passenger transportation	20.81
	Illinois Central R. R. Co.	do	16.00
	Ocean Tow Boat Line	Telegraph services	2.00
	Cumberland Telephone and Telegraph Co.	do	85.00
	Rising Sun Telegraph Line	do	2.60
	Alabama, Mississippi and Tennessee Telephone Co.	do	6.50
	Corvallis and Eastern R. R. Co.	do	2.60
	New England Telephone and Telegraph Co.	do	2.60
	Postal Telegraph Cable Co. of Texas	do	2.53
	do	do	3.01
	Cumberland Telephone and Telegraph Co.	do	8.80
	do	do	5.50
	Montgomery substations	Pay roll	28.75
	J. I. Widmeyer	Station supplies	3.70
19	The Atchison, Topeka and Santa Fe Rwy. Co.	Freight charges	102.88
	Oregon Railroad and Navigation Co.	do	8.12
	Chicago, Rock Island and Pacific Rwy. Co.	do	17.33
	Boston and Maine R. R.	do	.70
	Louisville and Nashville R. R.	do	3.44
	do	do	1.71
	Littlefield, Alvord & Co.	Drayage	16.73
	United States Express Co.	Express charges	21.72
	Hoke Engraving Plate Co.	Recoating base plates	287.50
	do	Repairing base plates	95.51
	do	Recoating base plates	37.50
	Woodward & Lothrop	Office furniture	20.00
	R. C. Tannehill	Services	7.00
	G. W. Taylor & Co.	Coal	10.83
	E. P. Howell	Wood	5.50
	Thayer & Jackson Stationery Co.	Semicarbon paper	4.00
	Meteorological Council	Compilation of telegrams	10.95
	F. H. Root	Wiring tower	29.50
	J. C. Widman & Co.	Making weather map	217.00
	Clarke & Courts	Typewriter stand	5.00
	Peter Gray & Sons	Repairing lanterns	10.00
	Zimmermann Hardware and Manufacturing Co.	Blotter bath	.65
	Arkansas Democrat Co.	Clip boards	18.00
	G. F. Muth & Co.	Black pigment	6.00
	R. M. Hays	Mounting halyards	6.00
	G. H. Hornby	Water-cooler stand	2.00
27	J. A. Van Etten	Electric motor	100.00
	J. E. Turton	Crating map frames	35.00
	J. R. Gibson	Installing lanterns	7.50
	C. M. Strong	Traveling expenses	31.65
	T. B. Jennings	Station expenses	7.00
	A. J. Mitchell	Drayage, etc	3.20
	J. H. Smith	Station expenses	4.75
	do	Repairing typewriter	2.50
	O. Parker	Station expenses	13.14
	Delaware, Lackawanna and Western R. R. Co.	Passenger transportation	8.70
	Herman Baumgarten	Rubber stamps	7.44
	H. D. Feast & Co.	Thermometers	2.60
	Neely Electric Construction Supply Co.	Insulators	18.75
	W. S. Jenks	Wire cylinder	8.50
	American Writing Machine Co.	Repairing typewriter	18.70
	Eimer & Amend	Glass tubes	2.00
	A. G. McAdie	Traveling expenses	11.50
	E. J. Hyatt	do	21.30
	E. C. Vose	do	4.75
	A. E. Hackett	do	16.70
	R. G. Smith	Services	3.00
	W. S. Palmer	Station expenses	10.15
	J. E. Turton	Map frames	980.00
	do	Instrument stands	570.00
	J. C. Entwistle	Engraving rain chart	7.50

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
May 27	D. F. Parker	Typewriter ribbons	\$13.50
	Postal Telegraph Cable Co	Telegraph services	47.82
	do	do	41.40
	do	do	104.23
	Northern Montana Telephone Co	do	43.30
	J. T. Harper	do	16.49
	The Ohio River Telephone Co	Telephone services	15.00
	R. P. Andrews & Co. (Incorporated)	Paper	6.30
	H. C. Frankenfield	Traveling expenses	61.70
	Disbursing clerk, Post-Office Department	Post route map of Alaska	.80
	O. L. Fassig	Traveling expenses	200.00
	Flint & Walling Manufacturing Co	Repairing web for flagstaff	5.00
	W. S. Jenks	Iron plate, etc	2.50
	J. A. Roebbling's Sons Co	Copper wire	22.41
	National Electrical Supply Co	Track and laying track	179.00
31	Eberhard Faber	Rubber bands	93.00
	United States Express Co.	Express charges	21.50
	G. F. Muth & Co	Paper	10.00
	The Maurice Joyce Engraving Co	Engraving plates	41.52
	J. Clinton	Cleaning carpet	2.00
	J. R. Hobbs	Team hire	1.50
	W. W. Best	Repairing telegraph line	1.00
	The Addressograph Co	Pawl springs	10.50
	Woodward & Lothrop	India linen	18.75
	M. Du Perow	Tape	14.00
	W. H. Dyer	Sawdust	1.75
	Wyckoff, Seamans & Benedict	Repairing typewriter	14.50
	J. R. Hobbs	Team hire	2.00
	J. E. Turton	Brass springs	12.00
	Peter Gray & Sons	Brass clamps	6.00
	W. B. Moses & Sons	Table	11.50
	R. Carter Ballantyne	Paper	.99
	do	Publication	2.10
	do	Paper	36.75
	E. Morrison Paper Co	do	184.80
	Wagner Typewriter Co.	Typewriter	87.50
	Clark & Davenport	Carpet	102.98
	J. B. Lambie Co. (Incorporated)	Brass tubing, etc	5.60
	Mackali Bros	Oil	2.35
	do	Alcohol, etc	6.50
	J. H. Robinson	Traveling expenses	93.18
	W. F. R. Phillips et al	Pay roll (climatology)	490.78
	Jno. P. Church et al	Pay roll (printing office)	3,084.21
June 3	J. H. Robinson	Traveling expenses	4.00
	W. F. Clark	do	8.00
	E. R. Miller	do	15.85
	J. W. Smith	Drayage	6.15
	The Maurice Joyce Engraving Co.	Photo-engraving	2.00
	R. Carter Ballantyne	Paper	19.60
	Z. D. Gilman	Rubber tubing	5.52
	Thayer & Jackson Stationery Co	Paper	40.00
	E. D. Beattie	Printing C. and C. reports	36.00
	S. H. Quint's Sons	Brass stencils, etc	7.95
	C. B. Alexander	Running levels	4.00
	A. H. Revell & Co.	Office table	7.00
	C. B. Brown & Co.	Stove, etc	21.50
	Patterson Transfer Co	Drayage	1.90
	J. W. Hildreth & Son	Table	10.00
	Standard Oil Co.	Benzine	6.21
	Bendernagel & Co.	Recasting rollers	3.25
	E. D. Beattie	Printing snow bulletins	6.00
	The Central Ohio Paper Co.	Paper	23.70
	F. E. Ware	Services	.50
	W. E. Morgan	Repairing river gauge	9.00
	Colwell & Rogers	Repairing windows	13.50
	Ray Munroe	Services and team hire	10.00
	Pacific Metal Works	Stereotype metal	8.00
	H. Booker & Co.	Gasoline	13.60
	William Anderson	Fitting glass to frames	2.00
	Inland Type Foundry	Type	4.80
	Buxton & Skinner Stationery Co	Ink	.65
	Schaefer & Co.	Planing imposing stone	4.00
	Barnhart Bros. & Spindler	Type	31.15
	Bingham & Runge	Recasting rollers	3.00
	G. H. Baughman	Binding maps	3.00
	H. A. Vincent	Cleaning clocks	2.50
	L. R. Williamson	Bath tub	43.00
	W. B. De Witt	Repairing typewriter	.75
	Morse & Land	Excavating basement, etc	83.50
	John Kitchin, jr., Co	Binding charts	3.20

## Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
June 3	J. H. Wearn & Co.	Instrument stand	\$20.00
	Robt. Tyler	Printing C. and C. bulletins	10.00
	H. J. Bool	Painting instrument shelter	10.00
	J. W. Jordan & Co.	Proof rollers	5.55
	A. R. Schmidt	Wiring tower, etc	47.82
	The Hammatt Contracting Co	Lamps	10.00
	Baumgardt Publishing Co	Printing C. and C. bulletins	9.75
	Hoke Engraving Plate Co	Stereotyping supplies	3.50
	J. G. Piodela	Freight transportation	10.00
	Denver and Rio Grande R. R. Co	Passenger transportation	35.05
	Chicago and Eastern Illinois R. R. Co	do	26.75
	Missouri Pacific Rwy. Co	do	22.75
	C. H. Mallory & Co	do	22.50
	Central of Georgia Rwy. Co	do	31.92
	E. Aigeltinger	Drayage	3.50
	The Pennsylvania R. R. Co	Passenger transportation	36.65
	do	Freight charges	1.28
	Chicago, Rock Island and Pacific Rwy. Co.	do	10.77
	Fremont, Elkhorn and Missouri Valley R. R. Co.	do	3.61
	do	do	1.15
	Star Union Line	do	1.12
	Great Northern Rwy. Co	do	26.64
10	Eberhard Faber	Indexing files	2.00
	J. M. Carson	Services	3.03
	W. M. Hayes	Station expenses	40.30
	W. S. Palmer	do	12.70
	D. H. Day	Drayage	2.53
	T. F. Townsend	Station supplies	3.57
	H. C. Bate	Drayage	2.00
	O. L. Fassig	Station expenses	4.05
	E. B. Richards	do	22.90
	New York substations	Pay roll	35.00
	Northern Pacific Rwy. Co	Passenger transportation	5.60
	Grand Rapids and Indiana Rwy. Co	do	8.60
	Georgia Southern and Florida Rwy. Co	do	24.80
	Atlantic Coast Line R. R. Co	do	5.70
	Pennsylvania Co	do	10.50
	Littlefield, Alvord & Co.	Drayage	12.06
	Ocean Towboat Line	Telegraph services	12.00
	The Central District and Printing Telegraph Co.	do	18.20
	Jacksonville and St. Johns Bar Telegraph Line.	do	7.25
	The Central District and Printing Telegraph Co.	do	11.60
	Lee County Telephone System	do	2.25
	Pacific States Telephone and Telegraph Co.	do	12.20
	Elizabeth City and Norfolk Telegraph Co.	do	4.04
	Rising Sun Telegraph Line	do	2.50
	Pacific States Telephone and Telegraph Co.	do	11.20
	do	do	10.70
	Home Telephone Co.	do	7.80
	Alabama and Georgia Long Distance Telephone Co.	do	7.50
	Morrison Fourmy Directory Co.	City directory	5.00
	C. W. Snow	Repairing tower	26.50
	The Hammatt Contracting Co	Installing lanterns	30.00
	C. C. Ransom	Repairing telegraph line	2.50
	M. W. Crutsinger	Recasting rollers	2.00
	L. Paulce	Map frames	19.00
	Cram, Whitford Sons & Co.	Constructing shed	10.00
	C. E. Rosenbaum Machinery Co.	Leather belting	5.20
	E. C. Sawyer	Relaying limoleum	5.00
	W. W. Clucker	Cleaning rugs	9.95
	W. R. Prowell	Repairing river gauge	34.00
	Hoke Engraving Plate Co	Recoating base plates	62.50
	John Carter & Co	Paper	70.00
	H. Lewark	Horse hire	4.00
	C. V. Webb	Repairing tower, etc	3.00
	F. Wesel Manufacturing Co	Ladle	2.25
	The Smith Premier Typewriter Co	Repairing typewriter	7.10
	American Writing Machine Co.	Typewriter	72.25
	Marais Lumber Co	Installing lamps	88.00
	Millison Office Supply Co	Bookcase	38.50
	J. W. Smith	Traveling expenses	67.95
	J. H. Scott	do	14.50
	A. G. McAdie	do	4.75
	do	do	8.00
	T. S. Outram	do	4.00

## 376 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

*Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.*

## GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
June 10	R. A. Dyke	Traveling expenses	\$8.50
	C. C. Cooper	do	6.62
	C. F. Schneider	do	10.00
	Western Union Telegraph Co.	Telegraph services	14,577.26
	Jno. D. Chapin	Building telegraph line	496.61
	A. Zappone	Traveling expenses	133.05
15	G. W. S. Bell	Painting signboard	16.50
18	W. B. Moses & Sons	Curtains	7.50
	D. F. Parker	Stencil paper	1,062.50
	Julien P. Friez	Anemometer register	40.00
	do	Parts for rain gauges	167.50
	J. H. Kimball	Subsistence	31.00
	P. Nilsson	Repairing telegraph line	17.50
	Z. D. Gilman	Phosphorus	1.72
	do	Rubber tubing	2.37
	do	do	3.70
	Central Union Telephone Co.	Telephone services	33.00
	New York Telephone Co.	do	12.80
	American Writing Machine Co.	Typewriters	144.50
	J. H. Wearn & Co.	Crating instrument stand	3.50
	American Type Founders Co.	Type	5.52
	L. F. Willoughby	do	44.74
	Thos. Somerville & Sons	Sundry station supplies	1.58
	Woodward & Lothrop	Mirror, etc.	6.60
	do	Soap and desk	160.35
	J. A. Warner	Running levels	3.00
	Clark & Davenport	Carpet	66.86
	do	do	32.76
	J. S. Bequest	Painting wind vane, etc.	5.00
	W. J. Kemp	Repairing clock	3.00
	P. E. Jennings	Painting wind vane, etc.	4.00
	T. F. Gessner	Photographs of flood scenes	6.00
	J. B. Anderson	Traveling expenses	3.15
	G. A. Loveland	do	21.75
	E. D. Coberly	do	11.10
	L. M. Pindell	do	3.11
	A. C. Pickels	do	12.10
	J. E. Rankin, guardian Coche heirs	Office rent	54.71
	Electrical Supply and Construction Co.	Electric fan	21.00
	Culhane & Green	File and book case	33.40
	The Globe-Wernicke Co.	Letter filing boxes	6.00
	Standard Furniture Co.	Bookcase	50.00
	Frothingham, Hefferman & Co.	Carpet and rugs	254.80
	Piedmont Electric Co.	Laying cable, etc.	12.00
	Inland Electric Co.	Installing electric light	14.70
	Herman Baumgarten	Duplicating rollers	52.50
	do	Rubber stamps	4.96
	Lamb & Tilden	Pad ink	27.00
	Hartwell & Crone	Constructing board walk	45.00
	G. H. Hornby	Chart frames	9.90
	Rardin's Bus, Hack and Transfer Co.	Draying	6.00
	J. A. Venable	Laying carpet	5.00
	Annesley & Co.	Tracing linen	11.23
	W. Garing	Cleaning furniture	25.00
	Daniel Daly	Recasting rollers	2.70
	A. H. Revell & Co.	Repairing chairs	5.50
	Wm. Curry's Sons	Glass, etc.	13.25
	R. Carter Ballantyne	Pens	22.96
	Thomas Reedy	Chairs and matting	19.50
	Seraphim Blank Book Co.	Binding publications	43.50
	J. H. Thiemeyer	Packing boxes	153.25
	C. E. Johnson & Co.	Ink	225.00
	Geo. Meier & Co.	Gum arabic	2.00
	B. J. Sherry	Repairing telegraph line	3.00
	E. A. Brown	Traveling expenses	19.60
	Northern Alabama Rwy. Co.	Freight charges	.82
	Star Union Line	do	.56
	do	do	7.61
	do	do	2.84
	Denver & Rio Grande R. R. Co.	do	6.57
	do	do	1.08
	do	do	2.69
	Chicago, Rock Island and Pacific Rwy. Co.	do	.40
	California Northwestern Rwy. Co.	do	.39
	Pennsylvania R. R. Co.	do	.96
	do	do	.31
	Pere Marquette R. E. Co.	do	1.61
	New York Central and Hudson River R. R. Co.	do	.45
	do	do	.45

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1903. June 18	Wisconsin Central Rwy. Co	Freight charges	\$0.86
	Illinois Central R. R. Co	do	.72
	do	do	.21
	do	do	.78
	Terre Haute and Indianapolis R. R.	do	.79
	Chicago and Alton Rwy. Co	do	.29
	St. Louis and San Francisco R. R. Co	do	.88
	Norfolk and Southern R. R. Co	do	6.20
	Chicago, Peoria and St. Louis Rwy. Co., of Illinois.	do	.75
	Florida East Coast Rwy	do	39.91
	Union Pacific R. R. Co	do	22.89
	Burlington Route, Missouri lines	do	1.26
	do	do	.55
	C. H. Mallory	do	2.34
	K. J. Cottrell	Drayage	2.00
	do	do	.50
	J. J. Hagerly	do	.90
	Southern Rwy. Co.	Freight charges	6.73
	do	do	2.85
	Fonda, Johnstown and Gloversville R. R. Co.	do	.70
	Washington County R. R. Co	do	2.03
	Philadelphia and Reading Rwy	do	.37
	The Hocking Valley Rwy. Co	do	.51
	W. P. Raley	do	6.65
	St. Louis Transfer Co	Drayage	1.03
	do	do	1.01
	The Atchison, Topeka and Santa Fe Rwy. Co.	Freight charges	4.98
	Erie R. R. Co.	do	1.35
	Minneapolis, St. Paul and Sault Ste. Marie Rwy. Co.	do	1.13
	Virginia and Truckee R. R. Co	do	.65
	Cleveland, Cincinnati, Chicago and St. Louis Rwy. Co.	do	.67
	do	do	4.00
	do	Passenger transportation	22.55
	Lehigh Valley R. R.	do	18.66
	Chicago and Northwestern Rwy. Co	do	20.27
	do	do	20.80
	Coston Signal Co. (Incorporated)	Freight charges	30.90
	U. S. Envelope Co	Answering signals	9.42
	Disbursing clerk, Post-Office Department	Envelopes	52.00
	E. H. Bowie	Post-route maps	15.85
	Western Union Telegraph Co	Traveling expenses	13,568.12
	Cleveland Abbe	Telegraph services	3.30
	C. F. Marvin	Traveling expenses	6.20
	A. H. Thiessen	do	3.30
	A. Zappone	do	6.15
	Western Union Telegraph Co.	Telegraph services	105.95
	do	do	103.25
	J. C. Parker	Pocket maps	10.00
	E. D. Emigh	Drayage	1.25
	Frank Ridgway	Station expenses	7.10
	F. Z. Gosewisch	Drayage	.25
	E. H. Nimmo	Washing towels	1.50
	L. C. Cover	Station expenses	2.50
	G. A. Loveland	do	5.24
	J. J. Gray	Drayage	1.80
	C. M. Strong	do	14.85
	W. S. Palmer	Repairing clock, etc.	6.00
	Catherine Ryan	Cleaning office	10.00
	Mount Washington Rwy. Co	Office rent	5.00
	M. W. Cunningham	do	36.00
	J. L. Smith	do	20.00
	G. S. Waite	do	72.96
	J. W. Chester Co	Repairing armature	6.85
	C. W. Donaldson	Constructing river gauge	9.00
	A. H. Sweet	Cleaning clock	3.00
	Yates & Co	Oil	2.45
	J. K. Hand	Anemometer clock	1.50
	Phoenix Light and Fuel Co	Electric fan	15.00
	B. M. Lee	Running levels	5.00
	Green Bros	Hanging shades	1.80
	C. F. Perrin	Removing storm-warning lan- terns.	5.00
	W. H. Callister	Taking down wind vane	4.00
	J. A. Tennent	Erecting instrument platform	57.90
	The State Journal Co	Printing climate and crop bul- letins.	22.75

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1903, June 30	Union Trust Co	Telephone services	\$3.00
	Harn Rotary Printing Machine Co	Printing machines	500.00
	National Electrical Supply Co	Leather belting, etc	5.06
	The A. B. Whiting Paint and Glass Co	Glass	17.73
	D. P. Haskitt	Placing shelter	1.50
	Merchant & Co	Stereotype metal	7.25
	A. L. Whitaker	Oil and water	5.25
	J. B. Taylor	Painting river gauge	5.00
	J. A. Melton	Forms case	42.50
	W. H. Back	Repairing river gauge	5.00
	Cambridge Scientific Instrument Co. (Lim- ited).	Instruments	185.01
	C. J. Cain	Services	10.00
	I. W. Fawcett	River map	6.00
	J. I. Holcomb Manufacturing Co	Dusters	78.00
	W. B. Moses & Sons	Chairs and bookcase	33.15
	Pacific States Telephone Co	Telephone services	10.00
	Corvallis and Eastern R. R. Co	do	2.50
	Minneapolis, St. Paul and Sault Ste. Marie Rwy. Co.	do	25.38
	The Bell Telephone Co. of Buffalo	do	4.40
	Alabama, Mississippi and Tennessee Tele- phone Co.	do	6.25
	Home Telephone Co.	do	7.50
	Chicago, Burlington and Quincy R. R. Co	do	2.60
	Jacksonville and St. Johns Bar Telegraph Line.	do	6.25
	Marthas Vineyard Telegraph Co.	do	34.68
	International Ocean Telegraph Co.	do	153.34
	Postal Telegraph Cable Co. of Texas	do	48.50
	Atlantic Coast Line R. R. Co	Freight charges	1.42
	Louisville and Nashville R. R. Co	do	5.07
	Oregon R. R. and Navigation Co	do	1.50
	Pennsylvania R. R. Co	do	.42
	Baltimore and Ohio R. R. Co	do	29.76
	Littlefield, Alvord & Co.	Drayage	20.73
	Wm. J. Crawford	do	3.00
	do	do	.75
	St. Louis Transfer Co	do	1.80
	Hugh Reilly	Paint	16.25
	J. C. Parker	Adding machine	5.00
	Clark & Davenport	Carpet	27.59
	W. B. Moses & Sons	Wardrobe	9.60
	R. P. Andrews & Co. (Incorporated)	Diagraph pencils	132.30
	A. L. Whitaker	Moving instruments, etc	63.00
	Edward Mullin	Rags	14.00
	T. Crimmins	Canvas top for launch	16.50
	The New York Maritime Register	Subscription	35.00
	J. C. Entwistle	Engraving rain chart	7.50
	Crosby Brothers	Carpet	140.28
	Standard Oil Co	Gasoline	20.35
	H. L. Hall	Typewriter desk	25.00
	Clarke & Courts	Binding maps	7.50
	L. H. Vogel	Handle to casting box	1.00
	Western Fuel Co	Coal	14.00
	A. M. Ferguson	Removing instruments	120.00
	Valley Paper Co.	Paper	140.00
	do	do	9.80
	Ridson Willard Electric Co.	Iron conduit	15.00
	The Arkansas Democrat Co	Rollers	4.25
	W. L. Clark	Repairing typewriter	4.00
	C. Sutter	Barometer box	1.00
	Wm. Nordhoff	Repairing clock	2.00
	A. J. Knight	Electric current	2.75
	G. M. Thomas	Repairing typewriter	5.50
	Eimer & Amend	Apparatus for aerial observa- tions.	44.60
	National Automatic Fire Alarm Co. of Louisiana.	Electric fans	39.00
	Ida P. Hatch	Pitcher and basin	1.75
	W. B. Gregory	Instructions holders	82.50
	J. W. Graham & Co	Platen, etc	4.55
	T. Schallere	Painting instrument shelter	9.00
	P. D. Clack	Drayage	.50
	Gust Forsberg	Repairing furniture	7.50
	W. P. Fuller & Co.	Oil brushes, etc	10.50
	National Electrical Supply Co.	Leather belt	17.10
	Hartwell & Crone	Moving office, etc	14.00
	Chicago, Burlington and Quincy R. R. Co.	Telegraph services	2.50
	Marthas Vineyard Telegraph Co.	do	23.64



## Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1903. June 30	Alabama and Georgia Long Distance Telephone Co.	Telephone services	\$7.50
	Elizabeth City and Norfolk Telegraph Co.	Telegraph services	1.52
	New England Telephone and Telegraph Co.	do	2.50
	Postal Telegraph Cable Co.	do	479.65
	do	do	75.63
	do	do	38.80
	International Ocean Telegraph Co.	do	148.06
	Washington Southern Rwy. Co.	Passenger transportation	41.55
	Norfolk and Washington Steamboat Co.	do	5.00
	The Pennsylvania R. R. Co.	do	61.28
	Galveston, Houston and Northern Rwy. Co.	do	12.30
	Baltimore and Ohio R. R.	do	4.57
	New York Central and Hudson River R. R. Co.	do	14.55
	Seaboard Air Line Rwy.	do	48.25
	Chicago and Northwestern Rwy. Co.	do	78.23
	Great Northwestern Telegraph Co. of Canada.	Telegraph services	292.18
	E. C. Vose	Traveling expenses	5.25
	A. L. Brockway	do	8.75
	W. M. Wilson	do	8.87
	E. R. Miller	do	7.50
	A. P. Hamlin	do	8.55
	W. H. Treat	do	9.20
	J. R. Weeks	Drayage	1.50
	J. H. Robinson	Drayage, etc.	1.45
	Chas. Stewart	Station expenses	1.80
	W. S. Currier	Drayage	.75
	L. M. Dey	do	.50
	Chicago, St. Paul, Minneapolis and Omaha Rwy. Co.	Freight charges	22.88
	do	do	29.15
	Pennsylvania R. R. Co.	do	.67
	do	do	2.45
	do	do	.77
	Chicago, Rock Island and Pacific Rwy. Co.	do	3.49
	Chicago and Northwestern Rwy. Co.	do	9.75
	Minneapolis, St. Paul and Sault Ste. Marie Rwy. Co.	do	1.09
	Fonda, Johnstown and Gloversville R. R. Co.	do	.60
	West Virginia Central and Pittsburg Rwy. Co.	do	.58
	Minneapolis and St. Louis R. R. Co.	do	.48
	Pepe Marquette R. R. Co.	do	.44
	Pittsburg, Cincinnati, Chicago and St. Louis Rwy. Co.	do	.57
	Boston and Albany R. R.	do	1.88
	Nashville, Chattanooga and St. Louis Rwy. Co.	do	.73
	Mohawk and Malone R. R.	do	.95
	Eastern Steamship Co.	do	1.45
	Norfolk and Washington Steamboat Co.	do	4.03
	Gulf, Colorado and Santa Fe Rwy. Co.	do	1.94
	Atlantic Coast Line R. R. Co.	do	1.75
	Chicago, St. Paul, Minneapolis and Omaha Rwy. Co.	do	7.11
	E. Aigeltinger	Drayage	.63
	Delaware & Hudson Co.	Freight charges	.90
	W. F. R. Phillips et al.	Pay roll (climatology)	479.80
	Jno. P. Church et al.	Pay roll (printing office)	3,127.20
	Total fourth quarter		101,204.59
	<i>Supplemental.</i>		
July 9	Joseph Gussenhoven	Office rent	90.00
	Fremont Lumber Co.	do	87.75
	Paine Bros.	do	73.95
	Pacific Club	do	65.75
	Yale Hicks, agent	do	120.00
	Estate of S. Marks & Co.	do	84.75
	Chicago Auditorium Association	do	437.50
	Peter Sonna	do	120.00
	B. M. Jacobs	do	30.00
	City of Columbia, S. C.	do	90.00
	Conrad National Bank	do	67.50
	William Pollman	do	112.50
	Walla Walla Lodge, No. 56, I. O. O. F.	do	84.87

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd

## GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
	<i>Supplemental—Continued.</i>		
1903.			
July 9	Prudential Building Co .....	Office rent .....	\$170.00
	T. B. Catron .....	do .....	105.00
	T. E. Warren Mercantile Co .....	do .....	129.40
	Edgar Harding .....	do .....	85.00
	Orson Adams, jr .....	do .....	120.00
	Utah & Pacific R. R. Co .....	do .....	40.00
	The Gamble-Desmond Co .....	do .....	96.00
	Dent & Butler .....	do .....	105.00
	C. M. Beeson .....	do .....	88.91
	Adam Geiger .....	do .....	60.00
	Tyree & Wilkins, agents .....	do .....	67.50
	Citizens' Bank of Norfolk, Va .....	do .....	131.25
	Jacob Crocker .....	do .....	75.00
	Taylor National Bank .....	do .....	143.75
	J. W. Hollenbeck .....	Repairs at storm-warning station.	20.00
	The Holtzer-Cabot Electric Co .....	Blower outfit .....	151.50
	Cooper Bros .....	Laying cable .....	12.50
	L. Cohen & Co .....	Hand brushes, etc .....	4.10
	H. C. Beeson .....	Marine dictionaries .....	50.00
	The Globe-Wernicke Co .....	Desk and chair .....	45.50
	Paul A. F. Walter, postmaster .....	Rent of post-office box .....	1.50
	C. C. Watson .....	Repairing clock .....	1.50
	W. Garing .....	Laying carpet .....	5.00
	Burrow, Martin & Co .....	Paint .....	21.60
	F. L. Knight .....	Washing towels .....	1.50
	Joe Campbell .....	do .....	2.25
	Munger's Laundry .....	do .....	3.00
	Lone Star Ice Co .....	Ice .....	4.50
	Grant Rivenburg .....	do .....	2.27
	The Steffen & Bretch Ice Co .....	do .....	2.20
	W. Huston .....	Services .....	9.20
	C. A. Blunner .....	do .....	15.00
	M. T. Reed .....	do .....	20.00
	J. A. Venable .....	do .....	15.00
	F. H. Brandenburg .....	Benzine, etc .....	2.35
	Charlevoix Electric Light Plant .....	Electric light .....	4.50
	City of South Haven .....	do .....	12.50
	Muskegon Traction and Light Co .....	do .....	15.00
	The Apalachicola Electric Light and Telephone Co .....	do .....	18.75
	Benton Harbor and St. Joseph Rwy. and Light Co .....	do .....	12.50
	Red Wing Gas and Electric Co .....	do .....	7.50
	Frankfort Electric Light Co .....	do .....	12.50
	J. S. Stearns .....	do .....	10.00
	J. F. Byrne .....	Electric current .....	12.50
	W. S. Rowe .....	Telephone services .....	3.00
	E. V. Hauser .....	do .....	7.50
	Kalispell Water and Electric Co .....	do .....	12.00
	Southern Bell Telephone and Telegraph Co .....	do .....	12.00
	Missouri, Kansas and Texas Rwy. Co .....	Passenger transportation .....	25.10
	Great Northern Rwy. Co .....	do .....	59.32
	Oregon Short Line R. R. Co .....	do .....	31.35
	G. R. Oberholzer .....	Station expenses .....	1.85
	A. Zappone .....	Traveling expenses .....	5.50
	C. G. Bigham .....	do .....	7.00
	F. H. Bigelow .....	do .....	2.75
	H. H. Kimball .....	do .....	2.75
	A. L. Cook .....	Office rent .....	90.00
	T. M. Jeffris & Co .....	do .....	125.00
	G. L. Lovett .....	do .....	105.00
	Dexter Horton .....	do .....	120.00
	C. H. Green & Co .....	Ice .....	2.40
	Pacific States Telephone and Telegraph Co .....	Telephone services .....	9.00
	The San Antonio Telephone Co .....	do .....	7.50
	Southern Telegraph and Telephone Co .....	do .....	7.50
	Sunset Telephone and Telegraph Co .....	do .....	6.00
	Paine Bros .....	Electric light .....	7.50
	Eureka Lighting Co .....	do .....	9.60
	San Antonio Gas and Electric Co .....	do .....	6.25
	Lincoln Traction Co .....	Electric current .....	13.50
	W. S. Bricker .....	do .....	12.50
	F. Golart, jr .....	Team hire .....	2.00
	B. J. Sherry .....	Repairing telegraph line .....	6.40
	National Lead Co .....	Stereotyping metal .....	5.27
	American Writing Machine Co .....	Repairing typewriter .....	2.60
	J. H. Richmond .....	Constructing river gauge .....	12.50

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## GENERAL EXPENSES, WEATHER BUREAU—Continued,

Date.	Name.	Nature of payment.	Total.
<i>Supplemental—Continued.</i>			
1903, July 9	G. J. Chambers .....	Carpet .....	\$115.00
	William Senter Co .....	Repairing clock .....	3.00
	E. A. Little .....	Cleaning carpet .....	1.65
	Norfolk and Southern Ry. Co .....	Passenger transportation .....	2.90
	Pennsylvania R. R. Co .....	Freight charges .....	.49
	do .....	do .....	.74
	do .....	do .....	.38
	do .....	do .....	.35
	Southern Rwy. Co .....	do .....	1.55
	do .....	do .....	4.90
	do .....	do .....	3.41
	do .....	do .....	5.29
	do .....	do .....	20.15
	Chicago, Burlington and Quincy Rwy. Co. ....	do .....	1.58
	do .....	do .....	4.32
	do .....	do .....	.84
	do .....	do .....	1.77
	do .....	do .....	.40
	Great Northern Rwy. Co .....	do .....	1.27
	do .....	do .....	23.49
	do .....	do .....	9.32
	Burlington Route, Missouri lines .....	do .....	.54
	do .....	do .....	2.85
	Lehigh Valley R. R. Co .....	do .....	.45
	do .....	do .....	1.80
	Oregon Short Line R. R. Co .....	do .....	34.30
	do .....	do .....	3.01
	Southern Rwy. Co .....	do .....	3.86
	do .....	do .....	16.43
	Illinois Central R. R. Co .....	do .....	.94
	do .....	do .....	.27
	do .....	do .....	.72
	do .....	do .....	.64
	Alabama and Vicksburg Rwy. Co .....	do .....	.38
	do .....	do .....	1.39
	Norfolk and Western Rwy. Co .....	do .....	3.24
	do .....	do .....	.54
	Louisville and Nashville R. R. Co .....	do .....	.34
	do .....	do .....	9.89
	Northern Pacific Rwy. Co .....	do .....	.45
	do .....	do .....	.87
	Chicago, St. Paul, Minneapolis and Omaha Rwy. Co. ....	do .....	14.45
	do .....	do .....	8.54
	Minneapolis, St. Paul and Sault Ste. Marie Rwy. Co. ....	do .....	.50
	Nashville, Chattanooga and St. Louis Rwy. Co. ....	do .....	9.46
	Wabash R. R. Co .....	do .....	1.89
	Chesapeake and Ohio Rwy. Co .....	do .....	2.53
	Star Union Line .....	do .....	1.65
	Michigan Central R. R. Co .....	do .....	1.09
	Lake Shore and Michigan Southern Rwy. Co. ....	do .....	.49
	Rome, Watertown and Ogdensburg R. R. ....	do .....	.85
	Boston and Maine R. R. ....	do .....	1.40
	Atlantic Coast Line R. R. Co .....	do .....	1.43
	Cleveland, Cincinnati, Chicago and St. Louis Rwy. Co. ....	do .....	3.18
	Louisville and Nashville R. R. ....	do .....	1.09
	Peninsular and Occidental Steamship Co. ....	do .....	134.76
	Cumberland Valley R. R. Co .....	do .....	.31
	Burnside and Burksville Transportation Co. ....	do .....	1.17
	Town of New Shoreham, R. I. ....	do .....	1.76
	The Atchison, Topeka and Santa Fe Rwy. Co. ....	do .....	16.66
	Pauley & Jones Stage Co .....	do .....	2.00
	Southern Bell Telephone and Telegraph Co. ....	Telephone services .....	3.00
	do .....	do .....	15.00
	Missouri and Kansas Telephone Co .....	do .....	18.00
	Southern States Telephone Co .....	do .....	9.50
	Central Union Telephone Co .....	do .....	10.50
	Jacksonville Telephone Co .....	do .....	7.50
	Missouri and Kansas Telephone Co .....	do .....	9.00
	Southern Bell Telephone Co .....	do .....	15.00
	Maryland Telephone and Telegraph Co. ....	do .....	14.50
	Southern Bell Telephone and Telegraph Co. ....	do .....	24.00
	The Bell Telephone Co. of Philadelphia .....	do .....	30.00
	Telephone Co. of South Jersey .....	do .....	5.00
	The Southwestern Telegraph and Tele- phone Co. ....	do .....	15.00

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date	Name.	Nature of payment.	Total.
	<i>Supplemental—Continued.</i>		
1903.			
July 10	Southern Bell Telephone and Telegraph Co.	Telephone services	89.00
	New Telephone Co.	do	10.00
	The Inland Telephone and Telegraph Co.	do	9.00
	The Bell Telephone Co. of Buffalo	do	15.00
	Pacific States Telephone and Telegraph Co.	do	18.00
	Rocky Mountain Bell Telephone Co.	do	9.00
	The Colorado Telephone Co.	do	12.00
	Citizens' Telephone Co. of Muskegon	do	6.00
	Southern Bell Telephone and Telegraph Co.	do	12.00
	do	do	9.00
	Bell Telephone Co. of Buffalo	do	26.50
	New England Telephone and Telegraph Co.	do	14.25
	The Southern New England Telephone Co.	do	27.00
	Pacific States Telephone and Telegraph Co.	do	9.00
	Central Union Telephone Co.	do	15.00
	Southern Bell Telephone and Telegraph Co.	do	15.00
	do	do	12.00
	New York Telephone Co.	do	60.00
	Pennsylvania Telephone Co.	do	18.00
	The Chicago Telephone Co.	do	57.50
	Peninsular Telephone Co.	do	8.25
	Rocky Mountain Bell Telephone Co.	do	8.25
	Dubuque Telephone Co.	do	18.00
	Columbus Citizens' Telephone Co.	do	10.00
	Rocky Mountain Bell Telephone Co.	do	15.00
	Mississippi Valley Telephone Co. of Iowa	do	6.00
	Lynchburg Telephone Co.	do	3.00
	Independent Telephone Co.	do	7.00
	The City and Suburban Telegraph Association.	do	21.00
	Southern Bell Telephone and Telegraph Co.	do	30.00
	Union Trust Co., receivers of Michigan Telephone Co.	do	28.50
	Nebraska Telephone Co.	do	16.00
	Idaho Independent Telephone Co. (Limited).	do	4.50
	The Gordon Telephone Co.	do	9.00
	Chicago Telephone Co.	do	15.00
	J. J. Gray	Drayage, etc.	5.18
	Chesapeake and Ohio Rwy. Co.	Freight charges	8.11
	Chicago, St. Paul, Minneapolis and Omaha Rwy. Co.	do	26.85
	F. J. Walz	Traveling expenses	115.62
	E. R. Demain	Station expenses	2.70
	Thos. Gibson	Post-office box rent	3.00
	L. H. Murdoch	Traveling expenses	27.90
	D. P. McCallum	do	18.30
	Los Angeles Trust Co.	Office rent	195.00
	A. W. Kennie	do	75.00
	Walter Talbot	do	120.00
	Consolidated Improvement Co.	do	165.00
	J. L. Connell	do	118.75
	J. R. Hunter, agent	do	279.00
	Asheville Library Association	do	32.26
	Henry Bolton	do	52.84
	Ed. S. Hughes & Co.	do	95.45
	American Surety Co.	do	625.00
	D. B. Dodge	do	59.99
	Chamber of Commerce Building Co.	do	93.21
	W. H. Dann	do	72.00
	J. B. Smith	do	75.00
	Board of county commissioners, Humboldt County, Nev.	do	67.00
	The Hayden Co.	do	300.00
	City of Palestine, Tex.	do	78.50
	A. J. Knight	do	82.19
	C. J. Buell	do	94.59
	Dyal Upchurch Investment Co.	do	187.50
	Improvement Loan and Trust Co.	do	150.00
	Margaret Parmentier	do	74.25
	First National Bank	do	126.00
	O. I. Taylor	do	57.50
	T. D. Miracle	do	147.00
	J. E. Dooly	do	150.00
	K. F. Coke	do	60.00

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
<i>Supplemental—Continued.</i>			
1903.			
July 15	Bank of Wytheville	Office rent	\$100.00
	H. H. Taylor, agent, Mills Building	do	222.50
	F. L. Keating	do	90.00
	Albert Marty	do	105.00
	Society for Savings	do	285.00
	J. K. Porter	do	150.00
	Emily Culbertson	do	127.50
	Union Trust Building Co. (Limited)	do	167.50
	Indianapolis Gas Co.	do	256.25
	P. A. Willis	Rent of roof for flagstaff	10.00
	Washburn Electric Light and Power Co.	Electric light	10.00
	Alpena Electric Light Co.	do	5.00
	Lake City Electric Railway Co.	do	9.00
	Improvement Loan and Trust Co.	do	8.75
	City of Lake City	do	7.50
	Agricultural and Mechanical College of Kentucky	do	4.00
	Sheboygan Light, Power, and Railway Co.	do	7.50
	Georgetown Electric Co.	do	8.75
	Charleston Consolidated Gas and Electric Co.	do	8.75
	do	do	8.75
	Ashland Light, Power, and Street Railway Co.	do	17.50
	Sands Electric Light Co.	do	7.50
	Tampa Electric Co.	do	5.00
	Green Bay Light and Power Co.	do	6.25
	Grand Haven City Electric Light Co.	do	9.00
	O. C. G. Urban	do	4.00
	Annapolis Gas and Electric Light Co.	do	9.00
	Menominee Electric Light, Railway, and Power Co.	do	3.50
	Marais Lumber Co.	do	6.00
	Consolidated Electric Light Co.	do	37.50
	E. A. Hughes	do	9.00
	Cumberland Electric Light and Power Co.	Electric current	15.00
	Max Levy	do	30.00
	The Milwaukee Electric Railway and Light Co.	do	7.52
	The Raleigh Electric Co.	do	4.50
	Statesman Printing Co.	Printing bulletins	101.50
	Williams & Wilkins Co.	do	22.50
	The R. L. Bryan Co.	do	52.00
	Arizona Publishing Co.	do	96.00
	Naegele & Co.	do	29.50
	E. A. Slack	do	27.00
	E. D. Beattie	do	36.00
	John Longstaff	do	42.00
	Dunn & Lemmon	do	30.00
	J. E. Garrett	Washing towels	.75
	C. A. Johnson	do	3.00
	A. Klein	do	2.00
	M. T. Hayden	do	3.00
	Omaha Towel Co.	do	3.00
	Mary Fantleroy	do	1.50
	L. Wilson	do	1.50
	Baltimore Towel Supply Co.	do	2.25
	Jacksonville Towel Co.	do	3.00
	J. F. Beck	do	3.00
	The Silver State Towel Supply Co.	Towel service	2.25
	The American Toilet Supply Co.	do	2.25
	New England Telephone and Telegraph Co.	Telephone services	8.25
	Cumberland Telephone and Telegraph Co.	do	21.00
	Interstate Telephone and Telegraph Co.	do	4.50
	R. L. Lewis	do	24.00
	Cumberland Telephone and Telegraph Co.	do	16.50
	Consolidated Telephone Co.	do	5.00
	Wisconsin Telephone Co.	do	28.69
	Central New York Telephone and Telegraph Co.	do	20.00
	The Northwestern Telephone Exchange Co.	do	18.00
	Cumberland Telephone and Telegraph Co.	do	19.50
	The Louisville Home Telephone Co.	do	12.00
	Southern Bell Telephone and Telegraph Co.	do	7.50
	Duluth Telephone Co.	do	12.50
	York State Telephone Co.	do	7.50
	New York and Pennsylvania Telephone and Telegraph Co.	do	7.50

## 384 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
	<i>Supplemental—Continued.</i>		
1903, July 15	Nebraska Telephone Co	Telephone services	\$22.00
	The Diamond State Telephone Co	do	6.25
	Peoples' Telephone and Telegraph Co	do	7.50
	East Tennessee Telephone Co	do	9.00
	Missouri and Kansas Telephone Co	do	6.00
	Mutual Telephone Co	do	11.25
	Columbia Telephone Co	do	6.00
	Sunset Telephone and Telegraph Co	do	15.00
	Capital Telephone and Telegraph Co	do	4.50
	The Consolidated Telephone Cos. of Penn- sylvania	do	9.00
	Southern Bell Telephone and Telegraph Co.	do	4.50
	Union Trust Co., receiver Michigan Tele- phone Co.	do	42.00
	do	do	113.33
	Wisconsin Telephone Co	do	12.00
	The Colorado Telephone Co	do	28.50
	Pacific States Telephone and Telegraph Co.	do	9.00
	Southern Bell Telephone and Telegraph Co.	do	21.50
	Cumberland Telephone and Telegraph Co.	do	10.00
	Larned Telephone Co	do	3.00
	Cumberland Telephone and Telegraph Co.	do	12.30
	Amarillo Telephone Exchange	do	4.50
	Black Hills Telegraph and Telephone Co	do	21.00
	East Tennessee Telephone Co	do	12.00
	The Colorado Telephone Co	do	13.50
	Zenith City Telephone Co	do	7.50
	E. S. Allen	do	7.50
	East Tennessee Telephone Co	do	9.00
	Fayette Home Telephone Co	do	4.50
	Iowa Telephone Co	do	15.00
	Palestine Telephone Co	do	9.00
	Wytheville Telephone Co	do	3.75
	Sunset Telephone and Telegraph Co	do	15.00
	Asheville Telephone Co	do	7.00
	Missouri and Kansas Telephone Co	do	30.00
	Hudson River Telephone Co	do	16.50
	Sunset Telephone and Telegraph Co	do	6.00
	Chesapeake and Potomac Telephone Co	do	31.25
	Santa Fe Electric Telephone Co	do	6.00
	Pacific States Telephone and Telegraph Co.	do	30.00
	The Cleveland Telephone Co	do	30.00
	Duluth General Electric Co	Electric current	12.24
	Fort Smith Light and Traction Co	do	3.20
	Electric Lighting Co. of Mobile	do	.75
	Minneapolis General Electric Co	do	15.00
	Escanaba Municipal Lighting Plants	Electric light	5.00
	Electric Light Co., Manitowoc, Wis	do	9.70
	Rockingham County Light and Power Co.	do	12.33
	Vicksburg Herald	Printing bulletins	45.50
	Summers Printing Co	do	19.50
	The Times-Journal Publishing Co	do	18.00
	Buffalo Gas Co.	Gas	3.90
	Standard Gas and Electric Co	do	12.45
	New Orleans Lighting Co., lessee	do	13.87
	People's Gaslight and Coke Co	do	11.20
	Fowler Manufacturing Co. (Limited)	Towel service	3.00
	Nashville Laundry Co	do	1.80
	W. G. Harwood	Ice	2.05
	Johnson & Johnson	do	2.05
	Clem Jaycocks	do	9.10
	American Ice Co	do	3.10
	T. B. Satterwhite	do	1.30
	The Consumers Co	do	2.50
	Geo. A. von Blucher	do	4.55
	B. J. Sherry	do	2.80
	Ithaca Ice Co	do	1.75
	The Union Ice Co	do	9.10
	The Farmers' National Bank of Fresno	Office rent	94.50
	J. G. Hatch	do	64.75
	Northwestern Mutual Life Insurance Co., of Milwaukee, Wis.	do	125.00
	Joseph Bryan	do	150.00
	David Cuthbertson	Station expenses	8.40
	L. A. Denson	Drayage	1.35
	C. F. von Herrmann	Drayage, etc.	22.60
	G. N. Wilson	Drayage	1.00
	R. M. Hardinge	Drayage, etc.	1.00
	E. L. Renoe	Telephone rent, etc	3.75

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
<i>Supplemental—Continued.</i>			
1903. July 15	Wm. G. Burns .....	Station expenses .....	\$10.05
	Washington Ellis .....	Services .....	9.00
	Alpena, substations .....	Pay roll .....	105.00
	Macon, substations .....	do .....	39.00
	L. J. Hoffman & Co. ....	Repairing gas burners .....	6.30
	L. H. Jones & Co. ....	Recasting rollers .....	2.70
	C. B. Little .....	Water supply .....	11.00
	Louis Hendricks .....	Repairing telegraph line .....	10.00
	R. J. M. Only .....	Repairing river gauge .....	3.00
	R. E. Wager .....	Removing furniture, etc. ....	90.00
	Chas. D. Page .....	Drayage .....	1.40
	Jos. Fredericks & Co. ....	Bedstead, mattress, etc. ....	40.00
	Gamble & Ludwig .....	Gasoline .....	.70
	L. Rogers .....	Horse hire .....	30.00
	Tarbett Phenister Co. ....	Flags, pulleys, and shaft .....	7.90
	Proescher & Sherwood .....	Repairing building, etc. ....	400.00
	Western Union Telegraph Co. ....	Repairing telegraph line .....	14.35
	Chas. Risdon Electric Co. ....	Electric desk fans .....	30.00
	Pacific States Telephone and Telegraph Co. ....	Rent of underground conduit ..	35.10
	Wm. McLaughlin .....	Drayage .....	6.25
	Mack Wellman .....	Painting river gauge .....	7.00
	H. F. Burdick .....	Packing and moving instru- ments and furniture. ....	85.00
	Werner Bros .....	Oil .....	2.25
	Marquette Hardware Co. ....	White lead .....	1.00
	J. T. Keyle .....	Painting instrument shelter .....	1.50
	Norfolk Farm Supply Co. ....	Rubber hose .....	13.50
	Maddrey & Kenyon Furniture Co. ....	Bookcase .....	12.50
	G. B. Wilson & Co. ....	Repairing river gauge .....	10.50
	J. A. Appler .....	City directory, San Antonio .....	2.50
	Oren Hooper's Sons .....	Carpet .....	51.25
	Robert Little .....	Drayage .....	2.00
	Phoenix Light and Fuel Co. ....	Repairing electric fan .....	2.50
	N. D. Winslow .....	Gasoline .....	1.50
	Shobid Hunter .....	Constructing chimney .....	8.00
	A. M. Ferguson .....	Constructing concrete walk .....	200.00
	Bradner, Smith & Co. ....	Paper .....	19.20
	T. Kiel .....	Packing furniture .....	9.00
	Drysdale & Hall .....	Stereotype headings .....	3.00
	Board of Public Works, Sault Ste. Marie, Mich. ....	Water supply .....	3.50
	J. S. Stahl .....	Repairing typewriter .....	4.00
	Consolidated Gas Co. ....	Gas .....	.77
	W. B. Lount .....	Ice .....	6.80
	The Huron Ice Co. ....	do .....	3.50
	Consumers Ice Co. ....	do .....	4.48
	C. G. Le Clair .....	do .....	1.00
	Oklahoma Ice and Cold Storage Co. ....	do .....	5.25
	Johnson & Ramdohr .....	do .....	3.00
	Board of Fire and Water Commissioners .....	Electric light .....	5.00
	Bennett Printing House .....	Printing bulletins .....	52.00
	S. S. Bassler .....	Adjusting typewriter .....	.75
	J. C. Hayden .....	Linoleum varnish .....	.90
	Al. Brand .....	Electric light and repairs to building. ....	21.80
	H. F. Alps .....	Drayage, laying carpet, etc. ....	17.00
	S. W. Glenn .....	Drayage, etc. ....	3.55
	Albert Ashenberger .....	Drayage .....	.45
	F. P. Chaffee .....	Repairing clock, etc. ....	2.50
	Geo. Hass Hagen .....	Rent of post-office box .....	.75
	L. N. Jesunofsky .....	Drayage .....	.75
	J. N. Ryker .....	do .....	3.75
	J. T. Myers .....	Services .....	15.00
	J. L. Welch .....	do .....	3.80
	Chicago, St. Paul, Minneapolis and Omaha Rwy. Co. ....	Freight charges .....	41.81
	Chicago, Milwaukee and St. Paul Rwy. Co. ....	do .....	5.78
20	T. F. Townsend .....	Traveling expenses .....	.50
	G. W. Felger .....	do .....	9.10
	W. M. Fulton .....	Station expenses .....	14.05
	J. J. Kelliher .....	Drayage .....	1.00
	E. A. Beals .....	do .....	5.25
	H. B. Hersey .....	do .....	7.30
	J. M. Sherier .....	Station expenses .....	1.95
	J. E. Cotter .....	Services .....	15.75
	R. J. McMaster .....	do .....	15.00
	Chicago, substations .....	Pay roll .....	343.20
	Norfolk, substations .....	do .....	120.00

386 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
<i>Supplemental—Continued.</i>			
1903. July 20	New Haven, substations .....	Pay roll .....	\$48.00
	Pensacola, substations .....	do .....	36.00
	Central District and Printing Telegraph Co. ....	Telegraph services .....	35.75
	West Virginia Western Telephone Co .....	do .....	4.50
	New York and Pennsylvania Telephone and Telegraph Co. ....	do .....	12.00
	Union Trust Co., receiver .....	do .....	19.00
	American Type Founders Co. ....	Type .....	1.15
	Jos. Fredericks & Co .....	Table .....	8.50
	R. H. Williamson .....	Repairing telegraph line .....	5.00
	R. H. Vorpahl .....	Recasting rollers .....	3.00
	D. J. Hash .....	Repairing river gauge .....	13.00
	Julien P. Friez .....	Barometer screws .....	15.00
	John Jones & Bro .....	Benzine .....	.50
	Grand Rapids and Indiana Rwy. Co. ....	Passenger transportation .....	15.23
	Chicago, Rock Island and Pacific Rwy. Co. ....	do .....	29.50
	Galveston Gas Co .....	Gas .....	11.25
	Nashville Gas Co .....	do .....	8.60
	Indianapolis Light and Power Co .....	Electric current .....	18.00
	Edison Sault Electric Co .....	Electric light .....	6.70
	D. Swinehart .....	Ice .....	3.00
	Eastern Towel Supply Co .....	Towel service .....	6.00
	Williamson Towel Supply Co. ....	do .....	3.00
	Long's Towel Supply Co .....	Washing towels .....	3.00
	Bank of Tehama Co. ....	Office rent .....	99.05
	J. A. Ubsdell .....	Ground rent .....	10.00
	John Smer .....	Office rent .....	112.50
	Charles Baldwin .....	do .....	112.50
	Mill Valley and Mount Tamalpais Scenic Rwy. ....	do .....	105.00
	Tacoma Chamber of Commerce and Board of Trade. ....	do .....	75.00
	G. W. O'Brien .....	do .....	18.00
	E. L. Renoe .....	do .....	150.00
	P. McDonough .....	Station expenses .....	5.00
	N. R. Taylor .....	Drayage .....	1.00
	Charleston, substations .....	Pay roll .....	30.00
	Chicago, substations .....	do .....	510.48
	Buffalo, substations .....	do .....	162.00
	Robert Hume .....	Services .....	15.00
	M. A. Webster .....	do .....	16.00
	S. W. Lightner .....	do .....	30.00
	J. E. Harris, jr .....	do .....	17.50
	Enterprise Ice Co .....	Ice .....	3.90
	E. A. Born .....	Electric light .....	27.75
	Dora Moyen .....	Washing towels .....	6.00
	Northwestern Telephone Exchange Co. ....	Telephone services .....	21.00
	Ontario Telephone Co .....	do .....	15.00
	Northwestern Telephone Exchange Co. ....	do .....	12.00
	La Crosse Telephone Co .....	do .....	7.50
	Northwestern Telephone Exchange Co. ....	do .....	9.00
	Southern Bell Telephone and Telegraph Co. ....	do .....	8.25
	The Empire State Telephone and Telegraph Co. ....	do .....	7.50
	Wisconsin Telephone Co .....	do .....	3.75
	D. J. Pine & Co .....	Laying cable .....	37.50
	American Type Founders Co. ....	Type .....	30.25
	Cooley Bros. ....	Removal of instruments, etc. ....	45.00
	J. W. Byram .....	Station expenses .....	16.25
	J. P. Bolton .....	Telephone services, etc. ....	26.60
	J. W. Cronk .....	Drayage, etc. ....	1.15
	J. C. Piercy .....	Drayage .....	1.00
	L. H. Daingerfield .....	Station expenses .....	4.30
	G. M. Chappel .....	Repairing typewriter .....	1.00
	E. C. Easton .....	Freight charges .....	.50
	J. W. Bauer .....	Drayage and washing towels .....	2.25
	J. L. Cline .....	Drayage, etc. ....	2.40
	A. E. Hackett .....	Station expenses .....	3.78
	G. B. Wurtz .....	do .....	1.95
	W. M. Wilson .....	Drayage, etc. ....	5.15
	F. A. Carpenter .....	Drayage .....	8.80
	F. H. Clarke .....	do .....	3.75
	J. P. Slaughter .....	Station expenses .....	.90
	W. S. Belden .....	do .....	12.25
	Philadelphia, substations .....	Pay roll .....	69.00
	do .....	do .....	36.00
	Harrisburg, substations .....	do .....	125.50
	New York, substations .....	do .....	35.00



Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
<i>Supplemental—Continued.</i>			
1903. July 20	Charleston, substations .....	Pay roll .....	\$48. 60
	Jacksonville, substations .....	do .....	75. 00
	Omaha, substations .....	do .....	45. 10
	A. G. Milley .....	do .....	9. 00
	Mill Valley and Mount Tamalpais Scenic Rwy. ....	Services .....	15. 00
	L. C. Collins .....	do .....	30. 00
	W. H. H. Smith .....	Team hire .....	4. 00
	C. Schneider's Sons .....	Motor .....	56. 00
	Gether, Drebert & Perkins Co. ....	Type .....	39. 65
	Flint & Walling Manufacturing Co. ....	Storm-warning tower .....	62. 10
	R. McDonald .....	Erecting platform .....	10. 50
	Duluth Van and Storage Co. ....	Drayage .....	1. 00
	The Southwestern Telegraph and Telephone Co. ....	Telephone services .....	12. 00
	do .....	do .....	9. 00
	Sunset Telephone and Telegraph Co. ....	do .....	6. 00
	Southwestern Telegraph and Telephone Co. ....	do .....	15. 00
	New England Telephone and Telegraph Co. ....	do .....	14. 25
	Electrical Supply and Construction Co. ....	Electric light .....	3. 87
	Kentucky Steam Laundry .....	Washing towels .....	1. 50
	Daniel W. King .....	do .....	1. 50
	Laura E. Scarr .....	do .....	1. 50
	C. J. Pease .....	Painting building .....	50. 00
	E. D. Osborne .....	Office rent .....	125. 00
	L. C. Buhne, M. C. Pratt, G. C. Buhne and S. C. Buhne. ....	do .....	92. 20
	do .....	do .....	37. 74
	M. E. Conway .....	do .....	
	H. B. Dick .....	Station expenses .....	11. 00
	G. A. Loveland .....	do .....	14. 65
	W. T. Blythe .....	do .....	20. 23
	N. B. Conger .....	do .....	17. 52
	J. B. Marbury .....	Drayage and repairing clock .....	3. 95
	R. M. Geddings .....	Drayage, car fare, etc .....	8. 20
	Louisville, substations .....	Pay roll .....	290. 80
	Columbus, substations .....	do .....	271. 80
	Memphis, substations .....	do .....	182. 40
	Des Moines, substations .....	do .....	236. 20
	Omaha, substations .....	do .....	235. 60
	Cleveland, substations .....	do .....	225. 00
	Vicksburg, substations .....	do .....	91. 00
	Wilmington, substations .....	do .....	72. 00
	Duluth, substations .....	do .....	150. 00
	Milwaukee, substations .....	do .....	180. 00
	Portland, substations .....	do .....	150. 00
	Atlanta, substations .....	do .....	167. 20
	do .....	do .....	21. 00
	do .....	do .....	72. 50
	Home Telephone Co. ....	Telephone services .....	7. 50
	Georgia Telephone and Telegraph Co. ....	do .....	5. 00
	Rocky Mountain Bell Telephone Co. ....	do .....	12. 00
	Sunset Telephone and Telegraph Co. ....	do .....	4. 75
	Iowa Telephone Co. ....	do .....	30. 00
	Georgia Telephone and Telegraph Co. ....	do .....	10. 00
	Cumberland Telephone and Telegraph Co. ....	do .....	10. 50
	F. G. Blaisdell .....	do .....	16. 50
	Peoples' Gas and Electric Co. of Oswego ..	Electric light .....	5. 75
	Valley Paper Co. ....	Paper .....	32. 90
	The Waterbury Battery Co. ....	Battery recharges .....	393. 75
	do .....	do .....	175. 00
22	Eberhard Faber .....	Pencils .....	17. 00
	A. F. Buchanan .....	Constructing river gauge .....	10. 00
	C. P. Biggin Co. ....	Weather-map shelter .....	1, 847. 00
	F. S. Ewing .....	Ice .....	9. 20
	McCormick & Bates .....	Drayage .....	5. 50
	Addressograph Co. ....	Type .....	101. 59
	Key West Electric Light and Power Co. ....	Electric light .....	7. 00
	Norwich University .....	Steam heat and electric light .....	21. 50
	The Marine Review Publishing Co. ....	Subscription .....	20. 00
	The Tyree and Shipping (American) (Limited). ....	do .....	96. 67
	O. I. Mairs .....	Office rent .....	90. 00
	First National Bank of Moorhead .....	do .....	66. 31
	B. S. Williams .....	do .....	73. 00
	H. B. Boyer .....	Traveling expenses .....	18. 78
	J. Warren Smith .....	Station expenses .....	27. 65
	E. H. Emery .....	do .....	28. 92
	P. H. Smyth .....	Drayage .....	. 50
	L. M. Tarr .....	Drayage, etc .....	14. 62

388 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
<i>Supplemental—Continued.</i>			
1903	T. A. Boon	Services	\$25.00
July 22	John Hyslop	do	30.00
	C. P. Searle	do	30.00
	New Orleans, substations	Pay roll	195.80
	Houghton, substations	do	60.00
	New Orleans, substations	do	105.00
	Montgomery, substations	do	135.00
	Augusta, substations	do	136.80
	Savannah, substations	do	166.40
	Indianapolis, substations	do	181.20
	Minneapolis, substations	do	345.80
	Baltimore, substations	do	90.00
	Galveston, substations	do	410.40
	Boston, substations	do	719.25
27	Toffelmire & Gentry	Erecting flag pole	15.00
	do	Reinstalling instruments	10.00
31	F. E. Hamel	Traveling expenses	2.69
	New Orleans, substations	Pay roll	136.20
	Sault Ste. Marie, substations	do	135.00
	W. S. Palmer	Cleaning carpet, etc	5.25
	E. A. Brown	Station expenses	1.72
	Cumberland Telephone and Telegraph Co.	Telephone services	48.00
	H. J. Ledoux	Drinking water	5.60
	Western Telephone Manufacturing Co	Desk and wall telephones	38.00
	Amarillo Light and Power Co	Water	4.50
	Filmann Bros.	Repairing ratchet block	5.00
	J. W. Eagleson	Ice	2.50
	Salt Lake Ice Co.	do	3.00
	New London Gas and Electric Light Co	Electric light	4.00
	Fall River Electric Light Co	do	12.18
	New Orleans and Carrollton Railroad, Light, and Power Co.	do	6.17
	Phoenix Light and Fuel Co	do	5.25
	Geo. M. Chappel	Drayage	3.85
	G. W. Felger	do	.50
	R. H. Dean	do	2.85
	W. L. Day	Horse hire and drayage	2.40
	The Schnepf and Lauter Co.	Printing climate and crop bul- letins.	30.00
	Robt. Tyler	do	12.50
	Kansas Farmer Co	do	40.00
	The Garrett Printing Co.	do	55.25
	Cape May Light and Power Co	Electric light	3.62
	Power Department, Bayfield, Wis.	do	5.00
	Houghton County Electric Light Co	do	9.41
	Needham Bros	Washing towels	.99
	Louisville and Nashville R. R. Co.	Passenger transportation	9.59
	The Pacific Transfer Co	Drayage	15.00
	R. B. Smith	Cleaning river gauge	10.00
	E. H. Furbush	Drayage	.50
	W. B. Moses & Sons	Casting for chair	2.00
	The Smith Premier Typewriter Co	Repairing typewriter	13.30
	L. C. Gibson	Drayage	3.00
	Bryant & Douglas Book and Stationery Co.	Ink	2.25
	The Atlantic City Sewerage Co	Sewer rent	10.00
	Marine Journal Co	Subscription	14.00
	Geo. McCune	Cleaning clock	4.00
	Little Rock, substations	Pay roll	197.00
	Kansas City, substations	do	309.20
	Mobile, substations	do	118.80
	Wilmington, substations	do	106.40
	Savannah, substations	do	61.00
	St. Louis, substations	do	182.00
	Cincinnati, substations	do	193.00
	Oklahoma, substations	do	151.80
	Galveston, substations	do	30.00
	P. Connor	Car fare	8.40
	Peter Wood	Coal, etc	8.10
	H. Hamilton	Services	15.00
	The Marine Review Publishing Co.	Subscription	57.00
	M. E. Sheldon	Office rent	93.75
	Seaboard Air Line Rwy	Freight charges	7.23
	Chicago and Northwestern Rwy. Co.	do	2.45
	Rome, Watertown and Ogdensburg R. R.	do	2.10
	Chicago, Burlington and Quincy Rwy. Co.	do	8.30
	Erie R. R. Co.	do	.77
	Fremont, Elkhorn and Missouri Valley R. R. Co.	do	1.11
	Delaware, Lackawanna and Western R. R. Co.	do	.38

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
	<i>Supplemental—Continued.</i>		
1903, July 31	Texas and Pacific Rwy. Co.	Freight charges	\$9.99
	Chicago, Milwaukee and St. Paul Rwy. Co.	do	.85
	Vancouver Transportation Co.	do	2.00
	Pennsylvania R. R. Co.	do	.55
	Schooner White Scudd	do	15.00
	Baltimore and Ohio Southwestern R. R. Co.	do	1.54
	Louisville and Nashville R. R. Co.	do	4.60
	D. F. Parker	Stencil paper	425.00
	Woodward & Lothrop	Desks, chairs, etc	43.85
	National Printers' Supply Co.	Mallet	.50
	James B. Lambie	Excelsior	9.78
	F. A. Schmidt	Crayon	50.75
	John Moran	Tin pipe	3.00
	United States Express Co.	Express charges	12.30
	Southern Rwy. Co.	Passenger transportation	59.90
	Herman Baumgarten	Rubber stamps	2.80
	do	do	3.48
	Southern Printers' Supply Co.	Bellows	.89
	do	Printing materials	4.16
	do	do	3.89
	American Writing Machine Co.	Repairing typewriter	17.75
	do	Platen, etc	2.15
	do	Typewriters	216.75
	W. B. Moses & Sons	Window shades	16.50
	do	Chairs	14.40
	do	Chairs, bookcase, and table	39.90
	do	Window shades	14.25
	do	Table and chair	17.40
	do	Electric light	10.00
	Marblehead Municipal Light Department	do	7.28
	Kenosha Gas and Electric Co.	do	1.20
	Asheville Electric Co.	do	1.20
	Portland, Oreg., substations	Pay roll	144.00
	Cairo substations	do	122.42
	Vicksburg substations	do	86.25
	W. E. Lee	Constructing rain gauge	10.00
	Townsend Gas and Electric Co.	Electric light	7.50
	W. G. Caw	Installing river gauge	10.00
	L. C. Hall	Repairing telegraph line	2.50
	Fraternal Hall Association	Office rent	105.00
	The Commercial Electric Co.	Electric light	12.87
	Southern Bell Telephone and Telegraph Co.	Telephone services	7.50
	Eugene Shepardson	Towel services	3.00
	Conrad Schmidt	Services	6.25
	N. W. Wagner	do	21.00
	C. P. Disney	do	21.00
	New Bedford Gas and Edison Light Co.	Electric light	11.89
	W. H. Fallon	Drayage	2.50
	St. Louis, substations	Pay roll	178.85
	Boston, substations	do	108.25
	Augusta, substations	do	30.00
	San Francisco, substations	do	86.20
	Fort Smith, substations	do	39.00
	La Crosse, substations	do	88.00
	Shreveport, substations	do	42.00
	Galveston, substations	do	54.75
	Louisville, substations	do	59.50
	Little Rock, substations	do	61.75
	Memphis, substations	do	51.00
	Portland, substations	do	90.00
	Nashville, substations	do	73.30
	Knoxville, substations	do	122.25
	Parkersburg, substations	do	72.00
	Charleston, substations	do	71.34
	New Orleans, substations	do	84.00
	Pittsburg, substations	do	326.72
	Mobile, substations	do	71.25
	Montgomery, substations	do	51.00
	L. J. Baker	Services	7.00
	Estate of Chas. A. Pell, deceased	do	14.23
	N. D. Lane	Station expenses	8.75
	Sunmer Hackett	Drayage	3.00
	Walter W. Best	Repairing telegraph line	6.00
	J. R. Hobbs	Team hire	9.00
	Marquette Co. Savings Bank	Office rent	90.00
	Kathrina Wagner	do	75.00
	S. H. Quint's Sons	Brushes, crayon, sponges, etc	4.51
	Acme Publishing Co	Printing climate and crop bulletins.	33.00
	H. E. Chesnutt	Rubber hose, etc	14.00

## 390 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
<i>Supplemental—Continued.</i>			
1903, July 31	Wm. H. O'Neal, jr	Team hire	\$4.00
	W. N. Tillett	do	2.00
	A. E. McClellan	Constructing river gauge	6.00
	The General Cartage and Storage Co.	Drayage	3.50
	Crystal Ice Co	Ice	2.04
	The Citizens' Gas and Electric Co	Electric light	8.10
	The Water Department of Atlantic City	Water	24.30
	H. B. Hartman	do	5.50
	Neil Ferguson	Drayage	1.50
	W. R. Johnson	Services	14.75
	Pacific States Telephone and Telegraph Co.	Telephone services	25.50
	M. G. Copeland Co.	Pennants	9.00
	John C. Parker	Lead pencils	155.40
	do	Carbon paper	1.82
	The Smith Premier Typewriter Co	Typewriter	7.90
	J. Edward Turton	Box supports	69.00
	Maurice Joyce Engraving Co.	Engraving plates	2.94
	G. W. Myers	Services	21.00
	W. A. Crawford	do	1.00
	Sioux City, substations	Pay roll	84.00
	Z. C. Miles & Piper Co.	Pipe, Russian	4.00
	C. F. Rogers	Constructing vestibule	15.00
	Owen Gernon	Binding maps	42.50
	R. G. Sleater	Printing climate and crop bulletins.	48.00
	Cumberland Telephone and Telegraph Co.	Telephone services	29.85
	H. Brooker & Co.	Kerosene oil	3.75
	E. P. Jones	Office rent	25.00
	T. S. Collins	Cleaning river gauge	2.50
	W. U. Simons	Drayage	10.50
	G. E. Grimes	Drayage and money orders	2.78
	M. W. Hayes	Station expenses	4.75
	Geo. Reeder	Drayage, etc.	2.25
	E. B. Richards	Drayage	3.60
	Arizona and New Mexico R. R. Co.	Freight charges	2.89
	C. C. Garrett	Drayage and washing towels	4.00
	G. T. Todd	Drayage, etc.	6.00
Aug. 6	B. Bunнемeyer	Drayage	.25
	John C. Parker	Letter presses and stand	181.32
	M. Lindsay Rubber Co.	Gas bags	4.75
	W. B. Moses & Sons	Chairs	17.70
	E. W. McGann	Traveling expenses	2.50
	J. M. Watson	do	17.00
	C. B. Bright	do	4.05
	H. W. Grasse	Cleaning carpet, etc.	4.25
	L. H. Murdoch	Drayage	12.02
	Frank Jermin	do	.25
	M. E. Blystone	Station expenses	1.74
	H. McP. Baldwin	do	1.50
	Wm. M. Dudley	do	1.35
	T. S. Outram	Drayage	2.40
	A. G. Burns	do	2.85
	James Kenealy	do	1.56
	E. W. McGann	Drayage, etc.	7.05
	R. G. Allen	Drayage	11.80
	A. J. Mitchell	do	2.20
	O. W. Roberts	Station expenses	4.25
	I. M. Cline	do	8.41
	Pacific States Telephone and Telegraph Co.	Telegraph services	7.20
	The Ohio River Telephone Co	do	15.40
	East Tennessee Telephone Co	do	31.60
	Capital Ice Co	Ice	3.85
	Wisconsin Telephone Co.	Relocating telephone	5.42
	R. Carter Ballantyne	Paper	82.80
	A. A. Finck	Printing climate and crop bulletins.	26.00
	C. N. Millhollin & Sons	Ice	1.50
	F. E. Warren Mercantile Co	Linoleum	17.50
	Salt Lake Transfer Co	Drayage	1.00
	The Maurice Joyce Engraving Co.	Photo-engraving plates	25.12
	do	Stereotype plates, etc.	27.23
	The Greenewald Furniture Co.	Lounge	30.00
	H. D. Pillichody	Services	5.00
	H. J. Green	Thermometers	660.00
	Wm. Curry's Sons	Boathouse rent	24.00
	American Linen Supply Co	Towel service	3.00
	A. R. Derge & Co	Ink	2.85
	Pembroke Stationery Co	do	.75
	G. E. Stechert	Publications	3.75

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## GENERAL EXPENSES. WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
<i>Supplemental—Continued.</i>			
1903.			
Aug. 6	H. A. Poole	Team hire	55.50
	Flint and Walling Manufacturing Co	Erecting tower	20.00
	Heybach-Bush Co	Repairing printing press	50.00
	H. C. Haskins	Repairing furniture	8.50
	Frank Long	Removing tower	20.00
	J. J. Fuller	Painting flagstaff	10.00
	Home Telephone Co.	Telephone services	7.50
	John Clarke	do	4.50
	Southwestern Telegraph and Telephone Co	do	12.00
	Rocky Mountain Bell Telephone Co.	do	15.00
	do	do	10.50
	Delaware and Atlantic Telegraph and Telephone Co.	do	12.00
	Missouri and Kansas Telephone Co	do	9.00
	Southwestern Telegraph and Telephone Co	do	18.53
	Peter Gray	Electric lanterns	210.00
	P. H. Cheney & Sons	Electric light	4.42
	The United Electric Light and Power Co.	do	9.00
	Municipal Electric Light Plant	do	11.51
	Chicago Edison Co	do	5.37
	Port Huron Light and Power Co.	do	3.25
	Marquette City Light and Power Co.	Electric current and lamps	14.35
	The Pennsylvania R. R. Co.	Passenger transportation	77.00
	Pittsburg, Cincinnati, Chicago and St. Louis Rwy. Co.	do	10.90
	Virginia and Truckee R. R. Co.	do	5.50
	Missouri Pacific Rwy. Co.	do	84.75
	Galveston, Houston and Northern Rwy. Co	do	19.70
	The Pullman Co.	do	7.00
	Pere Marquette R. R. Co.	do	2.88
	New York, New Haven and Hartford R. R. Co.	do	14.10
	Chesapeake and Ohio Rwy. Co.	do	23.05
	The Pennsylvania R. R. Co.	do	34.57
	do	do	26.32
	Chicago, Burlington and Quincy Rwy. Co.	Freight charges	6.27
	Littlefield, Alvord & Co.	Drayage	8.16
	St. Louis Transfer Co	do	.54
	Yawman & Erbe Manufacturing Co.	File case	50.00
	J. J. Doshier	Launch hire	7.00
12	Star Union Line	Freight charges	1.03
	do	do	.80
	do	do	.51
	Southern Rwy. Co.	do	2.64
	do	do	1.09
	do	do	2.46
	Virginia and Truckee R. R. Co.	do	1.00
	Illinois Central R. R. Co.	do	2.73
	do	do	4.87
	do	do	.25
	Atchison, Topeka and Santa Fe Rwy. Co.	do	2.51
	Chicago, Burlington and Quincy Rwy. Co.	do	.36
	Central of Georgia Rwy. Co.	do	.89
	Wabash R. R. Co.	do	3.43
	Burlington and Missouri River R. R. in Nebraska.	do	9.69
	E. Hayden	Drayage	.50
	K. J. Cottrell	do	.50
	do	do	.50
	Hoke Engraving Plate Co	Recoating base plates	175.00
	do	Stereotyping materials	357.05
	do	Recoating base plates	5.00
	Raleigh substations	Pay roll	120.00
	Wm. J. Crawford	Drayage	.75
	Herpolsheimer Co.	Carpet and linoleum	226.75
	Cooley Bros.	Repairing instrument shelter	2.50
	Consumers Ice Co.	Ice	3.90
	Amarillo Light and Water Co	Electric light	5.32
	City of East Towas	do	7.50
	Astoria Electric Co.	do	4.00
	Morgan City Improvement Co.	do	5.00
	Cumberland Telephone and Telegraph Co.	Telephone service	150.00
	The Bell Telephone Co. of Missouri	do	22.50
	Dakota Central Telephone Lines (Incorporated).	do	105.33
	Chesapeake and Potomac Telephone Co	do	2.75
	Northwestern Telephone Exchange Co.	do	6.00
	Alabama, Mississippi and Tennessee Telephone Co.	Telegraph services	6.25

392 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
<i>Supplemental—Continued.</i>			
1903.			
Aug. 12	The Tyrrell County Telephone Co .....	Telegraph services .....	57.70
	Rising Sun Telegraph Line .....	do .....	2.60
	Missouri, Kansas and Texas Rwy. Co. ....	Passenger transportation .....	22.30
	International and Great Northern R. R. Co. ....	do .....	4.70
	The Central District and Printing Telegraph Co. ....	Telegraph services .....	13.60
	Southern Bell Telephone and Telegraph Co. ....	Telephone services .....	18.00
	B. J. Sherry .....	Wood .....	8.00
	Atlantic Coast Line R. R. Co. ....	Freight charges .....	.68
	do .....	do .....	.66
	Union Pacific R. R. Co. ....	do .....	31.27
	do .....	do .....	.90
	do .....	do .....	1.34
15	do .....	do .....	46.01
	Richmond, substations .....	Pay roll .....	12.50
	San Francisco, substations .....	do .....	2.25
	Chattanooga, substations .....	do .....	119.00
	Port Huron, substations .....	do .....	225.00
	H. J. Green .....	Thermometers .....	60.00
	J. H. Hardy .....	Painting flagstaff .....	10.00
	W. H. Harris .....	Constructing river gauge .....	25.00
	R. P. Andrews & Co. (Incorporated) .....	Paper .....	163.00
	Meteorological Council .....	Compiling telegrams .....	11.07
	T. F. Meyer & Co .....	Repairing instrument stand .....	5.00
	Pittsburg, Cincinnati, Chicago and St. Louis Rwy. Co. ....	Passenger transportation .....	37.85
	The Central District and Printing Telegraph Co. ....	Telegraph services .....	12.60
	Minneapolis, St. Paul and Sault Ste. Marie Rwy. Co. ....	do .....	16.66
	Rocky Mountain Bell Telephone Co. ....	do .....	35.50
	North Montana Telephone Co .....	do .....	22.70
	Cumberland Telephone and Telegraph Co. ....	do .....	38.00
	Pacific States Telephone and Telegraph Co. ....	do .....	42.50
	Postal Telegraph Cable Co. of Texas .....	do .....	107.24
	Pacific States Telephone and Telegraph Co. ....	do .....	10.40
	Jacksonville and St. Johns Bar Telegraph Line. ....	do .....	6.00
	New England Telephone and Telegraph Co. ....	do .....	5.25
	Bell Telephone Co. of Buffalo .....	do .....	1.10
	Winton Telegraph Co. ....	do .....	7.50
	Iowa Telephone Co. ....	do .....	7.80
	Moncure and Pittsboro Telegraph Co. ....	do .....	7.10
	Corvallis and Eastern R. R. Co. ....	do .....	2.60
	People's Telephone and Telegraph Co. ....	Telephone services .....	.90
	East Tennessee Telephone Co .....	do .....	15.00
	New York Telephone Co. ....	do .....	12.20
	Williston Telephone Exchange .....	do .....	6.00
	Cumberland Telephone and Telegraph Co. ....	do .....	7.50
	Alabama and Georgia Long Distance Telephone Co. ....	do .....	7.80
	East Tennessee Telephone Co .....	do .....	8.10
	do .....	do .....	5.90
	Rocky Mountain Bell Telephone Co. ....	do .....	62.00
	Cumberland Telephone and Telegraph Co. ....	do .....	15.60
	Baltimore and Ohio R. R. Co. ....	Freight charges .....	2.62
	do .....	do .....	10.40
	St. Louis and San Francisco R. R. Co. ....	do .....	4.95
	Atlantic Coast Line R. R. Co. ....	do .....	1.88
	Richmond, Fredericksburg and Potomac R. R. Co. ....	do .....	.77
	New York Central and Hudson River R. R. Co. ....	do .....	1.10
	Texas and Pacific Rwy. Co. ....	do .....	21.43
	West Virginia Central and Pittsburg Rwy. Co. ....	do .....	.82
	Texas Pacific Rwy. Co. ....	do .....	6.80
	Cleveland, Cincinnati, Chicago and St. Louis Rwy. Co. ....	do .....	.82
	Town of New Shoreham .....	do .....	2.15
24	United States Express Co. ....	Express charges .....	5.85
	Adams Express Co. ....	do .....	7.95
	do .....	do .....	12.15
	do .....	do .....	2.70
	do .....	do .....	16.58
	New England Telephone and Telegraph Co. ....	Telephone services .....	2.50
	Chesterfield Telephone and Telegraph Co. ....	do .....	7.70
	E. A. Evans .....	Drayage .....	9.35

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
	<i>Supplemental—Continued.</i>		
1903.			
Aug. 24	E. W. McGann	Electric light	\$8.56
	J. H. Smith	Station expenses	3.25
	W. E. Oliver	Drayage	2.00
	E. C. Vose	Drayage, etc	10.40
	G. E. Franklin	Station expenses	12.40
	Northern Pacific Rwy. Co	Passenger transportation	5.60
	J. E. Midgett	Grading grounds	235.00
	The Friedenwald Co	Manila paper	120.00
	Pearson & Letzig	Repairing river gauge	25.00
	Western Union Telegraph Co	Repairing telegraph line	7.05
	J. W. Austin	Building fence	110.00
	General Electric Co	Aerial observation apparatus	399.00
	T. L. M. Pratt	Services	1.00
	C. F. Schneider	Traveling expenses	36.04
	W. H. Fallon	do	6.65
	Nashville, Chattanooga and St. Louis Rwy.	Passenger transportation	21.05
	Chicago, Milwaukee and St. Paul Rwy. Co	do	3.64
	Chicago, Burlington and Quincy R. R. Co.	Telegraph services	2.60
	Central Union Telephone Co	Telephone services	48.00
	C. M. Knudson	Services	21.00
	Bell Telephone Co. of Buffalo	Telephone services	.55
	Chicago, Milwaukee and St. Paul Rwy. Co.	Passenger transportation	.71
	Missouri Pacific Rwy. Co	do	21.05
	Baltimore and Ohio R. R.	do	6.45
	Ocean Tow Boat Line	Telegraph services	6.00
	The Bunnell Telegraph and Electric Co	Pliers	61.20
	Coston Signal Co. (Incorporated)	Answering signals	37.00
	Remington Typewriter Co	Repairing typewriter	17.50
	J. E. Turton	Map frames	13.20
	E. C. Hobbs	Drayage	10.49
	Woodward & Lothrop	Desk	27.50
	do	do	55.00
	M. G. Copeland Co	Flags	508.25
	F. A. Schmidt	Paper	6.00
Sept. 3	Pennsylvania R. R. Co.	Freight charges	1.16
	do	do	12.91
	do	do	1.03
	do	do	.36
	do	do	.97
	do	do	.97
	do	do	.28
	do	do	.51
	do	do	2.64
	do	do	.76
	do	do	.56
	do	do	.25
	Southern Rwy. Co.	do	5.17
	do	do	4.59
	do	do	1.76
	Union Pacific R. R. Co.	do	5.68
	do	do	2.88
	do	do	69.69
	do	do	1.42
	do	do	4.26
	Chicago and Alton Rwy. Co.	do	.75
	do	do	1.30
	do	do	.75
	Chicago, Rock Island and Pacific Rwy. Co	do	.18
	do	do	1.05
	do	do	1.01
	Burlington Route, Missouri Lines	do	.92
	do	do	1.67
	Star Union Line	do	.78
	do	do	.87
	do	do	3.74
	Missouri Pacific Rwy. Co	do	6.02
	do	do	6.50
	Chicago, Burlington and Quincy Rwy. Co.	do	.18
	do	do	2.40
	Denver and Rio Grande R. R. Co	do	2.65
	do	do	9.73
	Louisville and Nashville R. R. Co.	do	4.93
	Chicago, St. Paul, Minneapolis and Omaha Rwy. Co.	do	17.40
	Oregon Short Line R. R. Co.	do	15.93
	Florida East Coast Rwy	do	5.61
	Norfolk and Washington Steamboat Co	do	6.70
	Minneapolis, St. Paul and Sault Ste. Marie Rwy. Co.	do	2.36

394 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
<i>Supplemental—Continued.</i>			
1903. Sept. 3	Lake Shore and Michigan Southern Rwy. Co.	Freight charges .....	\$6.76
	Texas-Mexican Rwy. Co .....	do .....	5.74
	Norfolk and Western Rwy. Co .....	do .....	1.62
	Washington County R. R. Co .....	do .....	1.55
	Atlantic Coast Line R. R. Co .....	do .....	1.54
	Detroit and Mackinac R. R. Co .....	do .....	1.33
	Schooner Ida Bell Lowndes .....	do .....	10.00
	Northern Michigan Transportation Co .....	do .....	.58
	New York, New Haven and Hartford R. R. Co.	Passenger transportation .....	21.25
	Fort Worth and Denver City Rwy. Co .....	do .....	30.00
9	Adams Express Co .....	Express charges .....	5.70
	J. A. Roebling's Sons Co .....	Telegraph wire .....	.80
	Jno. P. Church .....	Traveling expenses .....	1.55
	W. A. Mitchell .....	do .....	6.25
	Geo. U. Harn, jr .....	do .....	33.40
	Postal Telegraph Cable Co. of Texas .....	Telegraph services .....	101.10
	New England Telegraph and Telephone Co.	do .....	2.60
	A. H. Bell .....	Station expenses .....	9.55
	J. Warren Smith .....	do .....	22.95
	Pennsylvania Co .....	Passenger transportation .....	73.25
	Eimer & Amend .....	Hemphell's Gas Analysis .....	3.00
	Kelley Island and Sandusky Cable Co .....	Telegraph services .....	9.50
	Tacker Telephone and Telegraph Co .....	do .....	10.00
	Minneapolis, St. Paul and Sault Ste. Marie Rwy. Co.	do .....	15.43
	Lake Shore and Michigan Southern Rwy. Co.	Passenger transportation .....	14.52
	Daniel Daly .....	Recasting rollers .....	2.70
	Mutual Light and Water Co .....	Installing storm-warning lanterns.	23.00
	The Seattle Electric Co .....	do .....	75.00
	A. Fleckman .....	Constructing river gauge .....	19.75
	W. J. Moss .....	do .....	12.50
	New England Telephone and Telegraph Co.	Telephone services .....	29.00
	H. C. Bate .....	Drayage .....	3.17
15	New England Telephone and Telegraph Co.	Telegraph services .....	32.55
	Central District and Printing Telegraph Co	do .....	4.60
	W. R. Prowell .....	Installing river gauge .....	7.50
	C. S. Kaneen .....	Repairing telephone line .....	2.00
	T. L. Winthar .....	Drayage .....	2.00
	C. J. Cain .....	Repairing walk .....	15.00
	Oregon Short Line R. R. Co .....	Rent of ground .....	1.15
	Louis Dorman .....	Traveling expenses .....	55.50
	J. Warren Smith .....	Station expenses .....	227.34
	E. J. Glass .....	do .....	18.50
	Peter Wood .....	do .....	9.90
	American Writing Machine Co .....	Platen .....	2.00
	Woodward & Lothrop .....	Desks and chairs .....	54.70
	F. A. Schmidt .....	Rain gauges .....	189.00
18	Western Union Telegraph Co .....	Telegraph services .....	14,469.31
22	Martha's Vineyard Telegraph Co .....	do .....	29.07
	Great Northwestern Telegraph Co. of Canada.	do .....	149.14
	Cumberland Telephone and Telegraph Co.	do .....	114.50
	Pennsylvania R. R. Co .....	Freight charges .....	.91
	O. M. Eakle .....	Bookcase .....	11.75
	H. P. Newmarch .....	Installing electric lanterns .....	69.00
	Minneapolis and St. Louis R. R. Co .....	Freight charges .....	.48
	do .....	do .....	.88
	Vicksburg, Shreveport and Pacific Rwy. Co.	do .....	2.04
	Peninsular and Occidental Steamship Co .....	do .....	1.23
	do .....	do .....	5.57
	do .....	do .....	7.84
	do .....	do .....	9.48
	Cleveland, Cincinnati, Chicago and St. Louis Rwy. Co.	do .....	1.19
	do .....	do .....	.97
	Baltimore and Ohio R. R. Co .....	do .....	5.33
	do .....	do .....	4.22
	C. H. Mallory & Co .....	do .....	1.25
	do .....	do .....	40.09
	do .....	do .....	6.77
	Michigan Central R. R. Co .....	do .....	.76
	do .....	do .....	1.83
	Pennsylvania R. R. Co .....	do .....	.50
	Great Northern Rwy. Co .....	do .....	19.54



Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
	<i>Supplemental—Continued.</i>		
1903.			
Sept. 22	The Colorado and Southern Rwy. Co .....	Freight charges .....	\$1.23
	Chicago and Northwestern Rwy. Co .....	do .....	18.81
	The Denver and Rio Grande R. R. Co .....	do .....	5.52
	Chicago and Alton Rwy. Co .....	do .....	.97
	Washington Southern Rwy. Co .....	do .....	1.08
	Lower Coast Packet Co .....	do .....	.80
	Pere Marquette R. R. Co .....	do .....	1.27
	Narragansett Pier R. R. Co .....	do .....	2.07
	The Oregon R. R. and Navigation Co. ....	do .....	8.80
	Lehigh Valley R. R. Co .....	do .....	2.12
	Northern Michigan Transportation Co. ....	do .....	9.92
	Union Trust Co., receiver Michigan Telephone Co. ....	Telephone services .....	9.10
30	Cincinnati, Hamilton and Dayton Rwy. Co. ....	Freight charges .....	.52
	Western Union Telegraph Co .....	Telegraph services .....	106.76
	Margaret Kancan .....	Washing towels .....	2.25
	Choctaw, Oklahoma and Gulf R. R. Co .....	Passenger transportation .....	41.20
	Delaware and Hudson Co. ....	Freight charges .....	1.73
	W. S. Mountain .....	Erecting river gauge .....	20.00
	Delaware and Hudson Co. ....	Freight charges .....	5.03
	International Ocean Telegraph Co. ....	Telegraph services .....	94.90
Oct. 12	D. F. King .....	Relocating flagstaff .....	20.00
	J. T. Harper .....	Telegraph services .....	10.94
	Western Union Telegraph Co .....	do .....	103.66
	New England Telephone and Telegraph Co. ....	do .....	.35
	C. P. Meekins .....	Ground rent .....	3.00
	Baltimore and Ohio R. R. Co .....	Telephone services .....	2.50
	A. J. Davis .....	Station expenses .....	6.75
	J. C. Bates .....	Services .....	7.00
	Star Union Line .....	Freight charges .....	1.64
	The Oregon Short Line R. R. Co .....	do .....	10.12
15	Hoke Engraving Plate Co .....	Recasting base plates .....	225.00
	Star Union Line .....	Freight charges .....	.51
	do .....	do .....	.45
	Union Pacific R. R. Co. ....	do .....	3.81
	do .....	do .....	3.74
	do .....	do .....	2.21
	do .....	do .....	4.34
	do .....	do .....	1.66
	do .....	do .....	3.56
	Louisville and Nashville R. R. Co. ....	do .....	2.46
	do .....	do .....	3.59
	Atlantic Coast Line R. R. Co. ....	do .....	2.33
	do .....	do .....	.90
	Virginia and Truckee R. R. Co. ....	do .....	.38
	Great Northern Rwy. Co .....	do .....	13.01
	Pennsylvania R. R. Co. ....	do .....	.37
	do .....	do .....	.28
	do .....	do .....	.85
	do .....	do .....	3.21
	do .....	do .....	.38
	do .....	do .....	1.23
	do .....	do .....	7.72
	do .....	do .....	1.88
	Illinois Central R. R. Co. ....	do .....	.73
	do .....	do .....	.73
	Chicago and Northwestern Rwy. Co. ....	do .....	2.85
	do .....	do .....	7.11
	Rome, Watertown and Ogdensburg R. R. ....	do .....	.85
	do .....	do .....	.85
	C. H. Mallory & Co .....	do .....	10.52
	do .....	do .....	1.27
	New York, New Haven and Hartford R. R. Co. ....	do .....	4.75
	do .....	do .....	1.14
	do .....	do .....	1.17
	Chicago and Alton Rwy. Co .....	do .....	4.20
	Baltimore and Ohio R. R. Co .....	do .....	9.65
	Atchison, Topeka and Santa Fe Rwy. Co. ....	do .....	30.28
	Central Vermont Rwy. Co .....	do .....	1.45
	Cleveland, Cincinnati, Chicago and St. Louis Rwy. Co. ....	do .....	2.52
	do .....	do .....	
	Peninsular and Occidental Steamship Co. ....	do .....	3.63
	Southern Rwy. Co. ....	do .....	2.77
	Baltimore and Ohio Southwestern R. R. Co. ....	do .....	2.48
	Detroit and Mackinac R. R. Co .....	do .....	.78
	Nashville, Chattanooga, and St. Louis Rwy. Co. ....	do .....	1.08
	John C. Davis .....	do .....	2.34

396 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

GENERAL EXPENSES, WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
<i>Supplemental—Continued.</i>			
1903.			
Oct. 15	Burlington Route, Missouri lines .....	Freight charges .....	\$2.78
	Fremont, Elkhorn, and Missouri Valley R. R. Co. ....	do .....	1.12
	Chesapeake and Ohio Rwy. Co. ....	do .....	8.60
	Philadelphia and Reading Rwy. Co. ....	do .....	.37
	E. Aigeltinger .....	Drayage .....	.54
	Wisconsin Central Rwy. Co. ....	Freight charges .....	.40
	Boston and Maine R. R. ....	do .....	.45
	Boston and Albany R. R. ....	do .....	.94
	Pacific Coast Steamship Co. ....	do .....	.26
	Chicago, Milwaukee and St. Paul Rwy. Co. ....	do .....	.84
	Quincy, Omaha, and Kansas City R. R. Co. ....	do .....	.89
	Norfolk and Washington Steamboat Co. ....	do .....	.36
	Atlanta and West Point R. R. Co. ....	do .....	.81
20	Flint & Walling Manufacturing Co. ....	Storm-warning towers .....	509.70
	J. W. Smith .....	Drayage, etc. ....	7.23
31	Postal Telegraph Cable Co. ....	Telegraph services .....	544.50
	do .....	do .....	1,109.22
	do .....	do .....	188.27
	do .....	do .....	84.63
	do .....	do .....	36.50
	International Ocean Telegraph Co. ....	do .....	141.36
	Enterprise Telegraph Co. ....	do .....	12.60
	St. Louis Toilet Supply Co. ....	Towel supply .....	4.50
	Nathan Doheman Co. ....	Filter .....	8.25
	J. M. Gomez .....	River gauge .....	55.00
	J. W. Johnson .....	Repairs to building .....	500.00
	The Great Northern Telegraph Co. of Canada. ....	Telegraph services .....	145.61
Nov. 14	Roslyn Coal and Coke Co. ....	Fuel .....	91.96
	Total supplemental .....		60,289.98

RECAPITULATION.

First quarter .....	\$41,774.86
Second quarter .....	82,533.86
Third quarter .....	142,877.58
Fourth quarter .....	101,204.59
Supplemental .....	60,289.98
Total .....	428,680.87

GENERAL EXPENSES—SALARIES—WEATHER BUREAU.

Date.	Name.	Nature of payment.	Total.
1902.			
July 21	Walter Rosenthal .....	Salary .....	\$7.00
24	E. S. B. Eubank .....	do .....	16.30
26	N. C. Jones .....	do .....	17.00
31	G. W. Eddey .....	do .....	101.10
	Peter Wood .....	do .....	101.10
	B. D. Johnson .....	do .....	25.00
	W. C. McGuinness .....	do .....	84.20
	B. M. Jacobs .....	do .....	25.30
	W. L. Day .....	do .....	101.10
	G. L. Lovett .....	do .....	25.00
	J. W. Byram .....	do .....	101.10
	A. Drinkwater .....	do .....	50.50
	J. M. Sherier .....	do .....	109.50
	G. T. Todd .....	do .....	101.10
	J. Sands .....	do .....	60.60
	N. D. Lane .....	do .....	101.10
	A. H. Bell .....	do .....	101.10
	O. D. Stewart .....	do .....	101.10
	C. W. Ling .....	do .....	84.20
	H. P. Hardin .....	do .....	84.20
	H. B. Dick .....	do .....	84.20
	F. Z. Gosenisch .....	do .....	101.10
	G. W. Scott .....	do .....	101.10
	H. F. Alps .....	do .....	84.20
	A. C. Pickels .....	do .....	70.80
	W. G. Wilson .....	do .....	50.50
	H. W. Grasse .....	do .....	84.20

*Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.*

## GENERAL EXPENSES—SALARIES—WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
July 31	Hugo Legler	Salary	\$70.80
	M. E. Conway	do	70.80
	J. J. Kelliher	do	84.20
	J. C. Piercy	do	101.10
	P. McDonough	do	101.10
	D. C. Grunow	do	84.20
	W. W. Thomas	do	70.80
	Chas. Adie	do	70.80
	J. P. Slaughter	do	101.10
	W. D. Maxwell	do	101.10
	M. Connell	do	101.10
	B. S. Pague	do	151.60
	Thomas Gibson	do	84.20
	J. H. Scarr	do	101.10
	J. R. Williams	do	101.10
	F. H. Clarke	do	126.40
	E. R. Miller	do	70.80
	C. E. Johnson	do	60.60
	N. M. Cunningham	do	84.20
	F. Newman	do	101.10
	E. W. Daniels	do	25.00
	J. C. Hayden	do	84.20
	O. W. Roberts	do	101.10
	S. Hackett	do	40.40
	A. T. Sims et al	do	237.60
	F. H. Duff et al	do	141.50
	J. B. Marbury et al	do	434.70
	Al. Brand et al	do	131.40
	D. Fisher et al	do	149.90
	T. L. Bridges et al	do	510.40
	O. L. Fassig et al	do	436.00
	S. M. Blandford et al	do	240.90
	Corydon P. Cronk et al	do	160.00
	J. H. Smith et al	do	193.70
	L. N. Jesunofsky et al	do	237.60
	G. R. Oberholzer et al	do	131.40
	L. M. Pindell et al	do	224.00
	W. S. Palmer et al	do	156.70
	F. J. Walz et al	do	710.30
	S. S. Bassler et al	do	402.70
	J. Kenealy et al	do	446.40
	A. E. Hackett et al	do	222.50
	J. W. Bauer et al	do	252.80
	J. Warren Smith et al	do	532.30
	Frank Jermin et al	do	114.50
	P. H. Smyth et al	do	220.70
	D. P. McCallum et al	do	359.77
	G. W. Chappel et al	do	422.90
	Orin Parker et al	do	149.90
	H. W. Richardson et al	do	210.60
	D. C. Murphy et al	do	131.40
	A. Ashemberger et al	do	141.50
	T. J. Considine et al	do	220.70
	E. A. Brown et al	do	232.50
	J. L. Kline et al	do	149.90
	T. S. Collins et al	do	131.40
	Geo. Reeder et al	do	171.90
	W. H. Fallon et al	do	131.10
	F. W. Conrad et al	do	131.40
	E. R. Demain et al	do	220.70
	A. J. Davis et al	do	134.70
	E. J. Glass et al	do	240.90
	W. T. Blythe et al	do	471.60
	R. G. Allen et al	do	367.30
	Patrick Connor et al	do	321.80
	W. U. Simons et al	do	149.90
	W. M. Fulton et al	do	177.00
	C. F. Schneider et al	do	197.20
	R. Q. Grant et al	do	126.10
	G. A. Loveland et al	do	392.60
	E. B. Richards et al	do	480.10
	G. E. Franklin et al	do	257.80
	H. B. Hersey et al	do	549.20
	G. N. Wilson et al	do	141.50
	J. E. Weeks et al	do	141.50
	H. R. Patrick et al	do	131.40
	S. C. Emery et al	do	338.70
	W. M. Wilson et al	do	566.10
	T. S. Outram et al	do	451.40
	W. M. Dudley et al	do	202.20

## 398 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## GENERAL EXPENSES—SALARIES—WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
July 31	F. P. Chaffee et al. ....	Salary	\$249. 79
	G. E. Grimes et al. ....	do	124. 60
	H. C. Bate et al. ....	do	508. 80
	F. L. Beahan et al. ....	do	161. 70
	E. W. McGann et al. ....	do	192. 10
	L. M. Tarr et al. ....	do	210. 60
	H. F. Alciatore et al. ....	do	466. 70
	Henry Goucher et al. ....	do	530. 60
	J. J. Gray et al. ....	do	287. 52
	W. A. Shaw et al. ....	do	126. 40
	C. M. Strong et al. ....	do	257. 80
	L. A. Welsh et al. ....	do	311. 70
	J. G. Linsley et al. ....	do	141. 50
	E. C. Vose et al. ....	do	225. 27
	T. F. Townsend et al. ....	do	699. 10
	B. Bunnemeyer et al. ....	do	141. 50
	O. C. Burrows et al. ....	do	124. 60
	F. Ridgway et al. ....	do	417. 80
	W. G. Burns et al. ....	do	227. 50
	J. W. Cronk et al. ....	do	141. 50
	A. B. Wollaber et al. ....	do	459. 90
	R. J. Hyatt et al. ....	do	421. 10
	P. F. Lyons et al. ....	do	294. 80
	L. H. Murdoch et al. ....	do	342. 00
	A. Buell et al. ....	do	210. 60
	F. A. Carpenter et al. ....	do	131. 40
	E. H. Nimmo et al. ....	do	141. 50
	G. H. Willson et al. ....	do	621. 60
	R. M. Hardinge et al. ....	do	210. 60
	A. G. Burns et al. ....	do	139. 80
	G. N. Salisbury et al. ....	do	328. 60
	W. A. Mitchell et al. ....	do	131. 40
	Chas. Stewart et al. ....	do	230. 52
	M. E. Blystone et al. ....	do	311. 70
	E. C. Hobbs et al. ....	do	141. 50
	L. H. Daingerfield et al. ....	do	131. 40
	T. B. Jennings et al. ....	do	223. 61
	F. L. Johnson et al. ....	do	131. 40
	G. W. Felger et al. ....	do	171. 90
	W. E. Donaldson et al. ....	do	160. 00
	B. H. Bronson et al. ....	do	240. 90
	David Cuthbertson et al. ....	do	402. 60
	N. B. Conger et al. ....	do	439. 45
	E. H. Bowie et al. ....	do	426. 20
	R. B. Harkness et al. ....	do	131. 40
	S. W. Glenn et al. ....	do	248. 02
	L. A. Denson et al. ....	do	141. 50
	E. P. Jones et al. ....	do	224. 00
	E. A. Evans et al. ....	do	458. 20
	L. M. Dey et al. ....	do	235. 90
	H. B. Boyer et al. ....	do	237. 01
	U. G. Pursell et al. ....	do	202. 80
	J. S. Hazen et al. ....	do	141. 50
	W. S. Currier et al. ....	do	251. 00
	W. S. Belden et al. ....	do	261. 67
	L. A. Hatten .....	do	38. 80
	R. M. West .....	do	34. 00
	J. J. Doshier .....	do	60. 60
	A. W. Kennie .....	do	25. 00
	A. McC. Ashley .....	do	126. 40
	John Monagan .....	do	18. 00
	C. F. von Herrmann et al. ....	do	254. 27
	L. C. Cover et al. ....	do	121. 64
	T. J. Thompson .....	do	9. 78
	J. H. Scott .....	do	25. 11
	E. L. Renoe .....	do	25. 00
	R. M. Geddings et al. ....	do	139. 94
	A. J. Mitchell et al. ....	do	333. 28
	W. E. Bonnett .....	do	25. 11
	J. P. Bolton .....	do	101. 10
Aug. 6	E. T. Turner .....	do	84. 20
11	H. O. Sink .....	do	21. 74
	E. B. Chace .....	do	3. 20
	G. H. Atkisson .....	do	27. 00
	J. J. McLean .....	do	32. 61
	R. H. Dean .....	do	141. 50
12	W. F. Harn .....	do	25. 00
	G. S. Bliss .....	do	29. 67
14	Alexander Ritchie .....	do	52. 00
	G. J. McLaughlin .....	do	8. 00

*Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.*

## GENERAL EXPENSES—SALARIES—WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Aug. 22	Herbert Beesten	Salary	\$19.00
	Walter Borman	do	5.87
31	A. F. Sims et al	do	237.60
	R. M. Geddings et al	do	171.90
	A. Brand et al	do	131.40
	J. B. Marbury et al	do	434.70
	O. L. Fassig et al	do	496.00
	S. M. Blandford et al	do	240.90
	T. L. Bridges et al	do	510.40
	F. T. Williams et al	do	402.60
	P. H. Smyth et al	do	220.70
	C. P. Cronk et al	do	160.00
	J. H. Smith et al	do	193.70
	L. N. Jesunofsky et al	do	237.60
	L. M. Pindell et al	do	224.00
	T. J. Walz et al	do	710.30
	S. S. Bassler et al	do	433.00
	J. Kenealy et al	do	446.40
	A. E. Hackett et al	do	222.50
	J. W. Bauer et al	do	252.50
	Frank Jermin et al	do	114.50
	D. P. McCallum et al	do	370.60
	G. M. Chappel et al	do	422.90
	N. B. Conger et al	do	460.00
	O. Parker et al	do	149.90
	H. W. Richardson et al	do	240.90
	D. C. Murphy et al	do	131.40
	T. J. Considine et al	do	220.70
	J. L. Bartlett et al	do	193.35
	J. L. Cline et al	do	220.70
	E. H. Bowie et al	do	486.17
	W. H. Fallon et al	do	131.10
	F. W. Conrad et al	do	131.40
	L. C. Cover et al	do	131.40
	E. R. Demain et al	do	220.70
	A. J. Davis et al	do	134.70
	S. W. Glenn et al	do	257.80
	W. T. Blythe et al	do	471.60
	R. G. Allen et al	do	353.90
	W. U. Simons et al	do	149.90
	W. M. Fulton et al	do	177.00
	C. F. Schneider et al	do	197.20
	G. A. Loveland et al	do	392.60
	E. B. Richards et al	do	395.90
	H. B. Hersey et al	do	549.20
	G. N. Wilson et al	do	141.50
	H. R. Patrick et al	do	131.40
	S. C. Emery et al	do	538.70
	L. A. Denson et al	do	141.50
	T. S. Outram et al	do	451.40
	W. M. Dudley et al	do	202.20
	H. C. Bate et al	do	508.80
	F. R. Beahan et al	do	228.64
	E. W. McGann et al	do	192.10
	L. M. Tarr et al	do	210.60
	H. F. Alciatore et al	do	466.70
	H. Goucher et al	do	530.60
	J. J. Gray et al	do	321.80
	C. M. Strong et al	do	328.60
	L. A. Welsh et al	do	311.70
	J. G. Linsley et al	do	141.50
	E. C. Vose et al	do	240.90
	B. Bunnemeyer et al	do	141.50
	T. F. Townsend et al	do	699.10
	W. G. Burns et al	do	227.50
	O. C. Burrows et al	do	124.60
	Frank Ridgway et al	do	417.80
	E. P. Jones et al	do	224.00
	A. B. Wollaber et al	do	459.90
	C. F. von Herrmann et al	do	365.60
	E. A. Evans et al	do	458.20
	L. M. Dey et al	do	235.90
	R. J. Hyatt et al	do	421.10
	Allen Buell et al	do	210.60
	T. A. Carpenter et al	do	131.40
	E. H. Nimmo et al	do	141.50
	G. H. Willson et al	do	591.30
	R. M. Hardinge et al	do	210.60
	A. G. Burns et al	do	139.80
	H. B. Boyer et al	do	240.90

## 400 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

*Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.*

## GENERAL EXPENSES—SALARIES—WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Aug. 31	G. N. Salisbury et al.....	Salary.....	\$328.60
	J. W. Cronk et al.....	do.....	131.40
	Chas. Stewart et al.....	do.....	180.30
	M. E. Blystone et al.....	do.....	311.70
	A. McC. Ashley et al.....	do.....	210.60
	H. C. Hobbs et al.....	do.....	141.50
	L. H. Daingerfield et al.....	do.....	131.40
	W. S. Currier et al.....	do.....	251.00
	W. S. Belden et al.....	do.....	251.10
	F. L. Johnson et al.....	do.....	131.40
	G. U. Felger et al.....	do.....	171.90
	D. Fisher et al.....	do.....	149.90
	B. H. Bronson et al.....	do.....	240.90
	G. R. Oberholzer et al.....	do.....	131.40
	J. Warren Smith et al.....	do.....	532.30
	Geo. Reeder et al.....	do.....	171.90
	E. J. Glass et al.....	do.....	240.90
	A. J. Mitchell et al.....	do.....	357.38
	P. Connor et al.....	do.....	321.80
	R. Q. Grant et al.....	do.....	126.10
	G. E. Franklin et al.....	do.....	232.33
	J. R. Weeks et al.....	do.....	131.40
	F. P. Chaffee et al.....	do.....	181.90
	G. E. Grimes et al.....	do.....	124.60
	W. A. Shaw et al.....	do.....	126.40
	P. F. Lyons et al.....	do.....	294.80
	L. H. Murdoch et al.....	do.....	279.70
	J. S. Hazen et al.....	do.....	141.50
	T. B. Jennings et al.....	do.....	227.50
	G. W. Eddey.....	do.....	101.10
	Peter Wood.....	do.....	101.10
	B. D. Johnson.....	do.....	25.00
	W. C. McGuinness.....	do.....	84.20
	W. E. Donaldson et al.....	do.....	160.00
	B. M. Jacobs.....	do.....	25.30
	W. L. Day.....	do.....	101.10
	G. L. Lovett.....	do.....	25.00
	S. E. Bond.....	do.....	30.30
	W. S. Palmer.....	do.....	126.40
	J. R. Shelton.....	do.....	8.00
	J. W. Byram.....	do.....	101.10
	A. Drinkwater.....	do.....	50.50
	J. M. Sherier.....	do.....	109.50
	J. Sands.....	do.....	60.60
	A. Ashenberger et al.....	do.....	141.50
	J. I. Widmeyer.....	do.....	101.10
	N. D. Lane.....	do.....	101.10
	A. H. Bell.....	do.....	101.10
	E. L. Renoe.....	do.....	25.00
	T. S. Collins et al.....	do.....	131.40
	J. B. Bolton.....	do.....	101.10
	C. E. Holmes.....	do.....	29.89
	O. D. Stewart.....	do.....	101.10
	C. W. Ling.....	do.....	84.20
	C. C. Garrett.....	do.....	70.80
	H. P. Hardin.....	do.....	84.20
	H. B. Dick.....	do.....	84.20
	F. Z. Gosenisch.....	do.....	101.10
	J. J. Doshier.....	do.....	60.60
	R. H. Dean et al.....	do.....	131.40
	H. F. Alps.....	do.....	84.20
	Hugo Legler.....	do.....	70.80
	A. C. Pickels.....	do.....	70.80
	W. G. Wilson.....	do.....	50.50
	A. W. Kennie.....	do.....	25.00
	W. M. Wilson et al.....	do.....	566.10
	H. W. Grasse.....	do.....	84.20
	M. E. Conway.....	do.....	70.80
	J. J. Kelliher.....	do.....	84.20
	J. C. Piercy.....	do.....	101.10
	P. McDonough.....	do.....	101.10
	D. C. Grunow.....	do.....	84.20
	W. W. Thomas.....	do.....	70.80
	Chas. Adie.....	do.....	70.80
	Ida Ross.....	do.....	40.40
	B. S. Pague.....	do.....	151.60
	J. P. Slaughter.....	do.....	101.10
	W. D. Maxwell.....	do.....	101.10
	M. Connell.....	do.....	101.10
	T. Gibson.....	do.....	84.20

## Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## GENERAL EXPENSES—SALARIES—WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Aug. 31	J. H. Carr .....	Salary .....	\$101. 10
	J. R. Williams .....	do .....	101. 10
	U. G. Pursell et al .....	do .....	139. 80
	E. R. Miller .....	do .....	70. 80
	C. E. Johnson .....	do .....	60. 60
	N. M. Cunningham .....	do .....	84. 20
	F. Newman .....	do .....	101. 10
	E. W. Daniels .....	do .....	25. 00
	J. C. Hayden .....	do .....	84. 20
	O. W. Roberts .....	do .....	101. 10
	S. Hackett .....	do .....	40. 40
	G. H. Atkisson .....	do .....	4. 00
	J. R. Shelton .....	do .....	18. 59
	G. T. Todd .....	do .....	101. 10
	F. H. Clarke et al .....	do .....	278. 03
	F. H. Duff et al .....	do .....	141. 50
Sept. 5	R. B. Harkness et al .....	do .....	131. 40
	E. T. Turner .....	do .....	55. 67
10	W. F. Harn .....	do .....	25. 00
13	T. G. Holliday .....	do .....	28. 00
22	C. A. Wesley .....	do .....	27. 00
	S. A. Lyon .....	do .....	7. 83
	G. W. Scott .....	do .....	101. 10
30	G. H. Burgess .....	do .....	16. 00
	A. F. Sims et al .....	do .....	229. 80
	F. H. Duff et al .....	do .....	137. 00
	J. B. Marbury et al .....	do .....	420. 60
	A. Brand et al .....	do .....	127. 20
	D. Fisher et al .....	do .....	145. 20
	O. L. Fassig et al .....	do .....	423. 00
	W. E. Donaldson et al .....	do .....	155. 00
	B. H. Bronson et al .....	do .....	243. 00
	S. M. Blandford et al .....	do .....	233. 20
	T. L. Bridges et al .....	do .....	494. 20
	D. Cuthbertson et al .....	do .....	389. 80
	P. H. Smyth et al .....	do .....	213. 60
	C. P. Cronk et al .....	do .....	236. 60
	J. H. Smith et al .....	do .....	187. 60
	L. N. Jesumofsky et al .....	do .....	229. 80
	G. R. Oberholzer et al .....	do .....	205. 40
	L. M. Pindell et al .....	do .....	217. 00
	C. E. Linney et al .....	do .....	526. 40
	S. S. Bassler et al .....	do .....	419. 00
	James Kenealy et al .....	do .....	402. 80
	A. E. Hackett et al .....	do .....	215. 00
	J. W. Bauer et al .....	do .....	244. 40
	J. Warren Smith et al .....	do .....	515. 40
	Frank Jermin et al .....	do .....	111. 00
	J. M. Sherier et al .....	do .....	134. 37
	D. P. McCallum et al .....	do .....	358. 80
	G. M. Chappel et al .....	do .....	409. 20
	N. B. Conger et al .....	do .....	492. 85
	O. Parker et al .....	do .....	145. 20
	H. W. Richardson et al .....	do .....	233. 20
	D. C. Murphy et al .....	do .....	127. 20
	A. Ashenberger et al .....	do .....	137. 00
	T. J. Considine et al .....	do .....	213. 60
	J. L. Bartlette et al .....	do .....	127. 20
	J. L. Cline et al .....	do .....	213. 60
	T. S. Collins et al .....	do .....	127. 20
	G. Reeder et al .....	do .....	166. 20
	E. H. Bowie et al .....	do .....	481. 80
	W. H. Fallon et al .....	do .....	127. 80
	F. W. Conrad et al .....	do .....	127. 20
	L. C. Cover et al .....	do .....	127. 20
	E. R. Demain et al .....	do .....	197. 70
	A. J. Davis et al .....	do .....	130. 60
	A. R. Teeple et al .....	do .....	111. 00
	R. B. Harkness et al .....	do .....	127. 20
	S. W. Glenn et al .....	do .....	249. 40
	W. T. Blythe et al .....	do .....	456. 80
	R. G. Allen et al .....	do .....	342. 20
	A. J. Mitchell et al .....	do .....	352. 20
	P. Connor et al .....	do .....	311. 40
	W. U. Simons et al .....	do .....	145. 20
	R. Q. Grant et al .....	do .....	127. 20
	G. A. Loveland et al .....	do .....	379. 80
	E. B. Richards et al .....	do .....	383. 20
	G. E. Franklin et al .....	do .....	220. 00

## 402 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

*Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.*

## GENERAL EXPENSES—SALARIES—WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1902. Sept. 30	H. B. Hersey et al	Salary	\$531.60
	G. N. Wilson et al	do	137.00
	H. R. Patrick et al	do	127.20
	S. E. Emery et al	do	327.60
	L. A. Denson et al	do	137.00
	W. M. Wilson et al	do	547.80
	T. S. Outram et al	do	447.00
	W. M. Dudley et al	do	169.51
	F. P. Chaffee et al	do	274.00
	G. E. Grimes et al	do	120.80
	H. C. Bate et al	do	492.40
	F. R. Beahan et al	do	166.20
	E. W. McGann et al	do	185.80
	L. M. Tarr et al	do	203.80
	H. F. Alciatore et al	do	451.60
	Henry Goucher et al	do	513.80
	J. J. Gray et al	do	311.40
	W. A. Shaw et al	do	122.20
	C. M. Strong et al	do	317.80
	L. A. Welsh et al	do	300.57
	J. G. Linsley et al	do	137.00
	E. C. Vose et al	do	233.20
	B. Bunnemeyer et al	do	137.00
	T. F. Townsend et al	do	676.80
	W. G. Burns et al	do	220.00
	O. C. Burrows et al	do	120.80
	Frank Ridgway et al	do	472.85
	E. A. Brown et al	do	137.00
	E. P. Jones et al	do	217.00
	A. B. Wollaber et al	do	445.20
	C. F. von Herrmann et al	do	353.80
	E. A. Evans et al	do	427.30
	L. M. Dey et al	do	228.20
	R. J. Hyall et al	do	407.80
	P. F. Lyons et al	do	285.40
	Allen Buell et al	do	203.80
	F. A. Carpenter et al	do	127.20
	E. H. Nimmo et al	do	137.00
	G. H. Willson et al	do	572.40
	R. M. Hardinge et al	do	203.80
	L. H. Murdoch et al	do	301.60
	A. G. Burns et al	do	135.40
	H. B. Boyer et al	do	233.20
	F. H. Clarke et al	do	220.00
	G. N. Salisbury et al	do	317.80
	J. W. Cronk et al	do	127.20
	U. G. Purcell et al	do	135.40
	Chas. Stewart et al	do	174.40
	M. E. Blystone et al	do	311.40
	J. S. Hazen et al	do	137.00
	A. McC. Ashley et al	do	232.17
	E. C. Hobbs et al	do	137.00
	L. H. Daingerfield et al	do	127.20
W. S. Currier et al	do	243.00	
T. B. Jennings et al	do	205.27	
W. S. Belden et al	do	242.80	
F. L. Johnson et al	do	127.20	
G. W. Felger et al	do	166.20	
G. W. Eddey	do	97.80	
Peter Wood	do	97.80	
B. D. Johnson	do	25.00	
O. L. Blue	do	45.65	
G. C. Coe	do	61.63	
S. D. Flora	do	47.93	
W. C. McGuiness	do	81.60	
B. M. Jacobs	do	24.40	
W. L. Day	do	97.80	
G. L. Lovett	do	15.83	
S. E. Bond	do	29.40	
W. S. Palmer	do	122.20	
W. F. Harn	do	12.50	
J. W. Byram	do	97.80	
A. Drinkwater	do	49.00	
G. T. Todd	do	97.80	
N. D. Lane	do	61.93	
J. I. Widmeyer	do	97.80	
A. H. Bell	do	97.80	
O. D. Stewart	do	97.80	
C. W. Ling	do	81.60	
C. S. Garrett	do	68.40	



## Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## GENERAL EXPENSES—SALARIES—WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Sept. 30	H. P. Hardin	Salary	\$81.60
	H. B. Dick	do	81.60
	F. Z. Gosenisch	do	97.80
	J. J. Doshier	do	58.80
	G. W. Scott	do	97.80
	H. F. Alps	do	81.60
	Duncan Howard	do	13.70
	W. G. Wilson	do	49.00
	E. T. Turner	do	62.58
	A. W. Kennie	do	25.00
	Abe Wiesner	do	15.98
	H. W. Grasse	do	81.60
	Hugo Legler	do	68.40
	M. E. Conway	do	68.40
	F. J. Walz	do	163.00
	J. J. Kelliher	do	81.60
	J. C. Piercy	do	97.80
	P. McDonough	do	97.80
	D. C. Grunow	do	81.60
	W. W. Thomas	do	68.40
	Charles Adie	do	68.40
	J. P. Slaughter	do	97.80
	W. D. Maxwell	do	97.80
	Maurice Connell	do	97.80
	B. S. Pague	do	146.80
	Thomas Gibson	do	81.60
	J. H. Scarr	do	97.80
	J. R. Williams	do	97.80
	E. R. Miller	do	68.40
	C. E. Johnson	do	58.80
	N. M. Cunningham	do	81.60
	F. Newman	do	97.80
	E. W. Daniels	do	25.00
	Julius Hayden	do	81.60
	O. W. Roberts	do	97.80
	S. Hackett	do	39.20
	E. L. Renoe	do	25.00
	R. M. Geddings et al	do	157.07
	G. F. Schneider et al	do	130.60
	R. H. Dean et al	do	97.80
	J. J. O'Donnell	do	4.00
	M. E. Kenealy	do	2.00
	E. J. Glass	do	97.80
	J. P. Bolton	do	97.80
	A. Walker	do	12.17
	Total first quarter		104,962.06
Oct. 9	R. S. Fuller	Salary	7.00
	do	do	30.00
	Don V. Burney	do	97.80
13	W. M. Fulton et al.	do	146.60
	J. R. Weeks et al	do	127.20
	R. M. Williamson	do	24.40
17	R. R. Roediger	do	20.00
22	Geo. Beesley	do	21.52
	W. E. Gray	do	23.33
25	R. R. Roediger	do	6.00
31	G. W. Eddey	do	101.10
	Peter Wood	do	101.10
	B. D. Johnson	do	25.00
	W. C. McGuinness	do	84.20
	S. D. Flora	do	62.81
	G. C. Coe	do	70.80
	O. L. Blue	do	70.80
	B. M. Jacobs	do	25.30
	W. L. Day	do	101.10
	W. S. Palmer	do	126.40
	S. E. Bond	do	30.30
	J. N. Ryker	do	101.10
	J. W. Byram	do	101.10
	A. Drinkwater	do	50.50
	L. T. Barger	do	60.60
	J. I. Widmeyer	do	101.10
	J. L. Bartlett	do	101.10
	F. W. Fisher	do	30.30
	A. H. Bell	do	101.10
	O. D. Stewart	do	101.10
	C. W. Ling	do	84.20
	C. C. Garrett	do	70.80

## 404 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

*Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.*

## GENERAL EXPENSES—SALARIES—WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1902. Oct. 31	H. P. Hardin	Salary	\$84.20
	H. B. Dick	do	84.20
	F. Z. Gosewisch	do	101.10
	J. J. Doshier	do	60.60
	G. W. Scott	do	101.10
	H. F. Allis	do	84.20
	W. G. Wilson	do	50.50
	E. L. Turner	do	84.20
	A. W. Kenzie	do	25.00
	H. W. Grasse	do	84.20
	Hugo Legler	do	70.80
	M. E. Conway	do	70.80
	F. J. Walz	do	168.50
	J. J. Kellher	do	84.20
	J. C. Piercy	do	101.10
	P. McDonough	do	101.10
	D. C. Grunow	do	84.20
	W. W. Thomas	do	70.80
	Charles Adie	do	70.80
	J. P. Slaughter	do	101.10
	W. D. Maxwell	do	101.10
	M. Connell	do	101.10
	Thomas Gibson	do	84.20
	J. H. Scarr	do	101.10
	J. R. Williams	do	101.10
	C. E. Johnson	do	60.60
	N. M. Cunningham	do	84.20
	F. Newman	do	101.10
	J. C. Hayden	do	84.20
	O. W. Roberts	do	101.10
	S. Hackett	do	40.40
	R. M. Geddings et al.	do	171.90
	P. M. Smyth et al.	do	220.70
	A. E. Hackett et al.	do	222.50
	D. P. McCallum et al.	do	370.60
	O. Parker et al.	do	149.90
	T. J. Considine et al.	do	220.70
	Geo. Reeder et al.	do	171.90
	S. W. Glenn et al.	do	240.90
	W. U. Simons et al.	do	149.90
	R. Q. Grant et al.	do	131.40
	S. C. Emery et al.	do	388.70
	W. M. Wilson et al.	do	566.10
	L. M. Tarr et al.	do	210.60
	W. A. Shaw et al.	do	126.40
	A. B. Wollaber et al.	do	459.90
	E. A. Evans et al.	do	458.20
	L. M. Dey et al.	do	235.90
	W. E. Oliver et al.	do	168.40
	A. McC. Ashley et al.	do	240.90
	E. R. Miller et al.	do	171.90
	F. L. Johnson et al.	do	131.40
	J. Marbury et al.	do	363.90
	Al Brand et al.	do	131.40
	A. F. Sims et al.	do	237.60
	F. H. Duff et al.	do	141.50
	D. Fisher et al.	do	149.90
	O. L. Fassig et al.	do	436.00
	W. E. Donaldson et al.	do	160.00
	T. L. Bridges et al.	do	510.40
	S. M. Blandford et al.	do	240.90
	D. Cuthbertson et al.	do	402.60
	J. H. Smith et al.	do	193.70
	L. N. Jesunofsky et al.	do	237.60
	L. M. Pindell et al.	do	224.00
	C. P. Cronk et al.	do	230.80
	G. R. Oberholzer et al.	do	212.30
	J. Kenealy et al.	do	362.20
	S. S. Bassler et al.	do	453.50
	C. E. Linney et al.	do	565.70
	J. Warren Smith et al.	do	557.60
	J. W. Bauer et al.	do	252.80
	F. Jermin et al.	do	124.60
	J. M. Sherier et al.	do	139.80
	G. M. Chappel et al.	do	422.90
	N. B. Conger et al.	do	460.00
	H. W. Richardson et al.	do	311.70
	J. L. Cline et al.	do	220.70
	D. C. Murphy et al.	do	131.40
	A. Ashenberger et al.	do	141.50

*Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.*

## GENERAL EXPENSES—SALARIES—WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1902. Oct. 31	F. S. Collins et al.	Salary	\$131.40
	W. H. Fallon et al.	do	131.10
	E. H. Bowie et al.	do	497.00
	F. W. Conrad et al.	do	131.40
	E. R. Demain et al.	do	220.70
	A. J. Davis et al.	do	134.70
	A. R. Teeple et al.	do	114.50
	R. B. Harkness et al.	do	131.40
	R. G. Allen et al.	do	353.90
	A. J. Mitchell et al.	do	363.90
	P. Connor et al.	do	321.80
	W. M. Fulton et al.	do	177.00
	C. F. Schneider et al.	do	197.20
	E. B. Richards et al.	do	395.90
	G. A. Loveland et al.	do	367.30
	H. B. Hersey et al.	do	549.20
	G. E. Franklin et al.	do	257.80
	G. N. Wilson et al.	do	141.50
	H. R. Patrick et al.	do	141.50
	J. R. Weeks et al.	do	131.40
	L. A. Denson et al.	do	141.50
	T. S. Outram et al.	do	461.50
	F. P. Chaffee et al.	do	283.00
	W. M. Dudley et al.	do	202.20
	G. E. Grimes et al.	do	124.60
	H. C. Bate et al.	do	508.80
	H. F. Alciatore et al.	do	476.80
	H. Goucher et al.	do	530.60
	F. R. Beahan et al.	do	232.50
	E. W. McGann et al.	do	192.10
	J. J. Gray et al.	do	335.20
	L. A. Welsh et al.	do	311.70
	C. M. Strong et al.	do	328.60
	J. G. Linsley et al.	do	141.50
	E. C. Vose et al.	do	240.90
	B. Bunnemeyer et al.	do	141.50
	F. Ridgway et al.	do	505.50
	T. F. Townsend et al.	do	712.50
	E. P. Jones et al.	do	224.00
	W. G. Burns et al.	do	252.70
	E. A. Brown et al.	do	141.50
	C. F. von Herrmann et al.	do	365.60
	F. A. Carpenter et al.	do	131.40
	R. M. Hardinge et al.	do	210.60
	F. H. Clarke et al.	do	156.70
	R. J. Hyatt et al.	do	390.80
	H. B. Boyer et al.	do	240.90
	E. H. Nimmo et al.	do	141.50
	G. H. Willson et al.	do	591.30
	Allen Buell et al.	do	220.70
	L. H. Murdoch et al.	do	311.70
	A. G. Burns et al.	do	139.80
	J. W. Cronk et al.	do	106.97
	G. N. Salisbury et al.	do	358.70
	J. S. Hazen et al.	do	141.50
	M. E. Blystone et al.	do	392.60
	Charles Stewart et al.	do	180.30
	L. H. Daingerfield et al.	do	131.40
	E. C. Hobbs et al.	do	141.50
	W. S. Currier et al.	do	251.00
	T. B. Jennings et al.	do	197.20
	W. S. Belden et al.	do	251.10
	G. W. Felger et al.	do	171.90
	T. D. Brohun.	do	30.00
	G. L. Lovett	do	12.90
	E. H. Davis.	do	30.00
	E. J. Glass	do	101.10
	B. H. Bronson et al.	do	247.09
	U. G. Purssell et al.	do	139.80
	O. C. Burrows et al.	do	124.60
	L. C. Cover et al.	do	131.40
	E. L. Renoe	do	25.00
	J. M. Ware	do	27.13
	R. H. Dean	do	101.10
	G. T. Todd	do	101.10
	B. S. Pague	do	151.60
	W. T. Blythe et al.	do	471.60
Nov. 8	N. D. Lane	do	48.93
11	J. A. Taylor	do	60.00
	E. Gilliland	do	30.00

## 406 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## GENERAL EXPENSES—SALARIES—WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Nov. 15	F. W. Fischer .....	Salary .....	\$1.96
	D. McMillan .....	do .....	27.00
17	E. H. Davis .....	do .....	10.00
	N. J. Gorosky .....	do .....	25.50
	J. P. Bolton .....	do .....	101.10
30	L. N. Jesunofsky et al. ....	do .....	298.20
	A. G. Burns et al. ....	do .....	135.40
	A. J. Davis et al. ....	do .....	130.60
	W. E. Oliver et al. ....	do .....	163.20
	L. J. Guthrie et al. ....	do .....	189.20
	N. R. Taylor et al. ....	do .....	166.20
	F. H. Duff et al. ....	do .....	137.00
	L. H. Murdoch et al. ....	do .....	301.60
	A. J. Mitchell et al. ....	do .....	352.20
	C. F. Schneider et al. ....	do .....	190.60
	F. P. Chaffee et al. ....	do .....	274.00
	A. Ashenberger et al. ....	do .....	137.00
	F. A. Carpenter et al. ....	do .....	127.20
	L. M. Tarr et al. ....	do .....	203.80
	W. S. Belden et al. ....	do .....	297.58
	T. F. Townsend et al. ....	do .....	690.00
	H. B. Boyer et al. ....	do .....	233.20
	R. Q. Grant et al. ....	do .....	127.20
	W. M. Dudley et al. ....	do .....	195.60
	J. S. Hazen et al. ....	do .....	137.00
	S. S. Bassler et al. ....	do .....	442.00
	David Fisher et al. ....	do .....	145.20
	T. B. Jennings et al. ....	do .....	220.00
	A. F. Sims et al. ....	do .....	229.80
	W. S. Currier et al. ....	do .....	161.40
	J. M. Sherier et al. ....	do .....	135.40
	M. E. Blystone et al. ....	do .....	190.60
	H. B. Hersey et al. ....	do .....	531.60
	Frank Jermin et al. ....	do .....	120.80
	L. A. Denson et al. ....	do .....	137.00
	H. C. Bate et al. ....	do .....	492.40
	J. W. Bauer et al. ....	do .....	244.40
	S. D. Flora .....	do .....	68.40
	R. L. Bentler .....	do .....	5.00
	J. B. Marbury et al. ....	do .....	381.40
	O. L. Fassig et al. ....	do .....	423.00
	S. M. Blandford et al. ....	do .....	233.20
	T. L. Bridges et al. ....	do .....	494.20
	David Cuthbertson et al. ....	do .....	389.80
	J. H. Smith et al. ....	do .....	187.60
	L. M. Pindell et al. ....	do .....	217.00
	C. E. Linney et al. ....	do .....	548.60
	D. P. McCallum et al. ....	do .....	358.80
	N. B. Conger et al. ....	do .....	513.40
	W. H. Fallon et al. ....	do .....	127.80
	Geo. Reeder et al. ....	do .....	152.50
	F. W. Conrad et al. ....	do .....	127.20
	A. R. Teeple et al. ....	do .....	111.00
	R. G. Allen et al. ....	do .....	342.20
	G. W. Wilson et al. ....	do .....	137.00
	H. R. Patrick et al. ....	do .....	137.00
	E. W. McGann et al. ....	do .....	185.80
	H. F. Alciatore et al. ....	do .....	461.40
	Henry Goucher et al. ....	do .....	582.20
	L. A. Welsh et al. ....	do .....	301.60
	J. G. Linsley et al. ....	do .....	137.00
	E. C. Vose et al. ....	do .....	233.20
	B. Bunnemeyer et al. ....	do .....	137.00
	Frank Ridgway et al. ....	do .....	420.60
	E. F. Jones et al. ....	do .....	217.00
	R. J. Hyatt et al. ....	do .....	407.80
	E. H. Nimmo et al. ....	do .....	137.00
	R. M. Hardinge et al. ....	do .....	203.80
	G. H. Willson et al. ....	do .....	572.40
	F. H. Clarke et al. ....	do .....	151.60
	G. L. Todd .....	do .....	97.80
	B. S. Pague .....	do .....	146.80
	A. Drinkwater .....	do .....	49.00
	J. M. Ware .....	do .....	81.60
	O. W. Roberts .....	do .....	97.80
	P. McDonough .....	do .....	97.80
	Walter W. Thomas .....	do .....	68.40
	J. I. Widmeyer .....	do .....	97.80
	Peter Wood .....	do .....	97.80
	J. W. Byram .....	do .....	97.80

*Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.*

## GENERAL EXPENSES—SALARIES—WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Nov. 30	H. F. Alps .....	Salary .....	\$81.60
	W. G. Burns .....	do .....	146.80
	C. C. Garrett .....	do .....	68.40
	H. Legler .....	do .....	68.40
	M. Connell .....	do .....	97.80
	J. H. Scarr .....	do .....	97.80
	G. W. Scott .....	do .....	97.80
	M. E. Conway .....	do .....	68.40
	J. J. Kelliher .....	do .....	81.60
	N. M. Cunningham .....	do .....	81.60
	H. B. Dick .....	do .....	81.60
	C. Adie .....	do .....	68.40
	D. C. Grunow .....	do .....	81.60
	J. N. Ryker .....	do .....	97.80
	J. R. Williams .....	do .....	97.80
	H. W. Grasse .....	do .....	81.60
	G. W. Eddy .....	do .....	97.80
	W. L. Day .....	do .....	97.80
	H. P. Hardin .....	do .....	81.60
	J. C. Hayden .....	do .....	81.60
	F. Z. Gosewisch .....	do .....	97.80
	J. P. Slaughter .....	do .....	97.80
	L. F. Barger .....	do .....	58.80
	G. L. Lovett .....	do .....	25.00
	B. M. Jacobs .....	do .....	24.40
	C. E. Johnson .....	do .....	58.80
	T. Gibson .....	do .....	81.60
	J. P. Bolton .....	do .....	97.80
	W. D. Maxwell .....	do .....	97.80
	F. J. Walz .....	do .....	163.00
	C. W. Ling .....	do .....	81.60
	W. C. McGuinness .....	do .....	81.60
	F. Newman .....	do .....	97.80
	J. C. Piercy .....	do .....	97.80
	A. H. Bell .....	do .....	97.80
	F. R. Beahan .....	do .....	97.80
	J. L. Bartlett .....	do .....	97.80
	J. J. Doshier .....	do .....	58.80
	O. Parker et al .....	do .....	145.20
	O. C. Burrows et al .....	do .....	120.80
	J. J. Gray et al .....	do .....	324.60
	A. McC. Ashley et al .....	do .....	233.20
	D. C. Murphy et al .....	do .....	127.20
	W. M. Fulton et al .....	do .....	171.00
	P. Connor et al .....	do .....	311.40
	Allen Buell et al .....	do .....	213.60
	Al Brand et al .....	do .....	127.20
	G. E. Franklin et al .....	do .....	249.40
	C. P. Cronk et al .....	do .....	223.40
	H. W. Richardson et al .....	do .....	301.60
	W. T. Blythe et al .....	do .....	456.80
	E. B. Richards et al .....	do .....	383.20
	C. M. Strong et al .....	do .....	317.80
	C. Stewart et al .....	do .....	174.40
	T. S. Outram et al .....	do .....	447.00
	E. C. Hobbs et al .....	do .....	137.00
	J. W. Cronk et al .....	do .....	122.26
	G. W. Felger et al .....	do .....	234.60
	L. H. Daingerfield et al .....	do .....	127.20
	L. G. Sutton et al .....	do .....	127.20
	U. G. Purssell et al .....	do .....	135.40
	G. E. Grimes et al .....	do .....	120.80
	E. H. Bowie et al .....	do .....	481.00
	L. M. Dey et al .....	do .....	228.20
	T. J. Considine et al .....	do .....	213.60
	A. E. Hackett et al .....	do .....	215.00
	L. C. Cover et al .....	do .....	127.20
	W. M. Wilson et al .....	do .....	547.80
	E. E. Demain et al .....	do .....	213.60
	R. B. Harkness et al .....	do .....	127.20
	C. F. von Herrmann et al .....	do .....	353.80
	E. A. Evans et al .....	do .....	443.60
	P. H. Smyth et al .....	do .....	213.60
	R. M. Geddings et al .....	do .....	166.20
	W. U. Simons et al .....	do .....	145.20
	J. Kenealy et al .....	do .....	350.60
	B. H. Bronson et al .....	do .....	243.00
	S. W. Glenn et al .....	do .....	233.20
	T. S. Collins et al .....	do .....	127.20
	W. E. Donaldson et al .....	do .....	155.00

## 408 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

*Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.*

## GENERAL EXPENSES—SALARIES—WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Nov. 30	J. Warren Smith et al	Salary	\$539.80
	S. C. Emery et al	do	327.60
	C. E. Chamberlin et al	do	107.60
	G. M. Chappel et al	do	409.20
	S. Hackett	do	39.20
	E. T. Turner	do	81.60
	R. H. Dean	do	97.80
	N. D. Lane	do	97.80
	F. L. Johnson et al	do	75.03
	W. A. Shaw et al	do	122.20
	E. A. Brown et al	do	137.00
	J. L. Cline	do	49.48
	E. L. Renoe	do	25.00
	S. B. Pfanner	do	5.43
	A. W. Kennie	do	25.00
	E. J. Glass	do	97.80
	A. B. Wollaber et al	do	424.33
	G. A. Loveland et al	do	331.00
	J. R. Weeks et al	do	127.20
	G. R. Oberhoizer et al	do	137.00
Dec. 3	G. N. Salisbury et al	do	327.60
	W. S. Palmer et al	do	151.60
6	J. A. Taylor	do	60.00
9	H. Leighton	do	23.00
18	H. F. Barnett	do	54.58
	W. S. Saunders	do	13.00
22	E. Gilland	do	30.00
	T. S. Vaughn	do	9.66
23	B. F. Pauken	do	30.00
	J. H. Killian	do	4.50
	R. L. Bentler	do	21.00
31	A. F. Sims et al	do	237.60
	R. M. Geddings et al	do	171.90
	O. L. Fassig et al	do	436.00
	B. H. Bronson et al	do	251.00
	S. M. Blandford et al	do	249.90
	T. L. Bridges et al	do	510.40
	David Cuthbertson et al	do	402.60
	P. H. Smyth et al	do	220.70
	C. P. Cronk et al	do	160.60
	J. H. Smith et al	do	193.70
	L. N. Jesunofsky et al	do	237.60
	L. M. Pindell et al	do	224.00
	C. E. Linney et al	do	565.70
	S. S. Bassler et al	do	456.50
	A. E. Hackett et al	do	222.50
	J. W. Bauer et al	do	252.80
	Frank Jermin et al	do	124.60
	J. M. Sherier et al	do	139.80
	G. M. Chappel et al	do	422.90
	N. B. Conger et al	do	530.80
	Orin Parker et al	do	149.90
	H. W. Richardson et al	do	304.91
	D. M. Murphy et al	do	131.40
	A. Ashenberger et al	do	141.50
	J. L. Cline et al	do	220.70
	Geo. Reeder et al	do	171.90
	E. H. Bowie et al	do	426.20
	W. H. Fallon et al	do	131.10
	F. W. Conrad et al	do	131.40
	L. C. Cover et al	do	131.40
	E. R. Demain et al	do	220.70
	A. J. Davis et al	do	134.70
	A. R. Teeple et al	do	114.50
	S. W. Glenn et al	do	240.90
	W. T. Blythe et al	do	471.60
	R. G. Allen et al	do	379.10
	A. J. Mitchell et al	do	363.90
	P. Connor et al	do	347.00
	W. U. Simons et al	do	220.70
	R. Q. Grant et al	do	131.40
	G. A. Loveland et al	do	412.80
	G. E. Franklin et al	do	257.80
	H. B. Hersey et al	do	549.20
	G. N. Wilson et al	do	141.50
	H. R. Patrick et al	do	141.50
	T. S. Outram et al	do	461.50
	W. M. Wilson et al	do	566.10
	F. P. Chaffee et al	do	283.00
	G. E. Grimes et al	do	124.60

*Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.*

## GENERAL EXPENSES—SALARIES—WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Dec. 31	H. C. Bate et al	Salary	\$508.80
	E. W. McGann et al	do	192.10
	L. M. Tarr et al	do	210.60
	H. F. Alciatore et al	do	476.80
	J. J. Gray et al	do	335.20
	C. M. Strong et al	do	328.60
	L. A. Welch et al	do	311.70
	J. G. Linsley et al	do	141.50
	E. C. Vose et al	do	240.90
	B. Bunнемeyer et al	do	141.50
	T. F. Townsend et al	do	712.50
	O. C. Burrows et al	do	124.60
	F. Ridgway et al	do	434.70
	E. A. Brown et al	do	141.50
	E. P. Jones et al	do	224.00
	A. B. Wollaber et al	do	362.47
	C. F. von Herrmann et al	do	365.60
	L. M. Dey et al	do	235.90
	Allen Buell et al	do	220.70
	F. A. Carpenter et al	do	131.40
	E. H. Nimmo et al	do	141.50
	G. H. Willson et al	do	591.30
	R. J. Hyatt et al	do	350.30
	W. E. Oliver et al	do	168.40
	R. M. Hardinge et al	do	210.60
	A. G. Burns et al	do	139.80
	H. B. Boyer et al	do	240.90
	E. H. Clarke et al	do	156.70
	G. N. Salisbury et al	do	352.10
	U. G. Pursell et al	do	139.80
	C. Stewart et al	do	180.30
	L. J. Guthrie et al	do	195.40
	A. McC. Ashley et al	do	240.90
	E. C. Hobbs et al	do	141.50
	F. R. Beahan et al	do	171.90
	N. R. Taylor et al	do	171.90
	L. H. Daingerfield et al	do	131.40
	W. S. Currier et al	do	166.80
	G. W. Felger et al	do	171.90
	F. H. Duff et al	do	141.50
	J. B. Marbury et al	do	424.60
	D. Fisher et al	do	149.90
	James Kenealy et al	do	362.20
	D. P. McCallum et al	do	282.22
	R. B. Harkness et al	do	131.40
	W. M. Fulton et al	do	177.00
	H. Goucher et al	do	614.80
	L. A. Denson et al	do	141.50
	T. J. Considine et al	do	220.70
	J. R. Weeks et al	do	131.40
	L. H. Murdoch et al	do	328.60
	J. S. Hazen et al	do	141.50
	W. M. Dudley et al	do	202.20
	S. E. Emery et al	do	338.70
	W. S. Belden et al	do	251.10
	G. T. Todd et al	do	136.00
	G. W. Eddey	do	101.10
	Peter Wood	do	101.10
	B. D. Johnson	do	25.00
	do	do	25.00
	L. S. Warner	do	6.85
	do	do	19.00
	W. C. McGuinness	do	84.20
	B. M. Jacobs	do	25.30
	G. L. Lovett	do	25.00
	F. J. Walz	do	168.50
	J. N. Ryker	do	101.10
	J. W. Byram	do	101.10
	A. Drinkwater	do	50.50
	F. L. Ruble	do	70.80
	J. L. Bartlett	do	101.10
	A. H. Bell	do	101.10
	J. P. Bolton	do	101.10
	B. B. McKay	do	70.80
	C. W. Ling	do	84.20
	C. C. Garrett	do	70.80
	H. P. Hardin	do	84.20
	H. B. Dick	do	84.20
	F. Z. Gosewisch	do	101.10
	E. M. Keyser	do	70.80

410 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

GENERAL EXPENSES—SALARIES—WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1902. Dec. 31	H. F. Alps	Salary	\$84.20
	A. C. Pickels	do	70.80
	A. W. Kennie	do	25.00
	H. W. Grasse	do	84.20
	H. Legler	do	70.80
	J. M. Ware	do	84.20
	J. J. Kelliher	do	84.20
	J. C. Piercy	do	101.10
	P. McDonough	do	101.10
	D. C. Grunow	do	84.20
	W. W. Thomas	do	70.80
	Chas. Adie	do	70.80
	J. P. Slaughter	do	101.10
	W. D. Maxwell	do	101.10
	J. H. Scarr	do	101.10
	J. R. Williams	do	101.10
	J. M. Kirk	do	70.80
	W. G. Burns	do	151.60
	C. E. Johnson	do	60.60
	J. I. Widmeyer	do	101.10
	N. M. Cunningham	do	84.20
	F. Newman	do	101.10
	E. J. Glass	do	101.10
	J. C. Hayden	do	84.20
	O. W. Roberts	do	101.10
	N. D. Lane	do	101.10
	J. J. Doshier	do	60.60
	E. D. Coberly	do	70.80
	W. L. Day	do	101.10
	G. R. Oberholzer et al.	do	141.50
	J. Warren Smith et al.	do	557.60
	C. F. Schneider et al.	do	197.20
	W. A. Shaw et al.	do	126.40
	T. B. Jennings et al.	do	227.50
	Thomas Gibson	do	84.20
	M. E. Blystone et al.	do	197.20
	T. S. Collins et al.	do	120.67
	E. B. Richards et al.	do	378.32
	W. E. Donaldson et al.	do	168.85
	Geo. Beesley	do	60.60
	E. L. Renoe	do	25.00
	Sumner Hackett	do	40.40
	R. H. Dean	do	101.10
	E. A. Evans et al.	do	467.05
	L. F. Barger	do	60.60
	O. D. Stewart	do	68.45
	W. S. Palmer et al.	do	156.70
	A. Brand et al.	do	131.40
	S. S. Schworm	do	30.30
	W. S. Saunders	do	17.00
	J. W. Beates	do	70.80
	J. W. Cronk et al.	do	131.40
	B. F. Pauken	do	8.00
	J. C. Yezerski	do	73.60
	M. Connell	do	101.10
	Total second quarter		106,982.42
1903. Jan. 9	M. E. Conway	Salary	70.80
	R. L. Bentler	do	27.00
	F. R. Wicks	do	19.00
	Stanley Boykin	do	15.98
10	Virgil Wood	do	9.00
15	do	do	5.00
20	A. Stafford	do	15.00
	E. Gilliland	do	21.00
	Peter Duranceau, jr.	do	2.61
	G. W. Scott	do	101.10
31	A. F. Sims et al.	do	242.80
	R. M. Geddings et al.	do	175.60
	J. B. Marbury et al.	do	433.90
	A. Brand et al.	do	154.30
	David Fisher et al.	do	153.20
	O. L. Fassig et al.	do	445.10
	B. H. Bronson et al.	do	256.60
	S. M. Blandford et al.	do	246.30
	T. L. Bridges et al.	do	521.70
	D. Cuthbertson et al.	do	411.50
	P. H. Smyth et al.	do	225.50



Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## GENERAL EXPENSES—SALARIES—WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1903, Jan. 31	C. P. Cronk et al	Salary	\$163.60
	J. H. Smith et al	do	198.00
	L. N. Jesunofsky et al	do	242.80
	G. R. Oberholzer et al	do	144.60
	L. M. Pindell et al	do	229.00
	W. S. Palmer et al	do	160.20
	F. J. Walz et al	do	767.20
	S. S. Bassler et al	do	466.60
	J. Kenealy et al	do	456.30
	A. E. Hackett et al	do	227.30
	J. W. Bauer et al	do	258.30
	J. Warren Smith et al	do	589.93
	F. Jermin et al	do	127.40
	J. M. Sherier et al	do	142.90
	D. P. McCallum et al	do	440.10
	G. W. Chappel et al	do	432.20
	N. B. Conger et al	do	542.30
	Orin Parker et al	do	153.20
	H. W. Richardson et al	do	318.60
	D. C. Murphy et al	do	134.30
	A. Ashenberger et al	do	144.60
	T. J. Considine et al	do	225.50
	J. L. Cline et al	do	225.50
	T. S. Collins et al	do	129.30
	Geo. Reeder et al	do	184.20
	E. H. Bowie et al	do	508.00
	W. H. Fallon et al	do	144.60
	R. H. Sullivan et al	do	103.30
	F. W. Conrad et al	do	134.30
	L. C. Cover et al	do	134.30
	E. R. Demain et al	do	225.50
	E. S. Nichols et al	do	117.10
	R. B. Harkness et al	do	134.30
	S. W. Glenn et al	do	246.30
	W. T. Blythe et al	do	451.20
	R. G. Allen et al	do	387.40
	A. J. Mitchell et al	do	371.90
	W. U. Simons et al	do	225.50
	W. M. Fulton et al	do	180.80
	R. Q. Grant et al	do	134.30
	C. F. Schneider et al	do	201.50
	R. H. Dean et al	do	128.30
	G. A. Loveland et al	do	427.57
	E. B. Richards et al	do	384.37
	G. E. Franklin et al	do	263.50
	H. B. Hersey et al	do	561.30
	G. N. Wilson et al	do	144.60
	J. E. Weeks et al	do	134.30
	H. R. Patrick et al	do	144.60
	S. C. Emery et al	do	346.10
	Louis Lodholz et al	do	127.40
	W. M. Wilson et al	do	588.80
	T. S. Outram et al	do	471.80
	W. M. Dudley et al	do	206.60
	F. P. Chaffee et al	do	289.30
	G. E. Grimes et al	do	127.40
	H. C. Bate et al	do	520.00
	E. W. McGann et al	do	196.30
	L. M. Tarr et al	do	215.20
	H. F. Alciatore et al	do	487.20
	H. Goucher et al	do	628.40
	J. J. Gray et al	do	342.70
	W. A. Shaw et al	do	129.10
	C. M. Strong et al	do	335.80
	L. A. Welsh et al	do	318.60
	J. G. Linsley et al	do	144.60
	E. C. Vose et al	do	246.30
	B. Bunnemeyer et al	do	144.60
	T. F. Townsend et al	do	728.30
	O. C. Burrows et al	do	127.40
	F. Ridgway et al	do	444.20
	E. A. Brown et al	do	144.60
	E. P. Jones et al	do	229.00
	A. B. Wollaber et al	do	342.60
	J. P. Slaughter et al	do	175.60
	E. A. Evans et al	do	478.70
	G. W. Eddy	do	103.30
	W. E. Donaldson et al	do	173.90
	A. J. Davis et al	do	137.80
	P. Connor et al	do	354.70

## 412 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

*Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.*

## GENERAL EXPENSES—SALARIES—WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Jan. 31	C. F. von Herrmann et al.	Salary	\$390.90
	L. M. Dey et al.	do	241.10
	R. J. Hyall et al.	do	428.20
	W. E. Oliver et al.	do	189.40
	L. H. Murdoch et al.	do	335.80
	A. Buell et al.	do	225.50
	F. A. Carpenter et al.	do	134.30
	E. H. Nimmo et al.	do	144.60
	G. H. Willson et al.	do	676.70
	R. M. Hardinge et al.	do	215.30
	A. G. Burns et al.	do	142.90
	H. B. Boyer et al.	do	246.30
	F. H. Clarke et al.	do	160.20
	G. N. Salisbury et al.	do	346.10
	J. W. Cronk et al.	do	134.30
	Chas. Stewart et al.	do	184.20
	W. G. Burns et al.	do	354.70
	J. S. Hazen et al.	do	144.60
	A. McC. Ashley et al.	do	246.30
	E. C. Hobbs et al.	do	144.60
	N. R. Taylor et al.	do	175.60
	L. H. Daingerfield et al.	do	134.30
	W. S. Currier et al.	do	256.60
	T. B. Jennings et al.	do	160.20
	W. S. Belden et al.	do	256.50
	G. T. Todd et al.	do	142.90
	G. W. Felger et al.	do	175.60
	Peter Wood	do	103.30
	B. M. Jacobs	do	25.80
	W. L. Day	do	103.30
	W. G. Wilson	do	26.67
	J. W. Byram	do	103.30
	J. N. Ryker	do	103.30
	A. Drinkwater	do	51.70
	C. E. Faulhaber	do	60.00
	E. D. Emigh	do	86.10
	N. D. Lane	do	103.30
	J. L. Bartlett	do	103.30
	S. S. Schworm	do	31.00
	A. H. Bell	do	103.30
	E. L. Renoe	do	25.00
	C. W. Ling	do	86.10
	C. C. Garrett	do	72.30
	H. P. Hardin	do	86.10
	H. B. Dick	do	86.10
	F. Z. Gosewisch	do	103.30
	J. J. Doshier	do	62.00
	G. W. Scott	do	103.30
	H. F. Alps	do	86.10
	A. C. Pickels	do	72.30
	A. W. Kenzie	do	25.00
	H. W. Grasse	do	86.10
	Hugo Legler	do	72.30
	M. E. Conway	do	72.30
	Geo. Beesley	do	62.00
	J. J. Kelliher	do	86.10
	J. C. Percy	do	103.30
	P. McDonough	do	103.30
	M. E. Blystone	do	129.20
	D. C. Grunow	do	86.10
	W. W. Thomas	do	72.30
	Chas. Adie	do	72.30
	W. D. Maxwell	do	103.30
	M. Connell	do	103.30
	Thos. Gibson	do	86.10
	J. H. Scarr	do	103.30
	J. R. Williams	do	103.30
	C. E. Johnson	do	62.00
	N. M. Cunningham	do	86.10
	E. J. Glass	do	103.30
	J. C. Hayden	do	86.10
	J. I. Widmeyer	do	103.30
	O. W. Roberts	do	103.30
	Sumner Hackett	do	51.70
	G. L. Lovett	do	25.00
	W. C. McGuiness	do	86.10
	J. A. Taylor	do	65.00
	do	do	15.00
	S. J. McAninch	do	6.00
	F. H. Duff et al.	do	144.60

*Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.*

## GENERAL EXPENSES—SALARIES—WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment	Total.
1903.			
Jan. 31	O. D. Stewart .....	Salary .....	\$23.33
	B. D. Johnson .....	do .....	25.00
	R. M. Covert .....	do .....	40.00
	E. G. Colvin .....	do .....	6.67
	F. R. Wicks .....	do .....	9.00
	U. G. Pursell et al .....	do .....	142.90
Feb. 4	F. R. Beahan et al .....	do .....	175.60
10	J. C. Yezerki .....	do .....	86.40
	W. S. Saunders .....	do .....	37.00
	H. F. Barnett .....	do .....	15.00
	E. A. Stafford .....	do .....	14.00
12	F. Newman .....	do .....	103.30
20	L. F. Barger .....	do .....	62.00
	C. S. Grindle .....	do .....	21.00
	J. P. Bolton .....	do .....	103.30
28	A. F. Sims et al .....	do .....	219.40
	R. M. Geddings et al .....	do .....	158.80
	J. B. Marbury et al .....	do .....	382.20
	A. Brand et al .....	do .....	121.40
	D. Fisher et al .....	do .....	138.60
	O. L. Fassig et al .....	do .....	404.80
	B. H. Brownson et al .....	do .....	231.80
	S. M. Blandford et al .....	do .....	222.40
	T. L. Bridges et al .....	do .....	471.60
	D. Cuthberston et al .....	do .....	372.00
	P. H. Smyth et al .....	do .....	204.00
	C. P. Cronk et al .....	do .....	147.80
	J. H. Smith et al .....	do .....	179.00
	L. N. Jesunofsky et al .....	do .....	219.40
	G. R. Oberholzer et al .....	do .....	130.80
	L. M. Pindell et al .....	do .....	207.00
	F. J. Walz et al .....	do .....	673.80
	S. S. Bassler et al .....	do .....	421.80
	J. Kenealy et al .....	do .....	412.40
	A. E. Hackett et al .....	do .....	205.40
	J. W. Bauer et al .....	do .....	233.40
	Frank Jermin et al .....	do .....	115.20
	J. Warren Smith et al .....	do .....	533.80
	J. M. Sherier et al .....	do .....	185.20
	D. P. McCallum et al .....	do .....	407.80
	G. M. Chappel et al .....	do .....	380.60
	F. H. Duff et al .....	do .....	130.80
	N. B. Conger et al .....	do .....	490.40
	O. Parker et al .....	do .....	138.60
	H. W. Richardson et al .....	do .....	287.80
	D. C. Murphy et al .....	do .....	121.40
	A. Ashenberger et al .....	do .....	130.80
	T. J. Considine et al .....	do .....	204.00
	J. L. Cline et al .....	do .....	204.00
	T. S. Collins et al .....	do .....	121.40
	Geo. Reeder et al .....	do .....	166.60
	E. H. Bowie et al .....	do .....	459.00
	W. H. Fallon et al .....	do .....	130.80
	F. W. Courad et al .....	do .....	121.40
	L. C. Cover et al .....	do .....	121.40
	E. R. Demain et al .....	do .....	204.00
	E. S. Nichols et al .....	do .....	105.80
	R. B. Harkness et al .....	do .....	121.40
	S. W. Glenn et al .....	do .....	222.40
	W. T. Blythe et al .....	do .....	407.60
	A. J. Mitchell et al .....	do .....	336.20
	P. Connor et al .....	do .....	255.20
	W. U. Simons et al .....	do .....	204.00
	J. J. Doshier et al .....	do .....	102.60
	W. M. Fulton et al .....	do .....	163.40
	R. Q. Grant et al .....	do .....	121.40
	C. F. Schneider et al .....	do .....	182.00
	R. H. Dean et al .....	do .....	118.40
	G. A. Loveland et al .....	do .....	390.60
	E. B. Richards et al .....	do .....	337.60
	G. E. Franklm et al .....	do .....	238.00
	H. B. Hersey et al .....	do .....	414.00
	G. N. Wilson et al .....	do .....	130.80
	J. R. Weeks et al .....	do .....	121.40
	H. R. Patrick et al .....	do .....	130.80
	S. C. Emery et al .....	do .....	312.80
	W. M. Wilson et al .....	do .....	532.40
	T. S. Outram et al .....	do .....	426.40
	W. M. Dudley et al .....	do .....	186.80
	F. P. Chaffee et al .....	do .....	261.40

## 414 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

*Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.*

## GENERAL EXPENSES—SALARIES—WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Feb. 28	G. E. Grimes et al.....	Salary.....	\$115.20
	H. C. Bate et al.....	do.....	470.00
	E. W. McGann et al.....	do.....	177.40
	L. M. Farr et al.....	do.....	206.07
	P. F. Alciatore et al.....	do.....	440.60
	H. Goucher et al.....	do.....	568.20
	W. A. Shaw et al.....	do.....	116.80
	C. M. Strong et al.....	do.....	303.40
	L. A. Welsh et al.....	do.....	287.80
	J. G. Linsley et al.....	do.....	130.80
	E. C. Vose et al.....	do.....	222.40
	B. Bunnemeyer et al.....	do.....	130.80
	T. F. Townsend et al.....	do.....	658.40
	M. E. Blystone et al.....	do.....	194.40
	G. W. Eddey.....	do.....	93.40
	I. C. Burrows et al.....	do.....	115.20
	F. E. Ridgway et al.....	do.....	401.60
	E. A. Brown et al.....	do.....	130.80
	E. P. Jones et al.....	do.....	207.00
	A. B. Wollaber et al.....	do.....	309.80
	J. P. Slaughter et al.....	do.....	158.80
	C. F. von Herrmann et al.....	do.....	418.60
	L. M. Dey et al.....	do.....	194.40
	R. J. Hyall et al.....	do.....	389.00
	W. E. Oliver et al.....	do.....	171.20
	L. H. Murdoch et al.....	do.....	303.40
	A. Buell et al.....	do.....	204.00
	F. A. Carpenter et al.....	do.....	121.40
	E. H. Himmo et al.....	do.....	130.80
	G. H. Willson et al.....	do.....	546.20
	R. M. Hardinge et al.....	do.....	194.40
	A. G. Burns et al.....	do.....	129.20
	H. B. Boyer et al.....	do.....	222.40
	F. H. Clarke et al.....	do.....	144.60
	G. N. Salisbury et al.....	do.....	219.40
	J. W. Cronk et al.....	do.....	121.40
	U. G. Purssell et al.....	do.....	129.20
	C. Stewart et al.....	do.....	166.60
	W. G. Burns et al.....	do.....	320.60
	A. McC. Ashley et al.....	do.....	222.40
	N. R. Taylor et al.....	do.....	158.80
	F. R. Beahan et al.....	do.....	158.80
	L. H. Daingerfield et al.....	do.....	121.40
	W. S. Currier et al.....	do.....	231.80
	T. B. Jennings et al.....	do.....	144.60
	W. S. Belden et al.....	do.....	245.00
	G. T. Todd et al.....	do.....	129.20
	G. W. Felger et al.....	do.....	158.80
	Peter Wood.....	do.....	93.40
	W. C. McGuiness.....	do.....	77.80
	B. M. Jacobs.....	do.....	23.40
	W. L. Day.....	do.....	93.40
	J. N. Ryker.....	do.....	93.40
	G. L. Lovett.....	do.....	25.00
	J. W. Byram.....	do.....	93.40
	A. Drinkwater.....	do.....	46.60
	E. D. Emigh.....	do.....	77.80
	L. F. Barger.....	do.....	56.00
	J. L. Bartlett.....	do.....	93.40
	S. S. Schworm.....	do.....	28.60
	A. H. Bell.....	do.....	93.40
	J. P. Bolton.....	do.....	93.40
	R. H. Sullivan.....	do.....	93.40
	C. W. Ling.....	do.....	77.80
	C. C. Garrett.....	do.....	65.40
	H. P. Hardin.....	do.....	77.80
	H. B. Dick.....	do.....	77.80
	W. P. Stewart.....	do.....	53.73
	F. Z. Gosewisch.....	do.....	93.40
	G. W. Scott.....	do.....	93.40
	H. F. Alps.....	do.....	77.80
	A. W. Kennie.....	do.....	25.00
	H. W. Grassee.....	do.....	77.80
	H. Legler.....	do.....	65.40
	M. E. Conway.....	do.....	65.40
	J. J. Kelliher.....	do.....	77.80
	J. C. Piercy.....	do.....	93.40
	P. McDonough.....	do.....	93.40
	D. C. Grunow.....	do.....	77.80
	W. W. Thomas.....	do.....	65.40

## Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## GENERAL EXPENSES—SALARIES—WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Feb. 28	S. Boyken	Salary	\$65.40
	Chas. Adie	do	65.40
	W. D. Maxwell	do	93.40
	M. Connell	do	93.40
	S. C. Calvert	do	56.00
	Thos. Gibson	do	77.80
	J. R. Williams	do	93.40
	E. C. Hobbs	do	93.40
	C. E. Johnson	do	56.00
	N. M. Cunningham	do	27.80
	W. Bell	do	93.40
	J. C. Hayden	do	77.80
	J. I. Widmeyer	do	93.40
	W. E. Moore	do	30.00
	R. L. Bentler	do	27.00
	A. J. Davis et al.	do	124.40
	W. S. Palmer et al.	do	144.60
	E. A. Evans et al.	do	376.60
	J. S. Hazen et al.	do	130.80
	L. Lodholz et al.	do	115.20
	J. H. Scarr	do	93.40
	O. W. Roberts	do	93.40
	S. P. Gresham	do	97.50
	do	do	3.33
	S. Hackett	do	46.60
	G. Beesley	do	56.00
	E. L. Renoe	do	25.00
	G. B. Wurtz	do	40.00
	F. Newman	do	93.40
	J. J. Gray et al.	do	309.60
	L. C. Ross	do	12.00
	N. D. Lane	do	93.40
	J. C. Yezerski	do	76.80
	M. Hull	do	67.20
	E. J. Glass	do	93.40
	W. E. Donaldson et al.	do	157.20
	E. G. Colvin	do	37.40
	H. L. Wilcox	do	19.00
	R. G. Allen et al.	do	350.20
Mar. 9	E. H. Faustman	do	5.00
	Merlin Hull	do	28.80
17	W. S. Saunders	do	24.00
	W. E. Moore	do	7.50
24	J. P. Fallihee	do	4.00
31	A. F. Sims et al.	do	242.80
	R. M. Geddings et al.	do	175.60
	J. B. Marbury et al.	do	433.90
	A. Brand et al.	do	134.30
	D. Fisher	do	153.20
	W. E. Donaldson et al.	do	173.90
	B. H. Bronson et al.	do	256.60
	S. M. Blandford et al.	do	246.90
	D. Cuthbertson et al.	do	432.20
	P. H. Smyth et al.	do	225.50
	C. P. Cronk et al.	do	163.60
	J. H. Smith et al.	do	198.00
	L. N. Jesunofsky et al.	do	242.80
	G. R. Oberholzer et al.	do	144.60
	L. M. Pindell et al.	do	229.00
	S. S. Bassler et al.	do	466.60
	James Kenealy et al.	do	456.30
	A. E. Hackett et al.	do	227.30
	J. W. Bauer et al.	do	258.30
	J. Warren Smith et al.	do	590.60
	F. Jermin et al.	do	127.40
	J. M. Sherier et al.	do	204.90
	J. A. Barwick et al.	do	347.80
	G. M. Chappel et al.	do	432.20
	N. B. Conger et al.	do	542.30
	O. Parker et al.	do	153.20
	H. W. Richardson et al.	do	318.60
	D. C. Murphy et al.	do	134.30
	A. Ashenberger et al.	do	144.60
	T. J. Considine et al.	do	225.50
	G. B. Wurtz et al.	do	134.30
	J. L. Cline et al.	do	153.20
	T. S. Collins et al.	do	134.30
	Geo. Reeder et al.	do	184.20
	E. H. Bowie et al.	do	526.30
	W. H. Fallon et al.	do	144.60

## 416 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

*Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.*

## GENERAL EXPENSES—SALARIES—WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1903, Mar. 31	F. W. Conrad et al	Salary	\$134.30
	L. C. Cover et al	do	134.30
	E. R. Demain et al	do	239.53
	A. J. Davis et al	do	137.80
	R. B. Harkness et al	do	134.30
	S. W. Glenn et al	do	246.30
	W. T. Blythe et al	do	451.20
	R. G. Allen et al	do	375.10
	A. J. Mitchell et al	do	371.90
	P. Connor et al	do	354.70
	W. U. Simons et al	do	2 5.50
	J. J. Doshier et al	do	113.70
	W. M. Fulton et al	do	180.80
	R. Q. Grant et al	do	134.30
	G. A. Loveland et al	do	432.20
	G. E. Franklin et al	do	263.50
	H. B. Hersey et al	do	569.90
	G. N. Wilson et al	do	144.60
	J. R. Weeks et al	do	134.30
	H. R. Patrick et al	do	144.60
	S. C. Emery et al	do	346.10
	L. A. Denson et al	do	144.60
	W. M. Wilson et al	do	588.80
	T. S. Outram et al	do	471.80
	W. M. Dudley et al	do	206.60
	F. P. Chaffee et al	do	289.30
	Geo. E. Grimes et al	do	127.40
	H. C. Eate et al	do	520.00
	E. W. McGann et al	do	196.30
	L. M. Tarr et al	do	242.80
	H. F. Alciatore et al	do	487.20
	H. Goucher et al	do	628.40
	J. J. Gray et al	do	342.70
	W. A. Shaw et al	do	129.10
	C. M. Strong et al	do	355.80
	L. A. Welsh et al	do	288.60
	J. G. Linsley et al	do	144.60
	E. C. Vose et al	do	246.30
	B. Bunnemeyer et al	do	144.60
	M. E. Blystone et al	do	215.30
	T. F. Townsend et al	do	728.30
	O. C. Burrows et al	do	127.40
	A. McC. Ashley et al	do	418.40
	E. A. Brown et al	do	144.60
	E. P. Jones et al	do	229.00
	A. B. Wollaber et al	do	342.60
	J. P. Slaughter et al	do	175.60
	C. F. von Herrmann et al	do	463.20
	E. A. Evans et al	do	453.00
	L. M. Dey et al	do	246.30
	R. J. Hyatt et al	do	430.50
	W. E. Oliver et al	do	189.40
	L. H. Murdoch et al	do	421.90
	A. Buell et al	do	225.50
	F. A. Carpenter et al	do	134.30
	E. H. Nimmo et al	do	144.60
	G. H. Willson et al	do	676.70
	R. M. Hardinge et al	do	215.30
	H. B. Boyer et al	do	246.30
	G. N. Salisbury et al	do	346.10
	F. H. Clarke et al	do	160.20
	J. W. Cronk et al	do	134.30
	U. G. Pursell et al	do	142.90
	Charles Stewart et al	do	184.20
	Wm. G. Burns et al	do	354.70
	J. S. Hazen et al	do	144.60
	M. R. Sanford et al	do	117.10
	N. R. Taylor et al	do	175.60
	T. R. Beahan et al	do	175.60
	L. H. Daingerfield et al	do	134.30
	W. S. Currier et al	do	256.60
	T. B. Jennings et al	do	160.20
	W. S. Belden et al	do	302.54
	G. T. Todd et al	do	142.90
	G. W. Felger et al	do	175.60
	G. W. Eddey	do	103.30
	Peter Wood	do	103.30
	W. C. McGuinness	do	86.10
	Joseph Bily, jr	do	42.00
	do	do	13.33

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## GENERAL EXPENSES—SALARIES—WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Mar. 31	B. M. Jacobs .....	Salary .....	\$25. 80
	W. L. Day .....	do .....	103. 30
	G. L. Lovett .....	do .....	25. 00
	J. N. Ryker .....	do .....	103. 30
	J. W. Byram .....	do .....	103. 30
	A. Drinkwater .....	do .....	51. 70
	D. P. McCallum .....	do .....	103. 30
	E. D. Emigh .....	do .....	86. 10
	C. E. Johnson .....	do .....	62. 00
	A. H. Bell .....	do .....	103. 30
	J. P. Bolton .....	do .....	103. 30
	R. H. Sullivan .....	do .....	103. 30
	C. W. Ling .....	do .....	86. 10
	C. C. Garrett .....	do .....	72. 30
	H. P. Hardin .....	do .....	86. 10
	F. Z. Gosewisch .....	do .....	103. 30
	G. W. Scott .....	do .....	103. 30
	H. F. Alps .....	do .....	86. 10
	A. W. Kennie .....	do .....	25. 00
	H. W. Grasse .....	do .....	86. 10
	H. Legler .....	do .....	72. 30
	M. E. Conway .....	do .....	72. 30
	J. J. Kelliher .....	do .....	86. 10
	J. C. Piercy .....	do .....	103. 30
	E. Hardeband .....	do .....	25. 00
	E. L. Renoe .....	do .....	25. 00
	P. McDonough .....	do .....	103. 30
	F. Ridgway .....	do .....	155. 00
	D. C. Grunow .....	do .....	86. 10
	W. W. Thomas .....	do .....	72. 30
	W. D. Maxwell .....	do .....	103. 30
	Maurice Connell .....	do .....	103. 30
	Thomas Gibson .....	do .....	86. 10
	J. H. Scarr .....	do .....	103. 30
	J. R. Williams .....	do .....	103. 30
	G. J. Gallaher .....	do .....	46. 00
	E. C. Hobbs .....	do .....	103. 30
	N. M. Cunningham .....	do .....	63. 88
	F. Newman .....	do .....	103. 30
	E. J. Glass .....	do .....	103. 30
	J. C. Hayden .....	do .....	86. 10
	J. I. Widmeyer .....	do .....	103. 30
	O. W. Roberts .....	do .....	103. 30
	S. Hackett .....	do .....	62. 00
	Joseph Sands .....	do .....	58. 80
	W. F. Grunow .....	do .....	47. 22
	F. H. Duff et al .....	do .....	144. 60
	O. L. Fassig et al .....	do .....	433. 55
	T. L. Bridges et al .....	do .....	490. 70
	W. S. Palmer et al .....	do .....	160. 20
	F. J. Walz et al .....	do .....	650. 10
	E. S. Nichols et al .....	do .....	117. 10
	C. F. Schneider et al .....	do .....	201. 50
	R. H. Dean et al .....	do .....	128. 30
	A. G. Burns et al .....	do .....	171. 90
	M. T. Nesmith .....	do .....	34. 67
	N. D. Lane .....	do .....	103. 30
	J. W. Wolcott .....	do .....	31. 00
	E. B. Richards et al .....	do .....	426. 68
	G. H. Johnson .....	do .....	9. 00
	Chas. Adie .....	do .....	72. 30
	J. C. Yezerski .....	do .....	48. 00
	C. J. McAninch .....	do .....	5. 00
	E. A. Stafford .....	do .....	6. 00
	do .....	do .....	24. 00
	R. L. Bentler .....	do .....	21. 00
	H. B. Hobbs .....	do .....	29. 00
	A. L. Brockway .....	do .....	36. 00
	R. L. Miller .....	do .....	60. 67
	H. B. Dick .....	do .....	86. 10
	Geo. Beesley .....	do .....	62. 00
	C. W. Gibbs .....	do .....	18. 00
	Total third quarter .....		108, 005. 43
Apr. 11	W. S. Saunders .....	Salary .....	26. 00
	R. L. Bentler .....	do .....	20. 00
	John Langsdorf .....	do .....	5. 00
	Gould Harrison .....	do .....	2. 00

## 418 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

*Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.*

## GENERAL EXPENSES—SALARIES—WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Apr. 11	R. A. Gardiner .....	Salary .....	\$7.00
14	D. F. Manning .....	do .....	31.00
	L. H. Sebbes .....	do .....	15.00
21	J. P. Fallihee .....	do .....	62.00
	do .....	do .....	2.00
	H. I. Stine .....	do .....	8.00
30	A. F. Sims et al .....	do .....	232.40
	F. H. Duff et al .....	do .....	138.50
	J. B. Marbury et al .....	do .....	415.30
	A. Brand et al .....	do .....	128.60
	R. M. Geddings et al .....	do .....	168.10
	David Fisher et al .....	do .....	146.70
	O. L. Fassig et al .....	do .....	486.10
	W. E. Donaldson et al .....	do .....	166.40
	B. H. Bronson et al .....	do .....	245.60
	S. M. Blandford et al .....	do .....	235.70
	T. L. Bridges et al .....	do .....	509.30
	D. Cuthbertson et al .....	do .....	413.60
	P. H. Smyth et al .....	do .....	275.20
	C. P. Cronk et al .....	do .....	156.60
	J. H. Smith et al .....	do .....	189.50
	L. M. Pindell et al .....	do .....	219.20
	L. N. Jesunofsky et al .....	do .....	232.40
	G. R. Oberholzer et al .....	do .....	138.50
	W. S. Palmer et al .....	do .....	153.30
	F. J. Walz et al .....	do .....	529.30
	S. S. Bassler et al .....	do .....	446.60
	James Kenealy et al .....	do .....	436.70
	A. E. Hackett et al .....	do .....	217.50
	J. W. Bauer et al .....	do .....	247.20
	J. Warren Smith et al .....	do .....	565.20
	Frank Jermin et al .....	do .....	122.00
	J. M. Sherier et al .....	do .....	196.10
	C. E. Linney et al .....	do .....	456.50
	G. M. Chappel et al .....	do .....	413.70
	N. B. Conger et al .....	do .....	519.10
	O. Parker et al .....	do .....	146.70
	H. W. Richardson et al .....	do .....	304.90
	D. C. Murphy et al .....	do .....	128.60
	A. Ashenberger et al .....	do .....	138.50
	T. J. Considine et al .....	do .....	215.90
	G. B. Wurtz et al .....	do .....	128.60
	J. L. Cline et al .....	do .....	146.70
	T. S. Collins et al .....	do .....	126.62
	Geo. Reeder et al .....	do .....	206.00
	E. H. Bowie et al .....	do .....	510.90
	W. H. Fallon et al .....	do .....	138.50
	F. W. Conrad et al .....	do .....	128.60
	L. C. Cover et al .....	do .....	128.60
	A. J. Davis et al .....	do .....	131.90
	E. S. Nichols et al .....	do .....	112.10
	R. B. Harkness et al .....	do .....	128.60
	S. W. Glenn et al .....	do .....	235.70
	W. T. Blythe et al .....	do .....	431.80
	R. G. Allen et al .....	do .....	360.90
	A. J. Mitchell et al .....	do .....	356.00
	P. Connor et al .....	do .....	339.50
	W. U. Simons et al .....	do .....	215.90
	J. J. Doshier et al .....	do .....	108.80
	W. M. Fulton et al .....	do .....	173.00
	R. Q. Grant et al .....	do .....	128.60
	C. F. Schneider et al .....	do .....	192.80
	H. B. Hersey et al .....	do .....	545.50
	G. A. Loveland et al .....	do .....	413.70
	E. B. Richards et al .....	do .....	314.80
	G. E. Franklin et al .....	do .....	252.20
	G. N. Wilson et al .....	do .....	138.50
	H. R. Patrick et al .....	do .....	138.50
	S. C. Emery et al .....	do .....	331.30
	L. A. Denson et al .....	do .....	138.50
	W. M. Wilson et al .....	do .....	563.70
	T. S. Outram et al .....	do .....	412.00
	W. M. Dudley et al .....	do .....	197.80
	F. P. Chaffee et al .....	do .....	276.90
	Geo. E. Grimes et al .....	do .....	122.00
	H. C. Bate et al .....	do .....	514.20
	E. W. McGann et al .....	do .....	187.90
	L. M. Tarr et al .....	do .....	245.60
	H. F. Alciatoire et al .....	do .....	466.40
	Henry Goucher et al .....	do .....	601.60



Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## GENERAL EXPENSES—SALARIES—WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1903, Apr. 30	J. J. Gray et al. ....	Salary .....	\$328. 00
	W. A. Shaw et al. ....	do .....	123. 60
	C. M. Strong et al. ....	do .....	321. 40
	L. A. Welsh et al. ....	do .....	304. 90
	J. G. Linsley et al. ....	do .....	138. 50
	E. C. Vose et al. ....	do .....	235. 70
	B. Bunnemeyer et al. ....	do .....	138. 50
	T. F. Townsend et al. ....	do .....	684. 00
	Geo. Hass Hagen et al. ....	do .....	138. 50
	A. McC. Ashley et al. ....	do .....	400. 50
	E. A. Brown et al. ....	do .....	138. 50
	E. P. Jones et al. ....	do .....	219. 20
	A. B. Wollaber et al. ....	do .....	449. 90
	J. P. Slaughter et al. ....	do .....	168. 10
	C. F. von Hermann et al. ....	do .....	443. 30
	E. A. Evans et al. ....	do .....	438. 40
	L. M. Dey et al. ....	do .....	255. 70
	R. J. Hyatt et al. ....	do .....	412. 00
	W. E. Oliver et al. ....	do .....	181. 30
	Allen Buell et al. ....	do .....	215. 90
	F. A. Carpenter et al. ....	do .....	128. 60
	E. H. Nimmo et al. ....	do .....	138. 50
	G. H. Willson et al. ....	do .....	578. 50
	L. H. Murdoch et al. ....	do .....	304. 90
	R. M. Hardinge et al. ....	do .....	206. 00
	A. G. Burns et al. ....	do .....	166. 40
	H. B. Boyer et al. ....	do .....	212. 60
	F. H. Clarke et al. ....	do .....	153. 30
	G. N. Salisbury et al. ....	do .....	302. 58
	J. W. Cronk et al. ....	do .....	128. 60
	U. G. Purssell et al. ....	do .....	136. 80
	Chas. Stewart et al. ....	do .....	176. 30
	Wm. G. Burns et al. ....	do .....	339. 50
	J. S. Hazen et al. ....	do .....	138. 50
	M. R. Sanford et al. ....	do .....	112. 10
	E. C. Hobbs et al. ....	do .....	158. 20
	N. R. Taylor et al. ....	do .....	168. 10
	F. R. Beahan et al. ....	do .....	168. 10
	L. H. Daingerfield et al. ....	do .....	128. 60
	W. S. Currier et al. ....	do .....	245. 60
	T. B. Jennings et al. ....	do .....	153. 30
	W. S. Belden et al. ....	do .....	291. 70
	G. W. Felger et al. ....	do .....	168. 10
	G. T. Todd et al. ....	do .....	136. 80
	E. R. Demain et al. ....	do .....	228. 05
	M. E. Blystone et al. ....	do .....	235. 70
	G. W. Eddy .....	do .....	98. 90
	Peter Wood .....	do .....	98. 90
	W. C. McGuinness .....	do .....	82. 40
	B. M. Jacobs .....	do .....	24. 70
	W. L. Day .....	do .....	98. 90
	G. L. Lovett .....	do .....	25. 00
	J. W. Byram .....	do .....	98. 90
	J. N. Ryker .....	do .....	98. 90
	A. Drinkwater .....	do .....	49. 50
	D. P. McCallum .....	do .....	98. 90
	E. D. Emigh .....	do .....	82. 40
	C. E. Johnson .....	do .....	59. 30
	N. D. Lane .....	do .....	98. 90
	A. H. Bell .....	do .....	98. 90
	J. P. Bolton .....	do .....	98. 90
	R. H. Sullivan .....	do .....	98. 90
	C. W. Ling .....	do .....	82. 40
	C. C. Garrett .....	do .....	69. 20
	H. P. Hardin .....	do .....	82. 40
	F. Z. Gosewisch .....	do .....	98. 90
	G. W. Scott .....	do .....	98. 90
	H. F. Alps .....	do .....	82. 40
	A. W. Kennie .....	do .....	25. 00
	F. G. Halgren .....	do .....	26. 37
	H. Legler .....	do .....	69. 20
	M. E. Conway .....	do .....	69. 20
	L. S. Parrott .....	do .....	59. 30
	J. J. Kelliher .....	do .....	82. 40
	J. C. Piercy .....	do .....	98. 90
	P. McDonough .....	do .....	98. 90
	O. C. Burrows .....	do .....	82. 40
	F. Ridgway .....	do .....	148. 30
	D. C. Grunow .....	do .....	82. 40
	W. W. Thomas .....	do .....	69. 20

## 420 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

*Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.*

## GENERAL EXPENSES—SALARIES—WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Apr. 30	Charles Adie .....	Salary .....	\$69.20
	W. D. Maxwell .....	do .....	98.90
	M. Connell .....	do .....	98.90
	Thomas Gibson .....	do .....	82.40
	J. H. Scarr .....	do .....	98.90
	C. V. Brown .....	do .....	29.70
	J. R. Williams .....	do .....	98.90
	S. Boykin .....	do .....	69.20
	H. McP. Baldwin .....	do .....	82.40
	N. M. Cunningham .....	do .....	82.40
	F. Newman .....	do .....	98.90
	E. J. Glass .....	do .....	98.90
	J. C. Hayden .....	do .....	82.40
	J. I. Widmeyer .....	do .....	98.90
	O. W. Roberts .....	do .....	98.90
	S. Hackett .....	do .....	59.30
	H. W. Grasse .....	do .....	82.40
	H. B. Dick .....	do .....	82.40
	E. H. Dean .....	do .....	123.90
	J. R. Weeks et al .....	do .....	128.60
	D. F. Manning .....	do .....	30.00
	A. E. Heath .....	do .....	59.30
May 5	E. L. Renoe .....	do .....	25.00
12	Lester Hamilton .....	do .....	16.00
	J. C. Yezerksi .....	do .....	83.20
16	do .....	do .....	16.00
	B. J. Cardwell .....	do .....	4.00
27	J. D. Burns .....	do .....	19.78
31	F. H. Duff et al .....	do .....	143.00
	A. Brand et al .....	do .....	132.80
	S. M. Blandford et al .....	do .....	243.60
	T. L. Bridges et al .....	do .....	526.40
	P. H. Smyth et al .....	do .....	223.20
	L. N. Jesunofsky et al .....	do .....	240.20
	F. J. Walz et al .....	do .....	521.40
	S. S. Bassler et al .....	do .....	461.80
	J. Kenealy et al .....	do .....	451.60
	A. E. Hackett et al .....	do .....	225.00
	G. M. Chappel et al .....	do .....	427.60
	O. Parker et al .....	do .....	151.60
	D. C. Murphy et al .....	do .....	132.80
	G. B. Wurtz et al .....	do .....	132.80
	Geo. Reeder et al .....	do .....	213.00
	L. H. Murdoch et al .....	do .....	502.60
	E. R. Demain et al .....	do .....	202.80
	A. J. Davis et al .....	do .....	136.20
	S. W. Glenn et al .....	do .....	243.60
	W. T. Blythe et al .....	do .....	446.40
	J. J. Doshier et al .....	do .....	86.13
	E. B. Richards et al .....	do .....	410.60
	H. B. Hersey et al .....	do .....	564.00
	W. M. Wilson et al .....	do .....	582.60
	F. P. Chaffee et al .....	do .....	286.20
	G. E. Grimes et al .....	do .....	126.00
	H. C. Bate et al .....	do .....	531.60
	L. M. Tarr et al .....	do .....	253.80
	H. F. Alciatore et al .....	do .....	482.20
	Henry Goucher et al .....	do .....	610.20
	B. Bunnemeyer et al .....	do .....	143.00
	T. F. Townsend et al .....	do .....	707.00
	M. E. Blystone et al .....	do .....	243.60
	Geo. Hass Hagen et al .....	do .....	143.00
	A. B. Wollaber et al .....	do .....	550.40
	L. M. Dey et al .....	do .....	243.60
	W. E. Oliver et al .....	do .....	187.40
	R. J. Hyatt et al .....	do .....	340.80
	A. Buell et al .....	do .....	223.20
	E. H. Nimmo et al .....	do .....	102.20
	B. M. Hardinge et al .....	do .....	213.00
	A. G. Burns et al .....	do .....	172.20
	H. B. Boyer et al .....	do .....	183.13
	J. W. Cronk et al .....	do .....	132.80
	Charles Stewart et al .....	do .....	182.40
	N. R. Taylor et al .....	do .....	173.80
	F. R. Beahan et al .....	do .....	173.80
	L. H. Daingerfield et al .....	do .....	132.80
	W. S. Currier et al .....	do .....	253.80
	A. F. Sims et al .....	do .....	240.20
	J. B. Marbury et al .....	do .....	429.40
	David Fisher et al .....	do .....	151.60

*Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.*

## GENERAL EXPENSES—SALARIES—WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
May 31	B. H. Bronson et al .....	Salary .....	\$213.00
	O. L. Fassig et al .....	do .....	502.80
	David Cuthbertson et al .....	do .....	427.80
	J. H. Smith et al .....	do .....	196.00
	G. R. Oberholzer et al .....	do .....	143.00
	L. M. Pindell et al .....	do .....	226.60
	W. S. Palmer et al .....	do .....	158.40
	J. Warren Smith et al .....	do .....	584.60
	J. W. Bauer et al .....	do .....	255.60
	Frank Jermin et al .....	do .....	143.00
	J. M. Sherier et al .....	do .....	202.80
	C. E. Linney et al .....	do .....	472.00
	N. B. Conger et al .....	do .....	536.80
	H. W. Richardson et al .....	do .....	315.20
	A. Ashenberger et al .....	do .....	143.00
	T. J. Considine et al .....	do .....	151.60
	J. L. Cline et al .....	do .....	151.60
	T. S. Collins et al .....	do .....	163.60
	W. H. Fallon et al .....	do .....	143.00
	F. W. Conrad et al .....	do .....	132.80
	L. C. Cover et al .....	do .....	132.80
	E. S. Nichols et al .....	do .....	115.80
	R. G. Allen et al .....	do .....	373.20
	P. Connor et al .....	do .....	351.00
	R. Q. Grant et al .....	do .....	132.80
	C. F. Schneider et al .....	do .....	199.40
	G. A. Loveland et al .....	do .....	427.60
	G. E. Franklin et al .....	do .....	260.60
	G. N. Wilson et al .....	do .....	143.00
	S. C. Emery et al .....	do .....	342.40
	L. A. Denson et al .....	do .....	143.00
	E. W. McGann et al .....	do .....	194.20
	J. J. Gray et al .....	do .....	339.00
	W. A. Shaw et al .....	do .....	127.80
	C. M. Strong et al .....	do .....	332.20
	L. A. Welsh et al .....	do .....	315.20
	J. J. Linsley et al .....	do .....	143.00
	E. C. Vose et al .....	do .....	243.60
	Frank Ridgway et al .....	do .....	439.60
	E. P. Jones et al .....	do .....	226.60
	J. P. Slaughter et al .....	do .....	173.80
	C. F. von Herrmann et al .....	do .....	458.40
	J. H. Scarr et al .....	do .....	132.80
	E. H. Bowie et al .....	do .....	426.00
	F. A. Carpenter et al .....	do .....	132.80
	G. H. Willson et al .....	do .....	598.00
	F. H. Clarke et al .....	do .....	158.40
	G. N. Salisbury et al .....	do .....	301.60
	U. G. Purssell et al .....	do .....	141.40
	Wm. G. Burns et al .....	do .....	351.00
	J. S. Hazen et al .....	do .....	143.00
	A. McC. Ashley et al .....	do .....	243.60
	E. C. Hobbs et al .....	do .....	163.60
	W. S. Belden et al .....	do .....	301.60
	G. T. Todd et al .....	do .....	141.40
	G. W. Felger et al .....	do .....	173.80
	G. W. Eddey .....	do .....	102.20
	Peter Wood .....	do .....	102.20
	W. C. McGuinness .....	do .....	85.20
	B. M. Jacobs .....	do .....	25.60
	W. L. Day .....	do .....	102.20
	G. L. Lovett .....	do .....	25.00
	J. N. Ryker .....	do .....	102.20
	J. W. Byram .....	do .....	102.20
	A. Drinkwater .....	do .....	51.00
	C. E. Johnson .....	do .....	61.40
	A. H. Bell .....	do .....	102.20
	J. P. Bolton .....	do .....	102.20
	R. H. Sullivan .....	do .....	102.20
	C. W. Ling .....	do .....	85.20
	C. C. Garrett .....	do .....	71.60
	H. P. Hardin .....	do .....	85.20
	H. B. Dick .....	do .....	85.20
	F. Z. Gosewisch .....	do .....	102.20
	G. W. Scott .....	do .....	102.20
	H. F. Alps .....	do .....	85.20
	A. W. Kennie .....	do .....	25.00
	H. Legler .....	do .....	71.60
	M. E. Conway .....	do .....	71.60
	L. S. Parrott .....	do .....	61.40

## 422 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## GENERAL EXPENSES—SALARIES—WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
May 31	J. J. Kelliher .....	Salary .....	\$85. 20
	J. C. Piercy .....	do .....	102. 20
	D. C. Grunow .....	do .....	85. 20
	P. McDonough .....	do .....	102. 20
	W. W. Thomas .....	do .....	71. 60
	Charles Adie .....	do .....	71. 60
	M. Connell .....	do .....	102. 20
	Thos. Gibson .....	do .....	85. 20
	J. R. Williams .....	do .....	102. 20
	W. F. Clark .....	do .....	82. 08
	Stanley Boyken .....	do .....	71. 60
	A. E. Heath .....	do .....	61. 40
	H. McP. Baldwin .....	do .....	85. 20
	F. Newman .....	do .....	102. 20
	E. J. Glass .....	do .....	102. 20
	J. C. Hayden .....	do .....	85. 20
	J. I. Widmeyer .....	do .....	102. 20
	W. D. Maxwell .....	do .....	102. 20
	D. P. McCallum .....	do .....	102. 20
	C. B. Bright .....	do .....	39. 56
	O. W. Roberts .....	do .....	102. 20
	A. J. Mitchell et al. ....	do .....	368. 00
	W. U. Simons et al. ....	do .....	284. 60
	W. M. Fulton et al. ....	do .....	179. 00
	E. A. Brown et al. ....	do .....	143. 00
	R. M. Geddings et al. ....	do .....	173. 80
	R. B. Harkness et al. ....	do .....	132. 80
	R. H. Dean et al. ....	do .....	127. 20
	T. B. Jennings et al. ....	do .....	158. 40
	N. D. Lane .....	do .....	102. 20
	E. L. Renoe .....	do .....	25. 00
	S. Hackett .....	do .....	61. 40
June 3	W. E. Donaldson et al. ....	do .....	172. 20
	C. P. Cronk et al. ....	do .....	161. 80
	H. R. Patrick et al. ....	do .....	143. 00
	T. S. Outram et al. ....	do .....	426. 00
	W. M. Dudley et al. ....	do .....	173. 80
	E. A. Evans et al. ....	do .....	453. 80
	F. A. Lauhead .....	do .....	8. 90
	E. D. Emigh .....	do .....	85. 20
	J. R. Weeks et al. ....	do .....	132. 80
	A. B. Aymard .....	do .....	30. 60
	H. Curry .....	do .....	19. 50
10	D. F. Manning .....	do .....	31. 00
18	R. E. Ramsdell .....	do .....	18. 00
	H. W. Grasse .....	do .....	85. 20
	Lester Hamilton .....	do .....	25. 00
	do .....	do .....	4. 00
30	G. W. Eddey .....	do .....	98. 90
	Peter Wood .....	do .....	98. 90
	W. C. McGuinness .....	do .....	82. 40
	B. M. Jacobs .....	do .....	24. 70
	W. L. Day .....	do .....	98. 90
	G. L. Lovett .....	do .....	25. 00
	J. N. Ryker .....	do .....	98. 90
	J. W. Byram .....	do .....	98. 90
	R. H. Sullivan .....	do .....	98. 90
	J. P. Bolton .....	do .....	98. 90
	A. H. Bell .....	do .....	98. 90
	N. D. Lane .....	do .....	98. 90
	C. E. Johnson .....	do .....	59. 30
	E. D. Emigh .....	do .....	82. 40
	A. Drinkwater .....	do .....	49. 50
	C. W. Ling .....	do .....	82. 40
	D. P. McCallum .....	do .....	98. 90
	C. C. Garrett .....	do .....	69. 20
	H. P. Hardin .....	do .....	82. 40
	H. B. Dick .....	do .....	82. 40
	F. Z. Gosewisch .....	do .....	98. 90
	J. J. Doshier .....	do .....	59. 30
	E. J. Glass .....	do .....	98. 90
	G. W. Scott .....	do .....	98. 90
	H. F. Alps .....	do .....	82. 40
	H. Legler .....	do .....	69. 20
	A. W. Kennie .....	do .....	25. 00
	A. B. Aymard .....	do .....	5. 94
	B. C. Kadel .....	do .....	69. 20
	H. W. Grasse .....	do .....	82. 40
	M. E. Conway .....	do .....	69. 20
	L. S. Parrott .....	do .....	56. 30
	E. R. Miller .....	do .....	69. 20

*Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.*

## GENERAL EXPENSES—SALARIES—WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1903. June 30	J. J. Kelliher.....	Salary	\$82.40
	J. C. Piercy.....	do	98.90
	P. McDonough.....	do	98.90
	D. C. Grunow.....	do	82.40
	W. W. Thomas.....	do	69.20
	Charles Adie.....	do	69.20
	W. D. Maxwell.....	do	98.90
	M. Connell.....	do	98.90
	T. Gibson.....	do	82.40
	J. R. Williams.....	do	98.90
	S. Boykin.....	do	69.20
	N. R. Taylor.....	do	98.90
	A. E. Heath.....	do	59.30
	H. McP. Baldwin.....	do	82.40
	F. Newman.....	do	98.90
	J. C. Hayden.....	do	82.40
	J. I. Widmeyer.....	do	98.90
	O. W. Roberts.....	do	98.90
	S. Hackett.....	do	59.30
	R. M. Giddings et al.....	do	168.10
	O. L. Fassig et al.....	do	486.10
	S. M. Blandford et al.....	do	235.70
	J. H. Smith et al.....	do	189.50
	A. E. Hackett et al.....	do	217.50
	J. W. Bauer et al.....	do	247.20
	J. M. Sherier et al.....	do	196.10
	C. E. Linney et al.....	do	456.50
	H. W. Richardson et al.....	do	304.90
	T. J. Considine et al.....	do	215.90
	T. S. Collins et al.....	do	158.20
	F. W. Conrad et al.....	do	128.60
	C. F. Schneider et al.....	do	192.80
	G. A. Loveland et al.....	do	413.70
	E. B. Richards et al.....	do	397.20
	G. E. Franklin et al.....	do	252.20
	H. B. Hersey et al.....	do	545.50
	T. S. Outram et al.....	do	412.00
	H. C. Bate et al.....	do	514.20
	E. W. McGann et al.....	do	175.56
	L. M. Tarr et al.....	do	245.60
	H. F. Alciatore et al.....	do	466.40
	J. J. Gray et al.....	do	328.00
	C. M. Strong et al.....	do	321.40
	J. G. Linsley et al.....	do	138.50
	E. C. Vose et al.....	do	235.70
	B. Bunnemeyer et al.....	do	138.50
	E. P. Jones et al.....	do	219.20
	A. B. Wollaber et al.....	do	522.40
	E. A. Brown et al.....	do	138.50
	E. A. Evans et al.....	do	438.40
	E. H. Bowie et al.....	do	412.00
	W. E. Oliver et al.....	do	181.30
	R. J. Hyatt et al.....	do	329.60
	F. A. Carpenter et al.....	do	128.60
	H. B. Boyer et al.....	do	235.70
	Charles Stewart et al.....	do	176.30
	W. G. Burns et al.....	do	339.50
	J. S. Hazen et al.....	do	138.50
	A. F. Sims et al.....	do	232.40
	F. H. Duff et al.....	do	138.50
	J. B. Marbury et al.....	do	415.30
	D. Fisher et al.....	do	146.70
	W. E. Donaldson et al.....	do	166.40
	B. H. Bronson et al.....	do	206.00
	T. L. Bridges et al.....	do	509.30
	D. Cuthbertson et al.....	do	413.60
	P. H. Smyth et al.....	do	215.90
	C. P. Cronk et al.....	do	156.60
	L. N. Jesunofsky et al.....	do	232.40
	G. R. Oberholzer et al.....	do	138.50
	L. M. Pindell et al.....	do	219.20
	W. S. Palmer et al.....	do	153.30
	F. J. Walz et al.....	do	504.30
	S. S. Bassler et al.....	do	446.60
	J. Kenealy et al.....	do	436.70
	J. Warren Smith et al.....	do	525.70
	Frank Jermin et al.....	do	138.50
	N. B. Conger et al.....	do	519.10
	O. Parker et al.....	do	146.70
	G. W. Chappel et al.....	do	413.70
	D. C. Murphy et al.....	do	128.60

## 424 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## GENERAL EXPENSES—SALARIES—WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
June 30	A. Ashenberger et al.	Salary	\$138.50
	G. B. Wurtz et al.	do	128.60
	J. L. Cline et al.	do	146.70
	Geo. Reeder et al.	do	206.00
	L. H. Murdock et al.	do	417.00
	W. H. Fallon et al.	do	138.50
	L. C. Cover et al.	do	128.60
	E. R. Demain et al.	do	196.10
	A. J. Davis et al.	do	131.90
	E. S. Nichols et al.	do	112.10
	R. B. Harkness et al.	do	128.60
	S. W. Glenn et al.	do	235.70
	W. T. Blythe et al.	do	349.40
	R. G. Allen et al.	do	860.90
	A. J. Mitchell et al.	do	356.00
	Patrick Connor et al.	do	339.50
	W. U. Simons et al.	do	146.70
	W. M. Fulton et al.	do	173.00
	R. Q. Grant et al.	do	128.60
	G. N. Wilson et al.	do	138.50
	J. R. Weeks et al.	do	128.60
	H. R. Patrick et al.	do	138.50
	S. C. Emery et al.	do	531.30
	L. A. Denson et al.	do	138.50
	W. M. Wilson et al.	do	563.70
	W. M. Dudley et al.	do	168.10
	F. P. Chaffee et al.	do	346.10
	G. E. Grimes et al.	do	122.00
	H. Goucher et al.	do	603.85
	W. A. Shaw et al.	do	123.60
	L. A. Welsh et al.	do	304.90
	T. F. Townsend et al.	do	684.00
	Geo. Hass Hagen et al.	do	138.50
	J. P. Slaughter et al.	do	168.10
	C. F. von Herrmann et al.	do	374.10
	L. M. Dey et al.	do	235.70
	J. H. Scarr et al.	do	128.60
	Allen Buell et al.	do	215.90
	H. C. Cooke et al.	do	128.50
	E. H. Nimmo et al.	do	128.60
	G. H. Willson et al.	do	578.50
	A. G. Burns et al.	do	166.40
	F. H. Clarke et al.	do	153.30
	G. N. Salisbury et al.	do	331.30
	J. W. Cronk et al.	do	128.60
	U. G. Pursell et al.	do	136.80
	A. McC. Ashley et al.	do	235.70
	E. C. Hobbs et al.	do	158.20
	F. R. Beahan et al.	do	168.10
	L. H. Daingerfield et al.	do	128.60
	W. S. Currier et al.	do	245.60
	T. B. Jennings et al.	do	153.30
	W. S. Belden et al.	do	291.70
	G. T. Todd et al.	do	136.80
	G. W. Felger et al.	do	168.10
	F. Ridgway et al.	do	425.20
	B. C. Marks	do	19.78
	B. J. Cardwell	do	3.00
	M. V. Hanaw	do	5.00
	H. Curry	do	25.50
	R. H. Dean	do	123.90
	E. L. Renoe	do	25.00
	Total fourth quarter		107,639.43
	<i>Supplemental.</i>		
July 3	M. E. Blystone et al.	Salary	206.00
	D. F. Manning	do	30.00
	F. P. Torbert, jr.	do	1.98
	A. Brand et al.	do	128.60
15	C. B. Cooper	do	13.00
	C. L. Mills	do	11.87
	A. Bronson	do	13.50
	R. M. Hardinge et al.	do	206.00
22	M. V. Hanaw	do	14.00
31	R. A. Gardiner	do	4.95
	Total		629.90

*Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.*

## RECAPITULATION.

First quarter.....	\$104,962.06
Second quarter.....	106,982.42
Third quarter.....	108,005.43
Fourth quarter.....	107,639.43
Supplemental.....	629.90
<b>Total.....</b>	<b>428,219.24</b>

## METEOROLOGICAL OBSERVATION STATIONS.

Date.	Name.	Nature of payment.	Total.
1902.			
July 21	Wm. B. Stockman	Traveling expenses	\$7.25
31	J. J. O'Donnell	Salary	101.10
	W. J. A. Schoppe	do	70.80
	C. E. Ashcraft	do	84.20
	J. H. Armington	do	70.80
	H. O. Geren	do	101.10
	F. Montgomery	do	70.80
	C. A. Mueller	do	70.80
	W. C. Devereaux	do	101.10
	B. Castellanos	do	30.30
	M. W. Hayes	do	126.40
	J. F. Voorhees	do	70.80
	O. St. Marie	do	84.20
	Louis Dorman	do	101.10
	R. A. Fessenden	do	244.55
	A. H. Thiessen	do	126.40
	J. H. Kimball	do	70.80
	W. T. Lathrop	do	84.20
	Paul De Graw	do	101.10
	D. J. Herndon	do	101.10
	A. V. Randall	do	101.10
	W. H. Alexander	do	101.10
	E. O. Thompson	do	126.40
	Joseph Lopez	do	40.00
	M. G. Stubbs	do	84.20
	J. L. Bartlett	do	84.20
	J. W. Towers	do	70.80
	Wm. B. Stockman	do	168.50
	I. N. Dolph	do	88.04
	J. C. Ashton	do	134.80
	A. D. Kinsman	do	84.20
	C. H. Richardson	do	101.10
	C. F. Marvin	do	252.70
	F. Leyland & Co	Passenger transportation	19.47
	M. W. Hayes	Traveling expenses	18.50
Aug. 6	New York and Cuba Mail S. S. Co	Passenger transportation	90.00
11	H. E. Hobbs	Salary	88.59
	A. V. Randall	Repairing instrument shelter	11.25
	American Writing Machine Co	New Century caligraph	144.50
12	M. Saumill	Office rent	25.00
14	The J. C. Ergood Co	Matches, brooms, etc	42.20
	M. G. Roves	Office rent	40.00
	John Underwood & Co.	Ribbons	27.00
	Julien P. Friez	Single registers	80.00
18	T. F. Kennedy	Making and packing boxes	13.50
22	Elizabeth Randall	Office rent	27.00
	D. O. Riviere	do	20.00
	F. Leyland & Co. (Limited)	Passenger transportation	15.00
31	H. E. Hobbs	Salary	101.10
	J. J. O'Donnell	do	101.10
	M. J. A. Schoppe	do	70.80
	J. H. Armington	do	70.80
	H. O. Geren	do	101.10
	F. Montgomery	do	70.80
	C. A. Mueller	do	70.80
	J. L. Bartlett	do	70.65
	W. C. Devereaux	do	101.10
	B. Castellanos	do	30.30
	M. W. Hayes	do	126.40
	C. H. Richardson	do	101.10
	J. F. Voorhees	do	70.80
	O. St. Marie	do	84.20
	Louis Dorman	do	101.10
	J. H. Kimball	do	70.80
	W. T. Lathrop	do	84.20
	P. De Graw	do	101.10
	D. J. Herndon	do	101.10
	W. H. Alexander	do	101.10
	J. Lopez	do	40.00

426 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

METEOROLOGICAL OBSERVATION STATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Aug. 31	E. C. Thompson	Salary	\$126.40
	A. V. Randall	do	101.10
	M. B. Stubbs	do	84.20
	Wm. B. Stockman	do	168.50
	J. W. Towers	do	70.80
	C. F. Marvin	do	252.70
	I. N. Dolph	do	101.10
	J. C. Ashton	do	134.80
	A. D. Kinsman	do	84.20
	C. E. Ashcraft, jr	do	84.20
	A. H. Thiessen	do	126.40
Sept. 5	Clark & Davenport	Linoleum	62.70
	J. C. Parker	Paper	381.90
	H. F. Borroto	Painting instrument shelter	12.75
	Mary Joseph	Janitor services	2.42
	Woodward & Lothrop	Office furniture	47.40
	Southern Express Co	Drayage	8.00
	do	do	3.00
	Cuba and Pan-American Express Co	do	5.40
	M. G. Roves	Office rent	40.00
	M. Saumill	do	25.00
	Hampden Jemmott	Services	26.90
11	Elizabeth Randall	Office rent	27.00
	H. E. Hobbs	Station expenses	5.70
13	C. H. Richardson	Cleaner, ice, etc	11.00
	H. E. Hobbs	Traveling expenses	42.20
	Paul De Graw	Station expenses	16.50
19	A. D. Kinsman	Traveling expenses	197.69
	William Roche	Batteries	28.00
22	J. C. Bellamy	Salary	9.50
	Royal Mail Steam Packet Co	Passenger transportation	13.20
	J. Garroway & Co	Lumber	38.43
	Teresa Joerg y Belot	Office rent	41.13
	Eberhard Faber	Rubber bands	503.00
	Cuba Submarine Telegraph Co. (Limited)	Telegraph services	14.10
	do	do	13.95
	W. C. Devereaux	Station expenses	27.81
	C. H. Richardson	do	10.21
30	The Pennsylvania R. R. Co	Passenger transportation	25.50
	H. E. Hobbs	Salary	97.80
	J. J. O'Donnell	do	97.80
	W. J. A. Schoppe	do	68.40
	C. E. Ashcraft	do	81.60
	J. H. Armington	do	68.40
	H. O. Geren	do	97.80
	F. Montgomery	do	68.40
	C. A. Mueller	do	68.40
	B. Castellanos	do	29.40
	W. C. Devereaux	do	97.80
	M. W. Hayes	do	122.20
	C. H. Richardson	do	97.80
	Louis Dorman	do	97.80
	A. H. Thiessen	do	122.20
	J. H. Kimball	do	68.40
	W. T. Lathrop	do	81.60
	Paul De Graw	do	97.80
	D. J. Herndon	do	97.80
	E. C. Thompson	do	122.20
	W. H. Alexander	do	97.80
	Joseph Lopez	do	40.00
	A. V. Randall	do	97.80
	M. B. Stubbs	do	81.60
	J. C. Ashton	do	130.40
	I. N. Dolph	do	97.80
	C. F. Marvin	do	244.60
	W. B. Stockman	do	163.00
	J. W. Towers	do	68.40
	A. D. Kinsman	do	81.60
	A. Moure Losada	do	33.75
	Total first quarter		11,483.64
Oct. 9	A. Bool & Co.	Ice	7.50
	Jose Valenti	Office rent	75.00
	B. A. Smith	do	85.35
	D. Hope Ross	do	72.00
	M. G. Roves	do	40.00
	R. F. Andrews & Co. (Incorporated)	Pencils and penholders	112.70
	J. F. Voorhees	Salary	68.40
	H. E. Hobbs	Janitor service, ice, etc	6.05



## Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## METEOROLOGICAL OBSERVATION STATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Oct. 9	W. H. Johnson & Co. (Limited)	Lantern	\$1.75
	T. F. Kennedy	Boxing and packing furniture, etc.	80.00
	C. C. Massey	Repairing clock	1.50
17	United States Express Co	Express charges	9.40
	do	do	9.55
	D. F. Parker	Typewriter ribbons	18.00
	Wagner Typewriter Co.	Typewriter	87.50
	Library Bureau	Typewriter table	5.00
22	Carter, Rice & Co. (Corporation)	Card board	25.00
	Jamaica Telephone Co. (Limited)	Telephone services	23.25
	Sociedad Anonima Luz Electrica	Electric light	21.60
	M. Saumill	Office rent	25.00
25	Department of the Interior, Porto Rico	do	150.00
	Clinckett & Coates	do	88.00
	A. B. Smith	Painting instrument shelter	20.00
	Sucesores de J. B. Vicini	Office rent	120.00
	E. Nuttall	do	109.50
31	Joseph Lopez	Salary	40.00
	W. H. Alexander	do	101.10
	J. H. Armington	do	70.80
	C. E. Ashcraft, jr	do	84.20
	J. C. Ashton	do	134.80
	B. Castellanos	do	30.30
	W. C. Devereaux	do	101.10
	I. N. Dolph	do	101.10
	Louis Dorman	do	101.10
	H. O. Geren	do	101.10
	Paul De Graw	do	101.10
	M. W. Hayes	do	126.40
	D. J. Herndon	do	101.10
	H. E. Hobbs	do	101.10
	J. H. Kimball	do	70.80
	A. D. Kinsman	do	84.20
	W. T. Lathrop	do	84.20
	C. F. Marvin	do	252.70
	F. Montgomery	do	70.80
	C. A. Mueller	do	70.80
	J. J. O'Donnell	do	101.10
	A. V. Randall	do	101.10
	C. H. Richardson	do	101.10
	W. J. A. Schoppe	do	70.80
	W. B. Stockman	do	168.50
	A. H. Thiessen	do	126.40
	E. C. Thompson	do	126.40
	J. W. Towers	do	70.80
	J. F. Voorhees	do	70.80
	E. T. Giers	do	84.20
	Elizabeth Randall	Office rent	27.00
	Direct West India Cable Co. (Limited)	Telegraph services	300.00
	W. C. Devereaux	do	12.14
	C. H. Richardson	Cleaner, ice, and postage	11.25
Nov. 8	Boulton, Bliss & Dallett	Expressage	1.01
	H. E. Hobbs	Janitor service, ice, etc.	7.25
	M. B. Stubbs	Repairs to roof, etc.	71.77
	do	Salary	84.20
11	A Lynne e Hijos de Perez Moris	Printing	78.00
15	Halifax and Bermudas Cable Co.	Postage	.15
	M. G. Roves	Office rent	40.00
	M. Saumill	do	25.00
	E. C. Newsam	Displayman	100.00
	United States Envelope Co	Envelopes	635.65
	R. P. Andrews & Co. (Incorporated)	Paper	125.00
	Cuba Submarine Telegraph Co. (Limited)	Telegraph services	13.40
	United States Express Co	Expressage	4.30
	Pennsylvania R. R. Co	Freight charges	.72
	do	do	.44
	New York and Cuba Mail S. S. Co	do	59.60
	Morris European and American Express Co. (Limited).	do	13.56
	Pennsylvania Railroad Co	do	1.38
	Postal Telegraph Cable Co	Telegraph services	48.05
17	R. C. Ballantyne	Pens, etc	39.78
	J. C. Parker	Paper	200.92
	E. Morris Paper Co.	do	262.50
	Jose Alvarez	Painting	12.00
	A. D. Kinsman	Repairing wind vane, etc	7.44
	The French Telegraph Cable Co	Telegraph services	67.10
	J. H. Thiemeyer	Packing boxes	172.75
	United States Envelope Co	Envelopes	25.60

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## METEOROLOGICAL OBSERVATION STATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Nov. 17	Western Union Telegraph Co	Telegraph services	\$17.10
21	Pennsylvania R. R. Co	Freight charges	.35
	New York and Cuba Mail S. S. Co	do	1.15
	The Morris European and American Express Co. (Limited).	do	13.22
	Compania Transatlantica de Bar.	Passenger transportation	30.00
30	W. T. Lathrop	Salary	81.60
	A. V. Randall	do	97.80
	M. W. Hayes	do	122.20
	W. H. Alexander	do	97.80
	A. H. Thiessen	do	122.20
	Louis Dorman	do	97.80
	W. J. A. Schoppe	do	68.40
	J. H. Armington	do	68.40
	W. C. Devereaux	do	97.80
	J. H. Kimball	do	68.40
	C. H. Richardson	do	97.80
	P. De Graw	do	97.80
	E. C. Thompson	do	122.20
	H. E. Hobbs	do	97.80
	A. D. Kinsman	do	81.60
	E. T. Giers	do	81.60
	F. Montgomery	do	68.40
	J. J. O'Donnell	do	97.80
	Joseph Lopez	do	40.00
	H. O. Geren	do	97.80
	J. F. Voorhees	do	63.40
	D. J. Herndon	do	97.80
	M. B. Stubbs	do	92.94
	C. E. Ashcraft	do	81.60
	Paul De Graw	do	34.84
	Woodward & Lothrop	Soap	31.84
	E. Randall	Office rent	27.00
	H. E. Hobbs	Office expenses	6.81
	E. H. Cheney	Office rent	35.49
	C. F. Marvin et al.	Pay roll	704.20
	E. C. Thompson	Ice, etc	15.75
Dec. 3	B. Castellanos	Salary	29.40
6	C. H. Richardson	Station expenses	10.08
9	American Writing Machine Co	Typewriter	144.50
	B. C. Clapp Ammonia Co.	Ammonia	9.12
	M. Saumill	Office rent	25.00
	M. G. Roves	do	40.00
	The American News Co	Conant binders	20.90
	R. C. Ballantyne	Envelopes	30.80
18	M. B. Stubbs	Traveling expenses	1.00
	P. De Graw	Station expenses	18.60
	Pennsylvania R. R. Co	Freight transportation	22.67
22	Western Union Telegraph Co	Telegraph services	57.18
	Julien P. Friez	Parts of instruments	189.15
	Cuba Submarine Telegraph Co. (Limited).	Telegraph services	14.85
	The Direct West India Cable Co. (Limited).	do	150.00
	Rudolph, West & Co	Cotton waste	72.50
	Postal Telegraph Cable Co	Telegraph services	163.29
	do	do	96.12
23	J. J. O'Donnell	Station expenses	26.73
31	W. J. A. Schoppe	Salary	70.80
	J. J. O'Donnell	do	101.10
	C. E. Ashcraft	do	84.20
	J. H. Armington	do	70.80
	F. Montgomery	do	70.80
	Benito Castellanos	do	14.67
	W. C. Devereaux	do	101.10
	M. W. Hayes	do	126.40
	J. F. Voorhees	do	70.80
	A. H. Thiessen	do	126.40
	Louis Dorman	do	101.10
	J. H. Kimball	do	70.80
	E. T. Giers	do	84.20
	D. J. Herndon	do	101.10
	W. H. Alexander	do	101.10
	E. C. Thompson	do	126.40
	J. Lopez	do	40.00
	W. T. Lathrop	do	84.20
	Wm. B. Stockman	do	168.50
	F. A. Schmidt	Milliographs	150.00
	C. H. Richardson	Salary	99.45
	H. O. Geren	do	101.10
	C. F. Marvin et al.	Pay roll	559.40
	P. De Graw	Salary	101.10

## Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## METEOROLOGICAL OBSERVATION STATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Dec. 31	H. E. Hobbs .....	Salary .....	\$101. 10
	M. B. Stubbs .....	do .....	101. 10
	A. D. Kinsman .....	do .....	84. 20
	Total second quarter .....		13,857. 51
1903.			
Jan. 9	A. V. Randall .....	Salary .....	101. 10
	Jamaica Telegraph Co. (Limited) .....	Telephone services .....	21. 00
	A. V. Randall .....	Station expenses .....	21. 50
	do .....	do .....	21. 50
	P. De Graw .....	do .....	15. 50
	C. H. Richardson .....	do .....	10. 19
	W. C. Devereaux .....	do .....	20. 70
	H. E. Hobbs .....	do .....	7. 81
	Sucesores de J. B. Vicini .....	Office rent .....	120. 00
	Hamilton Rolle .....	do .....	9. 00
	do .....	do .....	9. 00
	A. B. Smith .....	do .....	85. 35
	E. Nuttall .....	do .....	109. 50
	E. H. Cheney .....	do .....	27. 75
	D. Hope Ross .....	do .....	72. 00
	José Valenti .....	do .....	75. 00
	M. G. Rovés .....	do .....	40. 00
10	C. H. Richardson .....	Traveling expenses .....	6. 75
	J. H. Knowlton .....	Ice .....	5. 89
	Koninkly West Indische Mail Dienst .....	Passenger transportation .....	30. 00
	J. P. Bossa .....	Freight charges and drayage .....	16. 18
	C. H. Richardson .....	Station expenses .....	7. 17
15	J. J. O'Donnell .....	Traveling expenses .....	15. 17
	M. B. Stubbs .....	Station expenses .....	51. 91
20	United States Express Co. .....	Express charges .....	2. 20
	do .....	do .....	1. 30
	W. C. Devereaux .....	Station expenses .....	14. 79
	W. & L. E. Gurley .....	Spirit levels .....	24. 75
	Julien P. Friez .....	Anemometers and register pens .....	300. 00
	M. Saumill .....	Office rent .....	25. 00
	Clinckett & Coates .....	do .....	88. 00
	The Halifax and Bermudas Cable Co. (Limited) .....	Foreign postage stamps .....	5. 00
	W. A. R. Rawle .....	Station expenses .....	3. 09
	United Trust Co .....	Passenger transportation .....	40. 00
	Department of Interior, Porto Rico .....	Office rent .....	150. 00
	A. Lynne Hijos de Perez Moris .....	Printing climate and crop bulletins .....	78. 00
23	Sociedad Anonima Luz Electrica .....	Electric light .....	21. 60
	H. E. Hobbs .....	Painting materials, etc .....	3. 79
	do .....	Janitor service, ice, etc .....	7. 09
	do .....	Janitor service, etc .....	1. 50
	do .....	Traveling expenses .....	6. 40
	Direct West India Cable Co .....	Telegraph services .....	150. 00
	do .....	do .....	161. 26
	E. C. Newsam .....	Station expenses .....	12. 20
	W. A. R. Rawle .....	Hurricane observer .....	125. 00
	R. J. Miller .....	do .....	125. 00
	Paul De Graw .....	Station expenses .....	17. 65
	Cuba Submarine Telegraph Co. (Limited) .....	Telegraph services .....	30. 15
24	J. C. Parker .....	Letter presses .....	136. 32
	do .....	Manifold books .....	65. 00
	D. F. Parker .....	Typewriter ribbons .....	45. 00
31	C. H. Richardson .....	Salary .....	86. 10
	J. J. O'Donnell .....	do .....	103. 30
	W. J. A. Schoppe .....	do .....	72. 30
	C. E. Ashcraft .....	do .....	86. 10
	H. O. Geren .....	do .....	86. 66
	J. H. Armington .....	do .....	72. 30
	W. C. Devereaux .....	do .....	103. 30
	M. W. Hayes .....	do .....	129. 20
	A. V. Randall .....	do .....	103. 30
	J. F. Voorhees .....	do .....	72. 30
	A. H. Thiessen .....	do .....	129. 20
	Louis Dorman .....	do .....	103. 30
	J. H. Kimball .....	do .....	72. 30
	E. T. Giers .....	do .....	86. 10
	M. B. Stubbs .....	do .....	77. 84
	D. J. Herndon .....	do .....	103. 30
	W. H. Alexander .....	do .....	103. 30
	J. Lopez .....	do .....	40. 00
	E. C. Thompson .....	do .....	129. 20
	W. T. Lathrop .....	do .....	86. 10
	F. Montgomery .....	do .....	86. 10

## 430 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

*Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.*

## METEOROLOGICAL OBSERVATION STATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Jan. 31	W. B. Stockman	Salary	\$172.20
	H. E. Hobbs	do	86.34
	M. B. Stubbs	do	6.75
	C. F. Marvin et al.	do	571.70
Feb. 4	A. E. Outerbridge & Co	Passenger transportation	50.00
	Cuba Submarine Telegraph Co. (Limited)	Telegraph services	3.85
	American Writing Machine Co	New Century caligraph	144.50
	Cuba Submarine Telegraph Co. (Limited)	Telegraph services	29.20
7	M. G. Roves	Office rent	40.00
	M. Saumill	do	25.00
	Schneider Bros	Cloud nephoscopes	135.00
10	A. D. Kinsman	Salary	86.10
	Chadwick Copying Book Co	Copying books	61.20
	E. H. Cheney	Office rent	7.95
	H. O. Geren	Traveling expenses	46.34
12	Cuban Central Rwys. (Limited)	Passenger transportation	1.77
	R. C. Ballantyne	Paper	64.68
	Mackall Bros	Soap	58.00
	C. Sevilla	Cleaning office	7.58
	Paul De Graw	Salary	103.30
	R. P. Clarke Co	Felt	113.01
20	R. P. Andrews & Co. (Incorporated)	Paper	120.00
	Postal Telegraph Cable Co	Telegraph services	154.09
	do	do	221.74
	Western Union Telegraph Co	do	190.89
	H. E. Hobbs	Salary	21.00
	E. C. Newsam	do	25.00
	Paul De Graw	Traveling expenses	2.50
	do	do	6.25
	J. A. Roebblings Sons Co	Cable	60.00
	United States Envelope Co	Envelopes	315.65
	Direct West India Cable Co. (Limited)	Telegraph services	150.00
	The French Telegraph Cable Co	do	495.79
	Flint & Walling Manufacturing Co	Hoisting attachment	23.25
21	Queen & Co. (Incorporated)	Sunshine recorders	150.00
	A. D. Kinsman	Postage, etc	2.95
	W. C. Devereaux	Station expenses	10.12
	Direct West India Cable Co. (Limited)	Telegraph services	152.52
	Cuba Submarine Telegraph Co. (Limited)	do	1.15
	Royal Dutch West India Mail Service	Passenger transportation	60.00
	Rudolph, West & Co	Feather dusters	102.40
	Paul De Graw	Station expenses	15.00
28	P. De Graw	Salary	79.44
	C. H. Richardson	do	77.80
	W. A. Schoppe	do	65.40
	J. J. O'Donnell	do	83.89
	J. H. Armington	do	65.40
	W. C. Devereaux	do	93.40
	A. V. Randall	do	93.40
	J. F. Voorhees	do	65.40
	M. B. Stubbs	do	65.40
	J. H. Kimball	do	65.40
	E. T. Giers	do	77.80
	D. J. Herndon	do	93.40
	Joseph Lopez	do	40.00
	W. H. Alexander	do	93.40
	E. C. Thompson	do	116.60
	W. T. Lathrop	do	77.80
	Frank Montgomery	do	77.80
	A. H. Thiessen	do	116.60
	W. B. Stockman	do	155.60
	H. O. Geren	do	77.80
	M. W. Hayes	do	116.60
	Pennsylvania R. R. Co	Freight charges	1.24
	do	do	.62
	Morris European and American Express Co. (Limited)	do	14.76
	Boulton, Bliss & Dallett	do	.79
	The New York and Cuba Mail Steamship Co.	Passenger transportation	45.00
	Sobrinos de Herrera	do	50.00
	C. F. Marvin et al.	Pay roll	516.60
Mar. 5	Morris European and American Express Co. (Limited)	Freight charges	2.05
	A. D. Kinsman	Traveling expenses	310.93
9	Louis Dorman	Salary	16.73
	R. J. Miller	Postage	3.45
	M. G. Roves	Office rent	40.00
12	Morris European and American Express Co. (Limited)	Freight charges	3.05

## Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## METEOROLOGICAL OBSERVATION STATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Mar. 12	Morris European and American Express Co. (Limited).	Freight charges .....	\$29.01
	M. Saumill .....	Office rent .....	25.00
	Carmelo Seville .....	Cleaning office .....	5.00
	New York and Cuba Mail Steamship Co. ....	Freight charges .....	.40
14	Morris European and American Express Co. (Limited).	do .....	6.28
	do .....	do .....	17.35
	Jno. R. Roeblings Sons Co .....	Cable reel .....	5.00
	C. E. Ashcraft, jr .....	Salary .....	66.69
	Western Union Telegraph Co .....	Telegraph services .....	9.56
17	Eberhard Faber .....	Rubber bands .....	139.10
	E. C. Thompson .....	Station expenses .....	16.30
20	Flint & Walling Manufacturing Co .....	Instrument supports, platform, etc. ....	201.60
	The Okonite Co. (Limited) .....	Copper wire, etc .....	120.00
	United States Express Co. ....	Express charges .....	9.55
24	West India and Panama Telegraph Co. (Limited).	Telegraph services .....	719.37
	Direct West India Cable Co. (Limited) .....	do .....	154.62
	Postal Telegraph Cable Co .....	do .....	20.07
31	Paul De Graw .....	Salary .....	86.10
	C. H. Richardson .....	do .....	86.10
	J. J. O'Donnell .....	do .....	86.10
	W. J. A. Schoppe .....	do .....	72.30
	C. E. Ashcraft .....	do .....	63.88
	J. H. Armington .....	do .....	72.30
	W. C. Devereaux .....	do .....	103.30
	M. W. Hayes .....	do .....	129.20
	A. V. Randall .....	do .....	103.30
	J. F. Voorhees .....	do .....	72.30
	J. H. Kimball .....	do .....	72.30
	E. T. Giers .....	do .....	86.10
	M. B. Stubbs .....	do .....	72.30
	D. J. Herndon .....	do .....	103.30
	W. H. Alexander .....	do .....	103.30
	Joseph Lopez .....	do .....	40.00
	E. C. Thompson .....	do .....	129.20
	W. T. Lathrop .....	do .....	86.10
	Frank Montgomery .....	do .....	86.10
	A. H. Thiessen .....	do .....	129.20
	Wm. B. Stockman .....	do .....	172.20
	Flint & Walling Manufacturing Co .....	Galvanized wire .....	107.60
	Postal Telegraph Cable Co .....	Telegraph services .....	3.42
	Western Union Telegraph Co .....	do .....	8.84
	C. F. Marvin et al. ....	Pay roll .....	571.70
	Total third quarter .....		15,500.90
Apr. 7	Jose Valenti .....	Office rent .....	75.00
	D. Hope Ross .....	do .....	72.00
	M. G. Roves .....	do .....	40.00
	A. B. Smith .....	do .....	85.35
	Erie R. R. Co .....	Passenger transportation .....	5.00
	Julien P. Friez .....	Parts of instruments .....	22.00
11	H. O. Geren .....	Salary .....	86.10
	Frederick Leyland & Co. Steamship Co. ....	Passenger transportation .....	30.00
	Morgan's Louisiana and Texas Railroad and Steamship Co. ....	do .....	51.65
	The Pennsylvania R. R. Co .....	do .....	21.80
	Wm. C. Devereaux .....	Office expenses .....	9.83
	M. Saumill .....	do .....	25.00
14	Postal Telegraph Cable Co .....	Telegraph services .....	4.28
	A. D. Kinsman .....	Salary .....	58.33
	Carmelo Seville .....	do .....	5.00
21	Geo. F. Muth & Co. ....	Lamp chimneys .....	36.00
	Morgan's Louisiana and Texas Railroad Steamship Co. ....	Passenger transportation .....	70.00
	Clinckett & Coates .....	Office rent .....	88.00
	Sociedad Anonima Luz Electrica .....	Electric light .....	21.60
	A. Lynn Hijos de Perez Moris .....	Printing bulletins .....	78.00
	Department of Interior, Porto Rico .....	Office rent .....	150.00
	Ferrocarril de Cuba .....	Passenger transportation .....	15.35
30	C. H. Richardson .....	Salary .....	82.40
	J. J. O'Donnell .....	do .....	82.40
	W. J. A. Schoppe .....	do .....	69.20
	C. E. Ashcraft .....	do .....	82.40
	H. O. Geren .....	do .....	151.60
	W. H. Treat .....	do .....	39.30
	W. C. Devereaux .....	do .....	98.90

## 432 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## METEOROLOGICAL OBSERVATION STATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
Apr. 30	M. W. Hayes	Salary	\$123.60
	A. V. Randall	do	98.90
	J. F. Voorhees	do	69.20
	J. H. Kimball	do	69.20
	E. T. Giers	do	82.40
	M. B. Stubbs	do	69.20
	D. J. Herndon	do	98.90
	R. A. Dyke	do	59.30
	W. H. Alexander	do	98.90
	Joseph Lopez	do	40.00
	E. C. Thompson	do	123.60
	W. T. Lathrop	do	82.40
	Frank Montgomery	do	82.40
	Wm. B. Stockman	do	164.80
	A. H. Thiessen	do	123.60
	Paul De Graw	do	82.40
	E. T. Burns	do	59.30
	Morris European and American Express Co. (Limited).	Freight transportation	2.85
	Pennsylvania R. R. Co.	do	.39
	do	do	1.28
	do	do	1.03
May 5	C. F. Marvin et al	Pay roll	547.25
	M. G. Copeland Co.	Flags	352.75
	W. B. Moses & Sons	Chairs	30.96
	John C. Parker	Bed plates, etc	200.00
	Keuffel & Esser Co.	Drawing tables	33.00
	Direct West India Cable Co.	Telegraph services	150.00
	John Underwood & Co.	Carbon paper	80.85
	Schneider Bros.	Anemometer cups.	50.00
	Western Union Telegraph Co.	Telegraph services	8.67
7	M. Saumill	Office rent	25.00
12	New York and Cuba Mail Steamship Co.	Passenger transportation	60.00
	Julien P. Friez	Rain gauges	187.50
	Densmore Typewriter Co.	Ink pads	9.60
	The Fyricide Manufacturing Co.	Fyricide extinguishers	324.00
	Lamb & Tilden	Inking pads	136.50
	Peter Gray & Sons	Brass clamps	9.00
	Carmelo Sevillo	Cleaning office.	5.00
	E. C. Thompson	Station expenses	16.50
	M. G. Roves	Office rent	40.00
	Croncy & Co.	do	120.00
	W. H. Alexander	Traveling expenses	100.00
13	W. C. Devereaux	Station expenses	4.17
	New York and Porto Rico Steamship Co.	Freight charges	1.95
16	D. Frank Parker	Cyclostyle pens	45.00
	The Friedenwald Co.	Paper wrappers	240.00
	W. B. Moses & Sons	Chairs	59.46
19	United States Express Co.	Express charges	1.90
	Hamilton Rolle	Office rent	9.00
	C. E. Johnson & Co.	Printing ink	50.00
27	M. Du Perow	Brushes	27.00
	The J. C. Ergood Co.	Lye	17.60
	Philip Lindemeyer	Mailing tubes	9.00
31	J. C. Parker	Carbon paper	4.50
	C. H. Richardson	Salary	85.20
	J. J. O'Donnell	do	85.20
	W. J. A. Schoppe	do	71.60
	C. E. Ashcraft	do	85.20
	H. O. Geren	do	156.80
	W. H. Treat	do	61.40
	W. C. Devereaux	do	102.20
	M. W. Hayes	do	127.80
	A. V. Randall	do	102.20
	J. F. Voorhees	do	71.60
	E. T. Burns	do	61.40
	J. H. Kimball	do	71.60
	M. B. Stubbs	do	71.60
	R. A. Dyke	do	61.40
	W. H. Alexander	do	102.20
	J. Lopez	do	40.00
	E. C. Thompson	do	127.80
	W. T. Lathrop	do	85.20
	F. Montgomery	do	85.20
	W. B. Stockman	do	170.40
	Paul De Graw	do	85.20
	A. H. Thiessen	do	127.80
	D. J. Herndon	do	102.20
	Rudolph, West & Co.	Cotton waste	36.25
	The Waterbury Battery Co.	Battery recharges	262.50

## Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## METEOROLOGICAL OBSERVATION STATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1903.			
May 31	The Bunnell Telegraph and Electrical Co.	Wire .....	\$21.00
	Julien P. Friez	Anemometer register .....	40.00
	J. P. Nawrath	Hemp twine .....	67.05
	E. H. Emery	Ticket to Santo Domingo .....	70.00
	C. F. Marvin et al	Pay roll .....	565.50
	G. F. Muth	Oil .....	39.68
June 3	H. E. Hobbs	Salary .....	39.23
	G. W. Millar & Co	Paper .....	60.00
10	M. Saumill	Office rent .....	25.00
	M. G. Roves	do .....	40.00
	Direct West India Cable Co.	Telegraph services .....	152.52
	New York and Cuba Mail Steamship Co	Passenger transportation .....	45.00
	C. Sevilla	Cleaning office .....	5.00
	John Underwood & Co.	Carbon paper .....	152.40
	Eberhard Faber	Files .....	23.40
18	M. Du Perow	Sounders .....	24.00
	Mackall Bros	Soap .....	30.00
	United States Envelope Co	Envelopes .....	31.20
	D. Frank Parker	Mimeograph varnish .....	60.00
	Julien P. Friez	Instruments .....	338.50
	E. T. Giers	Salary .....	35.71
30	C. H. Richardson	do .....	82.40
	W. T. Lathrop	do .....	82.40
	Frank Montgomery	do .....	82.40
	W. B. Stockman	do .....	164.80
	A. H. Thiessen	do .....	123.60
	H. E. Hobbs	do .....	69.20
	J. J. O'Donnell	do .....	82.40
	W. J. A. Schoppe	do .....	69.20
	C. E. Ashcraft, jr	do .....	82.40
	W. H. Treat	do .....	59.30
	W. C. Devereaux	do .....	98.90
	M. W. Hayes	do .....	123.60
	A. V. Randall	do .....	98.90
	E. T. Burns	do .....	59.30
	M. B. Stubbs	do .....	69.20
	Paul De Graw	do .....	82.40
	D. J. Herndon	do .....	98.90
	W. H. Alexander	do .....	98.90
	Joseph Lopez	do .....	40.00
	E. C. Thompson	do .....	123.60
	J. H. Kimball	do .....	69.20
	J. F. Voorhees	do .....	69.20
	H. O. Geren et al.	do .....	151.60
	A. Zappone	Passport for B. C. Kadel .....	1.00
	Successores J. B. Vicini	Office rent .....	240.00
	F. A. Schmidt	Millographs .....	250.00
	Western Union Telegraph Co	Telegraph services .....	7.71
	do	do .....	6.20
	J. C. Parker	Scratch book .....	118.90
	M. Saumill	Office rent .....	25.00
	Geo. F. Muth & Co	Brushes .....	31.80
	Direct West India Cable Co. (Limited)	Telegraph services .....	150.00
	United Trust Co.	Passenger transportation .....	35.00
	C. F. Marvin et al	Pay roll .....	547.25
	Total fourth quarter .....		13,966.10
	<i>Supplemental.</i>		
July 3	R. A. Dyke	Salary .....	59.30
9	José Valenti	Office rent .....	75.00
	M. G. Roves	do .....	40.00
	A. E. Outerbridge & Co	Passenger transportation .....	60.00
	C. E. Johnson & Co	Ink .....	300.00
10	Boulton, Bliss & Dallett.	Passenger transportation .....	70.00
	Camelo Sevilla	Cleaning office .....	5.00
	Paul De Graw	Traveling expenses .....	38.83
	Alice Stevens	Services .....	48.00
20	Julien P. Friez	Instruments .....	138.50
	Clinckett & Coates	Office rent .....	88.00
	W. C. Devereaux	Station expenses .....	11.03
	The Pennsylvania R. R. Co	Passenger transportation .....	6.50
31	M. B. Stubbs	Traveling expenses .....	13.12
	Louis Dorman	Salary .....	98.90
	Department of the Interior of Porto Rico.	Office rent .....	150.00
	Sociedad Anonima Luz Electrica	Electric light .....	21.60
	A. Lynn é Hijos de Perez Moris	Printing bulletins .....	78.00
	T. A. Schmidt	Measuring sticks and gauges .....	405.00

## 434 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## METEOROLOGICAL OBSERVATION STATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
<i>Supplemental—Continued.</i>			
1903.			
July 31	M. G. Copeland Co. ....	Flags .....	\$907.50
	Wyckoff, Seamans & Benedict .....	Typewriters .....	180.00
	Rudolph, West & Co .....	Balyards .....	120.00
	J. J. O'Donnell .....	Subsistence .....	109.00
	do .....	do .....	30.00
	D. Hope Ross .....	Office rent .....	72.00
	A. B. Smith .....	do .....	85.35
	E. Nuttall .....	do .....	109.50
	do .....	do .....	109.50
Aug. 6	E. H. Emery .....	Passport .....	2.00
	Paul De Grauw .....	Station expenses and subsistence .....	24.80
	J. J. O'Donnell .....	Station expenses .....	11.45
	Morgan's Louisiana and Texas R. R. and Steamship Co. ....	Passenger transportation .....	35.00
	J. E. Turton .....	Box supports .....	575.00
12	W. H. Alexander .....	Station expenses .....	15.00
	do .....	Painting instrument shelters .....	34.00
	Southern Pacific Co. ....	Freight charges .....	22.46
15	J. E. Turton .....	Instrument shelters .....	67.50
	The Friedenwald Co. ....	Paper wrappers .....	240.00
	Pennsylvania R. R. Co .....	Passenger transportation .....	5.27
24	New York, New Haven and Hartford R. R. ....	do .....	5.00
	Delaware, Lackawanna and Western R. R. Co. ....	do .....	4.35
	United States Express Co .....	Express charges .....	1.15
Sept. 3	Chicago, Milwaukee and St. Paul Rwy. Co. ....	Passenger transportation .....	19.80
	Pennsylvania R. R. Co .....	Freight charges .....	.70
	do .....	do .....	.85
	Morris European and American Express Co. (Limited) .....	do .....	3.21
9	W. T. Lathrop .....	Traveling expenses .....	1.70
	C. H. Richardson .....	Subsistence .....	21.67
	do .....	Traveling expenses .....	6.00
15	H. E. Hobbs .....	do .....	18.85
	C. H. Richardson .....	Drayage and running levels .....	6.80
22	Direct West India Cable Co. (Limited) .....	Telegraph services .....	150.00
	B. C. Kadel .....	Janitor services and telephone rent .....	24.00
	do .....	Traveling expenses .....	12.25
	do .....	Janitor service and telephone rent .....	24.00
	Boulton, Bliss & Dallett .....	Freight charges .....	3.71
	Western Union Telegraph Co .....	Telegraph services .....	6.20
	Pennsylvania R. R. Co .....	Freight charges .....	.77
Oct. 12	Western Union Telegraph Co .....	Telegraph services .....	6.36
	W. T. Lathrop .....	Traveling expenses .....	.75
	H. Rolle .....	Office rent .....	9.00
24	L. E. Williams .....	Running levels .....	12.00
	Total .....		4,800.73

## RECAPITULATION.

First quarter .....	\$11,483.64
Second quarter .....	13,857.51
Third quarter .....	15,500.90
Fourth quarter .....	13,966.10
Supplemental .....	4,800.73
Total .....	59,608.88

## BUILDINGS—WEATHER BUREAU.

Date.	Name.	Nature of payment.	Total.
1902.			
Sept. 22	H. F. L. Allen .....	Land in Loudoun County, Va. ....	\$1,373.50
	A. Zappone .....	Surveying land and recording deed .....	40.40
	Total first quarter .....		1,413.90
Oct. 3	A. M. Ferguson .....	Building site in Key West, Fla. ....	2,020.00
9	W. U. Simons .....	Recording deed .....	2.25



Expenditures of Department of Agriculture for year ending June 30, 1903—Cont'd.

## BUILDINGS—WEATHER BUREAU—Continued.

Date.	Name.	Nature of payment.	Total.
1902.			
Dec. 22	Reid Bros .....	Plans for building, etc., S. E. Farallon, Cal.	\$333.22
23	M. W. Cunningham .....	Land in Potter County, Tex. ....	1,255.00
31	C. L. Harding .....	Plans for building, Key West. ....	442.50
	do .....	Plans for building, Sand Key. ....	323.00
	W. H. Healy .....	Erecting building, S. E. Farallon, Cal.	4,518.00
	T. C. Baker .....	Drilling well .....	47.25
	Total second quarter .....		8,941.22
1903.			
Jan. 9	W. H. Atwell .....	Recording deed .....	2.00
10	T. C. Baker .....	Drilling well .....	220.50
24	do .....	do .....	156.15
31	G. W. S. Bell .....	Erecting building, Key West, Fla.	1,500.00
Feb. 12	Toffelmire & Gentry .....	Erecting building, Amarillo, Tex.	1,000.00
	C. L. Harding .....	Plans for building, Amarillo, Tex.	375.00
21	G. W. S. Bell .....	Erecting building, Key West, Fla.	1,500.00
Mar. 17	do .....	Erecting building, Sand Key, Fla.	1,000.00
	do .....	Erecting building, Key West, Fla.	1,500.00
20	Toffelmire & Gentry .....	Erecting building, Amarillo, Tex.	2,000.00
	Total third quarter .....		9,253.65
Apr. 7	T. C. Baker .....	Drilling well .....	158.40
14	G. W. S. Bell .....	Erecting building, Key West, Fla.	1,500.00
	do .....	Erecting building, Sand Key, Fla.	1,500.00
May 5	Hartwell & Crone .....	Erecting building, Modena, Utah	900.00
7	Dyer Bros., Golden West Iron Works (Incorporated).	Erecting storm-warning tower and instruments.	360.00
13	Hartwell & Crone .....	Erecting building, Modena, Utah	1,500.00
27	G. W. S. Bell .....	Erecting building, Key West, Fla.	1,000.00
	do .....	Erecting building, Sand Key, Fla.	1,000.00
	Toffelmire & Gentry .....	Erecting building, Amarillo, Tex.	2,000.00
June 10	G. W. S. Bell .....	Erecting building, Key West, Fla.	550.00
13	T. P. Simpson .....	Erecting building, Mount Weather, Va.	1,500.00
15	G. W. S. Bell .....	Erecting building, etc., Sand Key, Fla.	1,770.00
	C. L. Harding .....	Plans and specifications for building.	225.00
18	Barber & Ross .....	Electric-light fixtures .....	90.00
	Hartwell & Crone .....	Erecting building, Modena, Utah	1,721.00
30	T. C. Baker .....	Drilling well .....	262.30
	Total fourth quarter .....		16,036.70
	<i>Supplemental.</i>		
July 15	Thomas P. Simpson .....	Erecting building, Mount Weather.	1,500.00
27	Toffelmire & Gentry .....	Erecting frame building, Amarillo.	417.00
	do .....	Installing electric-light fixtures	35.00
	do .....	Constructing wire fence .....	521.00
	do .....	Plowing and grading grounds .....	63.00
Aug. 24	Thomas P. Simpson .....	Erecting building, Mount Weather.	2,000.00
Sept. 30	do .....	do .....	2,000.00
Nov. 7	T. P. Simpson .....	do .....	1,400.00
	Total supplemental .....		7,936.00

436 EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

Expenditures of Department of Agriculture for year ending June 30, 1903—Cont

RECAPITULATION.

First quarter.....	\$1,413
Second quarter.....	8,941
Third quarter.....	9,253
Fourth quarter.....	16,036
Supplemental.....	7,936
Total.....	<u>43,581</u>

CABLE AND LAND LINES, WEATHER BUREAU.

Date.	Name.	Nature of payment.	Total
1903.			
Feb. 4	A. E. Ziehme.....	Telephones.....	\$40
28	W. R. Brixey.....	Cable.....	5,675
Mar. 5	McCay Engineering Co.....	Laying cable.....	1,050
	Florida Cattle and Transportation Co.....	Transporting cable.....	208
12	McCay Engineering Co.....	Laying cable.....	250
14	Paul Seiler Electrical Works.....	Telegraph poles, insulators, etc.....	210
	Total third quarter.....		<u>7,433</u>
Apr. 14	Bishop Gutta-Percha Co.....	Conductor cable.....	30,550
May 5	McCay Engineering Co.....	Laying cable.....	1,950
June 18	The J. M. Klein Electrical Works.....	Erecting telegraph line.....	66
	Total fourth quarter.....		<u>32,566</u>

RECAPITULATION.

Third quarter.....	\$7,433
Fourth quarter.....	32,566
Total.....	<u>40,000</u>

STORM-WARNING STATIONS, GLENHAVEN AND SOUTH MANITOU ISLAND MICHIGAN.

Date.	Name.	Nature of payment.	Total
1903.			
Feb. 4	A. E. Ziehme.....	Telephones.....	\$30
Mar. 24	Flint & Walling Manufacturing Co.....	Storm-warning tower, lanterns, etc.....	139
31	Rudolph, West & Co.....	Climbers, shovels, etc.....	12
	Total third quarter.....		<u>181</u>
May 12	D. H. Day.....	Telephone poles.....	50
19	F. E. Fisher.....	do.....	25
27	Peter Gray.....	Storm-warning lanterns.....	75
	Bishop Gutta-Percha Co.....	Cable.....	13,025
	McCay Engineering Co.....	Laying cable.....	95
	Total fourth quarter.....		<u>14,722</u>
	<i>Supplemental.</i>		
July 31	Western Telephone Manufacturing Co.....	Desk telephones.....	40
	National Electrical Supply Co.....	Pliers.....	7
Sept. 9	John A. Roebling's Sons Co.....	Telegraph wire.....	48
	Total.....		<u>95</u>

RECAPITULATION.

Third quarter.....	\$181
Fourth quarter.....	14,722
Supplemental.....	95
Total.....	<u>15,000</u>

