

OPERATIONS OF THE BUREAU OF ANIMAL INDUSTRY.

LETTER

FROM

THE SECRETARY OF AGRICULTURE,

TRANSMITTING

ANNUAL REPORT OF THE BUREAU OF ANIMAL INDUSTRY FOR
THE FISCAL YEAR ENDED JUNE 30, 1899.

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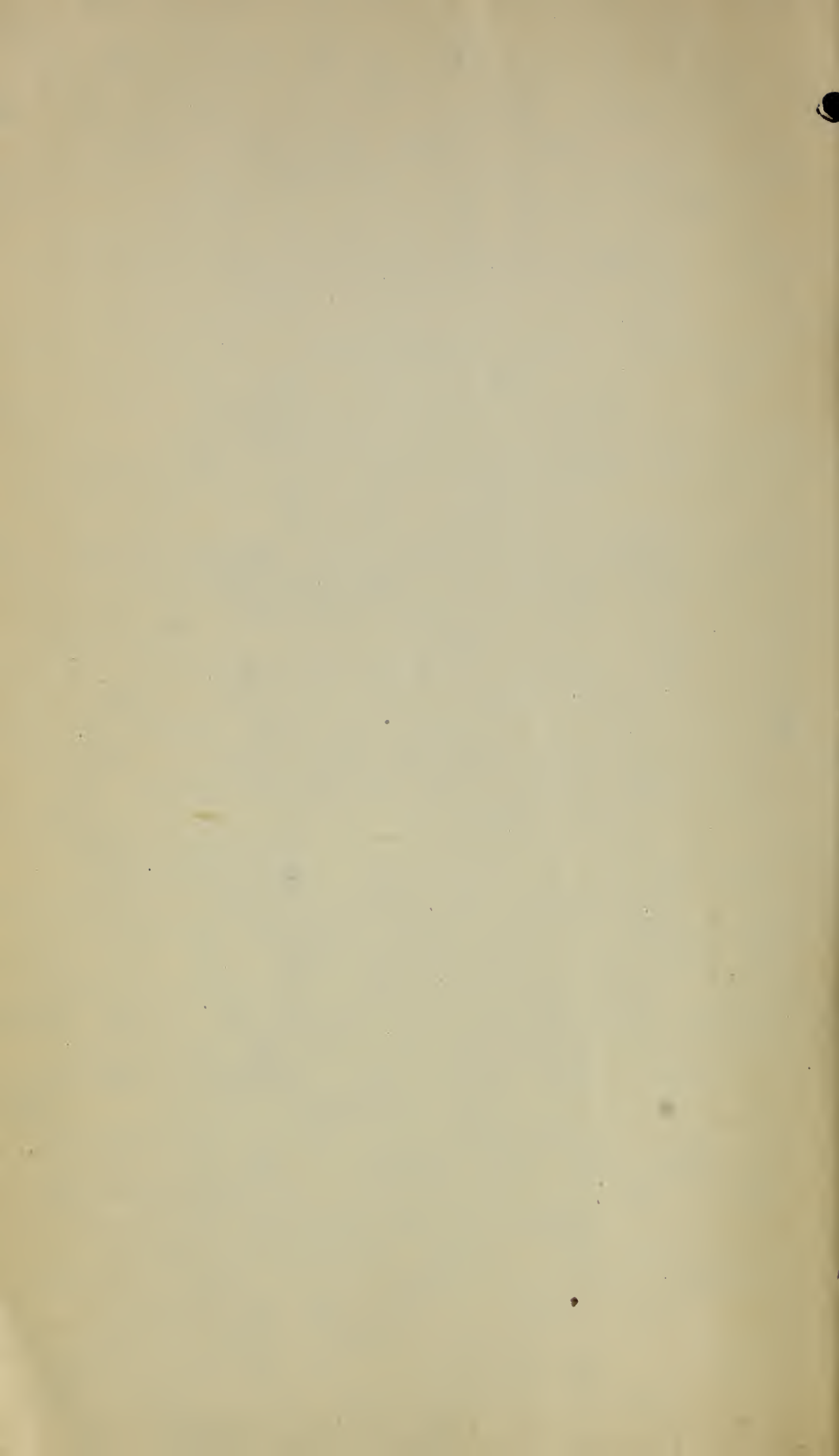
U. S. DEPARTMENT OF AGRICULTURE,
OFFICE OF THE SECRETARY,
Washington, D. C., January 10, 1900.

SIR: I have the honor to transmit herewith the report of the operations of the Bureau of Animal Industry for the fiscal year ended June 30, 1899, in compliance with the requirements of section 11 of the act approved May 29, 1884, for the establishment of that Bureau.

Very respectfully,

JAMES WILSON, *Secretary.*

The PRESIDENT OF THE SENATE.



OPERATIONS OF THE BUREAU OF ANIMAL INDUSTRY FOR THE FISCAL YEAR ENDED JUNE 30, 1899.

INSPECTION DIVISION.

MEAT INSPECTION.

The inspection of cattle, sheep, calves, and hogs, and their products, was carried on at 138 abattoirs and packing houses in 41 cities. This was an increase of 3 abattoirs and 6 cities over the previous year, and of 10 abattoirs and 8 cities over the fiscal year 1897. In 12 of the cities where inspection was carried on last year (Chicago, Kansas City, South Omaha, Milwaukee, Sioux City, East St. Louis (National Stock Yards), St. Louis, Indianapolis, South St. Joseph, Pittsburg, South St. Paul, and Buffalo) the ante-mortem inspection was made in the stock yards, and included animals purchased by miscellaneous buyers and those for shipment to other cities, as well as those for local official abattoirs. The inspection of horses was conducted at one abattoir only.

The following table gives the number of inspections made upon animals before slaughter. It also shows the number rejected upon this inspection, subject to the result of the post-mortem examination. The rigidity of the ante-mortem inspection is evidenced by the fact that upon examination at slaughter much the greater number of carcasses are pronounced fit for food. Many animals are rejected in the stock yards on account of pregnancy; these are allowed to be shipped out when desired for feeding or dairy purposes:

Ante-mortem inspections for fiscal year 1899.

Kind of animal.	For official abattoirs in cities where inspections were made.	For abattoirs in other cities and miscellaneous buyers.	Total inspections.	Rejected at abattoirs.	Rejected in stock yards.
Cattle	4,654,842	4,288,562	8,943,404	180	26,593
Sheep	5,718,464	3,819,920	9,538,384	476	18,150
Calves	245,859	253,404	499,263	41	3,128
Hogs	23,783,576	10,455,317	34,238,893	4,942	102,992
Horses	3,232	.....	3,232	37	.....
Total	34,405,973	18,817,203	53,223,176	5,676	150,863

A comparison of these figures with several previous years will show how this work has progressed each year. The following table gives the total ante-mortem inspections for the fiscal years 1896 to 1899, inclusive:

Total number of ante-mortem inspections for four years.

Fiscal year.	Cattle.	Sheep.	Calves.	Hogs.
1896	7, 529, 523	6, 318, 284	314, 846	21, 754, 826
1897	8, 250, 025	8, 044, 355	448, 983	25, 566, 744
1898	9, 228, 237	10, 028, 287	468, 199	31, 610, 675
1899	8, 943, 404	9, 538, 384	499, 263	34, 238, 893

The number of animals inspected at time of slaughter, and the number of carcasses and parts of carcasses condemned and rendered so as to unfit them for consumption as food, are given in the following table:

Post-mortem inspections for fiscal year 1899.

Kind of animal.	Number of inspections.			Carcasses condemned.			
	For official abattoirs.	On animals rejected in stock yards.	Total.	For official abattoirs.	Animals rejected in stock yards.	Total.	Parts of carcasses condemned at abattoirs.
Cattle.....	4, 382, 020	16, 726	4, 398, 746	6, 404	3, 219	9, 623	10, 514
Sheep.....	5, 603, 096	6, 023	5, 609, 119	3, 369	1, 476	4, 845	359
Calves.....	246, 184	935	247, 119	199	105	304	45
Hogs.....	23, 836, 943	67, 996	23, 904, 939	48, 897	6, 122	55, 019	29, 143
Horses.....	3, 232	.....	3, 232	181	.....	181	.....
Total	34, 071, 475	91, 680	34, 163, 155	59, 050	10, 922	69, 972	40, 061

In addition to the condemnations upon regular inspection, as above given, there were 41,597 carcasses of hogs condemned upon microscopic examination for trichinæ. In accordance with the provisions of section 22 of the regulations governing meat inspection, about half of the meat from these carcasses was cooked, the rest being tanked.

For the purpose of comparison, the following table is given:

Number of animals inspected before slaughter for abattoirs having inspection, 1891-1899.

Fiscal year.	Cattle.	Calves.	Sheep.	Hogs.	Horses.	Total.
1891	83, 891	.....	.....	.....	.....	83, 891
1892	3, 167, 009	59, 089	583, 361	.....	.....	3, 809, 459
1893	3, 922, 174	92, 947	870, 512	.....	.....	4, 885, 633
1894	3, 862, 111	96, 331	1, 020, 764	7, 964, 850	.....	12, 944, 056
1895	3, 752, 111	109, 941	1, 344, 031	13, 576, 917	.....	18, 783, 000
1896	4, 050, 011	213, 575	4, 710, 190	14, 301, 963	.....	23, 275, 739
1897	4, 289, 058	259, 930	5, 179, 643	16, 813, 181	.....	26, 541, 812
1898	4, 552, 919	241, 092	5, 706, 092	20, 713, 863	.....	31, 213, 966
1899	4, 654, 842	245, 859	5, 718, 464	23, 783, 576	3, 232	34, 405, 973

The number of animals that died of disease or injury, or were killed by city inspectors after rejection in the stock yards, added to those found dead in cars or pens at abattoirs and tanked, is shown in the following table:

Number of different kinds of animals rejected for fiscal year 1899.

Manner of death.	Cattle.	Sheep.	Calves.	Hogs.	Horses.	Total.
Dead at abattoirs	235	1,059	36	19,424	43	20,797
Died in stock yards.....	309	1,121	105	2,201	.....	3,736
Killed in stock yards	1,296	784	176	21,274	.....	23,530
Total.....	1,840	2,964	317	42,899	43	48,063

Tag or brand affixed.—The meat-inspection tag or brand was affixed to 14,919,664 quarters and 217,920 pieces of beef, 5,522,142 carcasses of sheep, 225,348 carcasses of calves, 932,878 carcasses of hogs, and 551,331 sacks of pork.

Packages stamped.—The number of packages stamped comprised 4,840,834 of beef products, 9,417 of mutton, 12,545,965 of hog products, and 763 of horse flesh. The number of packages of hog products just given includes 393,838 packages which contained meat that had been microscopically examined in addition to the regular inspection.

Cars sealed.—The number of cars sealed which contained inspected meat for shipment to packing houses and other places was 47,455.

Certificates issued.—The number of certificates issued for meat products which had received the regular inspection, exclusive of horse flesh, was 42,237. The exports thus certified consisted of 1,428,290 quarters, 45,789 pieces, and 837,634 packages of beef, weighing 360,843,856 pounds; 9,417 packages of mutton, weighing 525,705 pounds; 109,505 carcasses and 880,324 packages of pork, weighing 278,696,435 pounds. Fourteen certificates were issued for 763 packages of horse flesh, weighing 347,048 pounds.

Cost of inspection.—The cost of this part of the work of the inspection division was \$465,709.23, which, embracing all the branches of meat inspection, makes an average of 0.88 cent for each of the 53,223,176 ante-mortem inspections.

The following statement shows the cost of each ante-mortem inspection from 1893 to 1899, inclusive:

	Cents.
1893.....	4.75
1894.....	1.75
1895.....	1.10
1896.....	.95
1897.....	.91
1898.....	.80
1899.....	.88

MICROSCOPIC EXAMINATION OF PORK.

The number of carcasses examined was 2,227,740. The result of the examination was: Class A, free from all appearance of trichinæ, 2,160,230, or 96.97 per cent; Class B, containing trichinæ-like bodies or disintegrated trichinæ, 25,913, or 1.16 per cent; Class C, containing living trichinæ, 41,597, or 1.87 per cent.

The number of certificates issued for microscopically examined pork products was 22,708. The number of packages exported was 393,626, weighing 108,928,195 pounds. Of this quantity, 137 packages, weighing 70,046 pounds, went to countries not requiring a certificate of microscopic inspection.

The cost of the microscopic inspection was \$198,355.14, an average of 8.9 cents for each carcass examined and of 0.182 cent for each pound exported.

The apparent increase in the cost over last year is due in some measure to the necessity of increasing the force in order to maintain a more careful control of the stock of microscopic meats and of the cellars containing it, and to a more accurate system of charging employees to different accounts according to the kind of work performed, whereby a number of salaries which have heretofore been charged to general meat inspection have more properly been counted as part of the expense of the microscopic inspection.

INSPECTION OF VESSELS AND EXPORT ANIMALS.

The year shows a considerable falling off in the number of domestic animals exported to Europe. In the table following are given the number of inspections of American and Canadian cattle and sheep for export, the number rejected, the number of American cattle tagged, and the number of animals exported under the supervision of inspectors of this Bureau:

Number of inspections, etc., of American and Canadian farm animals.

Kind of animals.	American.				Canadian.		
	Inspections.	Rejected.	Tagged.	Exported.	Inspected.	Rejected.	Exported.
Cattle	643,301	1,593	327,741	1 311,595	27,806	9	27,797
Sheep	174,717	118	.....	2 98,551	37,247	41	37,206
Horses .....	.....	.....	.....	26,351	.....	.....	2,685
Hogs .....	.....	.....	.....	98	.....	.....	.....

114,786 from Chicago via Canadian ports.

24,757 from Chicago via Canadian ports.

The number of certificates issued for American cattle was 1,201. The number of clearances of vessels carrying live stock that had been inspected was 852.

The following table shows the number of animals inspected at time of landing by the inspectors of this Bureau stationed at the ports of London, Liverpool, and Glasgow, together with the number and percentage lost in transit:

Number of animals inspected at time of landing in London, Liverpool, and Glasgow, and loss in transit.

From—	Cattle.			Sheep.			Horses.		
	Landed.	Lost.		Landed.	Lost.		Landed.	Lost.	
	<i>Number</i>	<i>Number.</i>	<i>Per cent.</i>	<i>Number.</i>	<i>Number.</i>	<i>Per cent.</i>	<i>Number.</i>	<i>Number.</i>	<i>Per cent.</i>
United States....	294,318	911	0.31	97,659	1,526	1.54	20,035	224	1.11
Canada	24,295	1 504	2.03	34,003	1 1,639	4.6	1,808	5	.28
Total	318,613	1,415	.44	131,662	3,165	2.35	21,843	229	1.04

¹ 366 cattle and 441 sheep were lost by the wrecking of the ship.

The expense of inspection of animals for export, the supervision of the movement of Southern cattle, and the inspection of animals imported from Mexico amounted to \$107,023.41. Following the precedent of estimating half of this to be properly chargeable to the export work, we find that the cost of inspecting the 410,146 domestic cattle and sheep exported was \$53,511.70, an average of 13 cents per head. The number of inspections of these animals in this country was 818,018, and in Great Britain 391,977, a total of 1,209,995, made at an average cost of 4.42 cents for each inspection.

SOUTHERN CATTLE INSPECTION.

During the quarantine season of 1898, 32,937 cars, containing 911,455 cattle from the area infected with splenic fever of cattle, were unloaded in the quarantine divisions of the stock yards at different points. There were 33,814 cars cleaned and disinfected.

In the noninfected area in Texas 236,369 cattle were inspected and identified by brands as originating north of the quarantine line and permitted to be removed to other States for grazing. In California 37,832 cattle were inspected prior to shipment to points outside of the infected district. In conjunction with the authorities of Missouri 684 cattle originating in the northern counties of Arkansas were inspected and permitted to be driven into Missouri.

PREVENTION OF SCABIES.

In order to prevent the spread of scabies among sheep, it was required that all sheep shipped from stock yards to other States for feeding purposes be dipped with some preparation that would kill the parasite. In pursuance of this order there were dipped 145,974 sheep that were infected and 526,970 that had been exposed to the contagion of the disease.

For many years the parasitic disease of sheep popularly called scab has been prevalent, especially in some of the Western States and Territories. Diseased sheep have been shipped in violation of the law, and stock yards and stock cars have been almost constantly infected. The result has been that sheep could not be purchased for feeding purposes in any of the markets of the country without danger of bringing the contagion to the farm with them.

Not only does sheep scab always damage and often destroy the fleece, but it so reduces the strength of the affected animals that they fall an easy prey to internal parasites or succumb to unfavorable conditions of food and surroundings. Congress has specifically referred to this disease in the appropriation act as one which the Department is authorized to control by sanitary regulations.

The first step taken by the Department looking to the limitation and control of this disease was by a circular letter notifying transportation companies and shippers of the existence of the contagion and pointing out the prohibition of shipment and penalty provided by the law. Subsequently, an order was issued that diseased sheep discovered by the inspectors in transit or in infected yards should be detained and dipped before going on to destination.

The effect of these orders was to protect purchasers of store sheep and to lessen the number of diseased animals sent to market. It was found, however, that some of the dips used by stock-yards companies

and sheep owners were not efficacious, and that others were so severe or poisonous as to be dangerous. An order has consequently been issued specifying the kinds of dips which would be recognized and the manner in which they should be prepared and applied.

The effect of these measures has been extremely satisfactory. The inconvenience of detention and the expense of dipping have had the effect of lessening the number of diseased sheep sent to market, and has led to active efforts to cure them on the farm or ranch before shipping. This has been accomplished without putting the shippers of healthy sheep to any inconvenience or expense unless these animals were going to farms from infected stock yards. The indications are at this writing that it will soon be possible to make the stock cars, the central stock yards, and other channels of interstate commerce safe and free from infection, in which case store sheep could be purchased in the markets without danger of infection, and only diseased sheep would come under the restrictions.

INSPECTION OF IMPORTED ANIMALS.

The inspection of animals imported from Mexico was made at the ports of entry along the boundary line, and included 79,908 cattle, 1,254 sheep, 64 swine, and 121 goats.

The imports from Canada of animals not subject to quarantine detention consisted of 90,468 cattle, 172,985 sheep, 1,769 horses, 194 hogs, 1 moose, 1 goat, and 11 mules. Of these, 425 cattle, 6,581 sheep, and 176 hogs were for breeding purposes.

The following is a statement of the number of animals imported and held at the different quarantine stations for the prescribed period:

Number of animals imported and quarantined at different stations.

Stations.	Cattle.	Sheep.	Hogs.
Littleton, Mass	8	93	.....
Garfield, N. J.	335	405	45
St. Denis, Md.	6	.....	1
Houlton, Me.	483	315	2
Vanceboro, Me.	112	13	.....
Eastport, Me.	5	.....	.....
Newport, Vt.	241	.....	.....
Island Pond, Vt.	71	9	1
Beechers Falls, Vt.	19	5	.....
Richford, Vt.	43	.....	.....
St. Albans, Vt.	37	.....	.....
Ogdensburg, N. Y.	43	.....	.....
Cape Vincent, N. Y.	78	.....	.....
Buffalo, N. Y.	38	.....	.....
Port Huron, Mich.	43	.....	.....
Total	1,562	840	49

There were also at the Garfield station 12 camels, making a total of 2,463 animals quarantined.

PATHOLOGICAL DIVISION.

BLACKLEG INVESTIGATIONS.

The item of work which has consumed the most time in the Pathological Division has been the distribution of blackleg vaccine, including its preparation, shipment, and the correspondence incident thereto. Dur-

ing the year 6,200 letters on this subject were received, each of which required a reply and an application blank for vaccine. On return of the blanks, properly filled up, vaccine was forwarded and the application properly indexed and filed. In many instances it was necessary to dictate special letters in reply to inquiries. Vaccine was sent out to the number of 545,289 doses. The following statement shows the number of doses shipped for each month of the year:

July	19,555
August	26,305
September	3,820
October	47,487
November	69,365
December	68,260
January	50,629
February	41,145
March	29,823
April	89,575
May	44,670
June	54,655
Total	545,289

The comparatively small amount sent out in September was due to the fact that the supply was exhausted at that time. The more than half a million doses were sent principally into the States of Texas, Nebraska, Kansas, Colorado, North Dakota, New Mexico, South Dakota, and Indian Territory and Oklahoma Territory. Outbreaks of blackleg have occurred elsewhere, however, being reported from Virginia, West Virginia, Pennsylvania, Vermont, New York, Ohio, Kentucky, Tennessee, North Carolina, Michigan, Indiana, Illinois, Wisconsin, Minnesota, Iowa, Missouri, Washington, Wyoming, Montana, Oregon, Idaho, Utah, California, Arkansas, and Arizona. It appears, therefore, that this disease may prevail in any section in which cattle raising is an extensive industry.

Dr. Victor A. Nörsgaard, chief of the Pathological Division, has published an article in the annual report of this Bureau for 1898 on "Blackleg in the United States and the distribution of vaccine by the Bureau of Animal Industry," which gives a résumé of the work so far accomplished by the Bureau, the history of the disease in this country and in Europe, and the geographical distribution of the disease in the United States. Dr. Nörsgaard estimates that the annual loss of cattle from blackleg in the districts principally affected has ranged in years when the disease was most prevalent from 5 to 35 per cent. The estimated loss after inoculation with the Bureau vaccine was 0.54 per cent inoculated, or little more than one-half of 1 per cent. This percentage would have been still further reduced, no doubt, had the operators been familiar with the work of vaccination. In fact, the reports received, state that losses, when they occurred, were due to failure to follow instructions carefully. This rather remarkable record indicates the perfect safety of the method pursued when the fact is known that nearly all the inoculations were made by inexperienced persons.

The distribution of vaccine is being continued by the Bureau, and adequate measures have been taken to permit the sending of the vaccine immediately on receipt of the application. It is advisable that all stock owners in infected districts should vaccinate their young stock regularly, without awaiting an outbreak of the disease, as heavy losses may be sustained in the course of a few days. The Bureau can not,

however, undertake to keep stockmen supplied with vaccine simply for the purpose of keeping it on hand for use in case of an outbreak.

TEXAS FEVER.

It is a matter of congratulation that the method of producing immunity from Texas fever by inoculating with the blood of immune animals, as first practiced and proved efficacious by this Bureau, has been used practically with highly satisfactory results by the State Agricultural Experiment Station of Missouri. That station has very properly taken the matter up and has permitted its veterinarians to make the inoculations as a means of insuring the safety of pure-bred stock from Missouri sold for improving the herds in the Texas-fever district. The losses from the operation are understood to be insignificant, and the inoculated animals have been able to resist almost perfectly the effects of exposure to the contagion after their arrival in the infected district. The practical application of this discovery is of great importance, both to the breeders of improved stock in the more northern States and to the cattle raisers of the infected district. It permits the improvement of the southern herds without the discouraging losses which have heretofore always occurred, and no doubt it will lead to the rapid grading up of the cattle of the South and Southwest, increasing materially the numbers and values.

THE TEXAS-FEVER TICK IN THE WEST INDIES.

The new and more intimate relations which have been established between the United States and some of the islands of the West Indies have led to the inquiry as to whether these islands are permanently infected with Texas fever, as is the southern portion of the United States and the coast regions of Mexico. Information received from Jamaica has long since led to the conclusion that that island is permanently infected. The large numbers of cattle taken to Cuba from the infected districts of the United States, Mexico, Central America, and South America have unquestionably infected the larger part of the island, even if it had previously been free, which is unlikely.

Reports from Puerto Rico indicated that but a comparatively small number of cattle have recently been imported, and the quality of some of the native cattle seemed to favor the assumption that the fever contagion had not been introduced. To determine this, an inspector of the Bureau, Dr. Rice P. Steddom, was instructed to proceed to Puerto Rico and make a careful investigation. Dr. Steddom traversed a large portion of the island, and found the cattle everywhere infested with the *Boophilus bovis* tick, the presence of which in the United States is *prima facie* evidence of infection with Texas fever. When the offspring of the Puerto Rican ticks were placed upon cattle at our experiment station, however, no disease was produced. The question, therefore, is still unsettled as to whether the Pyrosoma, the true contagion of the disease, exists in Puerto Rico. It is well known that the *Boophilus* acts only as the carrier of the Pyrosoma, and that the former may exist in a district without the latter, and, conversely, the latter may exist without the former. It is only when both are present that the disease exists in a contagious form. The importance to the cattle raisers of the island of having this question speedily and definitely determined is apparent. If the Pyrosoma does not exist there,

measures should at once be adopted to prevent its entrance. The tick being certainly prevalent, the introduction of a single cow or steer bearing the *Pyrosoma* might convert these comparatively harmless parasites into the most deadly scourges of the bovine race.

BIOCHEMIC DIVISION.

TUBERCULIN AND MALLEIN.

The routine work in the preparation of tuberculin and mallein has continued during the past year. These products are furnished only to local authorities for official use. The quantity of mallein sent out to State officials and experiment stations has been sufficient to test about 5,200 animals. The quantity of tuberculin sent out during the year was sufficient to test about 36,000 animals.

STAMPING INK.

In addition to other work, this division has continued to prepare and supply ink suitable for stamping meat in such quantities as required by the inspection division.

SERUM FOR HOG CHOLERA AND SWINE PLAGUE.

The work of preparing serum for treating the diseases of hog cholera and swine plague has been conducted on a very much larger scale than last year. The results of last season's work were exceedingly satisfactory, and the number of animals which would serve as a source of serum has been largely increased. During the present year a large number of animals and endeavoring to keep down, so far as possible, by the serum treatment, the amount of disease among the swine. While it is impossible at the present time to give positive results in connection with this work, it appears from the reports that have been sent in that we may expect about the same results as those obtained in Page County, Iowa, during the past year.

The work in connection with the preparation of antitoxin in such large quantities has been very heavy, both in the laboratory and at the experiment station of the Bureau. It requires a considerable number of employees to prepare the necessary cultures which are to be used in injecting the animals, to draw the serum, have it properly bottled and shipped, and at the same time to control the outbreaks in the West. Cultures are taken from each herd that is treated in the West when an autopsy is made upon some of the sick animals. These cultures are examined and tested. In addition, specimens of serum from each herd are used for the application of the motility test, and every care is taken to demonstrate so far as possible the exact character of the disease which exists in the herds that are being treated. Many problems of scientific interest have arisen in connection with this work, the elucidation of some of which will be of great practical importance. So far as possible, investigations of these points have been made as the routine work was progressing, or a careful note taken of them, and they will receive more careful study when the routine work of the laboratory will permit and when increased assistance has been secured.

INTERNATIONAL TUBERCULOSIS CONGRESS.

As the general study of the diseases of men and animals progresses it becomes more and more evident that the final solution of many difficulties depends upon a careful biochemic study of diseases. This appears to be the case not only with the diseases which the division has been studying for some years, but also with Texas fever, diseases of fowls, and many other diseases. The very intimate relationship which exists between the diseases of men and animals, and the dangers to which animals may be subjected from like diseases of men, deserve very special investigation. For this reason, in May last, the chief of the Biochemic Division was sent to Berlin for the purpose of attending the International Tuberculosis Congress. Over two hundred prominent men were present at this congress as delegates from twenty-five nations. The congress was under the patronage of the Empress of Germany, and there were more than two thousand members. The papers presented by many of the most prominent men in all lines of medical, bacteriological, and hygienic work were exhaustive in character, reviewing very thoroughly the knowledge of tuberculosis from all standpoints at the present time. They will serve as an excellent basis for continued investigation and work in the future. Papers by Virchow, Bollinger, and others emphasize the dangers of meat and milk from tuberculous animals. It appears that indirectly very many practical results for the benefit both of men and animals will follow from the work of this congress.

As it was the fortune of the chief of the Biochemic Division to meet at that congress, and afterwards in visiting the most important anti-toxic serum laboratories and stations in Europe, the most prominent workers in biochemic lines, it seems right that attention should here be called to the high regard in which he found the scientific work of the Bureau of Animal Industry to be held by investigators in similar lines in the different European states. It is a great advantage to the work of the Bureau and the Department to have its scientific employees meet personally the investigators in similar lines, thus affording the opportunity of exchange of ideas and the planning of cooperative work.

THE PROPOSED WORK FOR NEXT YEAR.

For the next year it is proposed to continue in the Biochemic Division the routine work which has already been referred to, and in addition to take up as many new problems as the laboratory facilities and the number of assistants at work will allow. In connection with this routine work it will be necessary for the division to examine numerous samples of dips used for treating diseased sheep that are subjects of interstate commerce in order to ascertain if these dips have a satisfactory percentage of active ingredients to be recognized as efficient remedies.

THE EXPERIMENT STATION OF THE BUREAU.

PRODUCTION OF HOG CHOLERA AND SWINE PLAGUE SERUM.

Investigations relative to the production of hog cholera and swine plague serum have been continued at the experiment station of the Bureau. The results obtained in the past from serum prepared by the station, working in conjunction with the Biochemic Division, have

afforded much encouragement and have justified the continuation of the work on a much larger scale. The attempt is being made to produce a sufficient amount of antitoxic serum to treat all the hogs affected with or exposed to hog cholera or swine plague in a territory embracing four counties specially selected for experimental work, so that the final deductions concerning the value of the serum treatment for these diseases may leave no room for adverse criticism.

The portion of this work assigned to the experiment station consisted in the selection of proper animals for supplying the serum, and also the care, preparation, and treatment of these animals throughout the course of the experiment. A thorough effort is being made to find the species of animal best adapted to furnish this serum, and also the best method of administering the cultures of bacteria and the products of cultures to give the serum of the animals an antitoxic value. It is also designed to find the best and least expensive treatment of the unfavorable conditions which frequently follow the injection of cultures of disease-producing bacteria. Cultures of various ages, in combination with a variety of drugs and under a variety of conditions, have been used, and always with one object in view, namely, to obtain the most active antitoxic serum at the least possible cost and with the least inconvenience to the animal supplying it.

While the treatment of hog cholera and swine plague with antitoxic serum has proved to be of great value, and further investigations along this line will be made, the possibility that a method may be discovered by which these two important diseases can be treated successfully without the intervention of a serum animal has not been overlooked. Experiments in this direction are now being made, and while they have so far given no very encouraging results, it is desirable that they should be continued.

ANTITOXIC SERUM FOR TUBERCULOSIS.

Experiments to produce an antitoxic serum for the treatment and prevention of tuberculosis are also in progress, the work being done by the station in cooperation with the Biochemic Division.

TEXAS FEVER INVESTIGATIONS.

Much time and attention have been given to the Texas fever question. It is desirable that the method developed by the Bureau for immunizing Northern cattle which are to be shipped into the South should be improved. The same observation is true of the dips now in use for destroying ticks (*Boophilus bovis*) on Southern cattle.

The immunizing feature has been undertaken by studying the effects produced by the injection of blood serum from Southern cattle into Northern cattle. Much remains to be done in this line. The seeming difference in severity of the infection produced by the injection of blood obtained from different Southern cattle and the difference existing between the virulence of Texas fever in different portions of the so-called permanently infected areas are conditions requiring investigation.

The importance of discovering a dipping mixture through which Southern cattle may be passed to kill the ticks upon them and thus remove the danger of spreading Texas fever has not been lost sight of,

but unfortunately all mixtures used have proved inefficient. A number of different dips are now being tested at the station, and the effects produced on both the cattle and the ticks are carefully noted. Laboratory tests are also being made, and there is still reason to believe that success will eventually be attained.

A lot of cattle ticks from Puerto Rico were tested to determine whether they carried the infection of Texas fever, but a negative result was given. The ticks were found to be in all respects like our native cattle tick, with the exception that our ticks are a trifle larger and a little more oval (less circular) in outline.

DAIRY DIVISION.

VISITING DAIRY CENTERS.

The practice of visiting dairy centers and attending the annual conventions of State dairy associations and similar bodies has been continued, so far as the home duties of the chief and assistant chief of the division have permitted. In order to extend this service, in accordance with the policy of the Department, special agents were temporarily employed. Messrs. John H. Monrad and D. W. Willson, both of Illinois, served in this capacity. In all, twenty States have thus been visited by representatives of this branch of the Department. In this way hundreds of men actively engaged in the dairy industry have been met and consulted in different parts of the country, and personal relations established which will be of material benefit in future work.

EXPERIMENTAL EXPORTS OF BUTTER.

Under authority given in the annual appropriation act of Congress for this Department, and the special provisions made therein for the purpose, this division has had the supervision of a series of experimental exports of butter and cheese. This has been in continuation of the work of 1897-98, as already reported, but upon a plan enlarged and diversified. In this connection special agents of the Department have visited Great Britain, France, Germany, China, Japan, the Hawaiian Islands, and the Philippine Islands, and made arrangements for experimental exports to places in all these sections of the globe.

Trial shipments to Germany and France demonstrated that the markets for choice dairy products from America were by no means as good in those countries as in Great Britain, while the difficulties in transportation and the import duties imposed added to the disadvantages experienced. Accordingly, the experimental exports, made almost every week during the year 1898, and weekly until the summer of 1899, were confined to England, and mainly to the market of Manchester. The desired information having been obtained by these experiments, extending through the greater part of three years, they were discontinued in May, 1899. Then work was immediately begun upon similar exports from San Francisco to Pacific ports. No results from the latter can yet be reported.

The series of weekly experimental exports of selected creamery butter to Manchester, England, for more than a year was highly satisfactory. A group of retail merchants in the north of England was thus supplied regularly with this grade of butter from the United States, so that they had it continually on hand for their customers.

The result was that a good reputation was well established for American butter in that district, and the merchants, during the latter part of the trials, urged the shipment of larger quantities. Excepting an occasional variation from the standard, and a few instances of deterioration incident to imperfections in the facilities of transportation, this butter was eminently satisfactory to the merchants and consumers, and replaced Danish butter of first quality, which had been previously used. It was commonly retailed at the price of the best Danish, although the merchants demanded a slight concession in what they paid as an inducement to take the American article instead of the standard product of Denmark and Sweden, to which they had so long been accustomed. When the experimental shipments were discontinued the Manchester receivers expressed great disappointment, saying that the United States creamery butter had then made such a place for itself in their market, and was so regularly in demand by the retailers, that they desired to continue their supply. Application was accordingly made for the addresses of large creameries, or their selling agents, from whom fine butter in quantity could be obtained. British merchants subsequently made offers directly to manufacturers in this country for large quantities, and the only question about extending this trade was the relative prices of the highest grade of butter on the two sides of the Atlantic.

During the fiscal year covered by this report the domestic markets of the United States offered such prices for all the butter product of high grade of this country as to preclude exports upon a commercial basis. The details in connection with these experimental exports to Great Britain during the fiscal year 1898-99, and which included cheese and eggs, as well as butter, will be made the subject of a special report by the Dairy Division.

PROPOSED WORK FOR NEXT YEAR.

The work of the Dairy Division for the fiscal year 1899-1900 is expected to include a continuation of the different lines of effort above reported.

The experimental exports will require a large share of the attention of the working force and probably necessitate the employment of a special agent on the Pacific coast. Exports to Pacific ports, although less frequent than those to England, will involve much detail and a much longer time for obtaining results.

Refrigerated transportation can not be furnished by the steamship lines on the Pacific, and this may not be desirable at present, as cold storage is not to be found at most of the Oriental markets. It will be necessary, therefore, to send all butter, and perhaps cheese also, as well as canned and condensed milk and cream, in hermetically sealed packages, capable of preserving their contents during long voyages and in hot climates.

The art of canning butter so that it will remain in good condition for months, and when subjected to great changes of temperature, has not yet been brought to perfection in this country. Incidentally, it is desirable to give considerable attention to this subject for the benefit of exporters and those who wish to prepare butter for export to markets in warm countries.

An obstacle to successful competition in this trade is the fact, well

established, that butter made in some other countries and found in the new markets referred to has a firmer body and higher melting point, and consequently "stands up" better when the packages are opened than that which is made in the United States. Investigations show that certain feeding materials for cows have a specific effect upon the hardness of butter made from their milk. More definite information on this subject is needed, however, and it is hoped that this division may, by cooperation with agricultural experiment stations and otherwise, do something toward determining the particular kinds of food which are available in different parts of the country and which can be depended upon to regulate to a considerable degree the composition of the butter fat in milk, and hence the texture of butter.

Besides experimental exports in which the dairy industry of the Pacific coast should be particularly interested, it is proposed to ascertain the prospects for extended trade in dairy products in Mexico, the West Indies, and South America.

Through the courteous cooperation of the State Department a general inquiry has been undertaken, with a view to learning more than is now accurately known as to the production, consumption, and commerce of dairy products in all parts of the world.

Under instructions which have been issued, the chief of the dairy division will procure and superintend the arrangement and display of suitable material for a collective exhibit of the dairy industry of the United States at the Paris Exposition of 1900.

The following statement shows the amount of the disbursements made for the various branches of the work for the fiscal year:

Statement of disbursements from the appropriation for salaries and expenses, Bureau of Animal Industry, for the fiscal year ended June 30, 1899.

	Salaries.	Traveling expenses.	Miscellaneous.	Total.
Meat inspection	\$440,159.37	\$608.60	\$24,137.87	\$464,905.84
Microscopic inspection	189,595.98	187.24	9,233.43	199,016.65
Export cattle inspection	61,171.71	675.98	4,091.94	65,939.63
Southern cattle inspection	34,312.54	6,264.32	773.79	41,350.65
Import cattle inspection	5,881.06	2,810.94	24.00	8,216.00
Washington and miscellaneous	11,891.90	1,069.41	1,992.89	14,954.20
Scientific investigations	4,850.65	3,921.64	5,977.27	14,779.56
Experiment station, Bethesda, Md	7,095.80		2,411.03	9,506.83
Dairy division	1,237.67	1,364.42	33,163.84	35,765.93
Collecting information	2,616.89	575.48	2,329.91	5,522.28
Hog-cholera serum experiments	7,629.66	2,749.35	7,408.28	17,787.29
Contagious diseases of horses			598.00	598.00
Total	766,473.23	19,727.38	92,142.25	878,342.86

Accompanying this statement will be found a list of the names of the persons employed and an itemized statement of expenditures and the amount appropriated.

Disbursements from the appropriation for salaries and expenses, Bureau of Animal Industry, for the fiscal year ended June 30, 1899.

STATUTORY SALARIES, BUREAU OF ANIMAL INDUSTRY.

Name.	Designation.	Appointed.	Services ended.	Compensation.		Disbursements.		
				Per diem.	Per annum.	Miscellaneous items.	Salaries.	Traveling.	Miscellaneous.
WASHINGTON, D. C.								
D. E. Salmon.....	Chief of Bureau.....	July 1, 1896			\$4,000			
G. M. Brumbaugh.....	Assistant Chief of Bureau.....	do	Dec. 31, 1898		2,500			
A. D. Melvin.....	Chief of inspection division.....	do			2,500			
Do.....	Assistant Chief of Bureau.....	Jan. 1, 1899						
S. R. Burch.....	Chief Clerk.....	Jan. 1, 1897			2,000			
A. M. Farrington.....	Chief miscellaneous division.....	Aug. 16, 1895			2,000			
Do.....	Chief inspection division.....	Jan. 1, 1899			2,000			
Edw. B. Jones.....	Assistant chief inspection division.....	Aug. 16, 1895			1,800			
T. A. Geddes.....	Chief miscellaneous division.....	Jan. 1, 1899			2,000			
Henry E. Alvord.....	Chief dairy division.....	July 1, 1895			2,500			
R. A. Pearson.....	Assistant chief dairy division.....	Sept. 1, 1895			1,800			
Victor A. Norguard.....	Chief pathological division.....	Nov. 1, 1896			2,250			
Louise Taylor.....	Assistant in pathological division.....	Oct. 16, 1897			1,200			
James M. Pickens.....	do.....	July 1, 1898			1,200			
Do.....	Clerk.....	May 1, 1899			1,400			
John E. Mohler.....	Assistant in pathological division.....	June 1, 1899			1,200			
Thos. B. Reamy.....	do.....	July 1, 1893			840			
E. A. de Schweinitz.....	Chief biochemic division.....	July 1, 1895			2,250			
James A. Emery.....	Assistant in biochemic division.....	Aug. 1, 1895			1,200			
Irving Frickey.....	do.....	July 1, 1898			1,200			
W. S. Stamper.....	do.....	July 1, 1896			720			
Ch. Wardell Stiles.....	Zoologist.....	do			2,000			
E. C. Schroeder.....	Veterinary inspector.....	July 1, 1894			1,800			
Chas. F. Dawson.....	do.....	Nov. 1, 1896			1,800			
Marion Dorset.....	do.....	July 1, 1898			1,400			
Albert Hassall.....	do.....	July 1, 1892			1,400			
W. E. Cotton.....	Assistant, veterinary experiment station.....	Sept. 1, 1895			1,000			
H. H. Gerdes.....	Clerk.....	Apr. 1, 1897			1,800			
A. J. Olin.....	do.....	do			1,000			
Fannie N. Gregory.....	do.....	July 1, 1898			1,400			
Evelyn Lyons.....	do.....	do			1,400			
Mary Sullivan.....	do.....	Apr. 1, 1897			1,400			
Mary T. Dent.....	do.....	Mar. 1, 1893			1,200			
Joseph Abel.....	do.....	July 1, 1896			1,200			

Disbursements from the appropriation for salaries and expenses, Bureau of Animal Industry, for the fiscal year ended June 30, 1899—Continued.

STATUTORY SALARIES, BUREAU OF ANIMAL INDUSTRY—Continued.

Name.	Designation.	Appointed.	Services ended.	Compensation.		Disbursements.		
				Per diem.	Per annum.	Miscellaneous items.	Salaries.	Traveling.	Miscellaneous.
WASHINGTON, D. C.—cont'd.								
I. C. I. Evans	Clerk	Nov. 1, 1896	.....		\$1,200			
M. H. Mahon	do	Apr. 1, 1897	.....		1,200			
M. G. Marshall	do	July 1, 1897	.....		1,200			
M. N. Barnard	do	July 1, 1890	.....		1,000			
Benj. G. Wasdon	do	Jan. 4, 1897	.....		1,000			
Mary E. Fagan	do	Sept. 21, 1897	.....		1,000			
Juliet B. Graham	do	July 1, 1898	.....		1,000			
Nellie F. Haughton	do	.....do	.....		1,000			
M. C. Montgomery	do	.....do	.....		1,000			
Melpherson Reynolds	do	Sept. 12, 1897	.....		1,000			
Anna C. Kelton	do	Dec. 1, 1898	June 30, 1899		840			
M. D. Brown	do	Aug. 10, 1898	Aug. 14, 1898		840			
Asa H. Kite	Messenger	July 1, 1896	.....		720			
Edw. J. Maloy	do	Nov. 1, 1896	.....		720			
Wm. H. Moore	do	Oct. 23, 1896	.....		720			
Wm. P. Stedman	do	July 1, 1896	.....		720			
H. S. Mort	do	Jan. 1, 1896	.....		720			
Lena Bradford	do	Mar. 15, 1895	.....		720			
Geo. W. Scheerer	Skilled laborer	July 1, 1896	.....		660			
Wm. S. D. Haines	do	Jan. 16, 1898	.....		660			
Wm. C. Shumoneck	Artist	July 1, 1896	.....		1,400			
L. Wm. Thavis	Messenger	Apr. 3, 1897	.....		720			
Emily J. Wilde	Laborer	July 1, 1898	.....		720			
Jennie Jones	do	July 1, 1897	.....		720			
Louise Douglass	do	July 1, 1896	.....		400			
Ida E. Hendley	Charwoman	Oct. 1, 1897	.....		480			
Catherine Baltimore	do	Feb. 1, 1899	.....		480			
Do	do	May 6, 1895	.....		240			
Do	do	Aug. 18, 1898	.....		480			
Do	do	Oct. 1, 1898	.....		240			
Sarah L. Garnet	do	May 10, 1898	Nov. 1, 1898		240			

Disbursements from the appropriation for salaries and expenses, Bureau of Animal Industry, for the fiscal year ended June 30, 1899—Continued.

SALARIES AND EXPENSES—Continued.

Name.	Designation.	Appointed.	Services ended.	Compensation.		Disbursements.			Miscellaneous.
				Per diem.	Per annum.	Miscellaneous items.	Salaries.	Traveling.	
WASHINGTON, D. C.—cont'd.									
Chicago and Northwestern Rwy. Co.						Transportation, Burch and Melvin.		\$22.45	
Chicago, Burlington and Quincy R. R. Co.						Transportation, Brumbaugh.		12.75	
Pittsburg, Cincinnati, Chicago and St. Louis Rwy. Co.						Transportation, Brumbaugh and Melvin.		24.00	
The Missouri Pacific Rwy. Co.						Transportation, Burch and Melvin.		14.25	
Wyckoff, Sesams & Benedict.						Repairing typewriter.			\$0.50
John R. Galloway.						Electric fans and fixtures.			120.00
Adams Express Co.						Expressage.			126.89
United States Express Co.						do.			138.85
J. R. Buckelew.						Letter books and stationery.			110.03
John C. Parker.						Fountain pens and stationery.			88.55
Georgetown and Tennallytown Rwy. Co.						Street-car tickets.			15.00
Capital Traction Co.						do.			20.00
W. H. Hoche.						Table.			8.00
The White, Corbin & Co.						Printed envelopes.			107.59
B. F. T. Bell.						Turning desk legs.			75
Library Bureau.						Guide and file cards.			47.41
Chas. R. Edmonston.						Rubber gaskets.			.40
Holyoke Envelope Co.						Printed envelopes.			84.70
The Springfield Envelope Co.						Manila envelopes.			6.25
Rufus P. Clark.						Cloth desk cover.			2.50
W. B. Moses & Sons.						Carpet, screens, chair, etc.			204.71
Church & Stephenson.						Lumber.			4.92
Western Union Telegraph Co.						Telegrams.			80.49
Postal Telegraph-Cable Co.						do.			47.11
Rudolph, West & Co.						Water-cooler and hardware.			13.89
C. Voigt.						Officers' badges.			400.50
The Chesapeake and Potomac Telephone Co.						Telephone.			48.64
Charles Becker.						White lead and oil.			52.70
C. A. Woolsey Paint & Color Co.						Calcimine.			7.00
Galvanotype Engraving Co.						Line engravings.			11.33
Charles E. Stubbs.						Special report.			232.00

Disbursements from the appropriation for salaries and expenses, Bureau of Animal Industry, for the fiscal year ended June 30, 1899—Continued.

SALARIES AND EXPENSES—Continued.

Name.	Designation.	Appointed.	Services ended.	Compensation.		Disbursements.			Miscellaneous.
				Per diem.	Per annum.	Miscellaneous items.	Salaries.	Traveling.	
SCIENTIFIC INVESTIGATIONS— continued.									
John R. Mohler.....						Traveling expenses.....		\$53.60	
J. Harrison Johnson.....						Rent of laboratory.....			\$1,200.00
United States Electric Light- ing Co.						Electric current.....			85.50
Great Falls Ice Co.						Ice.....			205.01
W. A. Tuggart.....						Boarding horse.....			85.49
Photochromotype Engraving Co.						Line engravings of "Sheep scab,"			22.70
Waters, Pierce Oil Co.....						3,500 gallons extra dynamo oil.			700.00
Library Bureau.....						Cards and book supports.....			84.89
W. M. Galt & Co.....						Hay and oats.....			43.58
J. E. Buckelov.....						Typewriters and covers.....			187.25
A. Hoeh & Co.....						"Sheep scab," bulletins.....			125.55
Elmer & Aucand.....						Nicotine, thermometers and condensers.			60.68
Public Printer.....						10,000 copies bulletin No. 21, "Sheep scab,"			567.79
Rufus P. Clarke.....						Towels and towelling.....			4.31
Mackall Bros.....						Drugs, dyes, vials and cotton			70.87
John C. Parker.....						Cabinet, book supports, etc.....			72.98
Z. D. Gilman.....						Beakers, syringes and filters.....			221.23
The Kuy-Scheerer Co.....						Thermometers and cylinders.....			11.05
Rudolph, West & Co.....						Hardware.....			40.94
Bausch & Lomb Optical Co.....						Microscopic slides.....			1.28
James B. Lambie.....						Hardware, rope, and cotton waste.			26.27
The H. C. Underwood Manu- facturing Co.						Wooden boxes for vaccine.....			38.81
Geo. E. Howard & Co.....						Envelopes for vaccine.....			66.00
A. Wilson & Bro.....						6 head of cattle.....			120.00
Church & Stephenson.....						Lumber.....			131.51
Whitall, Tatum & Co.....						Chemical flasks.....			6.22
Thos. Samerville & Sons.....						Plumbers' supplies, valves, etc.....			429.64
Edw. S. Schmidt.....						Animal cages.....			25.80
W. B. Moses & Sons.....						Carpets, chairs, rugs, and desk			111.26
Harry C. Jones.....						Line engraving.....			1.00
Emil Greiner.....						Pipettes and Bunsen burners.....			16.80

Z. D. Gilman.....						Sulphur, potash, etc		4.70	
Melville Lindsey.....						Hose, and rubber packing.		34.18	
David Pfeiffering.....						Cattle		185.00	
John D. Grady.....						Surveying		16.00	
C. Becker.....						Robe, and harness dressing		8.45	
DAIRY DIVISION.									
Newton B. Ashby.....	Special agent.	Mar. 30, 1898	Sept. 20, 1898	1,200.00			466.67	\$175.19	12.94
Edw. B. Holland.....	do	Mar. 10, 1899	June 9, 1899	1,135.00			405.00		
J. H. Moorhead.....	do	Dec. 28, 1898	Feb. 15, 1899	6.00			162.00	70.85	
Saml. E. Watson.....	do	June 10, 1899		6.00			36.00		
D. W. Willson.....	Expert and special agent.	Nov. 14, 1898	Dec. 31, 1898	6.00			168.00	124.14	
Henry E. Alvord.....						Traveling expenses	435.71		
R. A. Pearson.....						do	502.42	24.00	
James W. Wilson.....						Transportation R. A. Pearson	4.15		
Chicago, St. Paul, Minneapolis and Omaha Rwy. Co.						do	16.46		
Chicago and Northwestern Rwy. Co.						do	11.50		
Chicago, Burlington and Northern R. R. Co.						Freight on butter		328.38	
Pennsylvania R. R. Co.						do		89.35	
White Star Line						do		41.52	
Hamburg-American Line						Butter		201.33	
De Witt Goodrich						do		4,073.63	
Iowa Agricultural College.						do		4,377.48	
Hovey Clark & Co						do		384.06	
E. B. Woodward						do		9,854.07	
Brand's Creameries						do		216.07	
J. G. Turnbull						do		9,576.02	
Albert Lea Dairy Association.						Transportation of butter.		109.44	
Schwarz & Sulz. Co						do		1,028.29	
Swift & Co						Transportation and storing of butter.		498.83	
Merchants' Refrigerating Co.						Cheese		226.13	
John S. Martin & Co.						Eggs		279.00	
Boardman Bros						Butter boxes and linings		484.94	
Cornish, Curtis & Greene Manufacturing Co.						Photographic plates and cinnogen.		8.00	
E. J. Pullman						Binding cases and files		12.60	
Yawman & Erbe Manufacturing Co.						Shoe tags		10.00	
John C. Parker						Paintings of cattle.		100.00	
John W. Hillis						Tabulator and R. P. paper		43.80	
J. R. Buckelew						Drayage and freight		.70	
The Geo. W. Knox Express Co.						Paragon numbering machine		9.00	
The R. H. Smith Manufacturing Co.						Dairy inspector's test case.		6.00	
J. A. Lawrence.									

1 Per month.

Disbursements from the appropriation for salaries and expenses, Bureau of Animal Industry, for the fiscal year ended June 30, 1899—Continued.

SALARIES AND EXPENSES—Continued.

Name.	Designation.	Appointed.	Services ended.	Compensation.		Disbursements.			Miscellaneous.
				Per diem.	Per annum.	Miscellaneous items.	Salaries.	Traveling.	
DAIRY DIVISION—cont'd.									
The Photo.-Chromo. Engraving Co.						5,000 copies of lithograph of cow.			\$81.50
W. B. Moses & Sons						Carpet and chairs.			72.44
W. G. Orr & Co.						Glass jars			1.32
Adams Express Co.						Transportation of butter.			60.80
Chas. F. Mills						do			13.06
Vernon H. Brown & Co., agents.						Ocean freight on butter			90.92
A. J. Decker						"Wisconsin curd test"			10.00
N. Simon Co., Limited						Cheese			227.38
Rudolph, West & Co.						Hinges, locks, and handles.			5.00
George E. Howard						Drawings for bulletins			110.00
C. L. Fitch						Butter coloring standard			5.00
Mackall Bros.						Photographic supplies			5.78
S. B. Richardson						Cheeses.			21.23
Leo Baum						Negative prints			7.02
Simpson, McIntyre & Co.						Butter			320.32
F. E. Dawley						Cheese			94.50
Russell Cream Co.						Cream			72.00
COLLECTING INFORMATION.									
Charles H. Stevens	Special confidential agent.	May 16, 1898		\$1,400				\$880.17	
J. Augustus Fries	Expert assistant in animal nutrition.	Oct. 1, 1898		1,000				436.72	\$209.70
Henry P. Armsby	do	July 1, 1898		1,000				1,000.00	57.51
J. Thornton Osmond	do	Oct. 1, 1898		\$150.00		Traveling expenses.		300.00	
W. B. Niles						Construction of respiration calorimeter.			14.04
Charles H. Stevens						Transportation, C. H. Stevens.			58.90
Great Northern Rwy. Co.						do			106.10
Chicago, Milwaukee and St. Paul Rwy. Co.						do			20.00
Pennsylvania R. R. Co.						do			9.70
Eric Railroad Co.						do			12.80
Chicago, St. Paul, Minneapolis and Omaha Rwy. Co.						Transportation, W. B. Niles			
Baltimore and Ohio R. R. Co.						Transportation, C. H. Stevens.			10.45

Chicago and Northwestern Rwy. Co.						Transportation, W. B. Niles	10.60		
The Minneapolis and St. Louis R. R. Co.						do	7.20		
Chicago and Great Western Rwy. Co.						Transportation, C. H. Stevens	14.00		
Northern Pacific Rwy. Co.						do	7.28		
HOG CHOLERA SERUM EXPERIMENTS.									
John McBirney	Inspector.	June 15, 1897						1,497.91	198.53
Do.	do	Dec. 1, 1898			1,400			1,400	3.05
W. B. Niles	Expert and special agent.	Aug. 20, 1898			1,400			1,054.33	
Abram M. Adams	Assistant inspector.	Feb. 12, 1897			1,200			276.92	
H. B. Waldron	Foreman of laborers.	Feb. 1, 1899			3.00			363.00	
J. I. Bagnall	Laborers.	Apr. 11, 1899			2.50			595.00	
J. E. Cadwell	do	do			2.50			335.00	
J. M. Campbell	do	do			2.50			612.50	
M. M. Chambers	do	Apr. 10, 1899			2.50			140.00	
Wm. Cozad	do	do			2.50			155.00	
J. E. Frank	do	Apr. 24, 1899			2.50			142.50	
S. N. Heaton	do	Apr. 10, 1899			2.50			146.00	
Geo. E. Leth	do	do			2.50			115.00	
Millard F. Lewis	do	do			2.50			150.00	
John Mullin	do	do			2.50			155.00	
D. C. Owens	do	Sept. 9, 1898			2.50			205.00	
C. H. Polk	do	Apr. 10, 1899			2.50			140.00	
Henry Thomas	do	do			2.50			142.50	
M. V. Thompson	do	Apr. 11, 1899			2.50			162.50	
Henry Towns	do	Apr. 10, 1899			2.50			145.00	
Wm. Van Ansdale	do	do			2.50			157.50	
D. E. Way	do	do			2.00			740.00	709.18
Do.	do	June 21, 1897			2.50			150.00	153.78
Aug. C. Becker	do	Sept. 1, 1898			2.00			150.00	135.06
M. Stone	do	Apr. 3, 1899			2.00			150.00	47.84
Marion Dorset	do	do			2.00			150.00	10.84
Chicago and Northwestern Rwy. Co.						Transportation, J. McBirney			
The Chesapeake and Ohio Rwy. Co.						Transportation, M. Dorset	27.00		
The Chicago and Alton R. R. Co.						do	25.25		
Kansas City, St. Joseph and Council Bluffs R. R. Co.						do	4.68		
Pennsylvania R. R. Co.						Transportation, T. A. Geddes	26.80		
Chicago, Burlington and Quincy R. R. Co.						do	9.95		
E. A. de Schweinitz						Hire horse and buggy			72.00
Do.						Miscellaneous expenses			229.12
The Kny-Scheerer Co.						Syringes and irrigators.			57.00

1 Per month.

Disbursements from the appropriation for salaries and expenses, Bureau of Animal Industry, for the fiscal year ended June 30, 1899—Continued.

SALARIES AND EXPENSES—Continued.

Name.	Designation.	Appointed.	Services ended.	Compensation.		Disbursements.					
				Per diem.	Per annum.	Miscellaneous items.	Salaries.	Traveling.	Miscellaneous.		
HOG CHOLERA SERUM EXPERIMENTS—continued.											
W. M. Galt & Co.						Corn, oats, meal, and bran					\$1,928.50
A. Wilson & Bro						Cattle					3,083.91
Z. D. Gilman						Drugs, flasks, and thermometers.					257.90
Rudolph, West & Co.						Hardware					12.87
James B. Lambie						Wheelbarrows, lime, etc					23.42
J. B. Lindner						1 cow					25.00
Library Bureau						Cattle					770.00
Maekall Bros						2,000 L. B. cards.					5.94
Whithalle Tatam & Co						Drugs, vials, tubes, and paraffin					224.38
R. L. Cooper						Vials and bottles for serum.					23.32
Elmer & Amend						Hire, horse and buggy					192.00
The Grove Lime and Coal Co.						Thermometers and lamps.					21.75
L. G. Orndorf						1 barrel Portland cement.					2.25
Church & Stephenson						Wagon, blankets, and whips.					98.80
Bausch & Lomb Optical Co						Lumber					61.85
D. H. Burrell & Co						Mailing cases and slips.					3.44
Edw. B. Markham						Poplar boxes.					30.00
W. H. Chambers						12 pigs.					36.00
Emil Greiner						41 horses.					80.00
R. Carter Ballantyne						Pipettes and bulbs.					11.00
Rand, McNally & Co.						12 pounds sealing wax.					3.00
T. A. Geddes						2 maps of Iowa.					3.25
						Traveling expenses.					\$88.95
CONTAGIOUS DISEASES OF HORSES.											
Mathew Wood						Grade stallion					20.00
H. B. Brown						Mare and stallion					100.00
E. Ireland						do					37.50
James Evans						do					20.00
M. L. Henderson						do					10.00
J. A. Henderson						Mare, Indian pony					8.00
Jas. Caldwell						do					35.00
Wm. Hunter						do					20.00
D. Keethler						2 mares.					77.50
Ira Keethler						do					80.00

SALARIES AND EXPENSES—Continued.

Disbursements from the appropriation for salaries and expenses, Bureau of Animal Industry, for the fiscal year ended June 30, 1899—Continued.

Name.	Designation.	Appointed.	Services ended.	Compensation.		Disbursements.			Miscellaneous.
				Per diem.	Per annum.	Miscellaneous items.	Salaries.	Traveling.	
EXPORT CATTLE INSPECTIONS—continued.									
New York, N. Y.—Continued.									
Jas. Flannery	Stock examiner	Jan. 1, 1894			\$1,000			\$1,000.00	
Wm. Foley	do	do			1,000			1,000.00	
Chas. F. Cramer	Tagger	May 1, 1896			720			720.00	
Edw. L. Flannery	do	Feb. 1, 1896			720			720.00	
Geo. Messemer	do	Sept. 15, 1893			720			720.00	
Chas. J. Mumzing	do	Nov. 6, 1893			720			720.00	
Geo. E. Schumacher	do	Feb. 6, 1896			720			720.00	
James Stikeman						Office rent		\$500.00	
New York Telephone Co						Telephonic rental		140.91	
Philadelphia, Pa.									
George Carter	Stock examiner	Jan. 1, 1894			1,000			1,000.00	
Wm. J. Haughey	Laborer	Aug. 22, 1896		\$2.00				88.00	
Chas. A. Schauler						Office expenses		49.25	
John Wanamaker						Water cooler and stand		6.75	
George Carter						Street-car fares		2.87	
Norfolk, Va.									
George C. Faville	Inspector	Dec. 15, 1893			1,400			1,482.80	32.76
Do	do	Feb. 1, 1899			1,600				
Sol Miller	Stock examiner	May 1, 1894			1,000			1,000.00	
J. A. Turner Co						Office rent		144.00	
Pittsburg, Pa.									
Harry N. Waller	Inspector	Apr. 1, 1898			1,400			1,400.00	
John T. Callahan	Laborer	Sept. 3, 1897		2.00				32.00	
Louis R. Cobick	do	June 19, 1899		2.00				10.00	
Daniel Hilty	do	Nov. 21, 1898		2.00				72.00	
Wm. Miller	do	June 1, 1896		2.00				86.00	
Walter J. Moran	do	do		2.00				32.00	
Geo. K. Myers	do	Nov. 21, 1898		2.00				47.00	
Harry N. Waller						Office expenses and street-car fares		53.11	

Buffalo, N. Y.		Nov. 30, 1898					
Nelson P. Hinkley	Inspector	Aug. 1, 1893	1,800	798.81			
Bernhard P. Wendt	do	Sept. 11, 1893	1,400	1,400.00			
Louis A. Robinson	do	Jan. 1, 1897	1,400	1,396.23			
Charles H. Zink	Assistant inspector	June 1, 1896	1,200	827.68	\$86.75	3.90	
Do.	Inspector	Dec. 1, 1898	1,400				
Louis K. Green	Assistant inspector	Oct. 1, 1896	1,200	97.80			
Benjamin Howes	do	Feb. 1, 1898	1,200	339.16			
Wm. A. Rushworth	do	Dec. 15, 1896	1,200	600.00			
Ernest L. Volganan	do	Dec. 2, 1895	1,200	123.30			
Albert H. Hoyt	Clerk	May 1, 1893	1,000	986.36			
George H. Russell	do	Nov. 10, 1897	840	835.38			
Albert W. Meyer	Stock examiner	Feb. 15, 1896	900	450.00			
Harrison L. Newton	do	Nov. 8, 1894	900	450.00			
Henry L. Riegan	do	Feb. 15, 1896	900	302.50			
Wm. J. Carroll	Tagger	Apr. 16, 1894	720	101.84			
Michl. Choinacki	do	do	720	239.30			
Frank J. Danely	do	May 1, 1893	720	581.96			
Ransom Hinkson	do	Apr. 25, 1896	720	720.00			
John Mazurowski	do	July 10, 1893	720	720.00			
Jas. F. Hughes	do	May 9, 1898	720	60.60			
Clinton N. Hinkley	Laborer	Aug. 26, 1898	2.00	40.00			
The East Buffalo Live Stock Exchange Co.				Office rent		360.00	
The Bell Telephone Co. of Buffalo.				Telephone rental		24.00	
<i>Chicago, Ill.</i>							
James Fleming	Assistant Inspector	Jan. 1, 1896	1,200	1,200.00			
Max Wolf	Clerk	Feb. 1, 1896	1,000	1,000.00			
Jas. V. De Vine	Live stock agent	Jan. 1, 1894	900	892.69			
Arda Watson	do	do	900	900.00			
F. C. Cooley	Stock examiner	Nov. 1, 1895	900	74.20			
Dighton Granger	do	June 1, 1898	900	807.72			
Wm. C. Honan	do	May 1, 1897	900	75.80			
John F. Kelly	do	June 30, 1895	900	900.00			
Michl. J. Quirk	do	Jan. 16, 1895	900	900.00			
Jeremiah Holland	Tagger	June 12, 1894	720	720.00			
De L. Howard	do	Sept. 15, 1893	720	297.50			
Frank A. Paddock	do	Feb. 1, 1898	720	500.92			
Michl. M. Murray	do	Dec. 15, 1893	720	698.06			
Richard Walsh	do	June 1, 1894	720	720.00			
J. C. Whitney	do	Oct. 1, 1898	720	463.56			
Hiram Grables	do	Sept. 1, 1896	2.00	80.00			
W. S. De Voe	Laborer			Office expenses		13.91	
John Schroeder				12½ pounds rope		2.25	
Union Stock Yards and Transit Co.				Office rent		180.00	

Disbursements from the appropriation for salaries and expenses, Bureau of Animal Industry, for the fiscal year ended June 30, 1899—Continued.

SALARIES AND EXPENSES—Continued.

Name.	Designation.	Appointed.	Services ended.	Compensation.		Disbursements.			Miscellaneous.
				Per diem.	Per annum.	Miscellaneous items.	Salaries.	Traveling.	
EXPORT CATTLE INSPECTIONS—continued.									
<i>Portland, Me.</i>									
F. W. Huntington.....	Inspector.....	June 1, 1896		\$2.00	\$1,200		\$798.90		
F. W. Hurling.....	Laborer.....	Dec. 1, 1896					326.00		
<i>Great Britain.</i>									
Wm. H. Wray.....	Veterinary inspector.....	Feb. 1, 1894		12.50	2,000		4,562.50	\$200.68	\$43.35
James F. Ryder.....	do.....	Oct. 1, 1892			1,000		1,836.91	438.55	
Frank M. Hunter.....	Clerk.....	Sept. 1, 1897					1,000.00		
<i>New Orleans, La.</i>									
Asa N. McQueen.....	Inspector.....	Feb. 8, 1892		5.00			30.00		
<i>Miscellaneous.</i>									
American Railway Supply Co.									540.00
Wm. E. Pratt.....									324.71
C. O. Brockway.....									40.63
James B. Lammie.....									13.80
Baltimore and Ohio Railroad Co.									1.28
Pennsylvania Co.....									.48
<i>SOUTHERN CATTLE INSPECTION.</i>									
<i>Kansas City, Kans. and Mo.</i>									
Albert Dean.....	Live stock agent.....	Sept. 1, 1893			1,800		1,800.00	115.45	
Chas. H. Bleiner.....	Inspector.....	Apr. 1, 1898			1,400		1,400.00	270.53	
Abram M. Adams.....	Assistant inspector.....	Feb. 12, 1897			1,200		923.08	77.55	
Lestie J. Allen.....	do.....	Aug. 11, 1896			1,200		1,200.00	217.15	
Rich'd J. Blanche.....	do.....	Feb. 23, 1898			1,200		270.33	21.45	
George A. Bond.....	do.....	Feb. 24, 1898			1,200		1,200.00	136.20	
Thomas A. Bray.....	do.....	Apr. 1, 1897			1,200		1,151.11		1.02
Frank C. Felis.....	do.....	Mar. 1, 1898			1,200		78.26		

James C. Keely	do	Nov. 10, 1896		1,200	1,160.86	112.35
Jno. A. Kieran	do	Apr. 1, 1898		1,200	1,035.52	157.60
Louis A. Klein	do	Jan. 17, 1898		1,200	701.10	111.60
Patk. H. Malloyney	do	May 23, 1898		1,200	198.93	24.40
S. J. Murray	do	Feb. 1, 1896		1,200	1,200.00	144.69
Jno. P. O'Leary	do	Feb. 10, 1898		1,200	890.11	213.06
Thomas L. Rice	do	July 15, 1895		1,200	987.49	35.75
C. J. Sihler	do	Apr. 1, 1897		1,200	61.96	
Frank T. Shannon	do	May 26, 1898		1,200	796.70	501.51
Rice T. Stoddom	do	Mar. 21, 1898	5.00	1,200	326.09	47.16
J. J. Summerfield	do	Nov. 15, 1897		1,200	205.00	111.50
A. J. Murray	do	do		1,200	1,200.00	
Joseph Bruser	do	Jan. 1, 1894		1,200	1,200.00	111.25
Wm. D. Jordan	do	do		1,200	1,200.00	658.61
Dan Cunningham	do	do		1,200	1,200.00	394.49
George C. Moser	do	Mar. 1, 1898		1,200	1,200.00	186.09
Joseph W. Parker	do	Mar. 15, 1895		900	900.00	
Stock examiner	do	Aug. 1, 1897		900	703.30	50.95
B. L. Stine	do				826.61	26.25
Albert Dean	do					180.00
The Kansas City Stock Yards of Missouri						
Galveston, Harrisburg, and San Antonio Rwy. Co.						262.35
San Antonio and Aransas Pass Rwy. Co.						26.70
International and Great Northern R. R. Co.						111.55
Alice and Brownsville Stage Co.						37.50
The Chicago and Alton R. R. Co.						46.59
Southern California Rwy. Co.						18.20
Union Pacific R. R. Co.						18.00
Southern Pacific Co.						188.45
Burlington and Missouri River R. R. in Nebraska.						3.50
St. Louis and San Francisco R. R. Co.						30.45
Houston and Texas Central R. R.						5.00
The Atchison, Topeka and Santa Fe Rwy. Co.						47.78
Kansas City, Fort Scott and Memphis R. R. Co.						17.45
Missouri, Kansas and Texas Rwy. Co.						20.15
Chicago, Burlington and Quincy R. R. Co.						23.86

Disbursements from the appropriation for salaries and expenses, Bureau of Animal Industry, for the fiscal year ended June 30, 1899—Continued.

SALARIES AND EXPENSES—Continued.

Name.	Designation.	Appointed.	Services ended.	Compensation.		Disbursements.		
				Per diem.	Per annum.	Miscellaneous items.	Salaries.	Traveling.	Miscellaneous.
MEAT INSPECTION—continued.								
<i>Chicago, Ill.</i> —Continued.								
Saml. G. Burkholder	Assistant inspector	Jan. 1, 1897			\$1,200		\$456.50	
Herman Busman	do	Feb. 23, 1898			1,200		1,190.24	
L. Enos Day	do	Apr. 15, 1897			1,200		1,200.00	
Hiram W. Hawley	do	Nov. 1, 1895			1,200		1,068.25	
Jas. G. Hope	do	Mar. 4, 1898			1,200		1,200.00	
Walter E. Howe	do	Apr. 11, 1898			1,200		1,200.00	
Geo. E. Jobson	do	July 20, 1898			1,200		1,128.06	
Jas. C. Keely	do	Mar. 1, 1898			1,200		89.13	
Jno. A. Kieran	do	Nov. 10, 1896			1,200		88.70	
Louis A. Klein	do	Apr. 1, 1898			1,200		489.14	
George A. Lytle	do	do			1,200		1,200.00	
Frank B. McCall	do	Nov. 10, 1896			1,200		1,186.80	
Chas. E. McNeill	do	Mar. 4, 1898			1,200		1,190.14	
Harry D. Paxson	do	Jan. 4, 1897			1,200		1,167.03	
Adolph J. Pistor	do	Dec. 15, 1898			1,200		652.13	
Albert E. Rishel	do	Mar. 4, 1898			1,200		1,200.00	
Wm. C. Siegmund	do	Jan. 17, 1898			1,200		1,130.60	
Wm. H. Smith, Jr	do	Apr. 1, 1898			1,200		1,120.11	
Frank S. Tufts	do	Apr. 15, 1897			1,200		1,200.00	
Michl. T. Naughton	do	Aug. 9, 1898			1,200		330.00	
Benj. S. Raddock	Live stock agent	Nov. 1, 1896			1,200		150.01	
Charles Basking	Clerk	Sept. 1, 1894			1,000		1,000.00	
B. A. Galligan	do	Jan. 1, 1896			1,000		997.20	
E. B. Luce	do	Feb. 1, 1896			1,000		1,000.00	
Charles S. Pew	do	Dec. 15, 1893			1,000		1,000.00	
S. H. Tourtelotte	do	Jan. 10, 1898			1,000		1,000.00	
J. J. O'Malley	do	Nov. 1, 1895			900		900.00	
Irving W. Pew	do	July 1, 1898			900		900.00	
Jacob K. Skinner	do	June 1, 1897			900		900.00	
D. H. McArthur	do	Mar. 10, 1898			840		770.80	
Leroy Scribner	do	Dec. 16, 1896	June 14, 1899		840		835.51	
Norman E. Adams	do	Nov. 1, 1895			900		812.84	
W. J. Bennett	Stock examiner	Jan. 1, 1894			900		900.00	
George Best	do	do			900		900.00	
Clark C. Bone	do	June 1, 1898			900		897.60	
Edw. Brundige	do	Jan. 16, 1894			900		112.48	
H. D. Burdick	do	Jan. 8, 1894			900		900.00	

Thos. G. Clark.....do	Jan. 1, 1894	900	900.00
F. C. Cooley.....do	Nov. 1, 1895	900	820.87
Jas. J. Dufficy.....do	Jan. 1, 1894	900	900.00
David S. Farley.....do	Apr. 6, 1899	900	207.67
David Frisch.....do	Jan. 1, 1894	900	890.15
Jas. Gardner.....do	June 27, 1895	900	882.87
Henry Grady.....do	.....do	900	882.68
George Grafion.....do	Nov. 20, 1898	900	349.71
Dighton Grainger.....do	June 1, 1898	900	77.50
James Hale.....do	Jan. 1, 1894	900	522.50
Thos. F. Hanley.....do	June 24, 1895	900	892.68
Geo. T. Hanton.....do	June 27, 1895	900	890.10
Wm. Harpst.....do	.....do	900	900.00
Wm. F. Hickey.....do	Feb. 15, 1894	900	900.00
Wm. C. Honan.....do	May 1, 1897	900	36.68
Dennis Hurley.....do	Aug. 1, 1895	900	807.05
Jos. F. Jordan.....do	Jan. 1, 1894	900	900.00
R. Kochanowski.....do	.....do	900	527.50
Otto D. Koetz.....do	June 27, 1895	900	900.00
Geo. Lumbann.....do	Jan. 1, 1894	900	900.00
Richd. E. Lyman.....do	Apr. 23, 1894	900	337.48
Abram M. Manny.....do	Jan. 1, 1894	900	877.97
Jos. A. Murphy.....do	Feb. 15, 1894	900	900.00
John Murphy.....do	.....do	900	895.12
Terence O'Brien.....do	.....do	900	897.50
Thos. O'Shaughnessy.....do	.....do	900	897.57
W. S. Pidgeock.....do	Aug. 1, 1895	900	900.00
G. W. Pierce.....do	Jan. 8, 1894	900	545.42
Wm. Proudfoot.....do	Feb. 1, 1896	900	900.00
Chas. W. Rowse.....do	Nov. 11, 1895	900	900.00
John J. Ryan.....do	Dec. 1, 1893	900	897.50
Jno. W. Sarsfield.....do	Jan. 1, 1894	900	900.00
Frank Schroeder.....do	June 27, 1895	900	900.00
Fredk. L. Simpson.....do	.....do	900	868.18
John B. Sine.....do	Dec. 1, 1893	900	522.62
Saml. T. Smith.....do	May 1, 1896	900	515.24
Arthur Stuart.....do	Feb. 1, 1896	900	900.00
Charles O. Turner.....do	Feb. 7, 1894	900	838.02
Wm. Umbach.....do	Nov. 1, 1895	900	838.66
Thomas J. Wade.....do	July 1, 1896	900	900.00
Jno. Wallwork.....do	May 1, 1895	900	900.00
Fred. D. Waterman.....do	Jan. 15, 1896	900	635.72
H. B. Weller.....do	Feb. 1, 1896	900	882.90
H. D. Williams.....do	Feb. 27, 1895	900	895.08
George W. Wood.....do	.....do	900	885.03
Theo. B. Zuendel.....do	Nov. 1, 1895	900	900.00
Horace G. Arnold.....do	Dec. 1, 1898	720	364.60
Wm. H. Baker.....do	May 1, 1896	720	197.61
Edw. W. Barthold.....do	Nov. 11, 1898	720	451.73
W. A. Bitner.....do	Feb. 15, 1898	720	592.17
Chas. H. Bridges.....do	May 4, 1899	720	114.68
Robt. A. Broadhurst.....do	Jan. 1, 1896	720	151.95

Disbursements from the appropriation for salaries and expenses, Bureau of Animal Industry, for the fiscal year ended June 30, 1899—Continued.

SALARIES AND EXPENSES—Continued.

Name.	Designation.	Appointed.	Services ended.	Compensation.		Disbursements.		
				Per diem.	Per annum.	Miscellaneous items.	Salaries.	Traveling.	Miscellaneous.
MEAT INSPECTION—continued.								
<i>Kansas City, Kans. and Mo.—Continued.</i>								
Charles H. Zink	Assistant inspector	June 1, 1896	.....		\$10.87			
Charles Adams	Stock examiner	May 1, 1896	.....		24.46			\$20.50
E. W. Bell	do	do	.....		900			
C. E. Blackmar	do	Feb. 1, 1898	.....		900			
H. J. Blackwell	do	Jan. 1, 1894	.....		900			
Chas. A. Brown	do	June 1, 1895	.....		900			
Wm. Burgess	do	May 1, 1896	.....		900			
Frank Canon	do	Apr. 1, 1894	.....		900			
Geo. T. Cathel	do	Feb. 12, 1894	.....		900			
J. D. Cooper	do	Nov. 15, 1894	.....		900			
Josiah D. Flora	do	May 16, 1895	.....		900			
Geo. A. Franklin	do	June 17, 1895	.....		900			
Harry D. Freeman	do	Oct. 1, 1895	.....		900			
Wm. Gano	do	Feb. 1, 1894	Dec. 17, 1898		363.28			
Washington Gobble	do	Feb. 15, 1894	.....		900			
R. E. L. Jackson	do	Nov. 19, 1894	.....		900			
Geo. L. Lobb	do	May 1, 1894	.....		900			
J. A. Dagggett	do	Sept. 1, 1895	.....		900			
M. J. Madden	do	May 1, 1896	Mar. 11, 1899		552.74			
Harry L. McDonald	do	May 1, 1894	.....		900			
Porter J. Morgan	do	May 7, 1894	.....		900			
J. H. Richardson	do	May 3, 1894	.....		900			
Morrey Supplington	do	Aug. 1, 1898	.....		900			
Sam'l. W. Smith	do	May 1, 1896	.....		900			
A. E. Wagner	do	May 1, 1894	.....		868.22			
John Conlon	Clerk	Sept. 1, 1893	Dec. 31, 1898		900			
C. H. Morse	do	Oct. 1, 1894	.....		527.50			
L. N. Vance	do	Feb. 1, 1896	.....		900			
Hiram G. Herriek	do	Mar. 25, 1898	.....		840			
Claude F. Morris	do	Dec. 5, 1898	.....		840			
Geo. D. Young	do	Mar. 15, 1898	.....		790			
Olyver W. Byrd	do	July 15, 1896	.....		900			
Larkin S. Campbell	Stock examiner	Aug. 1, 1898	.....		750			
Bern'd. Chantigham	Tagger	Nov. 17, 1898	.....		900			
James De Goler	do	Dec. 15, 1893	.....		714.18			
	do	Apr. 1, 1894	.....		884.80			

Albert Fowkes, sr.	do	Aug. 15, 1897	720	715.10	
Wm. B. Garlick	do	Aug. 1, 1897	720	720.00	
John E. Hart	do	Oct. 15, 1897	720	610.49	2.25
A. J. Henley	do	May 1, 1895	720	633.81	
David Hunt	do	Dec. 1, 1893	720	299.40	
August Jost	do	Aug. 18, 1897	720	713.98	
H. H. Knox	do	Nov. 1, 1897	720	702.37	
E. E. Laird	do	Sept. 15, 1897	720	297.34	
Wm. J. Maddock	do	May 1, 1896	720	156.42	
Saml. F. March	do	Mar. 25, 1898	720	60.60	
Thos. A. McLeland	do	Aug. 1, 1897	720	718.10	
Dani. S. Platt	do	Jan. 22, 1894	720	714.08	
Henry Morley	do	Aug. 1, 1897	720	720.00	
Cecil K. Schafer	do	Apr. 11, 1898	720	631.87	10.15
J. W. Shannon	do	Feb. 7, 1894	720	720.00	
Jas. R. Stafford	do	Feb. 7, 1898	720	678.28	
O. A. Stingley	do	Jan. 16, 1899	720	120.70	
Jas. M. Steel	do	Aug. 1, 1897	720	720.00	
Nelson F. Weaver	do	Jan. 3, 1898	720	718.00	
Saml. E. Bennett	do				Hire, saddle horse. \$257.44
Silver Laundry and Towel Co.	do				Towel laundry 23.26
Armour Packing Co.	do				Telephone rental 36.00
Cutler Neilson Paint and Color Co.	do				Thinner, paste, and paints 18.00
Lawton & Burnop	do				12 dozen bottles ink 5.40
Chic., St. P., M. & O. Rwy. Co.	do				Transportation, C. K. Schafer 14.00
Bur. & Mo. R. R. in Nebr.	do				Transportation, J. E. Hart 5.75
<i>South Omaha, Nebr.</i>					
Don C. Ayer	Inspector	Nov. 1, 1896	1,600	1,600.00	4.76
A. T. Everett	do	Nov. 6, 1893	1,200	1,196.73	
H. M. Batschelder	Assistant Inspector	Jan. 2, 1899	1,200	596.70	
Levi P. Beechey	do	July 13, 1898	1,200	1,154.33	
Saml. E. Costford	do	Dec. 10, 1895	1,200	551.07	
Dean G. Cooper	do	Mar. 4, 1898	1,200	1,200.00	
J. Otis Jacobs	do	July 1, 1898	1,200	1,196.70	
Chas. W. Johnson	do	Aug. 18, 1898	1,200	1,040.15	
Charles Keane	do	Dec. 1, 1897	1,200	110.87	15.30
Jos. S. Keane	do	July 20, 1898	1,200	19.57	
Robt. A. Ramsay	do	Feb. 18, 1899	1,200	449.97	
Hugh M. Rowe	do	Dec. 15, 1898	1,200	635.87	
W. A. Savage	do	Apr. 1, 1898	1,200	1,200.00	
Charles Conoyer	Clerk	Jan. 16, 1897	1,000	988.98	
Phelps Paine	do	June 1, 1897	900	837.69	
Jay F. Williams	do	Mar. 10, 1898	840	837.68	
J. W. Davis	do	Jan. 1, 1894	900	897.52	
W. K. Jacobs	Stock examiner	June 27, 1895	900	853.46	
Frank Jelen	do	Apr. 1, 1895	900	900.00	
Thos. J. Lowrey	do	Mar. 25, 1895	900	900.00	
Jay Merrill	do	Jan. 1, 1894	900	890.23	
Frank G. Patrick	do	do	900	900.00	

Disbursements from the appropriation for salaries and expenses, Bureau of Animal Industry, for the fiscal year ended June 30, 1899—Continued.

SALARIES AND EXPENSES—Continued.

Name.	Designation.	Appointed.	Services ended.	Compensation.		Disbursements.		
				Per diem.	Per annum.	Miscellaneous items.	Salaries.	Traveling.	Miscellaneous.
MEAT INSPECTION—continued.								
South Omaha, Nebr.—Cont'd.								
Jacob I. Payne.....	Stock examiner	Jan. 1, 1894			\$880.45			
T. J. Alexander.....	Tagger	Aug. 1, 1897			720			
Jos. G. Beatrice.....	do	Dec. 1, 1898			720			
John T. Blair.....	do	May 1, 1898			720			
Edw. A. Bundy.....	do	July 18, 1898			682.88			
Jacob Burkard.....	do	May 16, 1893			720			
Chas. E. Campbell.....	do	Dec. 1, 1898			720			
Dec N. Chase.....	do	June 27, 1895			720			
Do.....	do	July 15, 1898			900			
Do.....	do	Aug. 4, 1897			720			
Jas. Condon.....	do	June 1, 1897			720			
W. W. Crandall.....	do	July 18, 1898			720			
Alvin M. Feese.....	do	Aug. 1, 1897			720			
Reuben Forbes.....	do	Feb. 10, 1898			720			
Elias Gilmore.....	do	Dec. 1, 1898			720			
Morris T. Hascall.....	do	do			720			
Orlando W. Helvey.....	do	do			720			
Ira F. Kneo.....	do	July 18, 1898			720			
Anton Kostal.....	do	May 16, 1893			720			
James Kunes.....	do	do			720			
Phos. Luddy.....	do	Feb. 15, 1895			720			
R. M. Mahan.....	do	June 1, 1893			720			
John McCormick.....	do	June 27, 1895			720			
C. H. McCormick.....	do	June 6, 1898			720			
Russell G. Merrill.....	do	June 10, 1898			720			
John B. Fayton.....	do	July 16, 1897			720			
Chris. M. Raff.....	do	Mar. 9, 1898			720			
Isabath Richards.....	do	Dec. 1, 1898			720			
Saml. A. Ristley.....	do	Oct. 1, 1898			720			
Stephen Roberts.....	do	Aug. 16, 1897			720			
Do.....	do	July 25, 1898			900			
Jas. T. Robertson.....	Stock examiner	Nov. 1, 1897			720			
Wm. H. Saunders.....	Tagger	Apr. 11, 1898			720			
L. Schilsby.....	do	Nov. 6, 1893			720			
Geo. H. Schroeder.....	do	Aug. 1, 1898			720			
Chas. S. Stanton.....	do	July 18, 1898			720			
Floyd W. Schautzell.....	do	Jan. 2, 1899			720			
Harry A. Shatzell.....	do	Aug. 4, 1897			720			

Alfred J. Smith	do	Apr. 15, 1898	720	608.58	\$2.25
Philip Smith	do	May 22, 1893	720	712.08	.....
Saml. I. Valentine	do	Oct. 16, 1894	720	716.00	.....
Henry C. Williams	do	Apr. 1, 1898	720	720.00	.....
Arthur E. Miller	do	May 10, 1899	720	102.82	.....
Geo. S. Hickox	do	Nov. 9, 1897	720	711.40	.....
Do	do	Aug. 1, 1898	720	368.00	.....
J. O. Eastman	do	July 1, 1897	720	.....	.....
Frontier Steam Laundry	do	.....	.....	.....	.....
Omaha Steam Laundry	do	.....	.....	.....	.....
Nebraska Telephone Co	do	.....	.....	.....	.....
Packers' National Bank	do	.....	.....	.....	.....
Louis Berger	do	.....	.....	.....	.....
Adams' Express Co.	do	.....	.....	.....	.....
N. E. Carter	do	.....	.....	.....	.....
J. S. Stodis	do	.....	.....	.....	.....
E. J. Seykora & Co.	do	.....	.....	.....	.....
<i>Hammond, Ind.</i>						
Lewis R. Baker	Inspector	Sept. 1, 1893	1,400	1,400.00	3.94
Henry J. Hancock	Assistant inspector	Apr. 8, 1898	1,200	1,200.00	.....
P. J. Golden	Stock examiner	Apr. 1, 1896	900	870.20	.....
J. J. Molloy	do	June 27, 1895	900	900.00	.....
John J. Young	do	Dec. 1, 1893	900	900.00	.....
Jos. L. Gerrish	Trapper	Apr. 11, 1898	720	720.00	.....
Thomas Hansen	do	May 16, 1892	720	720.00	.....
F. P. Herron	do	June 27, 1892	720	720.00	.....
Jacob Leismann	do	May 16, 1893	720	720.00	.....
John Summers	do	.....do	720	720.00	.....
W. H. Timmons	do	.....do	720	720.00	.....
Henry Wagner	do	June 22, 1891	720	720.00	.....
Walter Walsh	do	May 16, 1893	720	720.00	.....
<i>Indianapolis, Ind.</i>						
T. L. Armstrong	Inspector	May 1, 1897	1,400	1,331.04	.....
Thos. J. Turner	do	Jan. 1, 1897	1,400	1,400.00	.....
Jas. Beatty	Assistant inspector	Feb. 23, 1899	1,200	1,350.07	15.51	
Taft Butler	do	June 20, 1899	1,200	36.26	.....
Robert Darling	do	Dec. 13, 1897	1,200	696.70	.....
Fredk. T. Doan	do	Apr. 1, 1898	1,200	1,200.00	.....
Saml. G. Hendren	do	Mar. 4, 1898	1,200	681.41	.....
Chas. Keane	do	Dec. 1, 1897	1,200	323.33	.....
Jos. S. Keane	do	July 20, 1898	1,200	1,118.47	9.70	
W. B. Lincoln	do	Apr. 11, 1898	1,200	982.96	.....
Richard W. Tuck	do	Apr. 18, 1898	1,200	1,081.41	.....
Jacob Fox	Stock examiner	Jan. 1, 1894	900	895.10	.....
Geo. W. Koontz	do	Feb. 19, 1894	900	870.00	.....
Jas. W. Wampler	do	Jan. 1, 1894	900	900.00	
C. O. Goodpasture	Clerk	Mar. 21, 1898	1,000	250.00	

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Disbursements from the appropriation for salaries and expenses, Bureau of Animal Industry, for the fiscal year ended June 30, 1899—Continued.

SALARIES AND EXPENSES—Continued.

Name.	Designation.	Appointed.	Services ended.	Compensation.		Disbursements.			Miscellaneous.
				Per diem.	Per annum.	Miscellaneous items.	Salaries.	Traveling.	
MEAT INSPECTION—continued.									
<i>Indianapolis, Ind.—Cont'd.</i>									
Geo. S. Jones.	Clerk.	Mar. 10, 1898	.....	.....	\$840	.....	\$840.00	.....	.....
Jno. H. Carroll.	do	May 4, 1899	.....	.....	840	.....	129.20	.....	.....
Thos. D. Scott.	do	Mar. 23, 1899	Apr. 30, 1899	.....	840	.....	87.92	.....	.....
Martin P. Grady.	do	June 12, 1894	.....	.....	720	.....	810.00	.....	.....
Do.	do	Oct. 1, 1898	.....	.....	840	.....	.....	.....	.....
Chas Bartholomew	Tagger	Nov. 11, 1895	.....	.....	720	.....	845.81	.....	.....
Do.	Stock examiner	Sept. 1, 1898	.....	.....	900	.....	406.00	.....	.....
Matthew Quinn	Tagger	Apr. 16, 1893	.....	.....	720	.....	106.77	.....	.....
Leslie V. Stafford	do	Oct. 1, 1898	.....	.....	720	.....	19.57	.....	.....
Wm. A. Skinner	do	Nov. 18, 1895	.....	.....	720	.....	418.27	.....	.....
Syl. S. Sowers	do	Nov. 21, 1898	.....	.....	720	.....	7.83	.....	.....
Chas. Stark	do	May 2, 1898	July 16, 1898	.....	720	.....	222.00	.....	.....
Louis S. Dreyer	Laborer	Oct. 10, 1898	.....	.....	\$2.00	.....	200.00	.....	.....
Jos. Foppiano	do	Jan. 21, 1899	.....	.....	2.00	.....	342.00	.....	.....
Barwell Goff.	do	July 13, 1898	Apr. 30, 1899	.....	2.00	.....	18.00	.....	.....
David A. Moores	do	Oct. 8, 1898	.....	.....	2.00	.....	130.00	.....	.....
Thos. C. Wampler.	do	Sept. 28, 1898	.....	.....	2.00	.....	.....	.....	.....
Belt R. R. Stock Yard Co.	do	July 13, 1898	Sept. 30, 1898	.....	2.00	.....	.....	.....	.....
Frank D. Stahaker	do	.....	.....	.....	.....	.....	Rent and heating of office.	.....	\$121.75
Central Union Telephone Co.	do	.....	.....	.....	.....	.....	Water cooler and stand	.....	5.00
Baker & Thornton.	do	.....	.....	.....	.....	.....	Letter copying press.	.....	72.00
Union Pacific R. R. Co.	do	.....	.....	.....	.....	.....	Transportation, J. R. Keane.	.....	9.00
<i>Milwaukee, Wis.</i>									
A. E. Behnke	Inspector.	Apr. 1, 1898	.....	.....	1,400	.....	1,400.00	.....	13.20
Geo. W. Butler	Assistant inspector.	June 27, 1899	.....	.....	1,200	.....	13.19	.....	.....
Herbert Caldwell.	do	Feb. 23, 1899	.....	.....	1,200	.....	423.30	.....	.....
H. A. Christman	do	Feb. 1, 1898	.....	.....	1,200	.....	1,186.98	.....	.....
R. H. Harrison	do	Feb. 7, 1898	.....	.....	1,200	.....	1,193.50	.....	.....
Frank Ketchum.	do	Oct. 1, 1896	.....	.....	1,200	.....	630.00	.....	.....
Harry G. Moore.	do	Jan. 1, 1896	.....	.....	1,200	.....	498.90	.....	.....
Arthur M. Mork	do	Feb. 1, 1898	.....	.....	1,200	.....	627.11	.....	.....
Orin W. Snyder.	do	Oct. 1, 1896	.....	.....	1,200	.....	1,170.33	.....	.....
Rich'd W. Hewett	do	Feb. 8, 1899	.....	.....	1,200	.....	473.30	.....	.....
Arthur R. Wake	do	Nov. 18, 1895	.....	.....	1,200	.....	19.57	.....	.....
C. H. Morse	Clerk	Oct. 1, 1894	.....	.....	900	.....	372.50	20.15	.....

Geo. J. Rehnisch	do	May 15, 1895	900	575.00	
Henry Baumel	Stock examiner	Jan. 1, 1894	900	900.00	
Jas. W. Carney	do	Sept. 15, 1894	900	374.20	
J. J. Eichstaedt	do	June 5, 1894	900	900.00	
Chris. Killer	do	Mar. 1, 1895	900	900.00	
Thos. C. Murphy	do	June 5, 1894	900	900.00	
Chester J. Curtis	Tagger	do	720	416.18	
Chas. Elmet	do	Sept. 15, 1894	720	299.40	
Frank Mackut	do	May 1, 1896	720	299.40	
E. V. Putnam	do	do	720	478.00	
Jno. P. Somers	do	Nov. 1, 1894	720	810.00	
Do	Stock examiner	Jan. 1, 1899	900		
Jos. M. Sommer	Tagger	Oct. 1, 1896	720	299.40	
A. E. Behnke	do			420.00	
<i>Ottumwa, Iowa.</i>					
Joshua Miller	Assistant inspector	Dec. 10, 1895	1,200	1,290.24	7.60
Do	Inspector	Jan. 1, 1899	1,400	900.00	
Abraham Mader	Stock examiner	Jan. 1, 1894	900	704.45	
Llewellyn C. Akin	Tagger	Feb. 1, 1898	720	422.00	
Geo. S. Bliss	do	May 18, 1898	720		13.35
W. F. McCarroll & Son	do				
<i>National Stock Yards, Ill.</i>					
J. J. Brougham	Inspector	July 1, 1896	1,600	1,600.00	14.09
Boyd Baldwin	Assistant inspector	June 21, 1897	1,200	101.10	
Louis P. Cook	do	May 1, 1896	1,200	1,196.77	
M. T. Naughton	do	Aug. 5, 1898	1,200	752.47	
E. T. Davison	do	Sept. 7, 1896	1,200	1,196.77	
Frank C. Eells	do	Mar. 1, 1898	1,200	652.99	8.20
F. W. Hopkins	do	Feb. 15, 1896	1,200	1,186.88	
Robt. J. Kelly	do	Sept. 7, 1897	1,200	1,180.46	
Jno. P. Turner	do	June 7, 1898	1,200	65.22	
A. H. Wallace	do	Feb. 23, 1899	1,200	326.67	
Arthur H. Bibb	Stock examiner	May 1, 1896	900	875.50	
A. R. Bruton	do	Feb. 15, 1895	900	900.00	
Frank Canon	do	Apr. 1, 1894	900	235.77	14.75
Wm. T. Flynn	do	Jan. 1, 1894	900	877.97	
David R. Hodges	do	Sept. 1, 1896	900	897.57	
Frank O'Neill	Tagger	May 1, 1896	720		
Do	Stock examiner	July 18, 1898	900	874.39	
Jno. F. Schierman	do	Apr. 1, 1897	900	112.48	
Geo. Sutherland	do	Nov. 12, 1894	900	885.00	
Geo. H. Woolfolk	do	Mar. 2, 1896	900	24.46	
Wm. S. Grayford	Clerk	Apr. 10, 1895	900	890.09	
Clement Bevelot	Tagger	Dec. 1, 1893	720	720.00	
Jos. G. Carr	do	Feb. 15, 1895	720	708.17	
Jas. W. Chowning	do	Dec. 1, 1895	720	389.36	
Wm. J. Doyle	do	Feb. 15, 1895	720	328.75	
Robt. Gray	do	June 24, 1895	720	720.00	

Disbursements from the appropriation for salaries and expenses, Bureau of Animal Industry, for the fiscal year ended June 30, 1899—Continued.

SALARIES AND EXPENSES—Continued.

Name.	Designation.	Appointed.	Services ended.	Compensation.		Disbursements.				
				Per diem.	Per annum.	Miscellaneous items.	Salaries.	Traveling.	Miscellaneous.	
MEAT INSPECTION—continued.										
<i>National Stock Yards, Ill.—Continued.</i>										
Geo. F. Harley	Tagger	June 18, 1898			\$720			\$320.92		
Geo. Market	do	Jan. 2, 1894			720			33.26		
Chas. O. McDonald	do	Dec. 1, 1898			720			389.85		
Edw. O. Speake	do	Apr. 1, 1898			720			678.00		
Edw. M. Smith	do	July 18, 1898			720			647.61		
Jos. Sullivan	do	Feb. 15, 1895			720			89.95		
St. Louis National Stock Yards.								Rent.		\$300.00
<i>New York, N. Y.</i>										
R. W. Hickman	Inspector	Sept. 1, 1893				2,000		2,000.00		
Ias. H. Ferster	do	Apr. 15, 1891				1,400		1,396.23		9.17
E. A. Parsons	do	Feb. 15, 1894				1,200		1,200.00		
Louis Abel	Assistant Inspector.	Oct. 1, 1896				1,200		1,200.00		
Jno. B. Hopper	do	Mar. 15, 1898				1,200		1,200.00		
Jno. V. Laddey	do	Mar. 1, 1898				1,200		701.10		
Wilbur J. Murphy	do	Dec. 2, 1895				1,200		1,200.00		
Wm. J. Reagan	do	Jan. 1, 1896	Mar. 31, 1899			1,200		97.83		
W. A. Willard	Clerk	Sept. 1, 1893				1,200		1,200.00		
Eph. Dietrich	do	May 1, 1896				900		954.64		
Do.	do	Dec. 15, 1898				1,000				
Hiram Jerome	Stock examiner	Oct. 12, 1897				900		900.00		
Theo. Kanter	do	Nov. 11, 1895				900		900.00		
Henry Schauer	do	Dec. 9, 1895				900		900.00		
Geo. A. Sheldon	do	Feb. 1, 1896	Mar. 20, 1899			900		647.50		
J. F. Butterass	Tagger	Mar. 2, 1896				720		720.00		
Wallace M. Gill	do	June 29, 1896				720		720.00		
Edgar Gill	do	Mar. 20, 1899				720		198.00		
Frank J. Gilmore	do	Feb. 1, 1896				720		716.00		
Fred. J. Goebel	do	Sept. 7, 1891				720		720.00		
Jno. J. Haggerty	do	Mar. 2, 1896				720		720.00		
Wm. N. Hutchinson	do	Nov. 24, 1896	Feb. 28, 1899			720		478.00		
G. M. Lachman	do	June 1, 1898				720		720.00		
Jno. F. Luepke	do	Mar. 23, 1895				720		720.00		
Wm. H. Molineux	do	Jan. 8, 1896				720		617.10		
Henry Schopp	do	Sept. 15, 1893	June 10, 1899			720		720.00		

W. S. Cass.....	Inspector	Dec. 26, 1893			1,200	1,351.11	
Do.....	do	Sept. 1, 1898			1,400	1,400.00	
Chester Miller.....	Assistant inspector	June 22, 1898			1,200	1,193.47	
M. J. Myers.....	do	Apr. 1, 1898			1,200	1,200.00	
A. W. Swodberg.....	do	Dec. 10, 1895			900	897.57	
G. H. Boughner.....	Live stock agent	Nov. 16, 1896			900	882.82	
A. G. Bibb.....	Stock examiner	Mar. 1, 1896			900	887.76	
Saml. Frazee.....	do	Feb. 20, 1895			900	853.44	
Geo. Markert.....	do	July 18, 1898			720	720.00	
James Ford.....	Tagger	Sept. 28, 1896			720	567.69	
Jno. I. Games.....	do	June 18, 1898	Apr. 14, 1899		720	720.00	
Matt. O'Keeffe.....	do	Mar. 2, 1896			720	720.00	
E. N. La Rue.....	do	May 15, 1899			720	92.93	92.05
W. S. Cass.....	do						Expenses and street-car fares.
<i>New Brighton, Minn.</i>							
Charles Keane.....	Assistant inspector	Dec. 1, 1897			1,200	407.62	
Cecil K. Schafer.....	Tagger	Apr. 11, 1898			720	72.34	
C. W. von Donn.....	do	do			720	68.43	
<i>Bloomington, Ill.</i>							
Fredk. Braughton.....	Inspector	May 16, 1893			1,400	1,400.00	27.10
Chas. Vandervoort.....	Tagger	do			720	720.00	
<i>Nashville, Tenn.</i>							
S. G. Burkholder.....	Assistant inspector	Jan. 1, 1897	Jan. 15, 1899		1,200	151.10	19.65
W. B. Lincoln.....	do	Jan. 1, 1899			1,200	171.43	16.35
Arthur M. Rork.....	do	Feb. 1, 1898			1,200	381.94	22.80
Frank Canon.....	Tagger	Feb. 19, 1894			720	171.96	
Braudon Printing Co.....							Desk and chairs 25.00
<i>Cudahy, Wis.</i>							
Arthur R. Wake.....	Assistant inspector	Nov. 18, 1895			1,200	801.10	32.27
Do.....	Inspector	Jan. 1, 1899			1,400		
Harry G. Moore.....	Assistant inspector	Jan. 1, 1896			1,200	607.70	
Jos. W. Carney.....	Stock examiner	Sept. 15, 1894			900	525.80	
Geo. J. Reinseh.....	Clerk	May 15, 1895			900	325.00	
Chas. Ehmer.....	Tagger	Sept. 15, 1894			720	510.60	
Do.....	do	Jan. 1, 1899			900	62.00	
Stephen D. Gillett.....	Stock examiner	Jan. 2, 1899			720	420.60	
Frank Mackut.....	Tagger	May 1, 1896			720	418.66	
Jos. M. Sommer.....	do	Oct. 1, 1896			720		
<i>Liberton, Oreg.</i>							
Orlando B. Hess.....	Inspector	July 1, 1896			1,400	1,301.12	16.00
Chas. H. Adams.....	Tagger	Aug. 17, 1898			720	168.31	
Southern Pacific Co.....			Nov. 30, 1898				Transportation, O. B. Hess 33.00

St. Louis, Mo.

Disbursements from the appropriation for salaries and expenses, Bureau of Animal Industry, for the fiscal year ended June 30, 1899—Continued.

SALARIES AND EXPENSES—Continued.

Name.	Designation.	Appointed.	Services ended.	Compensation.		Disbursements.			
				Per diem.	Per annum.	Miscellaneous items.	Salaries.	Traveling.	Miscellaneous.
MEAT INSPECTION—continued.									
<i>Portland, Me.</i>									
Huntington	Inspector	June 1, 1896			\$1,200		\$401.10		
<i>New Haven, Conn.</i>									
E. L. Volgenan		Dec. 2, 1895		1,200			453.55	\$16.75	
A. F. Martins		Mar. 1, 1898		1,200			26.37	21.35	
<i>Detroit, Mich.</i>									
Louis K. Green	Assistant inspector	Oct. 1, 1896		1,200			270.33	13.00	
Harry C. Jacobs	Tagger	May 10, 1899		720			102.82		
<i>Philadelphia, Pa.</i>									
Chas. A. Schaufler	Inspector	Sept. 1, 1893		1,600			1,595.63		\$70.10
Jas. Johnston	Assistant inspector	Nov. 18, 1895		1,200			1,190.17		
Geo. B. Wright	Stock examiner	Jan. 1, 1897		900			877.86		
Chas. J. Bigley	Clerk	Jan. 15, 1898		840			835.40		1.92
Jno. C. Callahan	Tagger	Oct. 1, 1895		720			688.65		
A. V. Pepperman	do	Jan. 23, 1896		720			718.06		
Thos. Reid	do	June 1, 1893		720			720.00		
Matt. Robinson	do	May 1, 1897		720			712.21		
Wm. T. Tippet	do	Dec. 2, 1895		720			696.46		
Howard W. Thomas	do	May 7, 1897	Jan. 10, 1899	720			376.04		
The Bell Telephone Co. of Philadelphia.		May						Telephone rental.	160.00
<i>Sioux City, Iowa.</i>									
Wm. Thompson	Inspector	Apr. 1, 1898		1,400			1,365.43		33.50
Geo. A. Johnson	Assistant inspector	Apr. 1, 1897		1,200			1,193.50		
Geo. W. Clark	Clerk	Mar. 1, 1898		900			877.96		
Donald McDonald	Stock examiner	Feb. 1, 1896		900			880.45		
Wm. B. Treadway	do	Jan. 1, 1894		900			900.00		
Chas. J. Chamberlain	Tagger	Mar. 1, 1894		720			810.00		
Do.	Stock examiner	Jan. 1, 1899		900			720.00		
Thos. G. Cowgill	Tagger	May 9, 1898		720			720.00		

Myron H. Kling	do	Dec. 15, 1898	720	497.06	
Park. Finnan	do	Nov. 17, 1898	720	124.61	
D. A. Winnie	do	Apr. 17, 1893	720	810.00	
Do	do	Jan. 1, 1899	900	298.00	24.00
Henry D. Osborne	Stock examiner	Mar. 21, 1898			5.00
Iowa Telephone Co.	Laborer				17.00
Peavey & Nash Furnishing Co.					2.00
The Standard Woodworking Co.					
Beach & Weld					
<i>Louisville, Ky.</i>					
Niels C. Sorensen	Inspector	Apr. 1, 1898	1,400	1,400.00	119.45
H. M. Burgess	Assistant inspector	Apr. 8, 1898	1,200	570.33	
Jas. L. Otterman	do	Aug. 18, 1898	1,200	417.35	
Arthur H. Bibb	Stock examiner	May 1, 1896	900	24.46	
Herbert M. Smith	do	Aug. 19, 1897	900		
Do	Assistant inspector	Mar. 1, 1899	1,200	1,000.80	
Geo. H. Woolfolk	Stock examiner	Mar. 2, 1896	900	873.13	
Hogan Gaines	Tagger	Apr. 1, 1888	720	716.08	4.00
C. F. Bierbaum & Bro.					
<i>Marshalltown, Iowa.</i>					
Ira K. Atherton	Assistant inspector	Feb. 15, 1895	1,200		
Do	Inspector	Sept. 1, 1898	1,400	1,366.40	2.30
Arthur R. Wake	Assistant inspector	Nov. 18, 1895	1,200	16.30	
Alfred J. Smith	Tagger	Apr. 15, 1898	720	76.25	
<i>Nebraska City, Neb.</i>					
W. H. Gibbs	Inspector	Sept. 1, 1893	1,200	1,200.00	1.00
Chas. A. Brown	Stock examiner	June 1, 1895	900	525.80	7.35
Geo. M. Thomas	do	Nov. 30, 1898	900	195.64	
F. A. Dammann	Tagger	June 10, 1895	720	537.99	
Alfred J. Smith	do	Apr. 15, 1898	720	35.22	
Nebraska City Furniture Co.					26.00
Chicago and Northwestern Rwy. Co.					7.34
<i>Portland, Oreg.</i>					
E. N. Hutchinson	Assistant inspector	Aug. 15, 1896	1,200	1,200.00	11.55
Chas. H. Adams	Tagger	Aug. 17, 1898	720	27.39	
Howard D. Ehey	do	Nov. 30, 1898	720	720.00	
Wm. H. Gately	do	Feb. 15, 1896	720	267.99	
Wm. R. Sutter	do	Mar. 1, 1898	720	51.43	
Geo. J. Coleman	do	June 5, 1899	720		
Laborer		Dec. 1, 1898			
					2.00

Gold-lettered office sign.

Desk and chair.
Transportation, A. J. Smith.

Disbursements from the appropriation for salaries and expenses, Bureau of Animal Industry, for the fiscal year ended June 30, 1899—Continued.

SALARIES AND EXPENSES—Continued.

Name.	Designation.	Appointed.	Services ended.	Compensation.		Disbursements.			Miscellaneous.
				Per diem.	Per annum.	Miscellaneous items.	Salaries.	Traveling.	
MEAT INSPECTION—continued.									
<i>Jersey City, N. J.</i>									
Julius Huelsen	Inspector	Mar. 10, 1888			\$1,400		\$1,049.93		\$40.41
Nathan K. Fegley	Assistant inspector	June 8, 1896			1,200		1,196.73		6.10
Archd. McBride	do	do			1,200		556.70		
Geo. B. Rose	Stock examiner	Jan. 1, 1894	Dec. 25, 1898		1,000		883.73		
Immanuel Due	Clerk	Mar. 2, 1896			900		897.50		
Geo. J. Hoerner	Tagger	May 1, 1896			720		720.00		
Jno. McCullough, jr	do	Jan. 8, 1896			720		708.17		
Jno. Purcell, jr	do	Sept. 1, 1893			720		720.00		
Thomas Shea	do	July 17, 1893			720		720.00		
<i>Lincoln, Nebr.</i>									
W. D. Robbins	Inspector	Jan. 4, 1894	Dec. 9, 1898		1,200		528.25		
Charles Keane	do	Dec. 1, 1897			1,200		29.35	\$6.10	
Saml. E. Costford	Assistant inspector	Dec. 10, 1895			1,200		648.91	31.90	
Jno. E. Hart	Tagger	Oct. 15, 1897			720		91.90		
Russell G. Merrill	do	June 10, 1898			720		387.17		
Rudge & Morris Co.									22.00
J. H. Harley									8.00
<i>Los Angeles, Cal.</i>									
Orlando B. Hess	Inspector	July 1, 1896			1,400		98.91		22.47
Frank T. Shannon	Assistant inspector	July 15, 1895			1,200		1,304.43	16.50	385.03
Do	Inspector	Sept. 1, 1898			1,400				
Wm. R. Dennis	Stock examiner	Nov. 10, 1896			900		885.14		
Arthur J. O'Rourke	do	do			900		887.50		
M. P. Nolte	Tagger	July 1, 1896			720		720.00		
Edw. E. Stephens	do	Dec. 9, 1896			720		720.00		
<i>Eau Claire, Wis.</i>									
Orrin W. Snyder	Assistant inspector	Oct. 1, 1896			1,200		29.67	10.40	.60
<i>Cincinnati, Ohio.</i>									
Albert J. Payne	Assistant inspector	June 1, 1895			1,200		1,366.40		17.29
Do	Inspector	Sept. 1, 1898			1,400				

Wm. P. Ellenberger	Assistant inspector	Aug. 18, 1898	1,200	1,043.39
Wm. C. Shaw	do	Feb. 8, 1899	1,200	499.97
A. L. Hirdeman	Stock examiner	Mar. 10, 1896	720	900.00
R. A. Broadhurst	Tagger	Jan. 1, 1896	720	269.95
Edw. C. Carle	do	Oct. 1, 1896	720	720.00
Chas. Pearson	do	June 15, 1898	720	720.00
Patk. E. Quinn	do	Nov. 11, 1895	720	716.08
Jno. C. Schook	do	Nov. 1, 1898	720	440.07
<i>Cleveland, Ohio.</i>				
Edw. P. Schaffler	Inspector	Dec. 1, 1897	1,400	1,400.00
Jas. T. Stuart	Assistant inspector	Mar. 1, 1898	1,200	1,183.41
Jno. J. Crowley	Tagger	Nov. 6, 1893	720	810.00
Do	Stock examiner	Jan. 1, 1899	720	720.00
Simon Kacher	Tagger	July 1, 1893	720	720.00
Louis N. Stumpf	do	Nov. 6, 1893	720	720.00
John D. Shannon	do	June 16, 1893	720	422.00
<i>Clinton, Iowa.</i>				
Arthur B. Morse	Inspector	May 19, 1895	1,400	1,400.00
<i>Wichita, Kans.</i>				
W. C. Barth	Inspector	Sept. 15, 1893	1,200	1,366.40
Do	do	Sept. 1, 1898	1,400	877.70
Thos. W. Oshel	Stock examiner	July 1, 1897	900	
<i>Worcester, Mass.</i>				
Edw. P. Dowd	Assistant inspector	Sept. 16, 1895	1,200	1,300.00
Do	Inspector	Jan. 1, 1899	1,400	720.00
Henry Leland	Tagger	Feb. 1, 1898	720	
<i>Pittsburg, Pa.</i>				
F. W. Ainsworth	Assistant inspector	Feb. 7, 1898	1,200	1,143.96
Sidney W. Jones	Tagger	July 20, 1898	720	674.90
Morton Magee	do	Nov. 11, 1898	720	459.73
Jas. L. McGill	do	Jan. 17, 1898	720	498.93
Jas. F. Hughes	Laborer	May 9, 1898	720	177.94
Wm. L. Myers	do	Mar. 15, 1899	2,00	94.00
Harry W. Waller	do	May 10, 1899	2,00	Office expenses.
<i>Cedar Rapids, Iowa.</i>				
Trajan A. Shipley	Inspector	July 1, 1896	1,400	1,400.00
John McBirney	do	June 15, 1897	1,400	19.02
Wm. F. Phaeuging	Stock examiner	Aug. 1, 1894	900	885.10
Alfred Day	Tagger	Dec. 10, 1895	720	869.60
Do	Stock examiner	Sept. 1, 1898	900	898.00
Chas. L. Grumbine	Laborer	Feb. 28, 1899	2,00	

Disbursements from the appropriation for salaries and expenses, Bureau of Animal Industry, for the fiscal year ended June 30, 1899—Continued.

SALARIES AND EXPENSES—Continued.

Name.	Designation.	Appointed.	Services ended.	Compensation.		Disbursements.			Miscellaneous.
				Per diem.	Per annum.	Miscellaneous items.	Salaries.	Traveling.	
MEAT INSPECTION—continued.									
<i>Davenport, Iowa.</i>									
George Difeavig.....	Assistant inspector.	Aug. 11, 1896		\$1,200			\$1,200.00		
George C. Burke.....	Stock examiner	Jan. 1, 1894		900			900.00		
John Trainer.....	do	June 27, 1895		900			900.00		
<i>Boston, Mass.</i>									
Wm. M. Bulmer.....	Inspector	Nov. 20, 1893		1,200			1,200.00		
John V. Laddy.....	Assistant inspector	Mar. 1, 1898		1,200			498.90		
Alfred J. Martins.....	do	do		1,200			1,173.63		
P. H. Mallowney.....	do	Jan. 17, 1898		1,200			997.83		
Jno. P. O'Leary.....	do	Feb. 1, 1896		1,200			263.73	\$12.45	
Wm. J. Reagan.....	do	Jan. 1, 1896	Mar. 31, 1899	1,200			307.94		
H. Q. Thompson.....	do	Feb. 1, 1898		1,200			1,196.70		
Alex. E. Wright.....	do	Dec. 15, 1898		1,200			655.43		
Philip J. Panning.....	Stock examiner	Feb. 1, 1896		900			890.00		
Geo. D. Warner.....	do	July 1, 1898		900			900.00		
Frank N. Brown.....	Tagger	Jan. 8, 1896		720			59.30		
Wm. J. Corbett.....	do	Feb. 1, 1896		720			412.27		
Frank R. Fravel.....	do	Oct. 1, 1895		720			720.00		
Wm. H. Tozier.....	do	Dec. 21, 1891		720			720.00		
A. G. G. Richardson.....	do	Dec. 21, 1891		720			720.00		\$11.98
Brookline Gas Light Co.						Freight, telegrams, and stationery.			
Wabash R. R. Co.						Gas.		33.00	2.30
						Transportation, J. P. O'Leary.			
<i>Buffalo, N. Y.</i>									
Harry M. Ball.....	Assistant inspector	Nov. 1, 1898		1,200			798.90		
Thomas Castor.....	do	Apr. 1, 1897		1,200			16.67	18.50	
Louis K. Green.....	do	Oct. 1, 1896		1,200			234.07		
John H. McNaul.....	do	Apr. 10, 1899		1,200			270.33		
John P. O'Leary.....	do	Feb. 1, 1896		1,200			300.00		
Wm. A. Rushworth.....	do	Dec. 15, 1896		1,200			593.50		
E. L. Volganan.....	do	Dec. 2, 1895		1,200			600.00		
John L. Grobe.....	Stock examiner	Feb. 15, 1896		900			900.00		
A. W. Meyer.....	do	Nov. 8, 1894		900			450.00		
H. L. Newton.....	do	Nov. 8, 1894		900			450.00		

H. L. Rieman	do	Feb. 15, 1896	900	597.50	
Michl. Chojnacki	Tagger	Apr. 16, 1894	720	478.80	
Frank J. Danahy	do	May 1, 1893	720	59.30	
Michl. Justinger	do	July 1, 1893	720	720.00	
Johannas Greiner	do	May 29, 1896	1 \$30.00	137.97	
George E. Gangloff	Laborer				860.00
<i>Miscellaneous.</i>					
Chicago Car Seal and Manufacturing Co.					6,750.00
Goes Lithographing Co.					5,552.74
Dennison Manufacturing Co.					3,460.97
American Railway Supply Co.					101.26
John C. Parker					108.30
J. S. Harley					5.63
The J. C. Ergood Co.					15.34
Eugene M. Tilden					7.45
Chas. O. Brockway					88.00
The Maurice Joyce Engraving Co.					1.50
Chadwick Copying Book Co.					114.48
Keen & Hagerly Manufacturing Co.					10.50
E. Morrison Paper Co.					47.37
Rudolph, West & Co.					2.47
Maekall Bros					24.78
Library Bureau					12.00
R. Carter Ballantyne					51.66
C. S. Braisted					15.54
L. Berger					1.50
H. F. Miller & Son					7.20
Wm. E. Pratt					12.58
The Harrington & King Perforating Co.					3.00
H. E. Overstreet					2.83
The Office and Library Co.					2.45
Austin Smith					14.40
The Geo. W. Knox Express Co.					5.51
Fredk. Springmann					1.20
Royce & Marean					27.80
The White, Corbiu & Co.					5.70
Vandalia Line					154.52
Star Union Line					33.39
Burlington and Missouri River R. R. in Nebraska.					52.85
Missouri Pacific Rwy. Co.					7.17

1 Per month.

Disbursements from the appropriation for salaries and expenses, Bureau of Animal Industry, for the fiscal year ended June 30, 1899—Continued.

SALARIES AND EXPENSES—Continued.

Name.	Designation.	Appointed.	Services ended.	Compensation.		Disbursements.			Miscellaneous.
				Per diem.	Per annum.	Miscellaneous items.	Salaries.	Traveling.	
MEAT INSPECTION—continued.									
Miscellaneous—Continued.									
Burlington, Cedar Rapids and Northern Rwy. Co.						Freight on stamps and seals.			\$1.65
Chicago, Indianapolis and Louisville Rwy. Co.						Freight on seals and presses.			4.32
Baltimore and Ohio R. R. Co.						Freight on ink			.86
Chicago, Milwaukee and St. Paul Rwy. Co.						Freight on tags and seals.			6.16
Chicago, Burlington and Quincy R. R. Co.						Freight on stamps and seals.			2.02
Hannibal and St. Joseph R. R. Co.						Freight on stamps, tags, and seals.			72.62
Chicago and North Western Rwy. Co.						Freight on stamps and tags			99.58
Lehigh Valley R. R. Co.						do			.75
Pennsylvania Co.						Freight on tags.			6.67
Archison, Topeka and Santa Fe Rwy. Co.						Freight on seals and stamps.			82.93
Chicago, Rock Island and Pacific Rwy. Co.						Freight on tags and hog rings.			3.48
Illinois Central R. R. Co.						Freight on seals and stamps.			8.40
Lake Shore and Michigan Southern Rwy. Co.						Freight on stamps.			1.82
Cleveland, Cincinnati, Chicago and St. Louis Rwy. Co.						do			2.64
New York, New Haven and Hartford R. R. Co.						do			.82
New York, Chicago and St. Louis R. R. Co.						do			1.12
Louisville and Nashville R. R. Co.						Freight on tags.			1.66
Michigan Central R. R. Co.						Freight on stamps and hog rings.			.85
Oregon R. R. and Navigation Co.						Freight on tags and wires.			.50
St. Louis and San Francisco R. R. Co.						do			.42
Southern Pacific Co.						do			34.21
Union Pacific R. R. Co.						do			50.64

Chicago, Ill.

E. Balzer	Microscopist	Aug. 1, 1896	\$1,800	\$1,280.00
Morris Wooden	Inspector	Mar. 16, 1899	1,800	530.00
E. L. Siggins	do	Sept. 1, 1893	1,400	1,400.00
A. R. Wake	Assistant inspector	Nov. 18, 1895	200	42.33
Norman R. Adams	Stock examiner	Nov. 1, 1895	900	70.00
Jas. Hale	do	Jan. 1, 1894	900	72.50
R. Koehanoowski	do	do	900	372.50
F. L. Simpson	do	June 27, 1895	900	372.50
Jno. B. Shine	do	Dec. 1, 1898	900	372.50
H. G. Arnold	Tagger	Dec. 1, 1898	720	56.00
W. A. Bifner	do	Feb. 15, 1898	720	110.00
R. A. Broadhurst	do	Jan. 1, 1896	720	293.86
Jno. W. Burton	do	Jan. 2, 1899	720	236.00
A. L. Faunce	do	Oct. 16, 1898	720	298.00
W. M. Foster	do	Dec. 1, 1898	720	56.00
Jno. J. Garity	do	Sept. 1, 1893	720	56.00
A. E. Harris	do	May 1, 1896	720	298.00
Jas. Herriman	do	June 27, 1895	720	298.00
De L. Howard	do	Sept. 15, 1893	720	56.00
A. Hostetter	do	Oct. 1, 1898	720	272.33
Herman Jacobus	do	June 27, 1895	720	695.16
E. C. Lauck	do	Oct. 12, 1898	720	298.00
J. C. Lorenzen	do	June 27, 1895	720	298.00
Jno. C. Massie	do	Oct. 20, 1896	720	56.00
Wm. McKay	do	June 27, 1895	720	720.00
Chas. W. Philpot	do	Oct. 18, 1897	720	70.00
do	do	do	900	298.00
do	do	do	720	56.00
do	do	do	720	268.19
do	do	do	720	298.00
do	do	do	720	56.00
do	do	do	720	56.00
do	do	do	720	56.00
Thos. A. White	do	June 24, 1895	720	56.00
Ellen S. Mayhew	do	July 1, 1896	900	670.73
do	do	Dec. 1, 1898	600	521.62
Bertha I. Allen	Assistant microscopist	Dec. 20, 1897	600	513.64
Maud S. Armstrong	do	Apr. 6, 1898	600	526.32
Flora A. Ayers	do	Nov. 26, 1894	600	435.34
May E. Babbick	do	Oct. 6, 1898	600	442.20
Katie Barrow	do	Nov. 1, 1892	600	515.09
G. M. Barry	do	Apr. 6, 1898	600	567.29
Mary K. Barry	do	May 1, 1895	600	506.78
Addie E. Bennieson	do	Apr. 23, 1894	600	545.84
Malvina A. Bixby	do	Aug. 20, 1897	600	545.84
Estella C. Bonds	do	Apr. 6, 1898	600	562.48
Veturia E. Boyd	do	Feb. 17, 1897	600	570.62
Kate H. Brady	do	Dec. 1, 1892	600	554.33
M. E. Braundt	do	Dec. 7, 1896	600	373.25
Laura D. Burke	do	June 22, 1891	600	

Disbursements from the appropriation for salaries and expenses, Bureau of Animal Industry, for the fiscal year ended June 30, 1899—Continued.

SALARIES AND EXPENSES—Continued.

Name.	Designation.	Appointed.	Services ended.	Compensation.		Disbursements.			Miscellaneous.
				Per diem.	Per annum.	Miscellaneous items.	Salaries.	Traveling.	
MEAT INSPECTION—continued.									
<i>Chicago, Ill.</i> —Continued.									
Nellie Callaghan.....	Assistant microscopist.....	Sept. 1, 1893			\$600		\$437.53		
Thillie Oella.....	do.....	Nov. 28, 1892	Oct. 31, 1898		600		84.78		
Agnes Chase.....	do.....	Oct. 6, 1898			600		480.40		
Anna F. Clarke.....	do.....	Sept. 1, 1893			600		541.30		
M. J. Connell.....	do.....	.....do.....			600		572.25		
Nora Conway.....	do.....	Oct. 10, 1892			600		489.64		
May H. Crosby.....	do.....	Sept. 1, 1893			600		518.07		
Lillie M. Crowell.....	do.....	Feb. 1, 1894			600		568.85		
Nellie E. Damon.....	do.....	Feb. 5, 1894			600		570.65		
Estelle G. Davis.....	do.....	Apr. 6, 1898			600		513.49		
Nina B. Davis.....	do.....	Jan. 3, 1898			600		523.34		
Bertha L. Diller.....	do.....	Sept. 1, 1893			600		511.64		
E. M. Donagan.....	do.....	Sept. 6, 1898			600		513.44		
Delia Dietz.....	do.....	Oct. 11, 1898			600		420.59		
Barbara Dorse.....	do.....	Dec. 26, 1894			600		581.58		
Ella B. Earle.....	do.....	Mar. 25, 1895			600		557.62		
Eliz. K. Eckert.....	do.....	Mar. 16, 1895			600		488.08		
Margret Enright.....	do.....	Sept. 11, 1893			600		463.79		
Matilda Evanson.....	do.....	Dec. 21, 1897			600		560.84		
Abbie M. Farwell.....	do.....	Feb. 15, 1895			600		562.29		
Lyde Finlen.....	do.....	Jan. 1, 1894			600		414.04		
Ada K. Gunnon.....	do.....	Feb. 15, 1894			600		211.14		
Eliz. C. Gibson.....	do.....	July 24, 1896			600		307.44		
Mary F. Gordin.....	do.....	Aug. 9, 1897			600		520.05		
N. M. Goodridge.....	do.....	May 16, 1893			600		506.59		
Charlotte R. Grosse.....	do.....	Oct. 11, 1898			600		423.80		
Jennie E. Hatch.....	do.....	Sept. 7, 1897			600		541.06		
Fessie C. Harvey.....	do.....	June 20, 1891			600		498.56		
Julia Hell.....	do.....	Feb. 17, 1897			600		516.68		
Thillie Hell.....	do.....	Dec. 21, 1897			600		418.75		
Bessie M. Hently.....	do.....	Oct. 6, 1898			600		428.75		
Eva M. Hedstrom.....	do.....	Dec. 19, 1897	Nov. 30, 1898		600		125.55		
Jessie Hickman.....	do.....	Dec. 20, 1897			600		559.22		
Dora V. N. Hosmer.....	do.....	Feb. 1, 1894			600		411.90		
May E. Hotchkiss.....	do.....	Mar. 1, 1895			600		560.62		
Mertle A. Hunt.....	do.....	Jan. 3, 1898			600		536.15		
Abbie W. Hunter.....	do.....	Feb. 1, 1894			600		498.50		

Effie M. Hunter	do	Nov. 24, 1896	600	547.30
Mary Hurley	do	Dec. 1, 1896	600	500.67
Sarah A. Ingram	do	Jan. 1, 1898	600	572.25
Louise Johnson	do	Apr. 3, 1898	600	489.33
Mac B. Joslin	do	Dec. 19, 1897	600	293.45
Mary E. Kean	do	Sept. 1, 1893	600	562.48
Nellie E. Kenyon	do	Sept. 20, 1897	600	519.99
Alice Lawson	do	Aug. 9, 1897	600	534.21
Mary E. Leahy	do	Sept. 1, 1893	600	491.86
Louise M. Lorey	do	Mar. 10, 1898	600	400.82
Kate R. Luce	do	Aug. 17, 1897	600	459.01
E. C. McCarthy	do	Jan. 3, 1898	600	567.29
Rosa McDonnell	do	Apr. 6, 1898	600	554.36
L. G. McClasson	do	May 1, 1892	600	573.48
Daisy G. McCraith	do	Jan. 3, 1898	600	501.60
Amy T. Mace	do	do	600	526.64
Katie A. Murphy	do	Aug. 15, 1892	600	573.81
Maggie Murphy	do	June 6, 1898	600	283.56
Mamie F. Murray	do	Sept. 1, 1893	600	558.98
Eliz. L. Neill	do	Jan. 3, 1898	600	519.85
Annie Nicolai	do	Sept. 16, 1891	600	542.86
Agnes B. O'Brien	do	do	600	562.51
Helen E. O'Brien	do	do	600	568.74
Julia H. O'Brien	do	do	600	509.92
Bertha A. Ockerby	do	Oct. 6, 1898	600	430.88
Bessie D. Ogden	do	Mar. 15, 1895	600	577.17
M. L. L. Petersen	do	Aug. 6, 1894	600	552.14
Genevieve Petrie	do	Mar. 21, 1898	600	371.75
Emma Pierson	do	Dec. 20, 1897	600	462.38
Jo. Putnam-Hinds	do	Sept. 30, 1898	600	48.91
Anna M. Quinn	do	Jan. 3, 1898	600	524.80
A. H. Richards	do	Oct. 1, 1894	600	515.15
Agnes B. Rieder	do	Mar. 1, 1895	600	314.86
Laura Rieder	do	Dec. 20, 1897	600	516.51
Sarah A. Riley	do	do	600	122.28
Belle Rifter	do	Mar. 26, 1899	600	513.04
Lila Robinson	do	Feb. 1, 1894	600	573.78
Mabel Rockwell	do	Dec. 1, 1894	600	395.66
Blanche Roy	do	Feb. 1, 1894	600	546.06
Josephine Rockwell	do	Oct. 1, 1891	600	508.92
Bianche Roy	do	Jan. 3, 1898	600	578.77
Nellie A. Ryan	do	Jan. 1, 1893	600	367.17
Hannah Scabinan	do	Oct. 10, 1892	600	588.40
Nellie Sheehan	do	Apr. 1, 1892	600	575.37
Mac H. Shaw	do	Oct. 6, 1898	600	435.34
Ella Schwahn	do	Dec. 7, 1896	600	511.77
Mary Sheehan	do	Jan. 5, 1898	600	309.65
Evalina M. Shepard	do	Dec. 7, 1896	600	524.87
Jennie M. Shufeldt	do	Feb. 19, 1897	600	483.33
Pearl C. Sigler	do	Dec. 1, 1894	600	433.60
Nannite D. Strail	do	Oct. 6, 1898	600	435.34
	do	Feb. 1, 1894	600	565.61

Disbursements from the appropriation for salaries and expenses, Bureau of Animal Industry, for the fiscal year ended June 30, 1899—Continued.

SALARIES AND EXPENSES—Continued.

Name.	Designation.	Appointed.	Services ended.	Compensation.		Disbursements.			Miscellaneous.
				Per diem.	Per annum.	Miscellaneous items.	Salaries.	Traveling.	
MEAT INSPECTION—continued.									
<i>Chicago, Ill.—Continued.</i>									
W. O. Sutherland	Assistant microscopist	Feb. 1, 1894			\$600		\$539.05		
Maggie Taylor	do	Feb. 15, 1894			600		407.94		
Virginia S. Taylor	do	Feb. 1, 1894			600		499.66		
Hattie E. Thomas	do	do			600		555.96		
Josephine C. Tuttle	do	Jan. 3, 1898			600		493.52		
Katherine Tully	do	Mar. 1, 1895			600		534.51		
Mildred E. Walters	do	Nov. 21, 1896			600		562.30		
Katherine Welland	do	Dec. 17, 1894			600		547.51		
Carrie Wells	do	Dec. 18, 1893			600		472.20		
Clara Werther	do	Sept. 1, 1891			600		517.59		
Florence Whyte	do	Oct. 6, 1898			600		433.75		
Laura S. Wright	do	Aug. 1, 1894			600		24.46		
Edith W. Dewey	Laborer	Nov. 1, 1898			1 \$20.00		234.09		
Selena Hosken	do	May 29, 1896			30.00		350.03		
Annie Lynch	do	Mar. 1, 1898			30.00		310.58		
Lillie Watkins	do	July 2, 1897			30.00		357.03		
W. S. Devoc	do						Office expenses	\$37.28	
Gaban & Byrne	do						Rent	2,700.00	
The Office Toilet Supply Co.	do						Travel service	559.12	
Clery Bros.	do						Hire, horse and wagon	310.00	
J. Babette	do						Repairing lock boxes	32.65	
Deane Bros.	do						Staking and filling boxes	11.80	
J. S. Ford, Johnson & Co.	do						Cane chairs	33.83	
The Consumers' Co.	do						Ice	41.77	
Knickerbocker Ice Co.	do						do	37.07	
Hilbard, Spence, Bartlett & Co.	do						Ice chest and basins	18.17	
James Stewart	do						Repairing tables	3.30	
A. M. Rothschild & Co.	do						Emmeled cloth	6.00	
G. A. Shuster	do						Call-skinning knives	2.00	
<i>Kansas City, Kans. and Mo.</i>									
S. Stewart	Microscopist	July 1, 1893	Mar. 15, 1899		1,400		1,361.80		
Jas. F. Atherton	Clerk	Jan. 16, 1899			840		121.40		
Hiram C. Herrick	do	Mar. 25, 1898			840		210.00		
Glaude F. Morris	do	Dec. 5, 1898			840		20.51		

Thos. A. Scott.....	do	Mar. 10, 1898	840	826.38
Geo. D. Young.....	do	Mar. 16, 1898	840	52.50
L. S. Campbell.....	Tagger	Nov. 17, 1898	720	87.99
B. Cunningham.....	do	Dec. 15, 1893	720	540.00
E. E. Laird.....	do	Sept. 15, 1897	720	418.60
M. C. Lint.....	do	Aug. 8, 1898	720	643.76
G. T. Mann.....	do	Dec. 21, 1891	720	682.34
H. R. McNally.....	do	Nov. 15, 1898	720	428.20
Mory Sappington.....	do	May 1, 1896	720	60.60
O. A. Stingley.....	do	Jan. 16, 1899	720	195.41
Anna E. Armstrong.....	Assistant microscopist.	Jan. 17, 1898	600	400.74
Anna E. Bale.....	do	Feb. 7, 1898	600	435.22
Ida Bannister.....	do	Sept. 1, 1893	600	423.88
Amelia Barthels.....	do	June 20, 1892	600	407.54
Mary Bunce.....	do	Sept. 1, 1893	600	407.41
Margaret Burke.....	do	Feb. 7, 1898	600	405.75
Mary L. Burke.....	do	Sept. 1, 1893	600	433.62
May E. Carlisle.....	do	do	600	412.22
Anna M. Comstock.....	do	Feb. 7, 1898	600	435.29
Nellie B. Crowley.....	do	do	600	372.25
Sallie A. Evans.....	do	Aug. 15, 1893	600	425.36
Midge Frechette.....	do	Sept. 1, 1893	600	402.38
Florence E. Gray.....	do	Dec. 20, 1897	600	389.33
Marie Hancock.....	do	Feb. 7, 1898	600	415.66
Josie Hanrahan.....	do	Aug. 20, 1897	600	269.93
Mary Henry.....	do	Sept. 1, 1893	600	432.02
Doratheia Holt.....	do	Aug. 20, 1897	600	365.91
Sallie Hughes.....	do	May 1, 1895	600	346.80
Hattie M. Johnson.....	do	Feb. 7, 1898	600	427.16
Herman J. Kelley.....	do	Sept. 1, 1893	600	354.69
Tessie Linderman.....	do	June 23, 1892	600	423.67
Kate Lynch.....	do	Jan. 10, 1898	600	446.70
Kate Martana.....	do	Jan. 11, 1893	600	410.44
Ida B. Martin.....	do	Nov. 15, 1893	600	332.89
Millie Martin.....	do	Aug. 20, 1897	600	433.58
Bessie J. Watson.....	do	Feb. 7, 1898	600	397.01
Eliz. L. McCane.....	do	do	600	430.20
Mary McCarty.....	do	June 1, 1892	600	361.16
Margaret Merrill.....	do	Sept. 1, 1893	600	410.60
Maria P. Mulloy.....	do	Sept. 1, 1893	600	443.33
Louise C. Olson.....	do	Jan. 3, 1898	600	347.70
Nora Osborne.....	do	Jan. 1, 1893	600	420.22
Jessie E. Rogers.....	do	Feb. 7, 1898	600	440.13
Maude E. Rowles.....	do	Feb. 7, 1898	600	427.00
May B. Schoettle.....	do	Aug. 20, 1897	600	337.18
Stella Sweet.....	do	June 16, 1893	600	446.70
Emma I. Torrence.....	do	Sept. 1, 1893	600	419.02
Jennie Tunstall.....	do	Sept. 1, 1893	600	443.43
Clara M. Waldo.....	do	Feb. 7, 1898	600	445.00
Jennie B. Wheeler.....	do	Feb. 7, 1898	600	423.96
Cora L. Williams.....	do	Jan. 10, 1898	600	446.70
Marion Williams.....	do	Sept. 1, 1893	600	410.36

1 Per month.

Disbursements from the appropriation for salaries and expenses, Bureau of Animal Industry, for the fiscal year ended June 30, 1899—Continued.

SALARIES AND EXPENSES—Continued.

Name.	Designation.	Appointed.	Services ended.	Compensation.		Disbursements.		
				Per diem.	Per annum.	Miscellaneous items.	Salaries.	Traveling.	Miscellaneous.
MEAT INSPECTION—continued.								
<i>Kansas City, Kans. and Mo.—Continued.</i>								
Martha L. Wisdom.....	Assistant microscopist.....	Oct. 1, 1893			\$600		\$261.60	
Fannie B. Woodson.....	do.....	do.....			600		394.01	
Emma M. Wyatt.....	do.....	Aug. 1, 1892			600		396.13	
Claude McFarland.....	Laborer.....	June 1, 1898			1,850.00			
Do.....	do.....	Mar. 1, 1899			2.00		506.00	
S. E. Bennett.....	do.....					Office expenses.....		\$2.86
C. W. Yountellott.....	do.....					Rent.....		540.00
The B.-K. Electric Co.....	do.....					Electric fans.....		96.00
Armour Packing Co.....	do.....					Placing electric wires.....		20.46
W. A. Griswold.....	do.....					Soap.....		5.75
Dennison Mfg. Co.....	do.....					Tag fasteners.....		3.25
J. W. Timmer.....	do.....					Hardware, oil, and matches.....		12.55
Wyandotte Gas Co.....	do.....					Gas.....		29.60
Silver Laundry and Towel Co.....	do.....					Towel service.....		80.73
Robert Keith Furniture and Carpet Co.....	do.....					Window shades.....		4.95
W. H. Creed.....	do.....					Blank books.....		10.00
The J. H. North Furniture and Carpet Co.....	do.....					Linoleum.....		21.00
R. H. Williams.....	do.....					Soap and pearlina.....		6.85
Emery, Bird, Thayer Dry Goods Co.....	do.....					Floor brush and toilet paper.....		10.48
Goodyear Rubber Co.....	do.....					Chair tips.....		5.76
James Sullivan.....	do.....					Coal and kindling.....		46.00
<i>South Omaha, Nebr.</i>								
Lowell Clarke.....	Assistant inspector.....	Nov. 1, 1895			1,200		1,154.33	
Jos. G. Beattie.....	Tagger.....	Dec. 1, 1898			720		298.00	
Jun. P. Blair.....	do.....	May 1, 1898			720		284.00	
C. E. Campbell.....	do.....	Dec. 1, 1898			720		56.00	
M. T. Hascall.....	do.....	do.....			720		177.30	
Ira F. Kneec.....	do.....	July 18, 1898			720		56.00	
Jun. B. Payton.....	do.....	July 16, 1897			720		298.00	
Chris. M. Raaf.....	do.....	Mar. 9, 1898			720		298.00	
Isaiah Richards.....	do.....	Dec. 1, 1898			720		296.06	

S. A. Risley.....	do	Oct. 1, 1898	600	298.00	
L. Schibshy.....	do	Nov. 6, 1893	720	298.00	
C. S. Scranton.....	do	July 18, 1898	720	242.00	
J. O. Eastman.....	do	July 1, 1897	600	258.00	
Mary A. Atwood.....	Laborer	Feb. 7, 1898	600	398.73	
S. H. Y. Barber.....	do	Aug. 20, 1897	600	473.82	
Maud B. Beck.....	do	Feb. 10, 1898	600	476.86	
M. G. Bothwell.....	do	Dec. 20, 1897	600	468.70	
Louise Breton.....	do	Sept. 1, 1897	600	510.82	
Daisy M. Bryant.....	do	Dec. 20, 1897	600	435.24	
Ida E. Bushnell.....	do	May 16, 1893	600	364.10	
M. A. Conover.....	do	June 1, 1898	600	485.21	
Nellie M. Dennis.....	do	Jan. 5, 1895	600	483.62	
Ethel M. Fansher.....	do	June 1, 1898	600	458.78	
Mary K. Giblin.....	do	June 16, 1893	600	471.84	
Lulu E. Gibson.....	do	Sept. 1, 1896	600	370.99	
Anna M. Harney.....	do	Sept. 26, 1898	600	387.35	
Margaret Hogan.....	do	June 16, 1893	600	473.59	
Stella Huestis.....	do	Dec. 20, 1897	600	478.73	
Ella Knissau.....	do	June 16, 1893	600	483.49	
M. E. Kilbourne.....	do	Aug. 20, 1897	600	540.66	
Daisy C. Maus.....	do	Sept. 26, 1898	600	370.79	
Gertrude McCulloch.....	do	Aug. 20, 1897	600	478.52	
Mary H. Milton.....	do	Feb. 10, 1898	600	470.15	
Mary E. Price.....	do	Sept. 1, 1897	600	485.27	
Fannie Sage.....	do	Aug. 20, 1897	600	450.27	
Corra A. Sayre.....	do	Jan. 5, 1895	600	512.69	
Lizzie Spencer.....	do	Aug. 20, 1897	600	475.30	
Fleta Thompson.....	do	Feb. 10, 1898	600	486.86	
Helen S. Wainright.....	do	May 22, 1893	600	342.38	
Mary E. Williams.....	do	Sept. 1, 1897	600	401.44	
Louisa E. Wilson.....	do	Oct. 25, 1897	600	197.36	
Namite L. Vaughan.....	do	Aug. 17, 1897	600	451.97	
Don C. Ayer.....	Laborer	Dec. 1, 1897	600	265.00	
Geo. S. Hickox.....	do			14.64	
Packers' National Bank.....	do			3.00	
Frontier Steam Laundry.....	do			300.00	
Omaha Steam Laundry.....	do			19.52	
South Omaha Ice Co.....	do			38.47	
Freeman Bros.....	do			14.45	
L. Berger.....	do			2.90	
South Omaha Water Works Co.....	do			6.45	
Ether & Sons.....	do			3.00	
J. S. Ford, Johnson & Co.....	do			8.65	
Smith & Hastings.....	do			72.50	
E. J. Seykora & Co.....	do			2.75	
Squires & Smith.....	do			1.00	
Sioux City and Pacific R.R. Co.....	do			35.00	
					\$8.15

1 Per month.

Office expenses.....
 Street-car fares.....
 Rent.....
 Towel service.....
 do.....
 Ice.....
 Gasoline and matches.....
 Hauling discs and furniture.....
 Electric current.....
 Gasoline, matches and brooms.....
 Cane chairs.....
 Sewers, nails, and bits.....
 Inks.....
 Refrigerator.....
 Transportation, M. A. Atwood.....

Disbursements from the appropriation for salaries and expenses, Bureau of Animal Industry, for the fiscal year ended June 30, 1899—Continued.

SALARIES AND EXPENSES—Continued.

Name.	Designation.	Appointed.	Services ended.	Compensation.		Disbursements.			Miscellaneous.
				Per diem.	Per annum.	Miscellaneous items.	Salaries.	Traveling.	
MEAT INSPECTION—continued.									
<i>New York, N. Y.</i>									
E. Balzer.....	Microscopist.....	Mar. 18, 1899			\$1,200		\$246.67	\$23.93	
A. H. Richards.....	Assistant microscopist.....	Mar. 1, 1895			600		190.00	25.25	
Eugenie Uhrich.....	do	May 16, 1898			600		92.36		\$1.00
R. W. Hickman.....							Expressage on tin boxes.....		
<i>Buffalo, N. Y.</i>									
Louis K. Green.....	Assistant inspector.....	Oct. 1, 1896			1,200				
Thos. Casler.....	do	Apr. 1, 1897			1,200				
Wm. J. Carroll.....	Tagger.....	Apr. 16, 1894	June 17, 1899						
F. J. Danahy.....	do	May 1, 1893			720				
H. H. Hulbirt.....	do	July 20, 1898	June 24, 1899						
E. F. Slater, Jr.....	do	Dec. 7, 1896			720				
Jas. F. Hughes.....	Laborer.....	May 9, 1898			720				
Emma Becker.....	Assistant microscopist.....	Aug. 1, 1892			600				
M. A. Clinton.....	do	July 10, 1893			600				
Kate Colgan.....	do	Aug. 6, 1894			600				
Lillian E. Farrell.....	do	July 10, 1893			600				
Mary A. Hamrahan.....	do	Sept. 11, 1893			600				
Mary F. Lannon.....	do	do			600				
Lizzie Lidle.....	do	Aug. 1, 1892			600				
Pearl Masten.....	do	Dec. 15, 1892			600				
Anna L. Moran.....	do	Aug. 1, 1892			600				
Nellie Numan.....	do	July 10, 1893			600				
Johanna Greiner.....	Laborer.....	May 29, 1896			1,830.00				
N. P. Hunkley.....	do						Office expenses.....		32.51
C. H. Zink.....	do						do		1.76
International Office Toilet Supply Co.....	do						Towel supply.....		51.60
J. S. Ford, Johnson & Co.....	do						Cane chairs.....		24.17
<i>Boston, Mass.</i>									
Morris Wooden.....	Inspector.....	Apr. 1, 1898			1,400				987.73
Ulysses G. Houck.....	do	Mar. 10, 1899			1,400				435.56
Wm. P. Cherrington.....	Stock examiner.....	Dec. 1, 1894			900				897.57
Frank N. Brown.....	Tagger.....	Jan. 8, 1896			720				660.70

F. H. Burleigh	do	Sept. 28, 1891	720	720.00
Henry W. Busted	do	Feb. 1, 1896	720	720.00
Winfield E. Berry	do	June 1, 1899	720	34.00
A. C. Chapin	do	Feb. 14, 1899	720	272.00
Wm. J. Corbett	do	Feb. 1, 1896	720	298.00
Eva M. Chickering	Assistant microscopist	Nov. 24, 1896	600	572.11
Helen M. Colby	do	Apr. 11, 1898	600	580.27
Gerta M. Cogan	do	Apr. 1, 1894	600	550.82
Mary A. Constan	do	May 23, 1898	600	198.91
Mima M. Dean	do	Apr. 11, 1898	600	554.27
Elizabeth M. Driscoll	do	do	600	547.62
Lucilia M. Eaton	do	Feb. 1, 1898	600	810.87
G. H. Elison	do	Nov. 24, 1896	600	516.34
Carrie I. Ellsworth	do	Jan. 5, 1893	600	499.69
Emma H. Ellsworth	do	Feb. 1, 1894	600	519.39
Alice N. Foss	do	Apr. 11, 1898	600	568.94
Anna Erickson	do	July 16, 1893	600	418.73
Abbie F. Gage	do	Dec. 12, 1892	600	562.26
Violet A. Hall	do	Nov. 24, 1896	600	553.77
Carrie B. Hosler	do	Apr. 11, 1898	600	476.96
Sarah G. Kelley	do	do	600	522.79
Clara La Freniere	do	Nov. 1, 1893	600	6.52
Mary F. Langton	do	Sept. 28, 1891	600	519.46
Mabel F. Lowe	do	June 24, 1895	600	249.66
Mary E. Macloskey	do	May 1, 1894	600	473.81
Elizabeth B. Muncey	do	Feb. 1, 1898	600	512.62
Helien G. Nutter	do	Apr. 11, 1898	600	182.46
M. M. Sedgwick	do	Nov. 24, 1896	600	48.91
Cora L. Seeley	do	Dec. 26, 1892	600	588.88
Margaret V. Slater	do	Apr. 23, 1894	600	539.03
Annie C. Shepherd	do	Feb. 1, 1898	600	474.29
Eliza M. Taylor	do	Apr. 11, 1898	600	558.90
Florence I. Turner	do	Apr. 23, 1894	600	567.09
Ida J. Vance	do	Feb. 1, 1898	600	490.48
Carlotta L. Ward	do	May 1, 1894	600	372.79
Alice M. Watkeys	do	Apr. 11, 1898	600	570.29
Effie I. Wescott	do	do	600	580.27
Eftis L. Williams	do	do	600	529.68
J. W. Bush	do	Nov. 1, 1891	600	7.20
Bay State Clean Towel Fur-				126.61
ishing Co.				
<i>Cedar Rapids, Iowa.</i>				
Walter J. Stewart	Assistant inspector	June 15, 1896	1,200	1,064.51
D. N. Wheeler	Laborer	Mar. 10, 1898	720	716.66
do	Tagger	July 15, 1898	600	13.04
Mary E. Adams	Assistant microscopist	Feb. 16, 1898	600	249.75
Edith A. Bailey	do	do	600	254.78
Martha A. Brittan	do	do	600	233.34
Ursula P. Bryant	do	do	600	
			Straps for sample boxes	
			Towel service	

1 Per month.

Disbursements from the appropriation for salaries and expenses, Bureau of Animal Industry, for the fiscal year ended June 30, 1899—Continued.

SALARIES AND EXPENSES—Continued.

Name.	Designation.	Appointed.	Services ended.	Compensation.		Disbursements.		
				Per diem.	Per annum.	Miscellaneous items.	Salaries.	Traveling.	Miscellaneous.
MEAT INSPECTION—continued.								
<i>Cedar Rapids, Iowa—Cont'd.</i>								
Trescy Cowan	Assistant microscopist.	Feb. 16, 1898			\$600		\$254.78	
May M. Hardley	do	do			600		166.42	
C. M. Hopkins	do	do			600		228.38	
Isabel D. Knox	do	do			600		191.10	
Goldie B. Spalard	do	do			600		231.86	
Edith L. Wolf	do	do			600		236.71	
T. A. Shipley	do	do			600		Office expenses	\$98.07
<i>Cleveland, Ohio.</i>								
Frank Fila	Tagger	Sept. 25, 1893			720		720.00	
Jno. D. Shannon	do	Nov. 6, 1893			720		298.00	
Margaret Carroll	Assistant microscopist.	Oct. 22, 1894			600		112.41	
M. L. Corcoran	do	Dec. 15, 1897			600		305.48	
A. M. Daugherty	do	Oct. 22, 1894			600		364.28	
Mary English	do	July 1, 1893			600		344.83	
Mary Evans	do	Nov. 1, 1894			600		310.54	
Minnie Forsch	do	July 1, 1893			600		313.85	
Mary Reinhart	do	Sept. 1, 1893			600		361.03	
Isabella Lacey	do	Dec. 1, 1897			\$1 30.00		341.00	1.40
Edw. P. Schaffter	Laborer						For repairing lock boxes.	
<i>Cincinnati, Ohio.</i>								
Carrie Ehlers	Assistant microscopist.				600		585.00	
A. J. Payne	do						Office expenses.	2.17
<i>National Stock Yards, Ill.</i>								
Frank L. De Wolf	Assistant inspector	Sept. 16, 1895			1,200		1,200.00	
David C. Barnett	Tagger	Mar. 25, 1898			720		720.00	
E. S. Bennett	do	Feb. 15, 1895			720		712.00	
Jas. W. Chowning	do	Dec. 1, 1898			720		29.35	
Wm. J. Doyle	do	Feb. 15, 1895			720		391.30	
Geo. F. Harley	do	June 18, 1898			720		383.31	
Ada H. Baker	Assistant microscopist.	Mar. 10, 1898			600		393.79	
Inez J. Christie	do	Apr. 18, 1898			600		301.05	

Disbursements from the appropriation for salaries and expenses, Bureau of Animal Industry, for the fiscal year ended June 30, 1899—Continued.

SALARIES AND EXPENSES—Continued.

Name.	Designation.	Appointed.	Services ended.	Compensation.		Disbursements.			Miscellaneous.
				Per diem.	Per annum.	Miscellaneous items.	Salaries.	Traveling.	
MEAT INSPECTION—continued.									
<i>Milwaukee, Wis.—Continued.</i>									
Harry Booth									\$21.00
J. S. Ford, Johnson & Co.									62.83
<i>Indianapolis, Ind.</i>									
Robert Darling	Assistant inspector	Dec. 13, 1897			\$1,200				\$503.30
Thos. Castor	do	Apr. 1, 1897			1,200				411.51
Richard W. Tuck	do	Apr. 18, 1898			1,200				95.60
Matt. Quinn	Tagger	Apr. 16, 1893			720				298.00
Wm. A. Skinner	do	Nov. 18, 1895			600				102.82
Izetta A. Bell	Assistant microscopist	Dec. 15, 1898			600				283.20
Margaret Carroll	do	Oct. 22, 1894			600				310.88
Mary B. Clark	do	June 21, 1897			600				491.82
Margaret Clarke	do	Apr. 16, 1894			600				524.19
M. H. Dickinson	do	Feb. 1, 1898			600				488.74
Elsie E. Daugherty	do	do			600				509.95
Mary A. Egan	do	Oct. 1, 1894			600				540.50
Nellie Holland	do	Nov. 8, 1894			600				545.69
Eliz. S. Hurst	do	Dec. 7, 1896			600				537.44
Lizzie Keller	do	Aug. 20, 1897			600				508.36
Mary Lucid	do	Dec. 16, 1893			600				558.67
Nellie Lewis	do	Dec. 1, 1898			600				307.69
M. I. Metcalf	do	do			600				317.45
Katharine H. Mara	do	Dec. 10, 1896			600				158.11
Edna E. Mattox	do	do			600				61.91
Pearl C. Miles	do	Dec. 7, 1896	Oct. 24, 1898		600				565.30
Flora F. Miller	do	Oct. 6, 1896	Aug. 9, 1898		600				580.80
Mary E. Ritchie	do	Nov. 26, 1894			600				563.69
R. E. Robinson	do	Feb. 1, 1898			600				495.15
Ella A. Sullivan	do	Dec. 1, 1894			600				549.06
Daisy Stewart	do	Feb. 1, 1898			600				491.97
Wil. B. Tate	do	Oct. 9, 1896			600				562.14
Fumice D. Tremaine	do	May 1, 1898			600				200.50
Mary Morrison	Laborer	Dec. 1, 1897			1 \$30.00				360.00
Louis S. Dreyer	do	Oct. 10, 1898			2.00				194.00
Jos. Foppiano	do	Jan. 21, 1899			2.00				46.00
Burwell Goff	do	July 13, 1898			2.00				134.00
Thos. J. Turner	do	Apr. 30, 1898						Office expenses	45.35

H. F. Miller & Son.....	Sample boxes.....	86.25
Goes Lithographing Co.....	Export stamps.....	154.44
Miller Lock Co.....	Lock boxes.....	180.00
The Louis Hax Furniture Co.....	Tables.....	135.80
C. S. Braisted.....	Fenholders and pencils.....	28.44
Elmer H. Catlin & Co.....	Forceps and repairing.....	42.38
R. Carter Ballantyne.....	Box fasteners and pins.....	6.10
Chas. Truax Greene & Co.....	Dissecting forceps and setsorts.....	66.00
Goumpf & Thompson.....	Enameling microscope stands.....	5.25
Pearre E. Crowl & Co.....	Sponge rubber.....	4.08
Blue Line Transfer Co.....	Transportation lead disks.....	4.02
Goodrich Transportation Co.....	Freight on lead disks.....	75
Vandalia Line.....	Freight on checks and tag fasteners.....	6.86
Star Union Line.....	Freight on disks and tag fasteners.....	14.91
St. Louis, Keokuk and Northwestern R. R. Co.....	Freight on tables.....	4.04
Wabash R. R. Co.....	.....do.....	2.69
Chicago, Burlington and Quincy R. R. Co.....	.....do.....	26.94
Chicago, Rock Island and Pacific Rwy. Co.....	Freight on disks and boxes.....	4.63
Burlington and Missouri River R. R. in Nebraska.....	Freight on lock boxes.....	1.96
Missouri Pacific Rwy. Co.....	Freight on tables and disks.....	7.25
Chicago and Erie R. R. Co.....	Freight on disks.....	1.36
Chicago and Northwestern Rwy. Co.....	Freight on tables and boxes.....	8.55
Lake Shore and Michigan Southern Rwy. Co.....	Freight on tag fasteners.....	2.25
Union Pacific R. R. Co.....do.....	.50

1 Per month.

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