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United States Department of Agriculture,

DIVISION OF PUBLICATIONS—Circular 14.

JOS. A. ARNOLD, Editor and Chief.

WASHINGTON, D. C., *September 19, 1912.*

PUBLICATIONS OF THE BUREAU OF SOILS.

NOTE.—Application for publications in this list should be made to the Editor and Chief of the Division of Publications, United States Department of Agriculture, Washington, D. C. The editions of some of the publications are necessarily limited, and when the supply is exhausted and no funds are available for procuring additional copies, applicants are referred to the Superintendent of Documents, Government Printing Office, who has them for sale at a nominal price, under the law of January 12, 1895. Applicants are urgently requested to ask only for those publications in which they are particularly interested. The department can not undertake to supply complete sets, nor is it allowable to send more than one copy of any publication to an applicant.

REPORTS.

Report of the Chief for 1896.

Same, 1897.	Same, 1900.	Same, 1904.
Same, 1898.	Same, 1901.	Same, 1906.
Same, 1899.		

REPORTS OF FIELD OPERATIONS.

Field Operations of the Bureau of Soils, First Report, 1899.

Same, Second Report, 1900.	Same, Sixth Report, 1904.
Same, Third Report, 1901.	Same, Seventh Report, 1905.
Same, Fourth Report, 1902.	Same, Ninth Report, 1907.
Same, Fifth Report, 1903.	Same, Eleventh Report, 1909.

BULLETINS.

[In applying for these bulletins the name of the bureau, as well as the number of the bulletin, should be given, as "Bureau of Soils, Bulletin No. 2."]

- Bul. 2. Soil Moisture. A Record of the Amount of Water Contained in Soils During the Month of June, 1895.
14. The Alkali Soils of the Yellowstone Valley, from a Preliminary Investigation of the Soils near Billings, Mont.
27. Experiments in Growing Cuban Seed Tobacco in Texas.
28. Studies on the Properties of a Sterile Soil.
29. Tobacco Investigations in Ohio.
31. Colorimetric, Turbidity, and Titration Methods Used in Soil Investigations.
34. Reclamation of Alkali Soils.

- Bul. 37. Experiments in Growing Cuban Seed Tobacco in Alabama.
44. Reclamation of Alkali Soils at Billings, Mont.
46. Improvement of Virginia Fire-Cured Tobacco.
50. Moisture Content and Physical Condition of Soils.
51. Absorption of Vapors and Gases by Soils.
52. Absorption by Soils.
54. The Mineral Composition of Soil Particles.
55. Soils of the United States, Based upon the Work of the Bureau of Soils to January, 1908. Part I, Results of Recent Soil Investigations. Part II, Classification of the Soils of the United States.
58. The Composition of Commercial Fertilizers.
59. Heat Transference in Soils.
62. Fertilizers for Cotton Soils.
63. Reference List on the Electric Fixation of Atmospheric Nitrogen and the Use of Calcium Cyanamid and Calcium Nitrate on Soils.
66. Fertilizers for Wheat Soils.
67. Fertilizers on Soils Used for Oats, Hay, and Miscellaneous Crops.
68. The Movement of Soil Material by the Wind.
70. Some Effects of a Harmful Organic Soil Constituent.
71. Soil Erosion.
73. Studies in Soil Oxidation.
74. Chemical Nature of Soil Organic Matter.
75. Lawn Soils.
76. A Review of the Phosphate Fields of Florida.
77. Organic Compounds and Fertilizer Action.
81. A Report on the Natural Phosphates of Tennessee, Kentucky, and Arkansas.
82. The Effect of Soluble Salts on the Physical Properties of Soils.
83. A Beneficial Organic Constituent of Soils: Creatinine. Introduction: Importance of Beneficial Soil Constituents. I. The Isolation of Creatinine from Soils. II. The Origin of Creatinine in Soils. III. Effects of Creatinine on Growth and Absorption.
84. Modification of the Methods of Mechanical Soil Analysis.

CIRCULARS.

[In applying for these circulars, the name of the bureau, as well as the number of the circular, should be given, as "Bureau of Soils, Circular No. 10."]

- Circ. 10. The Use of Alkaline Waters for Irrigation.
12. Reclamation of Alkali Land near Salt Lake City, Utah.
15. Manurial Requirements of the Leonardtown Loam Soil of St. Mary County, Maryland.
16. Manurial Requirements of the Cecil Silt Loam of Lancaster County, S. C.
17. Manurial Requirements of the Portsmouth Sandy Loam of the Darlington Area, South Carolina.
18. The Wire Basket Method of Determining the Manurial Requirements of Soils.
19. Soils in the Vicinity of Savannah, Ga.: A Preliminary Report.
20. Soils of Pender County, N. C.: A Preliminary Report.
22. Soils of the Eastern United States and Their Use—I. Norfolk Fine Sandy Loam.
23. Same, II. Norfolk Fine Sand.

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- Circ. 24. Same, III. Portsmouth Sandy Loam.
 25. Same, IV. Sassafras Silt Loam.
 26. Examination of Soil Samples.
 27. Soils of the Eastern United States and Their Use—V. Cecil Sandy Loam.
 28. Same, VI. Cecil Clay.
 29. Same, VII. Hagerstown Loam.
 30. Same, VIII. Clarksville Silt Loam.
 31. Same, IX. Miami Clay Loam.
 32. Same, X. Marshall Silt Loam.
 33. Same, XI. Knox Silt Loam.
 34. Same, XII. Carrington Loam.
 35. Same, XIII. Memphis Silt Loam.
 36. Same, XIV. Fargo Clay Loam.
 37. Same, XV. Clyde Loam.
 38. Same, XVI. Dekalb Silt Loam.
 39. Same, XVII. Porters Loam and Porters Black Loam.
 40. Same, XVIII. Wabash Silt Loam.
 41. Same, XIX. Wabash Clay.
 42. Same, XX. Trinity Clay.
 44. Same, XXI. Norfolk Sand.
 45. Same, XXII. Norfolk Sandy Loam.
 46. Same, XXIII. Orangeburg Fine Sandy Loam.
 49. Same, XXVI. Houston Clay.
 50. Same, XXVII. Houston Black Clay.
 51. Same, XXVIII. Susquehanna Fine Sandy Loam.
 52. Soils of the San Luis Valley, Colorado.
 53. Soils of the Shenandoah River Terrace: A Revision of Certain Soils in the Albemarle Area, Virginia.
 54. Soils of the Eastern United States and Their Use—XXIX. The Crowley Silt Loam.
 55. Same, XXX. The Chester Loam.
 56. Same, XXXI. The Penn Loam.
 57. Same, XXXII. The Carrington Silt Loam.
 58. Same, XXXIII. The Carrington Clay Loam.
 59. Same, XXXIV. The Marion Silt Loam.
 60. Same, XXXV. The Volusia Loam.
 61. An Investigation of the Otero Basin, N. Mex., for Potash Salts.
 62. Report of a Reconnoissance of the Lyon Prospect, near Queen, N. Mex.
 63. Soils of the Eastern United States and Their Use—XXXVI. The Volusia Silt Loam.
 64. Same, XXXVII. The Hagerstown Clay.
 65. Same, XXXVIII. Muck and Peat.
 66. City Street Sweepings as a Fertilizer.
 67. Sponge Spicules in Swamp Soils.
 68. Soils of the Eastern United States and Their Use—XXXIX. Meadow.
 69. Same, XL. Marsh and Swamp.
 70. Alunite as a Source of Potash.
 71. The Extraction of Potash from Silicate Rocks.

MISCELLANEOUS.

Soils of the Glacial and Loessial Province. (Reprint from Soils Bulletin 78.)
 Descriptions of Soil Types Established and Changes in Classifications Since the Publication of Bulletin 78.

FARMERS' BULLETINS.

[The Farmers' Bulletins are a series of popular treatises issued by the Department of Agriculture. The following list includes only numbers contributed by the Bureau of Soils. They should be applied for by number, as "Farmers' Bulletin No. 88."]

F. B. 88. Alkali Lands.

- 257. Soil Fertility.
- 266. Management of Soils to Conserve Moisture.
- 406. Soil Conservation.
- 421. The Control of Blowing Soils.
- 494. Lawns and Lawn Soils.

SEPARATE REPRINTS FROM THE YEARBOOK.

[In applying for these publications the number of the separate should be given, as "Yearbook Separate No. 27."]

Ybk. Sep. 27. Tobacco Soils of Connecticut and Pennsylvania.

- 28. Truck Lands of the Atlantic Seaboard.
- 29. Conditions in Soils of the Arid Region.
- 188. Growth of the Tobacco Industry.
- 211. The World's Exhibit of Leaf Tobacco at the Paris Exposition of 1900.
- 378. Dark Fire-Cured Tobacco of Virginia and the Possibilities for its Improvement.
- 516. Agriculture in the Coal Regions of Southwestern Pennsylvania.
- 526. The Agricultural Duty of Water.
- 563. Important American Soils.
- 585. Subsoil Water of Central United States.

SOIL SURVEYS.

[In requesting these publications the full title should be given, as "Soil Survey, Autauga County, Ala., 1908."]

ALABAMA.

- 1908. Autauga County.
- 1908. Bibb County.
- 1905. Blount County.
- 1908. Calhoun County.
- 1909. Chambers County.
- 1909. Coffee County.
- 1908. Colbert County.
- 1908. Cullman County.
- 1910. Dale County.
- 1908. Etowah County.
- 1903. Fort Payne area (parts of Dekalb and Cherokee Counties).
- 1909. Hale County.
- 1908. Henry County.
- 1908. Jefferson County.
- 1908. Lamar County.
- 1905. Lauderdale County.
- 1906. Lee County.
- 1904. Macon County.
- 1907. Marion County.
- 1911. Mobile County.
- 1905. Montgomery County.
- 1910. Pike County.
- 1911. Randolph County.
- 1907. Talladega County.
- 1909. Tallapoosa County.

ARIZONA.

- 1903. Solomonville area (part of Graham County).
- 1902. Yuma area (parts of Yuma County).

ARKANSAS.

- 1907. Conway County.
- 1903. Miller County.
- 1906. Prairie County.

CALIFORNIA.

- 1907. Butte Valley soils (part of Siskiyou County).
- 1910. Livermore Valley (parts of Contra Costa and Alameda Counties).
- 1910. Madera area (part of Madera County).
- 1908. Pajaro Valley area (parts of Monterey and Santa Cruz Counties).
- 1907. Redding area (part of Shasta County).
- 1910. Red Bluff area (parts of Tehama and Butte Counties).

COLORADO.

- 1910. Uncompahgre Valley (parts of Delta and Montrose Counties).

SOIL SURVEYS—Continued.

DELAWARE.

1903. Dover area (part of Kent County).

FLORIDA.

1904. Gainesville area (parts of Alachua, Levy, and Marion Counties).

GEORGIA.

1904. Bainbridge area (part of Decatur County).

1911. Chatham County.

1901. Cobb County.

1911. Columbia County.

1901. Covington area (parts of Jasper, Newton, Walton, Morgan, and Rockdale Counties).

1904. Dodge County.

1903. Fort Valley area (parts of Macon and Houston Counties).

1909. Franklin County.

1911. Glynn County.

1908. Grady County.

1909. Hancock County.

1909. Pike County.

1905. Spalding County.

1910. Sumter County.

1908. Thomas County.

1909. Tift County.

1910. Walker County.

1906. Waycross area (part of Ware County).

IDAHO.

1901. Boise area (parts of Ada and Canyon Counties).

1907. Minidoka area (parts of Lincoln and Cassia Counties).

ILLINOIS.

1902. Clay County.

1902. Dubuque area, Iowa (part of Jo Daviess County, Ill.).

1903. Johnson County.

1903. Knox County.

1904. O'Fallon area, Missouri (part of Calhoun County, Ill.).

1903. Sangamon County.

1902. St. Clair County.

1903. Winnebago County.

INDIANA.

1908. Allen County.

1904. Boonville area (parts of Warrick and Spencer Counties).

1906. Greene County.)

1903. Madison County.

1907. Marion County.

1904. Marshall County.

1905. Newton County.

1902. Posey County.

1904. Scott County.

IOWA.

1903. Cerro Gordo County.

1902. Dubuque area (parts of Dubuque, Jackson, and Jones Counties, Iowa, and Jo Daviess County, Ill.).

1903. Story County.

1904. Tama County.

KANSAS.

1904. Allen County.

1905. Brown County.

1904. Garden City area (parts of Finney and Gray Counties).

1903. Parsons area (parts of Labette and Cherokee Counties).

1906. Riley County.

1903. Russell area (part of Russell County).

1902. Wichita area (parts of Sedgwick and Butler Counties).

KENTUCKY.

1905. McCracken County.

1905. Madison County.

1903. Mason County.

1910. Rockcastle County.

1903. Scott County.

1902. Union County.

1904. Warren County.

LOUISIANA.

1908. Bienville Parish.

1910. Concordia Parish.

1908. East and West Carroll Parishes.

1905. East Baton Rouge Parish.

1911. Iberia Parish.

1909. Lincoln Parish.

1907. Winn Parish.

MAINE.

1908. Caribou area (part of Aroostook County).

1909. Orono area (part of Penobscot County).

MARYLAND.

1909. Anne Arundel County.

1907. Easton area (Queen Anne, Talbot, and Caroline Counties).

1901. Harford County.

MICHIGAN.

1904. Alma area (part of Gratiot County).

1906. Cass County.

1904. Owosso area (part of Shiawassee County).

1905. Oxford area (part of Oakland County).

1903. Pontiac area (part of Oakland County).

SOIL SURVEYS—Continued.

MICHIGAN—continued.

1904. Saginaw area (parts of Saginaw, Bay, Tuscola, and Huron Counties).
 1902. Toledo area, Ohio (part of Monroe County, Mich.).
 1908. Wexford County.

MINNESOTA.

1906. Blue Earth County.
 1905. Carlton area (parts of Carlton and St. Louis Counties, Minn., and Douglas County, Wis.)
 1906. Crookston area (part of Polk County).
 1903. Marshall area (part of Lyons County).
 1909. Rice County.

MISSISSIPPI.

1910. Adams County.
 1909. Clay County.
 1905. Crystalsprings area (parts of Simpson and Copiah Counties).
 1911. Forrest County.
 1908. Holmes County.
 1904. Jackson area (parts of Hinds and Rankin Counties).
 1907. Jasper County.
 1910. Lauderdale County.
 1903. McNeill area (parts of Pearl River and Hancock Counties).
 1908. Monroe County.
 1906. Montgomery County.
 1910. Noxubee County.
 1907. Oktibbeha County.
 1906. Pontotoc County.
 1907. Prentiss County.
 1902. Smedes area (parts of Yazoo, Madison, Issaquena, and Sharkey Counties).

MISSOURI.

1909. Atchison County.
 1908. Bates County.
 1910. Cape Girardeau County.
 1909. Cedar County.
 1909. Cooper County.
 1905. Crawford County.
 1910. Jackson County.
 1910. Marion County.
 1904. O'Fallon area (parts of Lincoln, St. Charles, and St. Louis Counties, Mo., and Calhoun County, Ill.).
 1910. Pemiscot County.
 1906. Putnam County.
 1905. Scotland County.
 1903. Shelby County.

MONTANA.

1902. Billings area (part of Yellowstone County).

NEBRASKA.

1903. Grand Island area (parts of Hall, Buffalo, and Hamilton Counties).

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NEBRASKA—continued.

1904. Kearney area (parts of Dawson, Buffalo, Phelps, Kearney, and Gosper Counties).
 1906. Lancaster County.
 1907. North Platte area (part of Lincoln County).
 1905. Sarpy County.
 1903. Stanton area (parts of Pierce, Wayne, Madison, and Stanton Counties).

NEVADA.

1909. Fallon area (parts of Lyon, Washoe, and Churchill Counties).

NEW HAMPSHIRE.

1906. Merrimack County.
 1909. Nashua area (part of Hillsboro County).

NEW YORK.

1910. Monroe County.
 1908. Montgomery County.
 1910. Ontario County.
 1904. Vergennes area, Vermont (part of Essex County, N. Y.).
 1909. Washington County.
 1901. Westfield area (part of Chautauqua County).

NORTH CAROLINA.

1901. Alamance County.
 1910. Cabarrus County.
 1908. Caswell County.
 1906. Chowan County.
 1907. Edgecombe County.
 1909. Gaston County.
 1910. Granville County.
 1904. Greeneville area, Tennessee (part of Madison County, N. C.).
 1907. Henderson County.
 1909. Lake Mattamuskeet area (part of Hyde County).
 1910. Mecklenburg County.
 1909. Pitt County.
 1900. Raleigh to Newbern (parts of Craven, Jones, Wake, Johnston, Wayne, Greene, and Lenoir Counties).
 1908. Robeson County.
 1909. Scotland County.
 1906. Transylvania County.

NORTH DAKOTA.

1905. Carrington area (parts of Foster and Griggs Counties).
 1907. McKenzie area (part of McKenzie County).
 1907. Morton area (parts of Morton, Hettinger, and Adams Counties).
 1906. Ransom County.

SOIL SURVEYS—Continued.

OHIO.

1903. Ashtabula area (part of Ashtabula County).
 1909. Auglaize County.
 1905. Cleveland area (parts of Lorain, Summit, Cuyahoga, and Medina Counties).
 1902. Columbus area (parts of Franklin, Pickaway, Licking, Madison, and Fairfield Counties).
 1904. Coshocton County.
 1906. Meigs County.
 1900. Montgomery County.
 1902. Toledo area (parts of Lucas, Wood, and Ottawa Counties, Ohio, and Monroe County, Mich.).
 1905. Westerville area (parts of Delaware, Franklin, Licking, Madison, and Union Counties).
 1904. Wooster area (parts of Wayne, Stark, and Summit Counties).

OREGON.

1903. Baker City area (part of Baker County).
 1909. Marshfield area (parts of Coos and Curry Counties).

PENNSYLVANIA.

1904. Adams County.
 1909. Berks County.
 1908. Center County.
 1910. Erie County.
 1907. Johnstown area (parts of Cambria, Blair, and Bedford Counties).
 1900. Lancaster area (part of Lancaster County).
 1901. Lebanon area (parts of Lancaster, Lebanon, and Dauphin Counties).
 1903. Lockhaven area (part of Clinton County).
 1910. Washington County.

PORTO RICO.

1902. Arecibo to Ponce.

SOUTH CAROLINA.

1902. Abbeville area (parts of Abbeville, Anderson, Greenwood, and Laurens Counties).
 1909. Anderson County.
 1903. Campobello area (parts of Greenville and Spartanburg Counties).
 1904. Charleston area (parts of Charleston and Colleton Counties).
 1905. Cherokee County.
 1910. Clarendon County.
 1909. Conway area (part of Horry County).
 1902. Darlington area (Darlington County and part of Lee County).
 1911. Georgetown County.
 1904. Lancaster County.

SOUTH CAROLINA—continued.

1907. Lee County.
 1907. Oconee County.
 1904. Orangeburg area (part of Orangeburg County).
 1909. Saluda County.
 1907. Sumter County.
 1905. York County.

SOUTH DAKOTA.

1903. Brookings area (part of Brookings County).

TENNESSEE.

1908. Coffee County.
 1903. Davidson County.
 1907. Giles County.
 1906. Grainger County.
 1904. Greeneville area (parts of Greene, Hawkins, Cocke, and Sullivan Counties, Tenn., and Madison County, N. C.).
 1905. Henderson County.
 1904. Lawrence County.
 1906. Madison County.
 1908. Overton County.
 1903. Pikeville area (parts of Van Buren, Bledsoe, Rhea, and Cumberland Counties).
 1909. Sumner County.

TEXAS.

1907. Bastrop County.
 1908. Camp County.
 1907. Cooper area (Delta and part of Lamar Counties).
 1910. Ellis County.
 1908. Franklin County.
 1909. Grayson County.
 1906. Henderson area (part of Rusk County).
 1905. Lee County.
 1909. Morris County.
 1907. Robertson County.
 1906. San Marcos area (parts of Hays, Guadalupe, Caldwell, and Bastrop Counties).
 1909. Titus County.
 1905. Waco area (parts of Bosque and McLennan Counties).
 1907. Wilson County.
 1903. Woodville area (part of Tyler County).

UTAH.

1904. Bear River area (part of Boxelder County).
 1903. Provo area (part of Utah County).

VERMONT.

1904. Vergennes area (part of Addison County, Vt., and Essex County, N. Y.).

SOIL SURVEYS—Continued.

VIRGINIA.

1909. Campbell County.
 1906. Chesterfield County.
 1905. Hanover County.
 1905. Louisa County.
 1907. Montgomery County.

WASHINGTON.

1905. Island County.

WEST VIRGINIA.

1910. Clarksburg area (Harrison and Doddridge Counties).
 1907. Middlebourne area (Marshall, Tyler, and Wetzel Counties).
 1908. Parkersburg area (Wood, Pleasants, and Ritchie Counties).
 1910. Point Pleasant area (Jackson, Mason, and Putnam Counties).
 1909. Spencer area (Wirt, Calhoun, and Roane Counties).
 1905. Upshur County.

WEST VIRGINIA—continued.

1906. Wheeling area (all of Ohio, Brooke, and Hancock Counties and part of Marshall County).

WISCONSIN.

1910. Bayfield area (part of Bayfield County).
 1905. Carlton area, Minnesota (part of Douglas County, Wis.)
 1910. Iowa County.
 1905. Portage County.
 1906. Racine County.
 1903. Viroqua area (parts of Monroe and Vernon Counties).
 1910. Waukesha County.
 1909. Waushara County.

WYOMING.

1903. Laramie area (part of Albany County).

RECONNOISSANCE SURVEYS.

1910. Western Kansas (Barber, Barton, Cheyenne, Clark, Comanche, Decatur, Edwards, Ellis, Finney, Ford, Gove, Graham, Grant, Gray, Greeley, Hamilton, Haskell, Hodgeman, Kearny, Kiowa, Lane, Logan, Meade, Morton, Ness, Norton, Osborne, Pawnee, Phillips, Pratt, Rawlins, Rooks, Rush, Russell, Scott, Seward, Sheridan, Sherman, Smith, Stafford, Stanton, Stevens, Thomas, Trego, Wallace, and Wichita Counties).
 1908. Western North Dakota (Adams, Billings, Bottineau, Bowman, Burleigh, Dunn, Emmons, Hettinger, McHenry, McKenzie, McLean, Mercer, Morton, Oliver, Stark, Ward, and Williams Counties).
 1910. South-Central Pennsylvania (Adams, Bedford, Blair, Cambria, Center, Clearfield, Cumberland, Franklin, Fulton, Huntingdon, Juniata, Mifflin, Perry, Snyder, Somerset, and Union Counties).
 1909. Southwestern Pennsylvania (Allegheny, Armstrong, Beaver, Butler, Cambria, Clarion, Fayette, Greene, Indiana, Jefferson, Somerset, Washington, and Westmoreland Counties).
 1910. Puget Sound Basin, Western Part, Washington (Island, Kitsap, San Juan, and Thurston Counties, and parts of Chehalis, Clallam, Jefferson, Lewis, Mason, and Pierce Counties).
 1909. Wisconsin (Marinette County).

Approved:

JAMES WILSON,
Secretary of Agriculture.

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