

# EXPENDITURES FOR TRAVEL

FROM WASHINGTON TO POINTS OUTSIDE  
OF THE DISTRICT OF COLUMBIA

PERFORMED BY CERTAIN OFFICERS  
AND EMPLOYEES OF THE

DEPARTMENT OF AGRICULTURE

DURING THE FISCAL YEAR  
ENDED JUNE 30  
1912

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Prepared under the direction of the Secretary of Agriculture

BY A. ZAPPONE

*Chief of the Division of Accounts  
and Disbursements*



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## LETTER OF TRANSMITTAL.

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DEPARTMENT OF AGRICULTURE,  
OFFICE OF THE SECRETARY,  
*Washington, December 2, 1912.*

SIR: As required by the act approved May 22, 1908 (35 Stat. L., 244), I have the honor to transmit herewith a statement showing in detail the travel, from Washington to points outside of the District of Columbia, performed by officers and employees (other than special agents, inspectors, and employees who in the discharge of their regular duties are required to constantly travel) of the Department of Agriculture during the fiscal year 1912.

A copy of this report has also been transmitted to the President of the Senate.

Very respectfully,

JAMES WILSON,  
*Secretary.*

THE SPEAKER OF THE HOUSE OF REPRESENTATIVES.

Statement showing the names of officers or employees (other than special agents, inspectors, or employees who in the discharge of their regular duties are required to constantly travel) who traveled on official business from Washington to points outside the District of Columbia during the fiscal year 1912, together with their official titles, destination or destinations of such travel, the business or work on account of which the same was made, and the total expense to the United States charged in each case. (35 Stat. L., p. 244.)

## OFFICE OF THE SECRETARY.

Name.	Title.	Destination.	Business or work.	Total expense.	Appropriation.
Augusterfer, A.....	Mechanic.....	Beltsville, Md. (Sept. 3, 25, Oct. 15, 27, 30, and Nov. 1, 1911.)	To supervise electrical construction.....	\$1.80	General expenses, B. A. I., 1912 (dairy industry).
Do.....	do.....	Athenia, N. J. (Dec. 11-12, 1911)....	To install electric switchboard at bureau's quarantine station.	1.80	General expenses, B. A. I., 1912 (animal husbandry).
Do.....	do.....	Beltsville, Md. (13 trips, Feb. 14-26, 1912.)	To supervise electrical construction.....	20.95	General expenses, B. A. I., 1912 (inspection and quarantine).
Do.....	do.....	Athenia, N. J. (Mar. 12-16, 1912)....	To install electric switchboard at bureau's quarantine station.	7.80	General expenses, B. A. I., 1912 (dairy industry).
Do.....	do.....	Beltsville, Md. (June 4 and 5, 1912)....	To repair electrical equipment.....	25.70	General expenses, B. A. I., 1912 (inspection and quarantine).
Boyle, C. W.....	Law clerk.....	Towson, Md. (July 5, 1911).....	To attend to legal matters in connection with the purchase of land for bureau quarantine station.	1.20	General expenses, B. A. I., 1912 (dairy industry).
Do.....	do.....	Boston, Mass. (Aug. 21-22, 1911).....	do.....	4.35	General expenses, B. A. I., 1912 (administrative expenses).
Do.....	do.....	Utica, N. Y. (Jan. 15-18, 1912).....	To assist United States attorney in preparation of cases under the meat-inspection law.	33.15	Do.
Do.....	do.....	Pittsburgh, Pa. (Mar. 29-31, 1912)....	To take testimony relative to withdrawal of inspection from establishment No. 367.	42.20	Meat inspection, B. A. I., 1912.
Cronin, P. D.....	do.....	Boston, Mass. (July 13-16, 1911).....	To investigate the facts in connection with case before the department.	22.60	Do.
Do.....	do.....	Boston, Mass., and Eastport, Me. (Apr. 16-May 2, 1912.)	To assist United States attorney in taking depositions in case of U. S. v. 1938 Cases of Sardines.	31.85	General expenses, Bureau of Chemistry, 1912 (laboratory miscellaneous expenses).
Fitts, H. F.....	Clerk.....	Buffalo, N. Y. (Dec. 11-15, 1911).....	To confer with United States attorney regarding violations of 28-hour law.	91.55	Enforcement of the food and drugs act, 1912.
Gates, O. H.....	Law clerk.....	Charlotte, N. C. (Mar. 31-Apr. 4, 1912)...	To assist United States attorney in preparation and prosecution of case under quarantine law of Mar. 3, 1905.	24.41	General expenses, B. A. I., 1912 (administrative expenses).
				41.85	Do.

Goding, H.....	Clerk.....	Buffalo, N. Y. (May 5-June 9, 1912)...	To assist inspector in charge, Bureau of Animal Industry, in reporting alleged violations of the 23-hour law.	87.42	Do.
Hays, W. M.....	Assistant Secretary of Agriculture.	Burlington, Vt. (July 1-2, 1912).....	To deliver address on agriculture at Burlington and to visit Morgan horse farm at Middlebury, Vt. (Travel begun in fiscal year 1911.)	22.53	Contingent expenses, Department of Agriculture, 1912.
Do.....	do.....	Greensboro, N. C. (Aug. 23-25, 1911)...	To deliver address on agricultural advancement to farmers' county convention.	21.95	Do.
Do.....	do.....	Lumberton, N. C. (Nov. 9-11, 1911)...	To deliver address on agriculture before the farmers' union at Lumberton, N. C.	24.45	Do.
Do.....	do.....	Columbus, Chicago, Monmouth, Lincoln, Denver, Colorado Springs, Des Moines, Minneapolis, St. Louis, Shreveport. (Oct. 12-Nov. 4, 1911.)	To deliver address at Dry Land Congress, Denver; address on cooperation before Right Relationship League, Minneapolis, Minn.; address at State fair, Shreveport, La.; address at agricultural convention, Chicago; and addresses on agriculture at intermediate points.	278.58	Do.
Do.....	do.....	Columbus, Ohio. (Nov. 13-17, 1911)...	To attend and address the American Association of Agricultural Colleges and Experiment Stations and various other agricultural associations.	51.20	Do.
Do.....	do.....	New York, N. Y. (Nov. 22-24, 1911)...	To address conference on agriculture.....	26.40	Do.
Do.....	do.....	Baltimore, Md. (Dec. 6, 1911).....	To address the Agricultural Society on Agriculture.	3.75	Do.
Do.....	do.....	New York, N. Y. (Jan. 10-13, 1912)...	To address National League of Commission Merchants and students of the University of the City of New York.	27.55	Do.
Horrigan, J. B.....	Law clerk.....	New York, N. Y. (Dec. 10-12, 1911)...	To assist United States attorney in taking depositions in the case of U. S. v. 5 Cases of Holland Gin.	30.65	Enforcement of the food and drugs act, 1912.
Do.....	do.....	St. Louis, Mo.; Chicago, Ill.; Cincinnati and Cleveland, Ohio; Pittsburgh, Pa. (Jan. 17-25, 1912.)	.....do.....	100.45	Do.
Do.....	do.....	New York, N. Y. (May 22-26, 1912)...	.....do.....	27.70	Do.
Jones, Lewis.....	Chief engineer and captain of the watch.	Wellsville, N. Y., and Ampere, N. J. (Apr. 19-25, 1912.)	To witness efficiency tests on turbo-generator sets manufactured by firms at Wellsville and Ampere, preliminary to inviting bids for furnishing same.	39.95	Contingent expenses, Department of Agriculture, 1912.
Jones, W. P.....	Law clerk.....	Pittsburgh, Pa. (Oct. 10-11, 1911)...	To assist United States attorney in preparation and prosecution of cases under the food and drugs act.	24.10	Enforcement of the food and drugs act, 1912.
Do.....	do.....	Pittsburgh, Pa. (Oct. 20-26, 1911.) (Two trips.)	.....do.....	53.90	Do.
Do.....	do.....	New York, N. Y.; Hartford, Conn.; Providence, R. I.; and Boston, Mass. (Nov. 7-16, 1911.)	.....do.....	59.43	Do.
Do.....	do.....	New York and Buffalo, N. Y.; Detroit, Mich.; Toledo, Ohio; Chicago, Ill. (June 1-9, 1912.)	.....do.....	92.65	Do.
Do.....	do.....	Lexington, Ky. (Apr. 18-20, 1912.)...	To confer with State officials regarding enforcement of State and national food and drug laws.	42.65	Do.

*Statement showing the names of officers or employees (other than special agents, inspectors, or employees who in the discharge of their regular duties are required to constantly travel) who traveled on official business from Washington to points outside the District of Columbia during the fiscal year 1912, etc.—Continued.*

## OFFICE OF THE SECRETARY—Continued.

Name.	Title.	Destination.	Business or work.	Total expense.	Appropriation.
Knorr, George W .....	Private secretary to Assistant Secretary of Agriculture.	Rockhill, S. C. (July 12-15, 1911.)...	To deliver address at conference on agriculture.	\$28.85	Contingent expenses, Department of Agriculture, 1912.
Do .....	do .....	Louisville, Ky. (Nov. 12-Dec. 10, 1911.)	To address the Greater Kentucky Convention, at Louisville, Ky., and to investigate teaching of agriculture.	59.44	Do.
Do .....	do .....	Gaithersburg, Md. (Sept. 21-22, 1911.)	To study farm management, public roads, orchards, and other farm subjects.	8.84	Do.
Lanier, Alex. S. ....	Law clerk .....	Richmond, Va. (Feb. 24, 1912.) ....	To take station at Richmond, Va., to supervise the examinations and to make examinations of titles to lands proposed to be acquired under the Weeks law.	12.41	Acquisition of lands for protection of watersheds of navigable streams, 1912.
McCabe, Geo. P .....	Solicitor .....	Denver, Ogden, San Francisco; Portland, Oreg.; and Missoula, Mont. (Aug. 21-Oct. 1, 1911.)	To confer with the assistants to the Solicitor at the various Forest Service district headquarters.	282.60	General expenses, Forest Service, 1912 (general administration).
Do .....	do .....	Ogden, Utah. (June 25-30, 1912.) (Trip not completed in fiscal year.)	To take temporary charge of branch office of the Solicitor at Forest Service district headquarters.	85.98	Do.
McConville, A. H. ....	Law clerk .....	Richmond, Va., and points in North Carolina, Georgia, and Tennessee. (May 22-June 4, 1912.)	To confer with record examiners engaged in making examination of titles to lands proposed for purchase under the Weeks law.	108.63	Acquisition of lands for protection of watersheds of navigable streams, 1912.
Wilson, James .....	Secretary of Agriculture.	Cedar Rapids, Iowa. (Aug. 23-Sept. 9, 1911.)	To attend State fair .....	93.37	Contingent expenses, Department of Agriculture, 1912.
Do .....	do .....	Milwaukee, Wis. (Oct. 9-12, 1911) ...	To make opening address at the international dairy show at Milwaukee, Wis., Oct. 10, 1911.	55.75	Do.

## WEATHER BUREAU.

Cade, William R. ....	Clerk, class 1 .....	Columbus, Ohio; Chicago, Ill.; and Terre Haute, Ind. (Mar. 18-28, 1912.)	To perform special clerical and stenographic work.	\$101.30	General expenses, Weather Bureau, 1912.
Do .....	do .....	Terre Haute, Ind. (May 21-25, 1912) ..	To obtain plan of roof exposure for instruments at quarters selected for new Weather Bureau station.	60.25	Do.

Carroll, Daniel J.....	Chief clerk and executive assistant.	Atlantic City, N. J. (May 12-16, 1912.)	To conduct examination of a Weather Bureau employee.	24.75	Do.
Desmond, Leonard.....	Clerk.....	Mount Weather, Va. (July 26-Aug. 16, 1911.)	To perform temporary duty as assistant....	23.80	Do.
Francis, Fred L.....	Skilled mechanic.....	Atlantic City, N. J. (Oct. 11-15, 1911)	To inspect local display of weather maps....	26.25	Do.
Frankenfield, Harry C.....	Professor of meteorology.	Chicago, Ill. (July 11-Aug. 7, 1911)...	To assume temporary charge of station and to perform special forecast duty.	128.90	Do.
Do.....	do.....	Points in Rhode Island, Connecticut, New York, New Jersey, Delaware, and Pennsylvania. (Sept. 8-17, 1911.)	To inspect storm-warning stations and to study local conditions in connection with weather forecasting.	72.85	Do.
Do.....	do.....	Kansas City, Mo. (Sept. 23-29, 1911)...	To inspect adjacent river district and to attend meeting of the National Conservation Congress.	93.80	Do.
Do.....	do.....	Cincinnati, Ohio. (Feb. 7-11, 1912)....	To consult with local Weather Bureau official relative to river and flood work of his district.	47.90	Do.
Heiskell, Henry L.....	Marine meteorologist and chief of division.	Mount Weather, Va. (July 28, 1911)...	To inspect and condemn property at research observatory.	2.90	Do.
Hobbs, Hermann E.....	Clerk, class 3.....	New York, N. Y. (Nov. 16-20, 1911)...	To assist in installing glass weather map in the customhouse.	27.15	Do.
Johnson, Enoch G.....	Clerk, class 2.....	New York, N. Y. (July 10-Aug. 15, 1911.)	To perform temporary duty as assistant....	131.90	Do.
King, Thomas H.....	Assistant foreman of division.	New York, N. Y. (Aug. 21-22, 1911)...	To inspect lithographic stones prior to acceptance.	17.30	Do.
Do.....	do.....	New York, N. Y. (Feb. 14-17, 1912)....	do.....	16.35	Do.
Lazenby, Richard O.....	Clerk, class E.....	Baltimore, Md. (Dec. 27-28, 1911)....	To give instruction in the preparation of commercial weather-map plates.	3.00	Do.
McCartney, Bernard T.....	Engineer.....	Mount Weather, Va. (Mar. 11-12, 1912.)	To inspect heating plant at research observatory.	3.74	Do.
Maring, Delos T.....	Clerk, class 4.....	Pittsburgh, Pa.; Cleveland, Ohio; Kendallville, and Indianapolis, Ind.; and Columbus, Ohio. (Sept. 9-17, 1911.)	To inspect storm-warning towers and supplies under construction for the Weather Bureau at Kendallville and to install additional apparatus in weather kiosks at other places visited.	55.70	Do.
Marvin, Charles F.....	Professor of meteorology.	Middlebury, Vt., and points in New York, Pennsylvania, and Maryland. (July 13-26, 1911.)	To inspect river gauges and instrumental equipment of local Weather Bureau stations, and to consult with manufacturers of instruments and apparatus for the Weather Bureau.	49.00	Do.
Do.....	do.....	Baltimore, Md. (Mar. 8, 1912).....	To inspect special instrument shelter under construction for the Weather Bureau.	2.80	Do.
Moore, Willis L.....	Chief of bureau.....	New York and Binghamton, N. Y.; Chicago, Ill.; Devils Lake and Fargo, N. Dak.; Moorehead, St. Paul, and Minneapolis, Minn. (July 9-21, 1911.)	To make administrative inspections, address commercial bodies on Weather Bureau work, and to confer with local Weather Bureau officials.	131.00	Do.
Do.....	do.....	Birmingham, Ala., and Louisville, Ky. (Oct. 8-14, 1911.)	To make administrative inspections, address educational and commercial bodies on Weather Bureau work, and to confer with local Weather Bureau officials.	108.95	Do.

Statement showing the names of officers or employees (other than special agents, inspectors, or employees who in the discharge of their regular duties are required to constantly travel) who traveled on official business from Washington to points outside the District of Columbia during the fiscal year 1912, etc.—Continued.

## WEATHER BUREAU—Continued.

Name.	Title.	Destination.	Business or work.	Total expense.	Appropriation.
Moore, Willis L .....	Chief of bureau.....	Chicago, Ill.; Detroit, Mich.; and Pittsburgh, Pa. (Nov. 21-22 and 23-26, 1911.)	To make administrative inspections, address commercial bodies on Weather Bureau work, and to confer with local Weather Bureau officials.	\$60.45	General expenses, Weather Bureau, 1912.
Do.....	do.....	Baltimore, Md. (Dec. 7, 1911).....	To address a commercial body on Weather Bureau work.	5.00	Do.
Do.....	do.....	New York, N. Y. (Jan. 27-29, 1912)...	To attend meeting of the Aero Club of America and to confer with local Weather Bureau officials.	31.10	Do.
Do.....	do.....	Columbus, Ohio; Chicago, Ill.; Terre Haute and Brazil, Ind. (Mar. 18-24, 1912.)	To address educational and commercial bodies on Weather Bureau work, to inaugurate weather service in Terre Haute, Ind., and vicinity, and to confer with local Weather Bureau officials.	91.30	Do.
Do.....	do.....	England. (May 20-June 30, 1912).....	To visit London in the interest of the Weather Bureau, to attend the meetings of the International Meteorological Committee, and as a delegate to the International Radio-Telegraph Conference.	798.72	Do.
Moore, Theodore T .....	Chief of division.....	Norfolk, Va.: New Inlet, and points on Henry-Hatteras line. (Sept. 30-Oct. 11, 1911.)	To supervise laying of Weather Bureau telegraph cable across New Inlet and to inspect Weather Bureau seacoast telegraph line.	34.05	Do.
Do.....	do.....	New York, N. Y., and points in Rhode Island. (Jan. 17-24, 1912.)	To arrange for and supervise repairs to Weather Bureau telegraph cable between Block Island and mainland.	49.00	Do.
Smith, Herman W .....	Clerk, class 2.....	Cumberland, Md. (Dec. 13-14, 1911)...	To inspect special river station.....	13.54	Do.

## BUREAU OF ANIMAL INDUSTRY.

Abel, J.....	Clerk.....	Chicago, Ill. (Sept. 9-15, 1911).....	To make photographs to show method of inspection in establishments where Federal inspection is maintained.	\$58.95	Meat inspection, B. A. I., 1912.
Do.....	do.....	Athenia, N. J. (Mar. 24-31, 1912).....	To obtain photographs of the unloading of animals at the bureau's quarantine station.	44.99	General expenses, B. A. I., 1912 (inspection and quarantine).
Do.....	do.....	Baltimore, Md. (Apr. 4 and 11, 1912)...	To photograph work of loading, unloading, and handling of imported line stock.	3.70	Do.



Do.....	do.....	New York, N. Y. (Apr. 19-25, 1912).	To make photographs of work of loading meat and meat products on board ships, also transportation of same by rail and wagon in New York.	34.73	Meat inspection, B. A. I., 1912.
Do.....	do.....	Points in Mississippi. (June 22-27, 1912.)	To make photographs of cattle dipping.....	69.30	General expenses, B. A. I., 1912 (eradicating cattle ticks).
Behnke, A. E.....	Associate chief, Inspection Division.	Points in Illinois, Wisconsin, Minnesota, Nebraska, Missouri, Kansas, Oklahoma, Texas, Iowa, and Indiana. (Aug. 5, 1911-June 30, 1912.)	To inspect methods of conducting meat inspection and instruct employees concerning the discharge of duties connected therewith.	1,724.53	Meat inspection, B. A. I., 1912.
Bell, G. A.....	Senior animal husbandman.	Beltsville, Md. (Aug. 6, 1911).....	To inspect work conducted by the bureau...	.40	General expenses, B. A. I., 1912 (animal husbandry).
Do.....	do.....	Indianapolis, Ind., and Syracuse, N. Y. (Sept. 4-18, 1911).	To attend Indiana and New York State fairs, to observe showing of Morgan and American carriage horses.	106.46	Cooperative experiments in animal feeding and breeding, 1912.
Do.....	do.....	Beltsville, Md. (Oct. 11, 1911).....	To inspect work conducted by the bureau...	.70	General expenses, B. A. I., 1912 (animal husbandry).
Do.....	do.....	Chicago, Ill. (Oct. 29-Nov. 3, 1911)...	To attend National Dairy Show, to assist in conducting students' judging contest. (Expense proceeding to and from Chicago defrayed by National Dairy Association).	27.70	Do.
Do.....	do.....	Chicago, Ill. (Dec. 2-11, 1911).....	To attend International Live Stock Exposition and to obtain information concerning horse breeding work of the bureau.	88.65	Do.
Do.....	do.....	New York, N. Y., and points in Vermont. (Feb. 19-25, 1912.)	To obtain information relative to certification of pedigree of animals imported for breeding purposes. Assist in conducting a judging demonstration with Ayrshire cattle at farmers' institute.	48.94	Do.
Do.....	do.....	Beltsville, Md. (Apr. 5 and 20, 1912).	To inspect work in animal husbandry conducted at experimental farm.	1.27	Do.
Benner, W. G.....	Veterinary inspector....	Points in Maryland and Virginia in the vicinity of the District of Columbia. (July 1, 1911, to June 30, 1912.)	To test cattle for tuberculosis.....	414.40	General expenses, B. A. I., 1912 (inspection and quarantine).
Bennett, E. A.....	Property clerk.....	New York, N. Y. (Oct. 25-28, 1911)...	To attend business show as a representative of the Department of Agriculture.	26.35	Contingent expenses, Department of Agriculture, 1912.
Bothell, F. H.....	Dairyman.....	Points in Massachusetts. (July 10-18, 1911.)	To inspect sources from which milk is supplied to Boston.	71.91	General expenses, B. A. I., 1912 (dairy industry).
Do.....	do.....	New York, N. Y. (Sept. 22-25, 1911.).	To install market milk exhibit at pure food show.	27.50	Do.
Do.....	do.....	St. Paul and Duluth, Minn., and Chicago, Ill. (Oct. 6-29, 1911.)	To obtain information concerning market milk conditions and to confer with municipal health authorities. Chicago—to attend National Dairy Show.	109.95	Do.
Do.....	do.....	Points in Alabama and South Carolina. (Feb. 1-14, 1912.)	To assist local health officers in the work of inspection of dairies and obtain information concerning the market milk conditions in the States.	114.66	Do.

Statement showing the names of officers or employees (other than special agents, inspectors, or employees who in the discharge of their regular duties are required to constantly travel) who traveled on official business from Washington to points outside the District of Columbia during the fiscal year 1912, etc.—Continued.

## BUREAU OF ANIMAL INDUSTRY—Continued.

Name.	Title.	Destination.	Business or work.	Total expense.	Appropriation.
Bothell, F. H. ....	Dairyman .....	Frederick, Md. (Mar. 2, 1912).....	To inspect plant of White Cross Milk Co. . .	\$4.04	General expenses, B. A. I., 1912 (dairy industry).
Do. ....	do. ....	Amherst, Mass. (Mar. 11-14, 1912)....	To assist in judging dairy products at a farmers' meeting.	34.18	Do.
Do. ....	do. ....	Parkersburg, W. Va., and Oberlin, Ohio, and points in State of New York (Mar. 25-Apr. 13, 1912.)	To assist in establishing score-card systems of milk inspection and to confer with health officials and examine a milk station at Homer, N. Y.	106.21	Do.
Do. ....	do. ....	Bluefield, W. Va. (May 5-10, 1912)...	To deliver lectures on market milk and to establish a system of dairy inspection.	48.18	Do.
Do. ....	do. ....	Frederick, Md. (May 14, 1912).....	To examine dairy plant.....	2.90	Do.
Do. ....	do. ....	Purcellville, Va. (May 23-24, 1912)...	Study methods of testing cattle for tuberculosis.	2.80	Do.
Do. ....	do. ....	Points in Tennessee. (May 27-June 9, 1912.)	To assist in introducing score-card system of milk inspection.	120.05	Do.
Bowen, J. T. ....	Animal expert .....	Beltsville, Md. (18 trips, July 17-Sept. 19, 1911.)	To assist in work at experimental station....	13.16	Do.
Do. ....	do. ....	Baltimore, Md. (Sept. 27, 1911).....	To make tests of a refrigerating plant.....	2.70	Do.
Do. ....	do. ....	Baltimore, Md. (Oct. 2, 1911).....	do. ....	2.20	Do.
Do. ....	do. ....	Beltsville, Md. (Oct. 10, 23, and 24, 1911.)	To assist in work at experimental station....	2.60	Do.
Do. ....	do. ....	Chicago, Ill., and points in Minnesota and Iowa. (Oct. 25-Nov. 9, 1911.)	To examine and test dairy machinery.....	127.53	Do.
Do. ....	do. ....	South Boston, Va. (Feb. 23-25, 1912)...	To investigate refrigerating plant, under installation at creamery.	19.40	Do.
Do. ....	do. ....	Troy, Pa. (Feb. 3-16, 1912) .....	To confer with management of a dairy where cooperative work was conducted concerning the selection of a refrigerating plant.	42.75	Do.
Do. ....	do. ....	Annapolis, Md. (Mar. 1, 1912).....	To observe tests of thermohygroscopic apparatus at United States Naval Academy.	2.10	Do.
Do. ....	do. ....	Philadelphia, Pa. (May 8-10, 1912)....	To test pasteurizing equipment .....	16.20	Do.
Do. ....	do. ....	Baltimore, Md., Philadelphia, Pa., and New York. (May 13-22, 1912.)	do. ....	61.08	Do.
Brookbank, R. E. ....	Veterinary inspector....	Points in Maryland and Virginia in the vicinity of the District of Columbia. (July 1, 1911, to June 30, 1912.)	Testing cattle for tuberculosis.....	378.52	General expenses, B. A. I., 1912 (inspection and quarantine).
Brough, W. ....	Instrument maker .....	Chicago, Ill. (Mar. 5-15, 1912).....	To conduct experiments with branding devices.	82.89	Meat inspection, B. A. I., 1912.



Buckley, J. S.	Assistant in pathology.	Points in Montana. (June 17-30, 1912).	To investigate diseases of animals.	154.95	General expenses, B. A. I., 1912 (diseases of animals).
Carr, R. J.	Junior animal husbandman.	Beltsville, Md. (July 31, 1911)	To assist with work at experiment station.	.40	General expenses, B. A. I., 1912 (animal husbandry).
Do.	do.	State College, Pa. (Sept. 4-6, 1911)	To study methods of the use of the respiration calorimeter in connection with animal nutrition investigations.	12.17	Do.
Do.	do.	Beltsville, Md. (Jan. 12, 24, and 30, 1912.)	To assist with work at experiment station.	1.54	Do.
Do.	do.	Beltsville, Md. (20 trips during February, 1912.)	do.	10.74	Do.
Do.	do.	Herndon, Va. (Feb. 15, 1912)	To attend meeting at farmers' club.	1.20	Do.
Do.	do.	Beltsville, Md. (Mar. 5, 12, 19, and 26, 1912).	To assist with work at experiment station.	2.45	Do.
Do.	do.	Beltsville, Md. (Apr. 3, 9, 16, 19, 20, 22, 23, 24, 25, 26, 27, 29, and 30, 1912.)	do.	7.45	Do.
Do.	do.	Beltsville, Md. (May 7, 15, 21, 28, 31, June 4, 11, 18, 19, 20, 21, 22, 25, and 27, 1912).	do.	8.24	Do.
Carroll, C. C.	Chief clerk.	Points in Pennsylvania, New York, Connecticut, and Massachusetts. (Apr. 30-May 3, 1912.)	To confer with bureau inspectors in charge on matters concerning enforcement of meat-inspection regulations.	42.43	Meat inspection, B. A. I., 1912.
Do.	do.	Turners, Md. (June 6, 1912)	To obtain information concerning construction work at quarantine station.	3.99	General expenses, B. A. I., 1911-12.
Do.	do.	St. Louis, Mo. (June 18-23, 1912)	To attend bureau's convention of veterinary inspectors on meat inspection.	60.20	Meat inspection, B. A. I., 1912.
Chase, J. L.	Clerk.	Points in Maryland, Pennsylvania, New York, Massachusetts, and Vermont. (Mar. 24-Apr. 21, 1912.)	To examine administratively the purchase of supplies and methods of reporting inventory and office work.	312.78	Do.
Do.	do.	Points in Pennsylvania, Ohio, Indiana, Missouri, Nebraska, Oklahoma, Arkansas, Kansas, Colorado, Utah, and California. (May 1-June 30, 1912.)	do.	519.11	Do.
Cook, A. S.	Junior dairyman.	Points in the New England States. (July 5-Aug. 4, 1911.)	To assist in organization of cow-testing associations in cooperation with State authorities.	131.06	General expenses, B. A. I., 1912 (dairy industry).
Do.	do.	Purcellville, Va. (Aug. 14-16 and 21-22, 1911.)	Attend meetings of a cow-testing association to deliver addresses on cow-testing associations.	16.31	Do.
Do.	do.	Lebanon, Pa. (Aug. 30, 1911)	To address meeting of dairymen on subject "Does dairying pay, and why some dairymen fail."	10.57	Do.
Do.	do.	Points in New York. (Sept. 10-19, 1911.)	To assist in organization of cow-testing associations.	56.60	Do.
Corneliuson, T.	Dairyman.	Chicago and Prophetstown, Ill., and points in the State of Wisconsin. (July 4-15 and Sept. 4-6, 1911.)	Chicago: To examine butter in the market. Other points: To confer with management and owners of creameries and make suggestions concerning work at plants.	112.87	Do.

Statement showing the names of officers or employees (other than special agents, inspectors, or employees who in the discharge of their regular duties are required to constantly travel) who traveled on official business from Washington to points outside the District of Columbia during the fiscal year 1912, etc.—Continued.

## BUREAU OF ANIMAL INDUSTRY—Continued.

Name.	Title.	Destination.	Business or work.	Total expense.	Appropriation.
Corneliuson, T.....	Dairyman.....	Milwaukee and Madison, Wis. (Oct. 3-22, 1911.)	To attend international dairy show and prepare bureau property for shipment.	\$127.09	General expenses, B. A. I., 1912 (dairy industry).
Do.....	do.....	Lexington, Ky.; Adrian, Mich.; Chicago, Ill.; Columbia, Mo.; and Billings, Mo. (Jan. 3-15, 1912.)	Lexington, Ky.: Score dairy products at meeting of Kentucky Dairy Cattle Club. Adrian, Mich.: Deliver address at dairy meeting and give demonstration of milk testing. Chicago: Confer with bureau employees. Columbia, Mo.: Deliver address at meeting of Missouri Creamerymen's Association on subject "Creamery management." Billings, Mo.: Assist in creamery investigations.	134.62	Do.
Do.....	do.....	Green Bay, Wis. (Feb. 3-12, 1912)...	Attend convention of Wisconsin butter-makers to deliver address.	81.64	Do.
Do.....	do.....	Martinsburg, W. Va. (Mar. 18-20, 1912.)	To inspect creamery and confer with owners and to give expert advice.	10.41	Do.
Do.....	do.....	Points in New York, Illinois, Wisconsin, and Minnesota. (May 27-June 22, 1912.)	To make investigations concerning the manufacture of cheese.	189.54	Do.
Cross, C. H.....	Clerk.....	Beltsville, Md. (June 6, 1912).....	To assist in work at experimental farm.....	.57	General expenses, B. A. I., 1912 (animal husbandry).
Davis, B. J.....	Laboratory helper.....	Troy, Pa. (Sept. 1-3 and Dec. 3-5, 1911.)	To assist in experiments in butter making, conducted in cooperation with local creamery company.	22.72	General expenses, B. A. I., 1912 (dairy industry).
Dorman, J. E.....	Expert dairyman.....	Middlebury, Vt. (July 8-16, 1911)....	To superintend construction of silos.....	41.75	Cooperative experiments in animal feeding and breeding, 1912.
Do.....	do.....	Annapolis, Md. (July 17-19, 1911)....	To investigate silo propositions.....	2.96	General expenses, B. A. I., 1912 (dairy industry).
Do.....	do.....	Beltsville, Md. (July 19, 1911).....	To assist in work at experimental station.....	.32	Do.
Do.....	do.....	Beltsville, Md. (Aug. 1-31, 1911).....	do.....	3.70	Do.
Do.....	do.....	Points in Virginia and North Carolina. (Feb. 11-Mar. 5, 1912.)	To accompany dairy-instructions car run by the Southern Railway Co., also to confer with certain college officials concerning location and construction of a proposed dairy barn.	94.55	Do.

Dorset, M. ....	Chief, Biochemic Division.	Chicago, Ill. (Dec. 5-8, 1911).....	To attend United States Live Stock Sanitary Association.	57.40	General expenses, B. A. I., 1912 (inspection and quarantine).
Downing, J. E. ....	Expert in stock investigations.	Points in Iowa, Nebraska, Wyoming, Illinois, and Louisiana. (Aug. 5, 1911, to June 10, 1912.)	To make investigations concerning the interstate transportation of live stock and the shrinkage of beef. Attend International Live Stock Exposition.	1,562.46	General expenses, B. A. I., 1912 (animal husbandry).
Eichhorn, Adolph. ....	Bacteriologist. ....	Toronto, Ontario. (Aug. 20-27, 1911) ..	To attend annual meeting of American Veterinary Medical Association and present paper on subject "Immune bodies and biological reaction."	58.40	General expenses, B. A. I., 1912 (diseases of animals).
Do. ....	do. ....	Boston, Mass. (Oct. 18-23, 1911).....	Attend meeting of State board of health and demonstrate the complement fixation test for glanders.	44.10	Do.
Do. ....	do. ....	Boston, Mass. (Nov. 6-10, 1911).....	Attend meeting of team owners to participate in a discussion concerning glanders.	41.65	Do.
Do. ....	do. ....	Laurel, Md. (Feb. 6, 1912).....	To investigate suspected cases of diseased animals.	1.60	Do.
Do. ....	do. ....	Burke, Va. (Feb. 17, 1912).....	To investigate outbreak of disease among horses.	1.45	Do.
Do. ....	do. ....	New York, N. Y. (Mar. 6-8, 1912).....	To deliver address before meeting of New York County Veterinary Medical Association on the methods of diagnosing glanders.	21.05	Do.
Do. ....	do. ....	Beltsville, Md. (June 11, 12, 13, 19, and 24, 1912.)	To treat Government horse injured at experimental farm.	2.85	General expenses, B. A. I., 1912 (animal husbandry).
Do. ....	do. ....	New York, N. Y., Jersey City, and travel between these points. (Nov. 22-29, 1911.)	To assist in work in connection with enforcement of the food and drugs act.	41.65	Enforcement of food and drugs act, 1912.
Do. ....	do. ....	New York, N. Y., Jersey City, and travel between these points. (Dec. 11-13, 1911.)	.....do. ....	17.75	Do.
Ellenberger, W. P. ....	Veterinary inspector. ....	Nashville, Tenn. (Oct. 9-15, 1911).....	To attend meeting of the southern agricultural workers.	64.00	General expenses, B. A. I., 1912 (eradication of cattle ticks).
Do. ....	do. ....	Jackson, Miss. (Oct. 25-29, 1911).....	To attend tick eradication conventions. ....	74.65	Do.
Do. ....	do. ....	Chicago, Ill. (Dec. 1-8, 1911).....	To attend meeting of United States Live Stock Sanitary Association.	59.45	General expenses, B. A. I., 1912 (inspection and quarantine).
Do. ....	do. ....	Points in Tennessee, Arkansas, Oklahoma, Texas, Louisiana, Mississippi, Georgia, and South Carolina. (June 4-29, 1912.)	To investigate work of eradication of cattle ticks.	219.62	General expenses, B. A. I., 1912 (eradication of cattle ticks).
Fake, C. T. ....	Clerk. ....	Beltsville, Md. (Feb. 9, 1912).....	To assist in work at experimental farm. ....	.57	General expenses, B. A. I., 1912 (animal husbandry).
Farrington, A. M. ....	Assistant chief of bureau.	Turners, Md. (Oct. 13, 1911).....	To inspect building being erected for the bureau.	2.30	General expenses, B. A. I., 1912 (administrative expenses).

Statement showing the names of officers or employees (other than special agents, inspectors, or employees who in the discharge of their regular duties are required to constantly travel) who traveled on official business from Washington to points outside the District of Columbia during the fiscal year 1912, etc.—Continued.

## BUREAU OF ANIMAL INDUSTRY—Continued.

Name.	Title.	Destination.	Business or work.	Total expense.	Appropriation.
Farrington, A. M.....	Assistant chief of bureau.	Points in Ohio, Indiana, Illinois, Kansas, Texas, California, Oregon, Washington, Montana, Colorado, Iowa, Michigan, New York, and Pennsylvania. (Feb. 11–Apr. 14, 1912.)	To hold examinations for bureau employees to determine their eligibility for promotion.	\$539.57	Meat inspection, B. A. I., 1912.
Formad, R. J.....	Bacteriologist.....	New York, N. Y. (Oct. 3–4, 1911)....	To testify at trial of case involving alleged violation of regulations governing interstate movement of meat and meat-food products.	16.25	Do.
Do.....	do.....	New York, N. Y. (Oct. 9–11, 1911)....	do.....	20.50	Do.
Fravel, F. R.....	Clerk.....	Aberdeen, Miss. (Sept. 29–Oct. 4, 1911.)	To appear as witness before Federal grand jury in a case of alleged violation of quarantine regulations.	72.30	General expenses, B. A. I., 1912 (inspection and quarantine).
Do.....	do.....	Oxford, Miss. (Dec. 1–7, 1911).....	do.....	71.95	Do.
Gallagher, F. L.....	Veterinary inspector.....	Points in Virginia and Maryland in the vicinity of the District of Columbia. (July 1, 1911, to June 30, 1912.)	Testing cattle for tuberculosis.....	488.51	Do.
George, A. C.....	Architect.....	Beltsville, Md. (Oct. 30 and Nov. 1, 1911.)	To assist in work at experimental farm.....	1.17	General expenses, B. A. I., 1912 (dairy industry).
Glenn, C. C.....	Animal husbandman.....	Winchester, Va. (Sept. 2, 1911).....	To examine stallions to ascertain if they will agree with data on foreign certificates.	4.60	General expenses, B. A. I., 1912 (animal husbandry).
Goodman, A. M.....	Dairyman.....	Points in Maryland. (June 27–30, 1912.)	Shipping bull to experimental farm.....	20.04	General expenses, B. A. I., 1912 (dairy industry).
Grayvill, H. W.....	Assistant zoologist.....	Points in Georgia, Tennessee, Mississippi, Arkansas, Oklahoma, Texas, and Louisiana. (Sept. 2–Dec. 10, 1911.)	To investigate work of eradication of cattle ticks.	277.43	General expenses, B. A. I., 1912 (eradicating cattle tick).
Griffith, G. L.....	Clerk.....	Beltsville, Md. (Mar. 28, 1912).....	To assist in work at experimental farm.....	.57	General expenses, B. A. I., 1912 (animal husbandry).
Hall, M. C.....	Scientific assistant, veterinary zoology.	Points in Colorado, Wyoming, and adjacent States. (July 1, 1911–Nov. 23, 1911.)	To investigate disease of sheep due to fringed tapeworm and other parasitic diseases of sheep.	202.80	General expenses, B. A. I., 1912 (diseases of animals).
Do.....	do.....	Points in Colorado. (May 15–June 30, 1912.)	do.....	105.20	Do.

Hall, W. J.	Clerk	Beltsville, Md. (Jan. 5, 7, 8, 9, 20, and 23, 1912.)	To assist in work at experimental farm.	2.40	General expenses, B. A. I., 1912 (animal husbandry).
Hickman, R. W.	Chief, Quarantine Division.	Turners, Md. (July 13, 1911)	To supervise construction work at quarantine station.	2.40	General expenses, B. A. I., 1912 (administrative expenses).
Do	do	Turners, Md. (Aug. 5, 1911)	do	2.15	Do.
Do	do	Turners, Md. (Aug. 7, 1911)	do	2.00	Do.
Do	do	Toronto, Ontario; Athenia, N. J. (Aug. 20-26, 1911.)	To attend meeting of American Veterinary Medical Association and inspect quarantine station at Athenia, N. J.	53.10	Do.
Do	do	Points in the States of Massachusetts, New York, and New Jersey. (Sept. 20-27, 1911.)	To inspect importation and quarantine of live stock and the tuberculin testing of cattle.	54.35	Do.
Do	do	Turners, Md. (Oct. 13, 1911)	To supervise construction work at quarantine station.	2.60	Do.
Do	do	Eccleston, Md. (Nov. 9, 1911)	To investigate quarantine work	4.29	Do.
Do	do	Baltimore, Md. (Nov. 15, 1911)	do	3.40	Do.
Do	do	Turners, Md. (Nov. 29, 1911)	To supervise construction work at quarantine station.	3.54	Do.
Do	do	Chicago, Ill., and Turners, Md. (Dec. 3-11, 1911.)	To attend meeting of United States Live Stock Sanitary Association, and inspect construction work at quarantine station, Turners, Md.	4.14	Do.
Do	do	do	do	66.15	General expenses, B. A. I., 1912 (inspection and quarantine).
Do	do	Turners, Md. (Dec. 29, 1911, Jan. 23 and Feb. 9, 1912.)	Supervise construction work at quarantine station.	9.25	General expenses, B. A. I., 1912 (administrative expenses).
Do	do	Points in Ohio, Indiana, Kansas, Texas, California, Oregon, Washington, Montana, Colorado, Iowa, Michigan, New York, and Pennsylvania. (Feb. 11-Apr. 14, 1912.)	To hold examinations for bureau employees to determine their eligibility for promotion.	583.50	Meat inspection, B. A. I., 1912.
Do	do	Turners, Md. (Apr. 19, 1912)	To inspect construction work of the bureau at that point.	2.25	General expenses, B. A. I., 1912 (administrative expenses).
Do	do	Turners, Md. (May 4, 1912)	do	2.85	Do.
Do	do	Turners, Md. (June 6 and 12, 1912)	To investigate construction work being done by the bureau.	7.69	Do.
Do	do	Boston, Mass. (June 16-19, 1912)	To examine site of quarantine station to determine what construction work was necessary.	39.89	General expenses, B. A. I., 1911-12.
Keithley, J. R.	Junior dairyman	Points in Minnesota. (July 1-10, 1911; trip began in Feb., 1911.)	To confer with managers of creameries relative to manufacture of creamery butter and to offer such suggestions as may be deemed advisable.	53.53	General expenses, B. A. I., 1912 (dairy industry).
Do	do	Hagerstown, Md. (Oct. 7-13, 1911)	To attend interstate fair to give demonstrations in butter making.	24.97	Do.
Kelly, E.	Dairyman	Baltimore, Md., and points in vicinity. (July 6-8, 1911.)	To inspect the milk supply of Baltimore, Md.	8.44	Do.

Statement showing the names of officers or employees (other than special agents, inspectors, or employees who in the discharge of their regular duties are required to constantly travel) who traveled on official business from Washington to points outside the District of Columbia during the fiscal year 1912, etc.—Continued.

## BUREAU OF ANIMAL INDUSTRY—Continued.

Name.	Title.	Destination.	Business or work.	Total expense.	Appropriation.
Kelly, E .....	Dairyman .....	Detroit, Mich.; Springfield, Ill.; and Milwaukee, Wis. (Sept. 18–Oct. 13, 1911.)	Detroit: To judge milk and cream at the milk exhibit and to deliver addresses on subject "Production and handling of clean milk." Springfield, Ill.: To attend State Fair and take charge of cream and milk contest, also confer with health officials regarding score-card system of milk inspection. Milwaukee: To attend International Dairy Show to assist in conducting a milk exhibit.	\$161.14	General expenses, B. A. I., 1912 (dairy industry).
Do .....	do .....	Chicago, Ill. (Oct. 23–Nov. 2, 1911)....	To attend National Dairy Show to perform laboratory work and assist in scoring milk and cream.	90.04	Do.
Do .....	do .....	Keyser, W. Va. (Nov. 28–29, 1911)....	To attend meeting of West Virginia Dairymen's Association to deliver address on "Market milk."	13.84	Do.
Do .....	do .....	Baltimore, Md. (Nov. 9, 1911).....	To assist in scoring milk and cream in cooperation with Maryland State Dairymen's Association.	2.05	Do.
Do .....	do .....	Baltimore, Md. (Nov. 25, 1911).....	do .....	1.35	Do.
Do .....	do .....	Baltimore, Md. (Nov. 27, 1911).....	do .....	1.55	Do.
Do .....	do .....	Baltimore, Md. (Nov. 29, 1911).....	do .....	1.55	Do.
Do .....	do .....	Baltimore, Md. (Dec. 7–8, 1911).....	do .....	7.10	Do.
Do .....	do .....	Pittsburgh, Pa.; Detroit, Mich.; and Alliance, Ohio. (Jan. 10–25, 1912.)	Pittsburgh: To attend meeting of Pennsylvania Dairymen's Union to score milk and cream and deliver address on "Milk contests." Detroit: To confer with health officials concerning market milk investigations. Alliance: To address meeting of dairymen and citizens on the subject "The sanitary side of the milk question."	88.00	Do.
Do .....	do .....	Annapolis, Md. (Feb. 14, 1912).....	To conduct tests of ventilation of dairy barns and experiments in the feeding of cows.	2.25	Do.
Do .....	do .....	College Park, Md. (Mar. 5, 1912).....	To deliver address to students of Maryland Agricultural College on subject "Market milk."	.40	Do.



Do.....	do.....	Points in State of Louisiana. (Mar. 6-17, 1912.)	To accompany health train conducted under the auspices of the State authorities for the purpose of delivering lectures on sanitary milk production; also confer with health officials in various cities concerning system of milk inspection.	114.18	Do.
Do.....	do.....	Annapolis, Md. (Mar. 28, 1912.)	To conduct tests of ventilation of dairy barns and experiments in feeding of cows.	2.25	Do.
Do.....	do.....	Louisville and Lexington, Ky. (Apr. 26-May 3, 1912.)	To address American Association Medical Milk Commissions and confer with health officials regarding progress of work.	63.40	Do.
Do.....	do.....	Beltsville and Annapolis, Md.; South Bend, Ind.; and Detroit, Mich. (May 10-June 18, 1912.)	To assist with work at experimental farm, conduct tests in dairy ventilation, and conduct milk contests.	159.01	Do.
Lambert, G. M.....	Junior dairyman.....	Troy, Pa. (Aug. 1-Sept. 7, 1911.)	To confer with dairy officials concerning creamery management and inspect butter intended for use in the Navy Department.	79.00	Do.
Do.....	do.....	Oakland and Lonaconing, Md. (Sept. 13-15, 1911.)	Oakland: To assist owners of creamery by giving advice and suggestions as to management. Lonaconing: To examine equipment of a new creamery.	17.29	Do.
Do.....	do.....	Richmond, Va. (Dec. 7-9, 1911.)	To confer with State dairy commission concerning the proposed inauguration of co-operative work relative to the dairy industry.	18.05	Do.
Do.....	do.....	Charlottesville, Va. (Jan. 31 and Feb. 2, 1912.)	To attend meeting of Virginia State Creamery and Butter Makers' Association to deliver address on subject "The best methods of keeping accounts."	12.15	Do.
Do.....	do.....	Points in State of Virginia. (Feb. 19-24, 1912.)	To make dairy manufacturing investigations.	37.57	Do.
Do.....	do.....	Points in State of Virginia. (Mar. 11-22, 1912.)	do.....	50.45	Do.
Do.....	do.....	Points in State of Virginia. (Apr. 8-20, 1912.)	do.....	46.94	Do.
Do.....	do.....	Points in Virginia, West Virginia, and Pennsylvania. (May 1-27, 1912.)	do.....	109.96	Do.
Do.....	do.....	Points in Virginia. (June 3-15, 1912.)	do.....	33.78	Do.
Lamon, H. M.....	do.....	Points in the States of Kansas, Nebraska, Colorado, Texas, Iowa, and Missouri. (July 1-Sept. 19, 1911.)	To conduct market investigations of eggs and poultry.	488.91	General expenses, B.A.I., 1912 (animal husbandry).
Do.....	do.....	Beltsville, Md. (Oct. 3 and 7, 1911.)	To assist at experimental farm.	1.14	Do.
Do.....	do.....	Points in Maryland, New York, Minnesota, Wisconsin, Chicago, Ill., and Indianapolis, Ind. (Oct. 11-Nov. 4, 1911.)	To conduct market investigations of eggs and poultry.	157.96	Do.
Do.....	do.....	Morristown, Tenn. (Dec. 7-9, 1911.)	To attend meeting of Poultry Association of Hamblen County and to deliver an address.	36.75	Do.
Do.....	do.....	Guelph, Ontario, Chicago, Ill., and New York, N. Y. (Dec. 22, 1911.)	Guelph: To attend Ontario Provincial Winter Fair. Chicago: To attend Chicago Poultry Show. New York: To attend Madison Square Garden Poultry Show.	208.13	Do.

Statement showing the names of officers or employees (other than special agents, inspectors, or employees who in the discharge of their regular duties are required to constantly travel) who traveled on official business from Washington to points outside the District of Columbia during the fiscal year 1912, etc.—Continued.

## BUREAU OF ANIMAL INDUSTRY—Continued.

Name.	Title.	Destination.	Business or work.	Total expense.	Appropriation.
Lamon, H. M .....	Junior dairyman.....	Beltsville, Md. (Nov. 7, 13, 21, 28, and Dec. 5, 1911.)	To assist with work at experimental farm...	\$3.70	General expenses, B. A. I., 1912 (animal husbandry). Do.
Do.....	do.....	Beltsville, Md. (Jan. 2, 5, 9, 15, 23, and 30, 1912.)	.....do.....	3.96	
Do.....	Junior animal husbandman.	Points in North Carolina. (Feb. 4-9, 1912.)	To participate in farmers' institute work....	47.20	Do.
Do.....	do.....	Beltsville, Md. (Feb. 13, 19-29, 1912.)	To assist with work at experimental farm...	2.00	Do.
Do.....	do.....	Points in Vermont and Massachusetts. (Feb. 19-27, 1912.)	To obtain information relative to poultry work of the bureau. Middlebury and Burlington: To deliver lectures at farmers' institute on "Poultry on the farm."	61.07	Do.
Do.....	do.....	Beltsville, Md. (Mar. 5, 8, 20, 23 and 28, 1912.)	To assist with work at experimental farm..	3.36	Do.
Do.....	do.....	Points in New England States. (Mar. 11-17, 1912.)	To study poultry and egg conditions.....	75.15	Do.
Do.....	do.....	Beltsville, Md. (Apr. 2, 9, 15, 20, 23, 27 and 30, 1912.)	To assist with work at experimental farm....	5.67	Do.
Do.....	do.....	Baltimore, Md. (Apr. 9-10, 1912) ...	To address meeting of Maryland Poultry and Pigeon Association.	7.60	Do.
Do.....	do.....	Beltsville, Md. (May 2, 7, 14 and 15, 1912.)	To assist with work at experimental farm....	2.75	Do.
Do.....	do.....	Detroit, Mich.; points in Kansas and New York. (May 20-29, 1912.)	To attend meeting of Michigan Carload Egg Shippers' Association to deliver an address "Study egg market."	135.91	Do.
Do.....	do.....	Beltsville, Md. (June 1, 4, 11, 14 and 19, 1912.)	To assist in work at experimental farm.....	2.68	Do.
Do.....	do.....	Burkeville, Va. (June 19-21, 1912)...	To conduct poultry investigations.....	11.80	Do.
Do.....	do.....	Lansing, Mich. (June 25, 29, 1912) ...	To attend meeting of International Association of Instructors and Investigators in Poultry Husbandry.	80.53	Do.
Lee, A. R .....	do.....	Points in the State of Kansas. (July 1-Dec. 1, 1911.)	To conduct poultry and egg investigations..	513.27	Do.
Do.....	do.....	Beltsville, Md. (Jan. 5, Feb. 6 and 27, 1912.)	To assist with work at experimental farm...	1.81	Do.
Do.....	do.....	Beltsville, Md. (Mar. 12-20, 1912) ....	.....do.....	1.48	Do.



Do.....	do.....	Points in California, Arizona, Louisiana, Alabama, Florida, Georgia, Tennessee, and Virginia. (March 21-May 12, 1912.)	To conduct poultry and egg investigations..	577.08	Do.
Do.....	do.....	Beltsville, Md. (May 21, 24, 28, 31, June 1, 7, 10, 25 and 28, 1912.)	To conduct poultry experiments.....	4.86	Do.
McBryde, C. N.....	Senior bacteriologist.....	Havana, Cuba. (Dec. 1-14, 1911) ....	To attend meeting of American Public Health Association.	113.70	General expenses, B. A. I., 1912 (administrative, expenses).
Do.....	do.....	Rochester, N. Y. (Feb. 4-9, 1912) ....	To attend meetings of National Canners Association in the interest of having meats properly canned.	42.86	Meat inspection, B. A. I., 1912.
McClain, J. H.....	Dairyman.....	Points in North and South Carolina, Alabama, Kentucky, Mississippi. (July 3-Sept. 16, 1911.)	To confer with bureau employees concerning progress of dairy investigations. Montevallo, Ala.: To deliver address on subjects relating to the dairy industry. Rocky Mount, N. C.: To raze an experimental silo constructed by the bureau.	338.80	General expenses, B. A. I., 1912 (dairy industry).
Do.....	do.....	Points in Tennessee. (Oct. 2-30, 1911.)	To accompany dairy train scheduled to visit various sections of the State. Nashville: Attend meeting of the Southern Agricultural Workers to deliver address on subject "The best way to interest the southern farmer in modern methods of dairying."	101.06	Do.
Do.....	do.....	Points in Virginia, Maryland, South Carolina, Georgia, Alabama, Tennessee, Kentucky, Louisiana, and Mississippi. (Nov. 8, 1911-Jan. 20, 1912.)	To confer with bureau employees concerning work. Aiken, S. C.: To deliver series of lantern slide lectures on subjects concerning the dairy industry. Confer with normal school officials concerning construction of dairy barn at Natchitoches, La.	346.52	Do.
Do.....	do.....	Points in North and South Carolina, Virginia, Tennessee, Mississippi, Louisiana and Alabama. (Feb. 6-Mar. 18, 1912.)	To confer with bureau employees concerning progress of work. Columbia, S. C.: Attend meeting of dairy and live stock association to deliver addresses on subjects concerning the dairy industry and score butter. Greensboro, N. C.: To deliver lectures to students of the college for the colored race and to accompany dairy train. Assist in selecting site for dairy barn. Organize new work and instruct employees in such work.	244.61	Do.
Do.....	do.....	Orange, Va. (Mar. 21-23, 1912) .....	To confer with bureau employees regarding progress of bureau work.	3.60	Do.
Do.....	do.....	Beltsville, Md. (Mar. 26, 1912) .....	To assist with work at experimental farm....	.62	Do.
Do.....	do.....	Points in South Carolina, Alabama, Mississippi, Tennessee, South Carolina, and Georgia. (Mar. 27-June 10, 1912.)	To confer with bureau employees concerning investigations and make general inspection of the dairy farming investigations.	473.89	Do.
Do.....	do.....	Jackson, Tenn. (June 20-30, 1912) ....	To erect concrete silos.....	48.25	Do.
McKeown, T. H.....	Veterinary inspector.....	Points in the vicinity of the District of Columbia. (July 1, 1911 to June 30, 1912.)	To test cattle for tuberculosis.....	508.20	General expenses, B. A. I., 1912 (inspection and quarantine).

Statement showing the names of officers or employees (other than special agents, inspectors, or employees who in the discharge of their regular duties are required to constantly travel) who traveled on official business from Washington to points outside the District of Columbia during the fiscal year 1912, etc.—Continued.

## BUREAU OF ANIMAL INDUSTRY—Continued.

Name.	Title.	Destination.	Business or work.	Total expense.	Appropriation.
Mallory, W. L.....	Dairyman.....	Beltsville, Md. (Aug. 1, 3, 5, 7, 10, 16, 24; Sept. 7; Oct. 27; Nov. 2, 6, 11, 17 and 23, 1911.)	To assist with work at experimental farm...	\$7.52	General expenses B. A. I., 1912 (dairy industry).
Melvin, A. D.....	Chief of Bureau.....	Turners, Md. (July 13, 1911).....	To inspect site selected for quarantine station.	2.45	General expenses, B. A. I., 1912 (administrative expenses).
Do.....	do.....	Middlebury, Vt.; Toronto, Ontario; and Buffalo, N. Y. (Aug. 6-26, 1911.)	Middlebury: To inspect work at Morgan horse farm. Toronto: To attend meeting of American Veterinary Medical Association. Buffalo: To inspect work of Bureau.	71.20	Do.
Do.....	do.....	New York, N. Y. (Sept. 14-16, 1911)..	To inspect work of bureau carried on at that point.	27.00	Do.
Do.....	do.....	Beltsville, Md. (Sept. 23, 1911.).....	To inspect experimental farm.....	.60	Do.
Do.....	do.....	Chicago, Ill. (Sept. 27-Oct. 2, 1911) ..	To attend International Municipal Congress and Exposition.	61.15	Do.
Do.....	do.....	Chicago, Ill., and New York, N. Y. (Oct. 29-Nov. 5, 1911.)	To attend Domestic Science and Pure Food Exhibition and National Dairy Show.	81.45	Do.
Do.....	do.....	Chicago, Ill.; Cheyenne, Wyo.; Denver, Colo.; Omaha, Nebr. (Dec. 3-18, 1911.)	Chicago: To attend International horse show. Cheyenne: Attend meeting of Wyoming Sheep Breeders Association. Denver: Attend meeting of American Live Stock Association. Omaha: Attend meeting of Sheep Owners.	171.80	Do.
Do.....	do.....	Atlantic City, N. J. (June 2-6, 1912)...	To attend meeting of American Medical Association.	28.15	Do.
Do.....	do.....	St. Louis, Mo. (June 18-23, 1912).....	To attend bureau's convention of veterinary inspectors on meat inspection.	74.40	Meat inspection, B. A. I., 1912.
Middleton, W. G.....	Veterinary inspector...	Points in the vicinity of the District of Columbia. (July 1, 1911, to June 30, 1912.)	To test cattle for tuberculosis.....	537.83	General expenses, B. A. I., 1912 (inspection and quarantine).
Mohler, J. R.....	Chief, Pathological Division.	Philadelphia, Pa., Toronto, Ont. (July 29-31, Aug. 19-28, 1911.)	Philadelphia: To confer regarding "Lymphatics of food-producing animals." Toronto: To attend meeting of International Commission on the Control of Bovine Tuberculosis, also attend meeting of American Medical Association to present paper on "Dourine."	6.40 64.70	Meat inspection, B. A. I., 1912. General expenses B. A. I., 1912 (diseases of animals).
Do.....	do.....	Philadelphia, Pa. (Oct. 6, 1911).....	To direct bacteriological work in meat inspection.	11.45	Meat inspection, B. A. I., 1912.

Do.	do.	Philadelphia, Pa. (Oct. 27-28, 1911)...	To confer regarding cooperative work of ante-mortem inspection and tuberculin testing.	13.95	General expenses, B. A. I., 1912 (diseases of animals).
Do.	do.	Baltimore, Md. (Nov. 15, 1911).....	To conduct post-mortem examinations on tuberculous cattle.	3.95	Do.
Do.	do.	New York, N. Y. (Nov. 29-Dec. 2, 1911.)	To select an assistant for Pathological Division.	23.60	Do.
Do.	do.	Chicago, Ill. (Aug. 3-9, 1911).....	Attend meeting National Live Stock Sanitary Association.	71.25	General expenses, B. A. I., 1912 (inspection and quarantine).
Do.	do.	New York, N. Y. (Jan. 18-19, 1912)...	To investigate for Department of Justice the preparation of stearin oleo oils and lard compounds.	17.45	Meat inspection, B. A. I., 1912.
Do.	do.	Laurel, Md. (Feb. 9, 1912).....	To investigate outbreak of disease among cattle.	1.60	General expenses, B. A. I., 1912 (diseases of animals).
Do.	do.	Philadelphia, Pa. (Mar. 12, 1912).....	To testify in case of alleged violation of interstate shipment of tuberculous animals.	11.45	Do.
Do.	do.	Philadelphia, Pa. (Mar. 20-22, 1912)...	To make address at the centennial anniversary of the Academy of Natural Sciences at Philadelphia.	18.95	Do.
Do.	do.	Philadelphia, Pa. (Apr. 4-10, 1912)...	To represent the bureau at meeting of International Association of Medical Museums and the Association of American Pathologists and Bacteriologists.	31.50	Do.
Do.	do.	Atlantic City, N. J., and Philadelphia, Pa. (May 31-June 6, 1912.)	To obtain information concerning meat inspection and attend meeting of American Medical Association.	32.15	Meat inspection, B. A. I., 1912.
Do.	do.	St. Louis, Mo. (June 18-23, 1912).....	To attend bureau's convention of veterinary inspectors on meat inspection.	74.10	Do.
Moorman, R.	Junior animal husbandman.	Beltsville, Md. (May 21, June 4, 19, 1912.)	To assist with work at experimental farm...	1.71	General expenses, B. A. I., 1912 (animal husbandry).
Do.	do.	Burkeville, Va. (June 19-21, 1912)...	To attend meetings to inaugurate campaign for organization of girls' poultry clubs.	10.50	Do.
Do.	do.	Clifton, Va. (June 25-26, 1912).....	do.	6.40	Do.
Morse, G. B.	Assistant in pathology	South Omaha, Nebr. (July 4-Oct. 26, 1911.)	To conduct research in bacteriology	419.70	General expenses, B. A. I., 1912 (diseases of animals).
Do.	do.	South Omaha, Nebr. (Apr. 24-June 30, 1912.)	do.	278.79	Do.
Munro, J. B.	Under laboratory inspector.	Richmond, Ind.; Hamilton, Ohio; and Wheeling, W. Va. (July 1-4, 1911.)	To inspect meat-inspector work of the bureau.	33.90	Meat inspection, B. A. I., 1912.
Opperman, O. L.	Junior animal husbandman.	Beltsville, Md. (June 4 and 11, 1912)...	To assist with work at experimental farm...	.56	General expenses; B. A. I., 1912 (animal husbandry).
Do.	do.	Lansing, Mich. (June 26-28, 1912).....	To attend annual meeting of International Instructors and Investigators in Poultry Husbandry.	49.10	Do.
Norton, R. P.	Junior dairyman	Baltimore, Md. (Oct. 2, 1911).....	To test pasteurizer	2.20	General expenses, B. A. I., 1912 (dairy industry).

Statement showing the names of officers or employees (other than special agents, inspectors, or employees who in the discharge of their regular duties are required to constantly travel) who traveled on official business from Washington to points outside the District of Columbia during the fiscal year 1912, etc.—Continued.

## BUREAU OF ANIMAL INDUSTRY—Continued.

Name.	Title.	Destination.	Business or work.	Total expense.	Appropriation.
Opperman, C. L. ....	Junior animal husbandman.	Points in Kansas. (July 1–Sept. 2, 1911.)	To make market investigations concerning poultry and eggs.	\$277.08	General expenses, B. A. I., 1912 (animal husbandry).
Do. ....	do. ....	Beltsville, Md. (Sept. 12 and Oct. 25, 1911.)	To assist with work at experimental farm....	3.49	Do.
Do. ....	do. ....	Manassas, Va. (Dec. 15, 1911) .....	To attend poultry meeting in connection with farmers' institute.	2.50	Do.
Do. ....	do. ....	Manassas, Va. (Jan. 17, 1912) .....	To attend farmers' institute. ....	1.65	Do.
Do. ....	do. ....	Points in Nebraska and Texas. (Jan. 10–Feb. 24, 1912.)	To assist officers of Nebraska State College of Agriculture in the work of conducting a farmers' institute train. Investigate marketing of eggs in Texas through the creameries of the State.	148.80	Do.
Do. ....	do. ....	Points in Michigan, Minnesota, Missouri, Iowa, and Nebraska. (Mar. 11–May 28, 1912.)	To investigate poultry conditions and organize egg associations and cooperative work among farmers and creameries.	576.68	Do.
Parks, G. H. ....	Architect. ....	Athenia, N. J. (July 6–8, 1911) .....	To supervise construction work of two stables on quarantine station grounds.	24.15	General expenses B. A. I., 1912 (inspection and quarantine).
Do. ....	do. ....	Athenia, N. J., and Lancaster, Pa., July 15–Sept. 23, 1911.)	To supervise construction work of two stables on quarantine station grounds.	295.03	Do.
Do. ....	do. ....	do. ....	Lancaster: To confer with a farm products company regarding plans for a slaughterhouse.	15.01	Meat inspection, B. A. I., 1912.
Do. ....	do. ....	Cleveland, Ohio. (Oct. 5–8, 1911)....	To inspect establishments where Federal inspection is maintained.	37.13	Do.
Do. ....	do. ....	Keene, N. H. (Jan. 7–12, 1912) .....	To confer with parties concerning the construction of a slaughterhouse.	53.63	Do.
Do. ....	do. ....	Boston, Mass., and Keene, N. H. (Feb. 1–4, 1912.)	To inspect establishments where Federal inspection is maintained.	45.00	Do.
Do. ....	do. ....	Detroit, Mich., and Cleveland, Ohio. (Feb. 8–17, 1912.)	To inspect proposed changes in official establishments and inspect structural conditions at official establishments.	74.94	Do.
Do. ....	do. ....	Philadelphia, Pa. (Mar. 15–16, 1912) .	To inspect building where Federal inspection is maintained.	13.47	Do.
Do. ....	do. ....	Points in States of Illinois, Nebraska, Missouri, Indiana, and Ohio. (Mar. 27–Apr. 13, 1912.)	To inspect building where Federal inspection is maintained.	154.12	Do.

Do.....	do.....	Wilmington, Del. (Apr. 22-23, 1912).	To confer with inspector in charge relative to remodeling a certain establishment.	10.70	Do.
Parks, K. E.....	do.....	Beltsville, Md. (July 1, 1911-Feb. 29, 1912.)	To supervise construction work at experimental farm.	60.31	General expenses, B. A. I., 1912 (dairy industry).
Do.....	do.....	Annapolis, Md. (Mar. 2, 1912).....	To inspect system of ventilation in dairy barn.	2.40	Do.
Do.....	do.....	Beltsville, Md. (Mar. 7, 28, Apr. 5, 15, and 29, 1912.)	To supervise construction work at experimental farm.	3.37	Do.
Do.....	do.....	Baltimore, Md. (Apr. 10, 1912).....	To ascertain prices of materials required for milk house.	3.20	Do.
Do.....	do.....	Beltsville, Md. (May 2-June 25, 1912.)	To supervise construction work at experimental farm.	23.40	Do.
Pickens, J. M.....	Editor and compiler.....	New York, N. Y. (Oct. 4-6, 1911).	To attend meeting of the National Convention on Market Milk.	22.50	General expenses, B. A. I., 1912 (administrative expenses.)
Peffers, H. B.....	Clerk.....	Beltsville, Md. (June 6, 1912).....	To investigate claim for car demurrage.....	.26	General expenses, B. A. I., 1912 (animal husbandry).
Do.....	do.....	do.....	do.....	.26	General expenses, B. A. I., 1912 (dairy industry).
Pike, A. B., jr.....	Junior dairyman.....	Points in Virginia and Maryland. (Aug. 1, 1911-June 30, 1912.)	To engage in dairy farming investigations...	513.50	Do.
Pope, G. W.....	Veterinary inspector....	Points in the vicinity of the District of Columbia. (July 5-Oct. 23, 1911)...	To test cattle for tuberculosis.....	5.80	General expenses, B. A. I., 1912 (inspection and quarantine).
Do.....	do.....	Georgetown, Conn. (Nov. 2-12, 1911).	To obtain information concerning the testing of a herd of cattle for tuberculosis.	19.80	Do.
Do.....	do.....	E. Lansing, Mich. (Feb. 4-11, 1912)...	To assist in conducting a tuberculin test demonstration at the Michigan Agricultural College.	60.95	Do.
Pottelger, C. R.....	Junior dairyman.....	Annapolis, Md. (Feb. 9-29, 1912).....	To inspect system of ventilating a dairy barn..	41.26	General expenses, B. A. I., 1912 (dairy industry).
Do.....	do.....	Annapolis, Md. (Mar. 2-16, 1912).....	do.....	13.20	Do.
Do.....	do.....	Troy, Pa. (June 15-30, 1912).....	To conduct experiments in dairy manufacturing.	18.09	Do.
Potter, G. M.....	Veterinary inspector....	Points in the vicinity of the District of Columbia. (July 1-22, 1911.)	To test cattle for tuberculosis.....	23.98	General expenses, B. A. I., 1912 (inspection and quarantine).
Do.....	do.....	Beltsville, Md. (Aug. 29-Sept. 1, 1911.)	To assist with work at experimental farm...	1.04	General expenses, B. A. I., 1912 (animal husbandry).
Do.....	do.....	Oak Grave, Va. (Sept. 21-23, 1911)...	To investigate a reported outbreak of disease among horses.	9.69	General expenses, B. A. I., 1912 (diseases of animals).
Price, T. M.....	Senior laboratory inspector.	Philadelphia, Pa. (Nov. 10, 11, 1911)...	To inspect an electric meat-curing plant.....	14.50	Meat inspection, B. A. I., 1912.

Statement showing the names of officers or employees (other than special agents, inspectors, or employees who in the discharge of their regular duties are required to constantly travel) who traveled on official business from Washington to points outside the District of Columbia during the fiscal year 1912, etc.—Continued.

## BUREAU OF ANIMAL INDUSTRY—Continued.

Name.	Title.	Destination.	Business or work.	Total expense.	Appropriation.
Price, T. M.....	Senior laboratory inspector.	Indianapolis, Ind., and Chicago, Ill. (Apr. 7-14, 1912.)	To obtain information concerning curing of meat by carbon dioxide and the coloring of hams and beef by the use of steam.	\$84.60	Meat inspection, B. A. I., 1912.
Do.....	do.....	Cumberland, Md. (May 15, 1912)....	To make inspection of station.....	13.84	Do.
Rabild, H.....	Dairymen	Beltsville, Md. (July 10, 1911).....	To assist with work at experimental farm....	.55	General expenses, B. A. I., 1912 (dairy industry).
Do.....	do.....	Annapolis, Md. (July 18, 1911).....	To obtain information relative to proposed use of silos.	1.50	Do.
Do.....	do.....	Points in Virginia. (Aug. 2-6, 1911)...	To render assistance and give advice in the construction of silos.	32.35	Do.
Do.....	do.....	Points in Texas, Illinois, and Michigan. (Oct. 11-Nov. 27, 1911).....	To assist in organizing cow-testing associations. Dallas, Tex.: Attend State fair. Chicago: Attend National Dairy Show to supervise herd demonstration work.	248.77	Do.
Do.....	do.....	Olean, N. Y. (Dec. 12-15, 1911).....	To deliver address on subject of "Cow-testing associations."	30.25	Do.
Do.....	do.....	Pylesville, Md. (Jan. 5-6, 1912).....	To deliver address on work of cow testing...	8.00	Do.
Do.....	do.....	Amherst, Mass., Burlington, Vt., and Hartford, Conn. (Jan. 9-18, 1912)...	Amherst: To attend meeting of the Connecticut Valley Breeders' Association, to deliver address on "Cow-testing associations and their influence on the community." Burlington: Deliver address before the Vermont State Cow-testing Association on "Basis of comparison between individual cows and herds." Hartford: Deliver address before the Connecticut State Dairymen's Association on subjects relating to dairy-farming investigations.	69.94	General expenses, B. A. I., 1912 (dairy industry).
Do.....	do.....	Annapolis, Md. (Feb. 14, 1912).....	To obtain information concerning the proposed erection of silos.	2.25	Do.
Do.....	do.....	Middlebury, Vt., points in New York and Lenape, Pa. (Feb. 21-27, 1912.)	To attend farmers' institute to deliver lectures on the "Production of market milk." Obtain information concerning progress of cow-testing association work in New York. Lenape: Deliver address on subject of "Cow-testing associations."	63.91	General expenses B. A. I., 1912 (administration expenses.)
Do.....	do.....	Points in the State of Texas, Iowa and Ohio. (Mar. 9-28, 1912).....	To investigate progress of dairy-farming investigations and examine herd of cattle.	167.12	General expense B. A. I., 1912 (dairy industry.)



Do.....	do.....	Richmond, Va. (Apr. 3-4, 1912).....	To deliver address on "Cow-testing associations."	7.95	Do.
Do.....	do.....	Nashville, Tenn. (Apr. 7-14, 1912)....	To attend meeting of bureau employees to consider matters relating to investigations.	59.85	Do.
Do.....	do.....	Annapolis, Md. (Apr. 17 and 27, 1912.)	To conduct tests in the feeding of cows.....	6.90	Do.
Do.....	do.....	Annapolis, Md. (May 17 and 16, 1912)	do.....	5.40	Do.
Do.....	do.....	Points in Virginia. (May 20-22, 1912)...	To examine cows for experimental farm.....	17.35	Do.
Do.....	do.....	Points in Virginia. (May 24, 1912).....	do.....	6.50	Do.
Do.....	do.....	Points in South Carolina. (June 3-7, 1912.)	To determine effect of dipping cows to eradicate ticks.	46.45	Do.
Ramsay, R. A.....	Associate Chief, Inspection Division.	Louisville, Ky., and Nashville, Tenn. (July 1-4, 1911.)	To observe progress of bureau work.....	18.30	General expenses, B. A. I., 1912 (inspection and quarantine).
Do.....	do.....	Detroit, Mich.; Chicago, Ill.; Denver, Colo.; Cheyenne, Wyo.; Omaha, Nebr.; St. Joseph, Mo.; Kansas City, Kans.; National Stock Yards, Ill.; Indianapolis, Ind. (Dec. 1-23, 1911.)	To confer with bureau employees and others concerning the inspection and quarantine of live stock, Chicago: To attend meeting of Interstate Live Stock Sanitary Association. Cheyenne: Attend meeting of Wyoming Wool Growers' Association. Omaha: Attend meeting of National Wool Growers' Association.	186.30	Do.
Do.....	do.....	Frankfort and Louisville, Ky. (Mar. 19-23, 1912.)	To confer with State live-stock sanitary officials concerning tuberculin testing of cattle.	50.80	Do.
Do.....	do.....	Omaha, Nebr., St. Joseph, Kansas City, and St. Louis, Mo. (Apr. 30, May 6, 1912.)	To confer with State live-stock sanitary officials and bureau employees relative to eradication of scabies and tuberculin testing of cattle.	118.54	Do.
Ransom, B. H.....	Chief, Zoological Division.	Colorado Springs and Denver, Colo.; Omaha and Bancroft, Nebr.; and Chicago, Ill. (July 6-Oct. 6, 1911.)	To investigate tape-worm diseases of sheep..	363.32	General expenses B. A. I., 1912 (diseases of animals).
Do.....	do.....	Points in Virginia. (Oct. 31-Nov. 2, 1911.)	To investigate parasitic diseases of sheep and other animals.	10.85	Do.
Do.....	do.....	Chicago, Ill. (Dec. 3-8, 1911).....	To attend United States live-stock sanitary association convention.	70.45	Do.
Do.....	do.....	Chicago, Ill.; Omaha, Nebr.; Kansas City and St. Louis, Mo. (Mar. 19-Apr. 14, 1912.)	To investigate parasitic diseases of meat food animals.	208.31	Meat inspection, B. A. I., 1912.
Do.....	do.....	St. Louis, Mo. (June 18-23, 1912).....	To attend bureau's convention of veterinary inspectors on meat inspection.	72.55	Do.
Rawl, B. H.....	Chief, Dairy Division....	Richmond, Va. (July 31, Aug. 1, 1911.)	To purchase two mules for use at experimental farm.	10.30	General expenses, B. A. I., 1912 (dairy industry).
Do.....	do.....	Duluth and St. Paul, Minn.; Madison, Wis.; Chicago, Ill. (Aug. 15-29, 1911.)	Duluth: Read paper at meeting of the Association of State and National Food and Dairy Departments on subject "The production of milk." Other points: Confer with bureau employees regarding progress of work.	131.40	Do.
Do.....	do.....	Milwaukee, Wis. (Oct. 9-12, 1911)....	To attend International Dairy Show.....	56.55	Do.
Do.....	do.....	Chicago, Ill. (Oct. 25-Nov. 5, 1911)....	To attend National Dairy Show.....	91.60	Do.

Statement showing the names of officers or employees (other than special agents, inspectors, or employees who in the discharge of their regular duties are required to constantly travel) who traveled on official business from Washington to points outside the District of Columbia during the fiscal year 1912, etc.—Continued.

## BUREAU OF ANIMAL INDUSTRY—Continued.

Name.	Title.	Destination.	Business or work.	Total expense.	Appropriation.
Rawl, B. H.....	Chief, Dairy Division...	Columbus, Ohio. Points in Missouri and South Carolina. (Nov. 13-20, 1911.)	Columbus: Attend meeting of the Association of Agricultural Colleges and Experiment Stations. Kansas City: Attend meeting of Trans-Mississippi Commercial Congress to deliver address on subject relating to the dairy industry. Other points to confer with bureau employees.	\$85.31	General expenses, B. A. I., 1912 (dairy industry).
Do.....	do.....	Beltsville, Md. (9 round trips in September and 4 in October, 1911.)	To inspect work at experimental farm.....	8.16	Do.
Do.....	do.....	Lansing, Mich., and Norway, Me. (Dec. 4-8, 1911.)	Lansing: Deliver address before Michigan State Association of Farmers Clubs on subject relating to the dairy industry. Norway: Similar address before State Dairyman's Association.	85.70	Do.
Do.....	do.....	Points in Mississippi, Georgia, and Alabama. (Dec. 24-31, 1911.)	Inspect work carried on by the bureau and deliver address before the Mississippi Live Stock and Dairy Association concerning the dairy industry.	64.39	Do.
Do.....	do.....	Annapolis, Md. (Mar. 1, 1912).....	To inspect work of ventilation of dairy barn and feeding of cows.	2.35	Do.
Do.....	do.....	Beltsville, Md. (Mar. 22 and Apr. 4, 1912.)	To inspect work being carried on at experimental farm.	1.20	Do.
Do.....	do.....	Points in Tennessee and Indianapolis, Ind. (Apr. 6-14, 1912.)	To attend annual convention of the Southern Commercial Congress and deliver an address on "Markets for dairy products." Inspect work carried on by Dairy Division.	99.97	Do.
Do.....	do.....	Points in New York, Tennessee, and New Jersey. (Apr. 28, May 10, 1912.)	To inspect work done by field force of the Dairy Division.	139.05	Do.
Rice, J. A.....	Clerk.....	St. Louis, Mo. (June 18-23, 1912)....	Official stenographer at bureau's convention of veterinary inspectors on meat inspection.	46.90	Meat inspection, B. A. I., 1912.
Rogers, L. A.....	Senior bacteriologist.....	Points in Europe. (July 1-Aug. 11, 1911.) (Trip begun in previous fiscal year.)	To attend International Dairy Congress and to investigate dairy conditions with special reference to the utilization of creamery and cheese factory by-products and the distribution of pure cultures for Swiss cheese making; also inspect dairy laboratories.	185.45	General expenses, B. A. I., 1912 (dairy industry).



Do.....	do.....	Troy and State College, Pa. (Sept. 1-29.)	To give advice and instructions in experimental work.	61.72	Do.
Do.....	do.....	Storrs, Conn. (Oct. 16, 19, 1911).....	To confer with director of the Storrs Experiment Station and bureau employees concerning soft-cheese investigations.	27.05	Do.
Do.....	do.....	Troy and State College, Pa. (Nov. 12-17, 1911.)	To give advice and instruction in experimental work.	30.35	Do.
Do.....	do.....	Madison, Wis., and New York, N. Y. (May 13-18, 1912.)	To investigate progress of bureau investigations concerning dairy industry.	73.93	Do.
Do.....	do.....	New Haven, Conn. (June 17-29, 1912.)	To investigate applicants for responsible positions in the Dairy Division laboratories.	44.32	Do.
Rommel, G. M.....	Chief, Animal Husbandry Division.	Points in Vermont and Massachusetts. (July 17-21, 1912.)	Confer regarding work carried on at Morgan horse farm and inspect horses.	36.93	Cooperative experiments in animal feeding and breeding, 1912.
Do.....	do.....	Beltsville, Md. (July 26, 1911).....	To inspect work being carried on at experimental farm.	.57	General expenses, B. A. I., 1912 (animal husbandry).
Do.....	do.....	St. Charles, Ill.; St. Paul and Minneapolis, Minn.; New Salem, N. Dak.; Omaha, Nebr.; Kansas City, Mo.; points in Kansas; Chicago, Ill.; points in Iowa. (Aug. 6-31, 1911.)	Inspect horses for Morgan horse farm. Inspect work in breeding milking shorthorns and Holstein cattle. Look for horses suited for department work in horse breeding and investigate field poultry work.	270.68	Cooperative experiments in animal feeding and breeding, 1912.
Do.....	do.....	Beltsville, Md. (Sept. 4 and 15, 1911.)	Inspect work carried on at experimental farm.	1.31	General expenses, B. A. I., 1912 (animal husbandry).
Do.....	do.....	Points in Vermont. (Sept. 16-Oct. 18, 1911.)	Investigate horse-breeding work of bureau...	42.49	Cooperative experiments in animal feeding and breeding, 1912.
Do.....	do.....	Beltsville, Md. (Oct. 24 and Nov. 17, 1911.)	To inspect work at experimental farm.....	1.78	General expenses, B. A. I., 1912 (animal husbandry).
Do.....	do.....	Front Royal. (Oct. 31-Nov. 1, 1911)..	Inspect work of breeding Army horses.....	3.45	Cooperative experiments in animal feeding and breeding, 1912.
Do.....	do.....	Columbus and Cleveland, Ohio. (Nov. 12-15, 1911.)	To attend meeting of American Society of Animal Nutrition and meeting of American Agricultural Experiment Stations.	45.90	General expenses, B. A. I., 1912 (animal husbandry).
Do.....	do.....	New York, N. Y. (Nov. 20, 24, 1911.)	To attend New York Horse Show.....	44.95	Cooperative experiments in animal feeding and breeding, 1912.
Do.....	do.....	Points in Illinois. (Dec. 2-9, 1911)....	To attend International Live Stock Exposition and examine horses for Morgan horse farm.	76.05	General expenses, B. A. I., 1912 (animal husbandry).
Do.....	do.....	Points in Colorado, Iowa, Illinois, and Ohio. (Jan. 12-24, 1912.)	To attend conferences of board of condemnation and survey; attend Western Live Stock Show; inspect gray draft horse breeding work; visit universities to find prospective graduate to fill vacancy in sheep and goat investigation; inspect Morgan and carriage horses.	183.35	Cooperative experiments in animal feeding and breeding, 1912.

Statement showing the names of officers or employees (other than special agents, inspectors, or employees who in the discharge of their regular duties are required to constantly travel) who traveled on official business from Washington to points outside the District of Columbia during the fiscal year 1912, etc.—Continued.

## BUREAU OF ANIMAL INDUSTRY—Continued.

Name.	Title.	Destination.	Business or work.	Total expense.	Appropriation.
Rommel, G. M.....	Chief, Animal Husbandry Division.	Beltsville, Md. (Feb. 13, 1912).....	To inspect work carried on at experimental farm.	\$0.79	General expenses, B. A. I., 1912 (animal husbandry).
Do.....	do.....	Middlebury, Vt. (Feb. 20-25, 1912)...	To attend farmers' institute and confer with superintendent of Morgan horse farm.	47.00	Do.
Do.....	do.....	Points in Illinois, Ohio, and Pennsylvania. (Mar. 20-24, 1912.)	To look for stallions suitable for bureau's work.	55.71	Cooperative experiments in animal feeding and breeding, 1912.
Do.....	do.....	Points in Tennessee and Alabama. (Apr. 7-14, 1912.)	To attend Southern Commercial Congress and inspect work in beef and pork production.	91.23	General expenses B. A. I., 1912 (animal husbandry).
Do.....	do.....	Beltsville, Md. (Apr. 2, 1912).....	To inspect work being carried on at experimental farm.	.74	Do.
Do.....	do.....	Beltsville, Md. (Apr. 29, 1912).....	do.....	.57	Do.
Do.....	do.....	New York, N. Y. (Apr. 30-May 1, 1912.)	To deliver address at annual banquet of American Jersey Cattle Club.	21.65	Do.
Do.....	do.....	Leesburg, Va. (June 1-2, 1912).....	To select mares for experimental farm.....	1.85	Do.
Do.....	do.....	Beltsville, Md. (June 15, 1912).....	To inspect work at experimental farm.....	.70	Do.
Do.....	do.....	Middlebury, Vt. (June 18-23, 1912)...	To inspect horse-breeding work conducted by the bureau.	37.15	Cooperative experiments in animal feeding and breeding, 1912.
Do.....	do.....	Janesville, Wis. (June 26-30, 1912)...	To purchase mare for Iowa cooperative breeding experiments.	68.73	Do.
Schroeder, E. C.....	Superintendent of experiment station.	Toronto, Canada. (Aug. 20-26, 1911)...	To attend meeting of the National Commission on the Control of Bovine Tuberculosis; also annual meeting American Veterinary Medical Association to present paper on an undescribed pathogenic bacillus discovered in milk at bureau experiment station, Bethesda, Md.	56.25	General expenses, B. A. I., 1912 (diseases of animals).
Do.....	do.....	Germany, France, Italy. (Mar. 23-June 20, 1912.)	To attend the International Tuberculosis Congress and obtain information concerning control of tuberculosis of cattle.	103.23	Do.
Shaw, E. L.....	Animal husbandman...	Beltsville, Md. (Nov. 8, 17, and Dec. 21, 1911, and Jan. 9, 1912.)	To assist with work at experimental farm....	2.54	General expenses, B. A. I., 1912 (animal husbandry).
Do.....	do.....	Casanova, Va. (Feb. 7, 1912).....	To inspect herd of milch goats.....	2.55	Do.
Do.....	do.....	New York, N. Y.; Boston, Mass.; and Middlebury, Vt. (Feb. 18-25, 1912).	To obtain information relative to the sheep and goat investigations of the bureau. Attend farmers' institute and deliver lectures on "Winter lamb raising."	58.71	Do.

Do.....	do.....	Beltsville, Md. (Feb. 29, Mar. 8, 19, and 26, 1912.)	To assist with work at experimental farm....	2.84	Do.
Do.....	do.....	Detroit, Mich.; Laramie, Wyo.; Chicago, Ill.; Middlebury, Vt. (Mar. 28, Apr. 21, 1912.)	To obtain data for bulletin regarding sheep and inspect sheep used in Government experiments.	222.15	Do.
Do.....	do.....	Beltsville, Md. (Apr. 27, 1912).....	To assist with work at experimental farm.	.70	Do.
Do.....	do.....	Beltsville, Md. (May 14, 1912).....	do.....	.70	Do.
Do.....	do.....	Points in Wyoming, Utah, and Montana. (May 25-June 14, 1912).....	To inspect sheep-breeding work and to purchase long wool.	225.97	Cooperative experiments in animal feeding and breeding, 1912.
Shore, H. J.....	Scientific assistant.....	Ames, Iowa. (July 1-Oct. 28, 1911)...	To conduct experiments for the prevention of hog cholera.	331.12	General expenses, B. A. I., 1912 (diseases of animals).
Do.....	do.....	Salisbury, N. C. (Dec. 15-18, 1911)...	do.....	25.00	Do.
Do.....	do.....	Annapolis, Md. (Dec. 27, 1911).....	Investigate reported outbreak of hog cholera.	2.55	Do.
Do.....	do.....	Hunters, Va. (Jan. 26, 1912).....	do.....	.35	Do.
Do.....	do.....	Richmond, Va. (Feb. 14, 1912).....	do.....	10.00	Do.
Slocum, R. R.....	Animal husbandman.....	Beltsville, Md. (July 30, Aug. 26, Oct. 3, 7, 25, Nov. 7, 1911.)	To assist with work at experimental farm....	3.85	General expenses, B. A. I., 1912 (animal husbandry).
Smith, H. E.....	Veterinary inspector....	Points in the vicinity of the District of Columbia. (June 30, 1912.)	To test cattle for tuberculosis.....	486.04	General expenses, B. A. I., 1912 (inspection and quarantine).
Smith, W. H., jr.....	do.....	Philadelphia, Pa. (Sept. 15-16, 1911)...	To confer with manufacturers concerning branding device.	15.00	Meat inspection, B. A. I., 1912.
Do.....	do.....	Norfolk, Va. (Jan. 9-12, 1912).....	To inspect meat-inspection work at that station.	18.40	Do.
Do.....	do.....	Norfolk, Va. (Feb. 18-22, 1912).....	To obtain information concerning shipments of meats alleged to have been uninspected.	28.50	Do.
Snyder, C. E.....	Animal husbandman....	Points in States west of Mississippi River. (July 1-19, 1911.)	To purchase rams for breeding purposes....	253.90	Cooperative experiments in animal feeding and breeding, 1912.
Do.....	do.....	Beltsville, Md. (July 25, 1911).....	To assist with work at experimental farm....	.74	General expenses, B. A. I., 1912 (animal husbandry).
Do.....	do.....	Middlebury, Vt.; Boston, Mass.; points in New Jersey and Pennsylvania. (Aug. 3-12, 1911.)	To select rams for flock at Morgan horse farm; make arrangements to obtain samples of wool from dealers.	83.49	Do.
Do.....	do.....	Columbus, Ohio. (Aug. 15-Sept. 5, 1911.)	To attend State fair to observe showing of sheep and Morgan and carriage horses.	63.70	Cooperative experiments in animal feeding and breeding, 1912.
Do.....	do.....	Beltsville, Md. (Sept. 11, 12, and Oct. 10, 1911.)	To assist with work at experimental farm....	2.10	General expenses, B. A. I., 1912 (animal husbandry.)
Do.....	do.....	Points in Michigan and Illinois. (Sept. 16-Oct. 9, 1911.)	To attend State fairs to observe showing of sheep and Morgan and carriage horses.	164.24	Cooperative experiments in animal feeding and breeding, 1912.
Do.....	do.....	Beltsville, Md. (Oct. 14, 1911).....	To assist with work at experimental farm...	1.97	General expenses, B. A. I., 1912 (animal husbandry).

Statement showing the names of officers or employees (other than special agents, inspectors, or employees who in the discharge of their regular duties are required to constantly travel) who traveled on official business from Washington to points outside the District of Columbia during the fiscal year 1912, etc.—Continued.

## BUREAU OF ANIMAL INDUSTRY—Continued.

Name.	Title.	Destination.	Business or work.	Total expense.	Appropriation.
Snyder, C. E.....	Animal husbandry .....	Laramie, Wyo., and Chicago, Ill. (Oct. 21–Nov. 3, 1911.)	Laramie: To sort ewes used in range sheep breeding. Chicago: To attend National Dairy Show to observe milch goats exhibited.	\$214.20	Cooperative experiments in animal feeding and breeding, 1912.
Do.....	do.....	Beltsville, Md. (Nov. 8, 1911).....	To assist with work at experimental farm...	.70	General expenses, B. A. I., 1912 (animal husbandry).
Do.....	do.....	Points in New York. (Nov. 16–22, 1911.)	To obtain value of range lamb skins.....	53.63	Cooperative experiments in animal feeding and breeding, 1912.
Do.....	do.....	Chicago, Ill., and Omaha, Nebr. (Nov. 30–Dec. 18, 1911.)	To attend International Live Stock Exposition and National Midwinter Sheep Show.	156.85	Do.
Do.....	do.....	Beltsville, Md. (Dec. 21, 1911, and Jan. 9, 1912.)	To assist with work at experimental farm...	1.44	General expenses, B. A. I., 1912 (animal husbandry).
Steddom, R. P.....	Chief, Inspection Division.	New York, N. Y. (July 11–15, 1911)...	To investigate conditions alleged to exist at certain establishments where Federal inspection is maintained.	30.70	Meat inspection, B. A. I., 1912.
Do.....	do.....	Denver, Colo.; Cheyenne, Wyo.; points in Utah, Washington, Oregon, California, and Kansas. (Nov. 29, 1911–Jan. 26, 1912.)	To attend meeting of Wyoming Wool Growers' Association.	126.84	General expenses, B. A. I., 1912 (administration expenses).
Do.....	do.....	do.....	To attend meeting of American National Live Stock Association.	163.94	Meat inspection, B. A. I., 1912.
Do.....	do.....	do.....	To investigate the operations of the bureau field force.	31.00	General expenses, B. A. I., 1912 (inspection and quarantine).
Do.....	do.....	St. Louis, Mo. (June 18, 25, 1912)...	To attend bureau's convention of veterinary inspectors on meat inspection.	69.00	Meat inspection, B. A. I., 1912.
Stuart, D.....	Dairyman.....	Chicago, Ill. (Oct. 23–Nov. 6, 1911)...	To attend National Dairy Show to assist in conducting students' national contest in judging dairy cattle.	97.29	General expenses, B. A. I., 1912 (dairy industry).
Thompson, S. C.....	do.....	Troy, Pa. (July 18–20, 1911).....	To inaugurate records concerning dairy investigations conducted at that point.	20.77	Do.
Do.....	do.....	Troy, Pa. (Aug. 4–7, 1911).....	To inspect records at plant of Troy Creamery Co., and to instruct bureau employees concerning work being done at that place.	22.77	Do.
Do.....	do.....	Hickory, N. C. (Aug. 18–20, 1911)...	To attend creamery picnic to deliver address on subject relating to the dairy industry.	27.05	Do.

Do.....	do.....	Bangor and Orono, Me., and Boston, Mass. (Aug. 31-Sept. 19, 1912.)	To confer with creamery operators concerning conditions.	62.50	Do.
Do.....	do.....	Points in Iowa, Milwaukee, Wis., and Chicago, Ill. (Oct. 9-14, 1911.)	To inspect creameries and confer with bureau employees regarding work. Waterloo: Attend meeting of Iowa State Butter Makers' Association.	80.40	Do.
Do.....	do.....	Richmond, Va. (Oct. 22-24, 1911)....	To assist in obtaining information concerning conditions of the butter market, including renovated butter.	11.60	Do.
Do.....	do.....	Troy, Pa.; Chicago, Ill.; points in Minnesota and Iowa. (Oct. 27-Nov. 9, 1911.)	Troy: To confer with bureau employees concerning progress of work at that point. Chicago: Attend meeting of National Creamery Butter Makers' Convention and meeting of dairy inspectors and instructors. Inspect creameries at other points.	116.61	Do.
Do.....	do.....	Points in California, Oregon, and Washington. (Nov. 17-Dec. 20, 1911.)	To attend meetings of California State Dairyman's Association, Butter and Cheese Makers' Association, Oregon Dairyman's Association, Washington Dairyman's Association, and the Buttermakers' Association.	364.30	Do.
Do.....	do.....	Portland, Me., and Boston, Mass. (Dec. 26-30, 1911.)	Portland: To attend State dairy conference to deliver address on manufacture of butter. Boston: Inspect renovated butter factory.	43.40	Do.
Do.....	do.....	Richmond, Va. (Jan. 15-17, 1912)....	To score butter for Virginia State Dairyman's Association.	15.15	Do.
Do.....	do.....	Charlottesville, Va. (Jan. 31-Feb. 2, 1912.)	To attend meeting of Virginia State Creamery and Buttermakers' Association.	12.15	Do.
Do.....	do.....	Points in State of Illinois, Iowa, Minnesota, Kansas, and Texas. (Mar. 20-Apr. 11, 1912.)	To confer with bureau employees, State dairy officials, and creamery owners and managers concerning progress of work conducted by the bureau.	217.04	Do.
Do.....	do.....	Points in the States of New York and Vermont. (Apr. 28-May 5, 1912)	To inspect work of dairy manufacturing investigations; confer with State dairy officials and inspect a creamery.	70.18	Do.
Do.....	do.....	Troy, Pa. (June 3-5, 1912.).....	To confer with bureau employees regarding work carried on at that point.	20.62	Do.
Tilley, F. W.....	Bacteriologist.....	Atlantic City, N. J. (June 4-6, 1912).	To attend session of American Medical Association for the purpose of obtaining information relative to bactericides.	20.80	Enforcement of the insecticide act.
Traum, J.....	Veterinary inspector....	Purcellville, Va. (May 7, 17, 28, and June 8, 1912.)	To investigate prevalence of abortion among cattle in that vicinity.	8.40	General expenses, B. A. I., 1912 (diseases of animals).
Wade, W. H.....	Skilled laborer.....	Points in the vicinity of the District of Columbia. (July 1, 1911-June 30, 1912.)	Assisting to test cattle for tuberculosis and disinfecting stables.	211.51	General expenses, B. A. I., 1912 (inspection and quarantine.)
Ward, W. F.....	Junior animal husbandman.	Points in Alabama, Illinois, Nebraska, Minnesota, Montana, South Dakota, North Dakota, and Texas. (July 1, 1911-Jan. 15, 1912.)	To make beef production investigations.....	1,252.65	General expenses, B. A. I., 1912 (animal husbandry).

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## BUREAU OF ANIMAL INDUSTRY—Continued.

Name.	Title.	Destination.	Business or work.	Total expense.	Appropriation.
Washburn, H. J.....	Senior bacteriologist....	Kansas City, Mo. (Jan. 27-Feb. 4, 1912).	To attend annual meeting Missouri Valley Veterinary Association to demonstrate various methods of inoculating test cattle with tuberculin.	\$86.45	General expenses, B. A. I., 1912 (diseases of animals).
Wesley, C.....	Messenger.....	Beltsville, Md. (Sept. 1 and 6, 1911.)	To take papers, etc., to experimental farm...	.80	General expenses, B. A. I., 1912 (dairy industry).
Whitaker, G. M.....	Dairyman.....	Points in Massachusetts. (July 25-Aug. 8, 1911.)	To deliver addresses on "Score-card system of inspection."	65.16	Do.
Do.....	do.....	Chicago, Ill.; Philadelphia, Pa.; New York, N. Y.; Boston, Mass.; Columbus, Ohio. (Sept. 27-Oct. 31, 1911.)	To make market milk investigations.....	197.52	Do.
Do.....	do.....	Points in Illinois. (Nov. 1-5, 1911)...	Introduce and instruct in the use of score cards.	39.62	Do.
Do.....	do.....	Points in Ohio, Kentucky, and Virginia. (Nov. 20-29, 1911.)	To deliver addresses at meetings of health officers.	68.45	Do.
Do.....	do.....	Points in New York, Illinois, and Michigan. (Dec. 4-17, 1911.)	To confer with health officers and deliver addresses on "Better milk."	124.94	Do.
Wooden, M.....	Associate Chief, Inspection Division.	Points in New York, Massachusetts, Vermont, New Hampshire, Maine, Connecticut, New Jersey, Pennsylvania, and Maryland. (July 1-Aug. 14, 1911.)	To investigate conditions at establishments where Federal inspection is maintained.	309.57	Meat inspection, B. A. I., 1912.
Do.....	do.....	Providence, R. I., New York, N. Y., and vicinity. (June 12-15, 1912.)	To inspect establishments operating under Federal law.	48.24	Do.
Woodward, B. T.....	Veterinary inspector....	Points in the vicinity of the District of Columbia. (July 1-Feb. 29, 1912.)	To test cattle for tuberculosis.....	74.31	General expenses, B. A. I., 1912 (inspection and quarantine).
Do.....	do.....	Providence, R. I. (Mar. 3-6, 1912)...	To attend farmers' institute to present paper on the "Prevention of tuberculosis in the bovine."	33.20	Do.
Do.....	do.....	Points in the vicinity of the District of Columbia. (Mar. 9-June 30, 1912.)	To test cattle for tuberculosis.....	14.87	Do.
Woodward, T. E.....	Dairyman.....	Beltsville, Md. (Sept. 28, 29, and 30, 1911.)	To assist with work at experimental farm...	2.30	General expenses, B. A. I., 1912 (dairy industry).
Do.....	do.....	Points in Texas. (Oct. 6-Nov. 29, 1911.)	Ship Government property to Brownsville and assist in purchasing equipment for cactus-feeding experiments.	239.53	Do.



Do.....	do.....	Beltsville, Md. (Dec. 6-14, 1911, and Jan. 5 and 16, Mar. 15, 22, 27, 30, Apr. 4 and 19, 1912.)	To assist with work at experimental farm.....	6.75	Do.
Do.....	do.....	Annapolis, Md. (Feb. 3, 12, 14, 17, 26, Mar. 1, 8, 18, 28, Apr. 6, 17, 1912.)	To make tests of the ventilations of dairy barns and conduct experiments in feeding of cows.	46.40	Do.
Do.....	do.....	Points in Texas. (Apr. 21-May 31, 1912.)	To observe progress of cactus feeding.....	169.35	Do.
Do.....	do.....	Beltsville, Md. (June 1, 13, and 25, 1912.)	To assist with work at experimental farm.....	2.55	Do.
Do.....	do.....	Annapolis, Md. (June 3 and 10, 1912.)	To make ventilation tests of dairy.....	5.70	Do.
Do.....	do.....	Points in Virginia, Maryland, Delaware, Pennsylvania, and Michigan. (June 4-30, 1912.)	To purchase cattle for experimental farm and attend meeting of official dairy instructors' association.	134.01	Do.

## BUREAU OF PLANT INDUSTRY.

Adams, James M. R.....	Laboratory aid.....	Ogden, Salt Lake City, Lehi, Garland, Utah. (Aug. 11-Nov. 6, 1911.)	To investigate sugar-beet diseases and related problems, in connection with the improvement of sugar-producing plants.	\$163.05	General expenses, B. P. I., 1912 (sugar plant investigations).
Do.....	do.....	Ogden, Salt Lake City, Lehi, Garland, Utah. (Mar. 12-Apr. 30, 1912.)	do.....	157.80	Do.
Allard, Harry A.....	Scientific assistant.....	Thompson's Mills, Atlanta, Ga. (Sept. 27-Oct. 12, 1911.)	To direct the harvesting of soy beans, peanuts, cotton, and flax for utilization in oil-content determination, in connection with plant nutrition investigations.	60.77	Bacteriology and nutrition.
Do.....	do.....	Suffield, Windsor, East Granby, Conn. (June 6-9, 1912.)	To investigate the condition of the plants in tobacco seed beds in connection with experiments in plant nutrition.	35.47	Do.
Arnold, Jacob H.....	do.....	Winchester, Va.; Romney, Moorefield, Petersburg, Springfield, W. Va. (July 20-29, 1911.)	To study topography and agricultural conditions and to note actual farm operations as a part of farm management investigations.	39.08	Farm management.
Do.....	do.....	Charlestown, Hedgesville, Sleepy Creek, Wardensville, Romney, Inkerman, W. Va. (Aug. 3-11, 1911.)	do.....	37.94	Do.
Do.....	do.....	Charlestown, Martinsburg, Berkeley Springs, Terra Alta, Bethany, Wheeling, W. Va. (Sept. 5-14, 1911.)	do.....	52.40	Do.
Do.....	do.....	Petersburg, Franklin, Romney, W. Va. (Sept. 19-22, 1911.)	do.....	26.11	Do.
Do.....	do.....	Louisville, Shelbyville, Henderson, Bowling Green, Rocky Hill, Somerset, Berea, Ky.; Columbia, Nashville, Tullahoma, McMinnville, Pleasant Hill, Robbins, Sparta, Knoxville, Cumberland Gap, Grand View, Tenn. (Sept. 25-Oct. 24, 1911.)	To advise in planning the operation of several farms and to study agricultural conditions in connection with farm management work.	158.45	Do.
Do.....	do.....	Charlestown, Roncoverte, W. Va.; White Sulphur Springs, Va. (Nov. 8-16, 1911.)	do.....	56.25	Do.

Statement showing the names of officers or employees (other than special agents, inspectors, or employees who in the discharge of their regular duties are required to constantly travel) who traveled on official business from Washington to points outside the District of Columbia during the fiscal year 1912, etc.—Continued.

## BUREAU OF PLANT INDUSTRY—Continued.

Name.	Title.	Destination.	Business or work.	Total expense.	Appropriation.
Arnold, Jacob H. ....	Scientific assistant. ....	Terra Alta, W. Va. (Nov. 20-21, 1911)	To work out plans for operating the farm of the tuberculosis hospital, in cooperation with the State Board of Control of West Virginia.	\$19.68	Farm management.
Do. ....	do. ....	Charlestown, W. Va. (Dec. 26-29, 1911.)	To study agricultural conditions and recommend plans for operating the farm of the colored institute, in cooperation with State superintendent of schools and the State board of control.	29.95	Do.
Do. ....	do. ....	Grafton, Morgantown, W. Va.; Knoxville, Clarksville, Crossville, Nashville, Tenn.; Heidelberg, Richmond, Ky. (Feb. 9-Mar. 4, 1912.)	To secure data on farm operations, to advise regarding farm plans, and to arrange co-operative work in various phases of farm management.	136.40	Do.
Do. ....	do. ....	Romney, W. Va. (Mar. 14-16, 1912.)	To recommend a cropping system for use on the farm of the deaf and blind school, and to secure orchard data, in connection with farm-management investigations.	11.14	Do.
Do. ....	do. ....	Grafton, Pruntyville, Martinsburg, Sleepy Creek, W. Va.; Pearre, Md. (Mar. 27-Apr. 1, 1912.)	To collect data on orchard management and to devise a cropping system for the farm of the West Virginia Reform School.	29.40	Do.
Do. ....	do. ....	Knoxville, Nashville, Cumberland Gap, Clarksville, Tenn.; Bowling Green, Rowletts, Berea, Louisville, Ky. (Apr. 8-24, 1912.)	To arrange cooperative work relative to reorganization of farms, and to inspect work already in progress.	129.48	Do.
Do. ....	do. ....	Romney, W. Va. (Apr. 29-30, 1912.)	To confer with the superintendent of State school farm and give instructions relative to cropping plans for the farm.	10.10	Do.
Do. ....	do. ....	Institute, Bethany, Morgantown, Grafton, Terra Alta, W. Va. (May 26-June 1, 1912.)	To visit school farms for the purpose of inspecting cooperative work and to give further directions for managing these farms.	49.39	Do.
Do. ....	do. ....	Romney, W. Va. (June 22, 1912.)	To confer with managers of the West Virginia State Farm and Deaf and Blind School and advise in regard to farm management work.	12.09	Do.
Do. ....	do. ....	Romney, W. Va. (June 28-29, 1912)	do. ....	13.19	Do.
Bacon, Chas. W. ....	Assistant physiologist. ....	Suffield, Hazardville, East Hartford, Conn. (Aug. 19-Sept. 1, 1911.)	To assist in experiments in the curing of tobacco, in connection with the work in the improvement of tobacco.	51.63	Tobacco investigations.



Bailey, R. Victor.....	Assistant.....	Newell, S. Dak.; Osborn, Mont.; Fallon, Nev.; Hermiston, Oreg.; Salinas, Cal.; Yuma, Ariz.; San Antonio, Tex. (July 1-Sept. 9, 1911.)	To inspect methods in use at field stations for keeping records and handling clerical and fiscal matters, and to institute an improvement and uniformity of business routine.	308.47	Western agricultural extension.
Ball, Carleton R.....	Agronomist.....	Reno, Fallon, Nev.; Logan, Nephi, Utah; Garden City, Hays, Manhattan, Kans. (July 1-15, 1911.)	To study the progress of grain-sorghum investigations and to investigate the possibilities of grain-sorghum production under both dry land and irrigated conditions.	110.22	Grain investigations.
Do.....	do.....	Amarillo, Dalhart, Tex.; Garden City, Kans.; Akron, Denver, Colo.; Newell, Highmore, Huron, Brookings, S. Dak. (Aug. 25-Sept. 11, 1911.)	To consult farmer cooperators, experiment station officials, and wholesale market men and factory men, feed manufacturers, grain inspectors, and commission men relative to the commercial handling of grain-sorghums and other cereals.	215.08	Do.
Do.....	do.....	Amarillo, Tex.; Manhattan, Hays, Kans.; Kansas City, Mo.; Cheyenne, Wyo.; Ames, Iowa. (May 22-June 7, 1912.)	To inspect cereal plot experiments in these sections, to confer with implement dealers relative to machinery for cultivation of broom corn, and to investigate the possibilities for successful cereal culture in dry areas of southeastern Wyoming.	213.46	Do.
Do.....	do.....	Cheyenne, Wyo.; Logan, Salt Lake City, Nephi, Utah; Denver, Akron, Colo. (June 17-29, 1912.)	To confer with officials of the Wyoming State farm board, relative to a site for a new co-operative cereal experiment farm in Wyoming and to inspect work at State experiment stations in connection with cereal investigations.	200.34	Do.
Ballard, Wm. S.....	Assistant pathologist....	Suisun City, Watsonville, Wrights, Berkeley, Cal.; Medford, Corvallis, Portland, Hood River, The Dalles, Oreg.; North Yakima, Walla Walla, Seattle, Wash.; Montrose, Grand Junction, Colo.; Fallon, Hazen, Nev., and other points in States named. (July 1, 1911-Jan. 24, 1912.)	To investigate pear blights, walnut blight, apple rosette, and other diseases of fruits, and to conduct experiments in spraying and other methods for combating and controlling such diseases.	645.99	Fruit diseases.
Do.....	do.....	Watsonville, San Francisco, Berkeley, San Jose, Los Angeles, Riverside, San Dimas, Santa Paula, Santa Barbara, Indio, Cal. (Feb. 20-June 30, 1912.)	do.....	386.95	Do.
Barghausen, John F.....	Mechanician.....	Hartsville, S. C. (Nov. 7-12, 1911) ...	To collect data on methods of picking, storing, ginning, and baling cotton, and to investigate machinery of cotton mills, in connection with the cotton grading and standardization work.	37.00	Cotton standardization.
Bartlett, Harley H.....	Chemical biologist.....	Florence, Ebenezer, S. C.; Asheville, Sprucepine, Saginaw, N. C. (Sept. 22-Oct. 8, 1911.)	To continue work on red pepper selection, to study medicinal plants under cultivation and also their occurrence in the wild state, and to investigate the commercial collection of wild drug plants.	72.09	Drug and other plants.
Do.....	do.....	Annapolis, Chesapeake Beach, Md. (Oct. 16 and 26, 1911.)	To collect material of Triosteum for laboratory examination as to its hydrocyanic acid content as a part of poisonous plant investigations.	4.10	Do.

Statement showing the names of officers or employees (other than special agents, inspectors, or employees who in the discharge of their regular duties are required to constantly travel) who traveled on official business from Washington to points outside the District of Columbia during the fiscal year 1912, etc.—Continued.

## BUREAU OF PLANT INDUSTRY—Continued.

Name.	Title.	Destination.	Business or work.	Total expense.	Appropriation.
Beattie, Wm. R. ....	Assistant horticulturist..	Houston, Port O'Connor, Galveston, Bryan, Tex. (July 18-30, 1911.)	To attend a meeting of the Texas Farmers' Congress and inspect trucking lands in connection with general horticultural investigations.	\$143.00	Arlington farm and horticulture.
Do. ....	do. ....	Norfolk, Diamond Springs, Suffolk, Virginia Beach, Va. (Aug. 18-23, 1911.)	To conduct truck crop and peanut investigations.	26.95	Do.
Do. ....	do. ....	Canajoharie, Palatine Bridge, N. Y. (Aug. 24-26, 1911.)	To investigate at the factory of the Beechnut Packing Co. the utilization of peanuts for the manufacture of peanut butter in connection with the improvement of this crop.	28.75	Do.
Do. ....	do. ....	Crystal Springs, Jackson, Brookhaven, Canton, Miss.; Ardmore, Guthrie, Okla.; Little Rock, Russellville, Ark.; Tyler, Laredo, Denton, Texas; San Antonio, Tex.; Shreveport, Monroe, Alexandria, New Orleans, La. (Aug. 30-Sept. 30, 1911.)	To instruct agents of the farmers' cooperative demonstration work as to the best methods of growing peanuts, with a view to encouraging peanut cultivation as a diversification crop.	292.17	Farmers' cooperative demonstration work.
Do. ....	do. ....	Richmond, Va. (Oct. 12-13, 1911.)	do. ....	11.65	Do.
Do. ....	do. ....	Norfolk, Suffolk, Diamond Springs, Va. (Oct. 26-29, 1911.)	To continue work with peanuts.	19.05	Arlington farm and horticulture.
Do. ....	do. ....	Jackson, Crystal Springs, Utica, Canton, Hazlehurst, Brookhaven, Glosster, Monroe, Vicksburg, Miss.; Texarkana, Ark.; Marshall, San Antonio, Scottsville, Laredo, Tex.; Shreveport, New Orleans, La. (Nov. 5-28, 1911.)	To carry on demonstration work with peanuts.	317.19	Farmers' cooperative demonstration work.
Do. ....	do. ....	Norfolk, Portsmouth, Wakefield, Boykins, Suffolk, Waverly, Dinwiddie, Va. (Dec. 5-9, 1911.)	To attend farmers' institutes at the request of the State commissioner of agriculture and to give talks on peanut cultivation and utilization and to continue peanut investigations.	31.65	Arlington farm and horticulture.
Do. ....	do. ....	Spring Grove, Va. (Jan. 3-4, 1912) ...	To attend a meeting of a portable school of agriculture and to deliver an address on peanut culture at the request of experiment station officials.	14.80	Do.

Do.....	do.....	Pocomoke City, Md.; New York, N. Y.; Philadelphia, Pa. (Jan. 10-12, 1912.)	To investigate truck-crop culture and market conditions and to deliver an address before the Peninsula Horticultural Society in Maryland.	32.22	Do.
Do.....	do.....	Milford, Dover, Smyrna, Del. (Feb. 12-17, 1912.)	To cooperate with the State authorities of Delaware in truck crop features of farmers' institute work.	22.81	Do.
Do.....	do.....	Hackettstown, N. J.; New Haven, Conn.; New York, N. Y. (Apr. 9-12, 1912.)	To investigate problems in connection with the marketing of peanuts and truck crops.	32.00	Do.
Do.....	do.....	Norfolk, Va.; Moyock, N. C. (May 9-12, 1912.)	To continue investigations of peanuts and truck crops.	20.20	Do.
Do.....	do.....	New York, Elmira, N. Y. (June 9-14, 1912.)	To investigate celery and onion cultivation.	32.75	Do.
Do.....	do.....	Moyock, N. C.; Norfolk, Va. (June 20-22, 1912.)	To investigate conditions in connection with the cultivation and handling of truck crops and peanuts.	28.60	Do.
Bennett, C. Morris.....	Scientific assistant.....	Binghamton, Rochester, Albion, Hilton, Syracuse, Sodus, North Rose, Perry, Castile, Kendall, Buffalo, Modeltown, Sheldrake, MacDougall, Seneca Falls, Bellona, N. Y.; Laceyville, Sayre, North East, Pa. (Oct. 7-Nov. 16, 1911.)	To discuss with farmer cooperators problems in connection with the keeping of farm records and to arrange for further development and extension of farm economic investigations, to ascertain areas devoted to the leading farm crops.	124.79	Farm management.
Do.....	do.....	Rocky Mount, N. C. (Jan. 23-27, 1912.)	To confer with cooperators on matters relating to farm economics and to secure data regarding cost-accounting records, in connection with farm management investigations.	19.70	Do.
Do.....	do.....	Wooster, Waukesha, Madison, Blue Mounds, Wis.; Victor, Hartwick, Iowa; Virginia, Ashland, Springfield, Decatur, Ill.; Bloomington, Ind. (Feb. 15-Mar. 13, 1912.)	To consult with State officials, department field men, and farmer cooperators engaged in work on farm cost accounting and other record keeping, and to assist in extending this work.	146.14	Do.
Do.....	do.....	Ovid, Interlaken, Lockport, Rochester, Albion, Medina, Buffalo, Batavia, N. Y. (Mar. 23-29, 1912.)	do.....	43.17	Do.
Do.....	do.....	Laceyville, West Auburn, Lenape, Pa. (Apr. 20-28, 1912.)	do.....	41.27	Do.
Benson, Oscar H.....	Agent.....	Mason City, Clarion, Ames, Iowa; Aberdeen, S. Dak.; Cedar Point, Wooster, Ohio. (June 4-22, 1912.)	To organize and promote boys' and girls' agricultural clubs, in connection with farm management demonstrations and to enlist local cooperation in these efforts.	124.62	Do.
Billings, George A.....	Assistant agriculturist...	New Brunswick, Plainsboro, Freehold, Newark, Woodstown, New Village, N. J.; Milan, Montrose, Allentown, Alford, Pennsburg, Philadelphia, West Chester, Pa.; Kings Park, L. I.; and New York City. (July 5-30, 1911.)	To work out a farm plan for Essex County Insane Hospital; to confer with New York State department of agriculture officials regarding cropping systems for dairy farms belonging to State institutions; and to study other problems relating to systems of farm management.	102.44	Do.

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## BUREAU OF PLANT INDUSTRY—Continued.

Name.	Title.	Destination.	Business or work.	Total expense.	Appropriation.
Billings, George A. ....	Assistant agriculturist ..	Millville, Plainsboro, Trenton, N. J.; Glenlock, Easton, King of Prussia, Schellsburg, Pittsburgh, Grove City, Coatesville, Pa. (Aug. 7–Sept. 28, 1911.)	To plan experimental work in cropping systems, including alfalfa, and embracing farm practice with manures and fertilizers, in cooperation with the New Jersey experiment station, and to conduct general farm management investigations.	\$109.08	Farm management.
Do. ....	.....do.....	Skillman, N. J. (Oct. 5–7, 1911) .....	To outline working plans on two cooperative farms and to study farm management problems.	12.10	Do.
Do. ....	.....do.....	New Brunswick, Plainsboro, Trenton, Skillman, N. J.; East Smithfield, Milan, Bradford, Pa. (Oct. 18–Nov. 1, 1911.)	To assist farmers to reorganize and improve their farming systems, to make plans for farm of State Village for Epileptics of New Jersey, and to study methods of farm practice.	73.94	Do.
Do. ....	.....do.....	Pittsburgh, Greenville, Albion, Allentown, Macungie, Pa.; Skillman, Plainsboro, Newark, N. J. (Nov. 13–23, 1911.)	To secure data regarding farm practices from special cooperators, to plan next season's work, and to study general conditions and possibilities of improvement in farm practice and management.	42.72	Do.
Do. ....	.....do.....	Carlisle, State College, Lockhaven, Easton, Pa.; Plainsboro, Millville, Vineland, Norma, N. J.; New York, N. Y. (Feb. 2–17, 1912.)	To lecture on farm management topics at the Pennsylvania State College, to assist Carlisle Indian School and private cooperators in planning farm work, and to obtain data on farm practice.	64.14	Do.
Do. ....	.....do.....	New Brunswick, N. J. (Mar. 1–2, 1912.)	To arrange with the New Jersey agricultural experiment station for cooperative farm management work in northern New Jersey.	15.15	Do.
Do. ....	.....do.....	State College, Lancaster, Altoona, Reading, Eddington, Pa.; Matawan, Plainsboro, New Brunswick, Summit, N. J. (Mar. 17–27, 1912.)	To confer with experiment-station authorities on farm management extension work and to advise farmers regarding labor schedules, cropping systems, and other details of farm work.	59.61	Do.
Do. ....	.....do.....	Plainsboro, Trenton, Newton, Summit, N. J.; Center Point, Uniontown, Warren, Pennsburg, Butler, Altoona, Schellsburg, Pa. (Apr. 21–May 5, 1912.)	To address farmers' granges at Center Point and Pennsburg regarding proposed farm management work in Montgomery County, Pa.; and to arrange for placing agents in other counties of Pennsylvania and New Jersey to conduct similar investigations and demonstrations.	104.84	Do.

Do.....	..do.....	East Smithfield, Newtown, Allentown, Glenloch, Pa.; Trenton, Plainsboro, New Brunswick, Skillman, N. J. (May 19-June 2, 1912.)	To lecture on farm management topics at farmers' meetings, to give advice as to cropping systems and drainage systems on several farms, and to continue general farm management studies.	43.54	Do.
Do.....	..do.....	Washington, Altoona, State College, Pa. (June 10-12, 1912.)	To confer with officials of the State College and county organizations relative to the selection and appointment of agents to conduct farm management work in Washington and Blair Counties.	30.03	Do.
Do.....	..do.....	West Chester, Harrisburg, Ephrata, Lock Haven, Williamsport, Vineland, Trenton, N. J. (June 16-23, 1912.)	To select territory for an agricultural survey in Pennsylvania and to confer with local organizations in regard to farm management demonstrations in Mercer County, N. J., and other counties in New Jersey and Pennsylvania.	50.24	Do.
Bisset, Peter.....	Expert.....	Brooksville, Orange City, New Smyrna, Homestead, Miami, Palm Beach, Dania, St. Augustine, Jacksonville, Fla.; Savannah, Augusta, Ga.; Columbia, S. C.; Fayetteville, Raleigh, N. C.; Richmond, Providence Forge, Va. (July 1-29, 1911.)	To inspect experiments with foreign plants conducted at the plant-introduction field stations and by private growers, and to arrange for the testing of other introductions.	162.49	Special seeds and plants.
Do.....	..do.....	Easton, Phillipsburg, Riverton, N. J.; Philadelphia, Chestnut Hill, West Grove, Pa.; Baltimore, Md. (Sept. 14-19, 1911.)	To inspect commercial nurseries and trial grounds for the purpose of securing stocks needed at the various plant-introduction testing stations and to visit parks and confer with park commissioners and park superintendents relative to cooperative experiments in the growing and testing of promising street, lawn, and park plants introduced from foreign countries.	29.70	Do.
Do.....	..do.....	Norfolk, Portsmouth, Richmond, Va. (Apr. 2-5, 1912.)	To inspect Dutch bulbs in connection with quotations for furnishing bulbs for Congressional distribution and to obtain information regarding methods of growing and handling bulbs.	21.45	Purchase and distribution of valuable seeds, 1912. Congressional seed distribution.
Do.....	..do.....	Pittsburgh, Pa.; Columbus, Cincinnati, Ohio; St. Louis, Kansas City, Mo.; Denver, Colorado Springs, Colo.; Salt Lake City, Utah; Portland, Oreg.; Seattle, Bellingham, Wash.; Chico, Napa, Fresno, San Francisco, San Diego, Los Angeles, San Fernando, Santa Ana, Riverside, Upland, Whittier, Indio, Redlands, Mecca, Cal.; San Antonio, Brownsville, Tex.; New Orleans, La.; Jacksonville, Pensacola, Brooksville, Fla. (Oct. 4-Dec. 6, 1911.)	To inspect experiments with introduced plants growing at the various departmental gardens and similar experiments by commercial and private growers and to arrange for further tests of imported seeds and plants; and to confer with park officials, officers of civic improvement associations, and other interested parties in connection with the testing of newly introduced seeds and plants, as to their suitability for street, lawn, and park planting.	307.15 128.30	Do. Foreign seed and plant introduction.

Statement showing the names of officers or employees (other than special agents, inspectors, or employees who in the discharge of their regular duties are required to constantly travel) who traveled on official business from Washington to points outside the District of Columbia during the fiscal year 1912, etc—Continued.

## BUREAU OF PLANT INDUSTRY—Continued.

Name.	Title.	Destination.	Business or work.	Total expense.	Appropriation.
Boerner, Emil G.....	Assistant.....	Baltimore, Md.; New York, N. Y. (Feb. 19-23, 1912.)	To make cooperative arrangements with a steamship company and grain exporters for conducting experiments as to keeping qualities of American export corn while in transit to European ports, in connection with grain standardization investigations.	\$19.65	General expenses, B. P. 1., 1912 (grain standardization).
Do.....	do.....	Baltimore, Md.; Rotterdam, Netherlands; Hamburg, Germany; Copenhagen, Denmark; Antwerp, Belgium; Havre, France; London, Liverpool, England; New York, N. Y. (Feb. 26-Apr. 26, 1912.)	To accompany a transatlantic shipment of corn for the purpose of making examinations en route and at destination to determine causes of deterioration while in holds of steamships during the voyage and also to examine other special export shipments of American corn on arrival at European ports.	455.32	Do.
Brand, Charles J.....	Physiologist.....	Portland, Cumberland Mills, Waterville, Me. (July 5-Aug. 25, 1911.)	To supervise paper making from crop and other plant material.	226.24	Paper plant investigations.
Do.....	do.....	Philadelphia, Pa.; New York, N. Y.; Cumberland Mills, Waterville, Fairfield, Me. (Aug. 28-Sept. 19, 1911.)	To continue work on the utilization of crop and other plants in paper making and on the production of food extracts from crop wastes.	111.87	Do.
Do.....	do.....	Chicago, Bloomington, Springfield, Ill.; Greensburg, Lyons, Ind.; Saginaw, Mich.; Winona, Minneapolis, Minn. (Sept. 26-Oct. 15, 1911.)	do.....	219.00	Do.
Do.....	do.....	New York, N. Y.; Boston, Mass.; Portland, Cumberland Mills, Me. (Nov. 8-Dec. 16, 1911.)	do.....	126.43	Do.
Do.....	do.....	Cumberland Mills, Portland, Me. (Jan. 4-17, 1912.)	do.....	97.12	Do.
Do.....	do.....	Jacksonville, Miami, Fla. (Mar. 10-15, 1912.)	To conduct experiments in the growing of ramie and to investigate matters relative to its utilization in manufactures, especially in connection with paper making.	101.85	Do.
Do.....	do.....	Easley, Greenville, Calhoun, Clemson College, Pendleton, S. C.; Atlanta, Ga.; Chattanooga, Jackson, Memphis, Tenn.; Birmingham, Montgomery, Ala.; Jackson, Magnolia, Miss.; New Orleans, La.; Los Angeles, El Centro, Bard, San	To consult with State and Government officials, farmers' organizations, and other persons connected with the cotton industry relative to cooperative cotton handling and marketing work; to inspect gins, presses, storage houses, and other devices or appliances used in the preparation and	508.85	Cotton standardization.



Briggs, Lyman J.....	Physicist.....	Francisco, Cal.; Yuma, Mesa, Ariz.; El Paso, San Antonio, Gardendale, Crystal City, Waco, Dallas, Tex.; Oklahoma, Purcell, Muskogee, Chickasha, Ada, Sapulpa, Okla. (May 15-June 21, 1912.)	handling of the cotton crop; and to inspect cotton fields in order to secure additional data bearing upon these investigations.	538.87	Physical investigations.
Do.....	do.....	Akron, Denver, Colo.; Wamsutter, Wyo; Salt Lake City, Utah; Idaho Falls, Idaho; Hermiston, The Dalles, Moro, Portland, Oreg.; San Francisco, San Dimas, Riverside, Los Angeles, Santa Cruz, Salinas, Placerville, Palo Alto, Sacramento, Cal.; Reno, Carson, Nev.; Battle Creek, Mich. (July 2-Sept. 7, 1911.)	To continue physical field investigations relating to problems in dry farming and to the influence of environmental factors on crop production; to investigate causes of malnutrition of citrus trees; and to confer with cereal manufacturers concerning a method of rapidly determining the moisture content of grain and grain products.	253.59	Do.
Brodie, David A.....	Agriculturist.....	Akron, Grand Junction, Fruita, Colo.; Salt Lake City, Tooele, Grantsville, Utah. (May 22-June 19, 1912.)	To conduct biophysical investigations relative to the water requirements of crop and other plants, the causes of malnutrition of orchard trees, and the tolerance of plants to the accumulation of alkali.	29.18	Farm management.
Do.....	do.....	Binghamton, Dryden, Ithaca, N. Y. (July 17-20, 1911.)	To confer with the field men and inspect cooperative demonstration work in farm management.	41.88	Do.
Do.....	do.....	Binghamton, Dryden, Ithaca, N. Y. (Aug. 27-Sept. 1, 1911.)	do.....	275.83	Do.
Do.....	do.....	Columbia, Hayti, Hannibal, St. Louis, Mo.; Bayard, Iowa; Oklahoma, Okla.; Dallas, College Station, Tex.; Monroe, Sterlington, Shreveport, Alexandria, Baton Rouge, La.; Greenville, Natchez, Miss. (Sept. 5-29, 1911.)	To investigate the results of farm management work upon cropping systems in the cotton boll weevil section, to study the conditions of marketing southern grown hay and determine their relations to farm practice, and to conduct general farm management investigations.	32.68	Do.
Do.....	do.....	Binghamton, Ithaca, N. Y. (Oct. 29-Nov. 1, 1911.)	To confer with field men regarding plans for farm management work.	17.25	Do.
Do.....	do.....	Richmond, Va. (Nov. 7-9, 1911.)	To advise with farmers regarding the management of their farms.	48.05	Do.
Do.....	do.....	Elmira, Bath, Binghamton, Watertown, New York, N. Y. (Nov. 22-28, 1911.)	To confer with chambers of commerce, boards of trade, and railroad officials relative to establishing cooperative farm management demonstration work.	28.72	Do.
Do.....	do.....	Binghamton, Bath, N. Y. (Nov. 20-Dec. 3, 1911.)	To address farmers' meeting and discuss plans for establishing cooperative farm management work.	37.00	Do.
Do.....	do.....	Bath, New York, N. Y. (Dec. 15-19, 1911.)	To lecture before the Steuben County Grange, Bath, N. Y., on farm management topics and confer with railroad officials relative to establishing cooperative farm management work.	19.94	Do.
Do.....	do.....	Newton, N. J. (Jan. 11-12, 1912.)	To lecture before a farmers' meeting and to arrange cooperative experiments and demonstrations, in connection with farm management work.		

Statement showing the names of officers or employees (other than special agents, inspectors, or employees who in the discharge of their regular duties are required to constantly travel) who traveled on official business from Washington to points outside the District of Columbia during the fiscal year 1912, etc.—Continued.

## BUREAU OF PLANT INDUSTRY—Continued.

Name.	Title.	Destination.	Business or work.	Total expense.	Appropriation.
Brodie, David A. ....	Agriculturist .....	Newton, Morris Plains, Grenloch, N. J. (Feb. 8-15, 1912.)	To confer with State, railroad, and local officials relative to appointment of county agents and formulation of plans for cooperative farm management, demonstrations, and studies.	\$62.59	Farm management.
Do. ....	do. ....	Philadelphia, Pa. (Mar. 15, 1912) ....	To address the Pennsylvania Rural Improvement Association on farm management topics and to confer with cooperators regarding extension work.	10.35	Do.
Do. ....	do. ....	Hampton, Va. (Mar. 25-26, 1912) ....	To confer with officials at Hampton Institute relative to cooperative farm management work.	16.15	Do.
Do. ....	do. ....	Albany, N. Y. (Apr. 2-3, 1912) ....	To confer with cooperators in regard to farm management investigations.	26.65	Do.
Do. ....	do. ....	Newton, Binghamton, Elmira, N. Y. (Apr. 9-12, 1912.)	do. ....	38.84	Do.
Do. ....	do. ....	Detroit, Mich.; Columbia, Mo. (Apr. 16-22, 1912.)	do. ....	84.45	Do.
Do. ....	do. ....	Elmira, Binghamton, N. Y. (May 29-31, 1912.)	do. ....	28.00	Do.
Do. ....	do. ....	Newton, N. J.; New York, N. Y. (June 7-8, 1912.)	do. ....	23.62	Do.
Do. ....	do. ....	New York, Ithaca, Utica, Watertown, N. Y.; Newton, N. J. (June 13-21, 1912.)	do. ....	66.88	Do.
Brown, Edgar .....	Botanist in charge of seed laboratory.	Hamburg, Berlin, Stettin, Danzig, Konigsberg, Germany; Posen, Prussia; Libau, Schawli, Telochi, Sjady, Skkudy, Prekuln, Russia. (July 28-Sept. 7, 1911.)	To investigate the production and handling of hairy vetch seed in relation to its exportation to the United States in connection with the study and testing of commercial seeds.	441.44	Seed testing laboratory.
Do. ....	do. ....	Columbus, Ohio. (Nov. 15-18, 1911.)	To attend a meeting of the Association of Official Seed Analysts in connection with the seed-testing work.	39.75	Do.
Do. ....	do. ....	Leonardtown, Md. (Apr. 29-30, 1912.)	To investigate experimental work on the growing of hairy vetch seed as a part of seed-testing work.	6.20	Do.
Brown, Ernest B. ....	Assistant physiologist ...	Cypress, Shreveport, Benton, Monroe, Rayville, Newellton, La.; Natchez, Port Gibson, Vicksburg, Jackson, West Point, Greenville, Clarksdale,	To conduct general investigations in corn growing, cultivation and breeding of improved varieties, to consult with farmer cooperatives and learn the results obtained	411.62	Grain investigations.

		Miss.; Pine Bluff, Ark.; Waco, Corsicana, MacAllen, Parksdale, Rosenberg, Beaumont, Nacogdoches, Marshall, Tex.; and other points in States named. (July 1-Sept. 18, 1911.)	from planting seed of improved strains of corn distributed by the department.		
Do.....	do.....	Derwood, Md.; Occoquan, Vienna, Round Hill, Va. (Sept. 22-Oct. 14, 1911.)	To superintend the harvesting of experimental plats of corn and collect data regarding the work.	17.96	Do.
Do.....	do.....	Waco, Corsicana, Forney, Marshall, San Antonio, Tex.; Murfreesboro, Tenn. (Feb. 9-May 4, 1912.)	To continue experiments and demonstrations in the production of higher-yielding and more profitable strains of corn by breeding, seed selection, preservation, etc., and to investigate other related problems in connection with the corn work.	362.10	Do.
Bunzel, Herbert H.....	Chemical biologist.....	Chicago, Ill.; Odgen, Salt Lake City, Utah. (July 26-Sept. 10, 1911.)	To conduct fermentation investigations on the curly-top disease of sugar beets by means of oxidose determinations as a part of general physiological and fermentation studies of plants.	189.76	Drug and other plants.
Burritt, Maurice C.....	Scientific assistant.....	Ithaca, Jordanville, Schenectady, Hoosic Falls, East Chatham, Westerlo, Essex, Hilton, Delhi, Syracuse, Binghamton, and other points in New York; Poultney, Vt.; Champaign, Urbana, Virginia, Ill.; Des Moines, Manning, Bayard, Iowa; Pennville, Grand Rapids, Owosso, Flint, Lansing, Mich. (July 1-Oct. 3, 1911.)	To investigate methods of farm practice, especially in the growing of oats, wheat, corn, beans, and hay; and to advise with farmers regarding cropping systems and general farm management problems.	345.94	Farm management.
Carleton, Mark A.....	Cerealist in charge of grain investigations.	Manhattan, Kans.; Moccasin, Huntley, Havre, Mont.; Worland, Wyo.; Dickinson, Fargo, N. Dak.; Moscow, Gooding, Aberdeen, Boise, Idaho; Brookings, S. Dak.; Pullman, Spokane, Wash.; Lethbridge, Canada; Moro, Corvallis, Oreg. (July 23-Aug. 28, 1911.)	To inspect experimental work with cereal crops at the various field stations of the department and in cooperation with experiment stations and individual farmers; to advise with farmers regarding cereal cultivation, breeding methods, crop rotation practices, etc., to confer with grain dealers and millers relative to marketing cereals.	433.23	Grain investigations.
Do.....	do.....	Chicago, Ill.; Colorado Springs, Colo.; Dalhart, Amarillo, Tex.; Tucumcari, N. Mex.; St. Louis, Mo. (Oct. 4-Nov. 2, 1911.)	To inspect cooperative experimental work with cereals and to confer with grain dealers, millers, and other commercial men regarding the uses and handling of cereal products.	179.61	Do.
Do.....	do.....	New York, N. Y. (Nov. 12-19, 1911.)	To consult grain dealers, millers, bakers, and other handlers of grain products, relative to markets for and commercial values of different kinds of cereals.	68.92	Do.

Statement showing the names of officers or employees (other than special agents, inspectors, or employees who in the discharge of their regular duties are required to constantly travel) who traveled on official business from Washington to points outside the District of Columbia during the fiscal year 1912, etc.—Continued.

## BUREAU OF PLANT INDUSTRY—Continued.

Name.	Title.	Destination.	Business or work.	Total expense.	Appropriation.
Carlton, Mark A .....	Cerealist in charge of grain investigations.*	St. Louis, Mo.; San Antonio, Brownsville, Beaumont, Tex.; Crowley, Baton Rouge, La.; Biloxi, Miss.; Mobile, Ala.; Tallahassee, Jacksonville, Coconut Grove, Miami, Homestead, Key West, Fort Myers, Citrus Center, Arcadia, Winter Haven, Fla.; Raleigh, N. C. (Dec. 22, 1911-Feb. 11, 1912.)	To confer with grain dealers, malsters, and exporters regarding markets for wheat and other cereals, to inspect cooperative experimental work in cereal production, and to study conditions for cereal growing in the South, particularly in southern Texas and Florida.	\$348.63	Grain investigations.
Do.....	do.....	Harrisburg, State College, Pa.; St. Louis, Mo.; Manhattan, Hays, Kans.; Nara Visa, N. Mex.; Amarillo, Tex.; Oklahoma, Sapulpa, Okla. (May 16-June 3, 1912.)	To confer with officials of State experiment stations concerning experiments with cereals, to secure data regarding milling and baking tests, and to inspect cereal experimental plats in connection with the work in cereal improvement.	154.10	Do.
Cates, Junius S .....	Assistant agriculturist...	Greensboro, Melbane, Graham, Fayetteville, Raleigh, Goldsboro, Wilson, Lamberton, Laurinburg, Charlotte, N. C. (July 4-27, 1911.)	To study farm practice and methods of farm management, to inspect cooperative experimental work, and assist in conducting farm-management demonstration work.	121.00	Farm management.
Do.....	do.....	Auburn, Me.; Beverly, Mass. (Aug. 14-18, 1911.)	To conduct investigations in the eradication of quack grass as a part of farm-management work.	59.15	Do.
Do.....	do.....	Graham, Raleigh, Wilson, Rocky Mount, Wilmington, Salisbury, Greensboro, Mebane, Burlington, N. C. (Aug. 21-Sept. 20, 1911.)	To collect data on types of farming, farm organization, and to investigate other farm-management problems.	103.25	Do.
Do.....	do.....	Graham, Raleigh, Wilson, Rocky Mount, Wilmington, Salisbury, Greensboro, Mebane, Burlington, N. C. (Sept. 28-Oct. 31, 1911.)	.....do.....	101.75	Do.
Do.....	do.....	Graham, Raleigh, Wilson, Rocky Mount, Wilmington, Salisbury, Greensboro, Mebane, Burlington, N. C. (Nov. 1-Dec. 5, 1911.)	.....do.....	101.55	Do.
Do.....	do.....	Graham, Raleigh, Wilson, Rocky Mount, Wilmington, Salisbury, Greensboro, Mebane, Burlington, N. C. (Nov. 27-30, 1912.)	.....do.....	27.60	Do.

Chambliss, Chas. E. ....	Agronomist in charge of rice investigations.	Knoxville, Crowley, Lake Charles, New Orleans, La.; Beaumont, College Station, Tex.; Chicago, Ill.; St. Paul, Minn.; Vancouver, B. C.; Portland, Corvallis, Oreg.; Red Bluff, Chico, Biggs, Colusa, Wheatland, San Francisco, Marysville, Stockton, Merced, Sacramento, Cal.; Lakeland, Kissimmee, Goulds, Fla.; Jacksonboro, S. C. (July 19-Sept. 30, 1911.)	To study experimental planting of rice, to confer with station officials and others interested in the rice growing and improvement, to investigate wild rices and their use as food, to inspect rice mills, to consult with importers of rice, and to inaugurate further cooperative experimental work with this crop.	611.53	Grain investigations.
Do. ....	do. ....	Chicago, Ill.; Milwaukee, Wis. (Oct. 11-21, 1911.)	To confer with grain dealers, millers, and others in regard to the commercial uses of rice in connection with investigations in the improvement of cereals.	99.70	Do.
Do. ....	do. ....	Beaumont, College Station, Houston, Tex.; Crowley, Lake Charles, Baton Rouge, La.; San Francisco, Chico, Stockton, Merced, Los Angeles, Cal.; Corvallis, Oreg. (Jan. 4-Mar. 4, 1912.)	To inspect cooperative experiments with rice and to confer with experiment station and private cooperators and to arrange plans for extending the experimental work in rice cultivation and improvement.	554.04	Do.
Do. ....	do. ....	San Francisco, Marysville, Chico, Sacramento, Stockton, Biggs, Cal.; Beaumont, Tex. (Apr. 18-May 24, 1912.)	To confer with officials of the Sacramento Valley Grain Association relative to the establishment of a cereal-testing station near Biggs, Cal., and to arrange for experimental work with rice near Houston and Beaumont, Tex., in cooperation with the Texas experiment station.	335.65	Do.
Chase, Agnes. ....	Scientific assistant. ....	El Paso, Van Horn, Siena, Blanca, Marfa, Rockport, Tex.; Lake Charles, La. (May 17-June 14, 1912.)	To collect and study grasses in connection with the preparation of a manual of North American grasses, as a part of the taxonomic work.	207.80	Taxonomic and range investigations.
Chilcott, Ellery C. ....	Agriculturist in charge of dry-land agriculture.	Ardmore, Hot Springs, Oelrichs, S. Dak.; Lincoln, Beatrice, North Platte, Mitchell, Alliance, Nebr.; Akron, Denver, Trinidad, Colo.; Dalhart, Midland, El Paso, Snyder, Lubbock, Amarillo, Tex.; Tucumcari, N. Mex.; Garden City, Manhattan, Kans. (Aug. 25-Sept. 28, 1911.)	To inspect work in progress at the dry-farming field stations of the department, located in the Great Plains area; to investigate possible sites for new field stations; and to continue the study of general farming conditions in the Great Plains region.	392.29	Dry-land agriculture.
Do. ....	do. ....	Garden City, Kans.; Dalhart, Tex.; Denver, Akron, Colo.; Ardmore, S. Dak.; Billings, Mont. (May 28-June 22, 1912.)	do. ....	431.89	Do.
Clark, Charles F. ....	Scientific assistant. ....	Denver, Longmont, Fort Collins, Greeley, Grand Junction, Colo.; Ogden, Logan, Garland, Lehi, Salt Lake City, Utah; Garden City, Kans.; Geneva, Ithaca, N. Y. (July 1-Dec. 22, 1911.)	To continue experiments in the cultivation and improvement of sugar beets and to study conditions of the sugar-beet industry.	206.12	Sugar plant investigations.

Statement showing the names of officers or employees (other than special agents, inspectors, or employees who in the discharge of their regular duties are required to constantly travel) who traveled on official business from Washington to points outside the District of Columbia during the fiscal year 1912, etc.—Continued.

## BUREAU OF PLANT INDUSTRY—Continued.

Name.	Title.	Destination.	Business or work.	Total expense.	Appropriation.
Clark, Charles F. ....	Scientific assistant .....	Garden City, Kans. (Mar. 30-June 30, 1912.)	To continue experiments in the culture and improvement of sugar beets and sorghum, in connection with their utilization as sugar-producing crops.	\$84.27	Sugar plant investigations.
Clark, Charles H. ....	Expert .....	Sacaton, Ariz.; Bard, El Centro, Cal. (July 6-Sept. 1, 1911.)	To conduct experiments in the acclimatization and breeding of cotton and to secure data on results of the season's work.	186.35	Crop acclimatization.
Do .....	do .....	San Antonio, Del Rio, Tex.; Tucson, Ariz.; Bard, Cal. (Sept. 6-Oct. 30, 1911.)	do .....	169.40	Do.
Do .....	do .....	San Antonio, Tex. (May 1-June 30, 1912.)	do .....	102.60	Do.
Clark, Harry H. ....	Assistant .....	Wooster, Ohio. (June 9-29, 1912.) ....	To assist officials of the Ohio experiment station to work out statistical tables from data secured in farm cost-accounting investigations.	84.36	Farm management.
Clark, W. Blair .....	Expert .....	Garden City, Kans.; St. Louis, Mo.; New Marshfield, Ohio. (Sept. 9-Dec. 26, 1911.)	To investigate the sugar content and conduct other analytical work on sugar beets in field laboratories, in connection with the work of improving sugar-producing plants.	114.91	Sugar plant investigations.
Do .....	do .....	Chicago, Ill.; Madison, Milwaukee, Wis.; Cincinnati, Cozaddale, Ohio. (June 14-22, 1912.)	To confer with department officials and sugar company representatives in regard to sugar-cane and sugar-beet breeding experiments, and to continue laboratory work on the analysis of sugar beets.	52.89	Do.
Clawson, Arthur B. ....	Physiologist .....	Baldwin, Colo. (July 1-Sept. 30, 1911.)	To investigate poisonous plants responsible for great losses of cattle on the stock ranges.	74.95	Drug and other plants.
Do .....	do .....	Baldwin, Salida, Denver, Colo.; Grey-cliff, Mont. (May 15-June 2, 1912.)	do .....	122.04	Do.
Cobb, Nathan A. ....	Agricultural technologist.	Kansas City, Mo.; Manhattan, Kans.; Waco, Dallas, San Antonio, Tex.; Yuma, Ariz.; Los Angeles, Riverside, Redlands, Whittier, Indio, Cal.; Denver, Akron, Colo.; Minneapolis, Madison, Wis.; Chicago, Ill. (Sept. 23-Oct. 22, 1911.)	To make an administrative inspection of work at various department field stations; to confer with experimental station officials and cooperators; to study the cause of deterioration of citrus orchards; to make arrangements for harvesting, ginning, baling, compressing, and shipping cotton; and to represent the bureau at the Conservation Congress in Kansas City.	259.51	Administrative and miscellaneous.
Do .....	do .....	Boston, Worcester, Mass. (Jan. 18-25, 1912.)	To study the cotton industry in relation to official grades and standards; to inspect various kinds of spinning machinery; to	52.45	Cotton standardization.



Do.....do.....		Los Angeles, Riverside, Chico, Middle River, San Francisco, Sacramento, Cal.; Grand Junction, Colo. Mar. 4-Apr. 7, 1912.	arrange for spinning cotton handled under contract by the department, and to investigate other problems incident to the work of cotton standardization.	347. 41	Administrative and miscellaneous.
Cook, O. F.....	Bionomist in charge of crop acclimatization and cotton breeding.	San Antonio, Del Rio, Waco, Crystal City, Victoria, Tex.; Bard, El Centro, Los Angeles, Indio, Cal. (Sept. 6-Nov. 28, 1911.)	To investigate malnutrition of plants and deterioration of crops under irrigation and to inspect the experimental work at various department field stations.	375. 93	Crop acclimatization.
Do.....do.....		Waco, San Antonio, Tex.; Yuma, Tucson, Ariz.; Bard, Meloland, Holtsville, Santa Barbara, Cal. (Apr. 29-June 27, 1912.)	To inspect and study field experiments in the acclimatization and breeding of cotton and corn and to plan experimental work for the coming season.	269. 61	Do.
Corbett, Lee C.....	Horticulturist in charge of Arlington farm and horticulture.	Geneva, Ithaca, Rochester, Honeoye Falls, N. Y. (Aug. 8-10, 1911.)	To inspect potato trials and to confer with officials of the Cornell Experimental Station relative to experimental work in the culture of beans and potatoes.	23. 98	Arlington farm and horticulture.
Do.....do.....		Boston, Concord, Mass. (Sept. 19-22, 1911.)	To investigate conditions in the trucking industry and to deliver an address on the preservation and cold storage of vegetables before the Vegetable Growers' Association at Boston as a part of general horticultural investigations.	44. 10	Do.
Do.....do.....		Mitchell, Lincoln, Nebr.; Denver, Fort Collins, Greeley, Col. (Oct. 4-16, 1911.)	To investigate problems in connection with the culture of potatoes and other truck crops.	147. 50	Dry-land agriculture.
Do.....do.....		Norfolk, Diamond Springs, Va. (Oct. 26-28, 1911.)	To inspect experimental work with truck crops in cooperation with the Virginia truck experiment station.	14. 15	Arlington farm and horticulture.
Do.....do.....		Elmira, Ithaca, N. Y. (Feb. 18-23, 1912.)	To investigate truck-crop conditions and ascertain the adaptability of soils for culture of celery and onions, and to inspect celery under cold-storage conditions.	32. 23	Do.
Do.....do.....		Hoboken, Newton, N. J.; New York, N. Y. (June 6-8, 1912.)	To investigate truck-crop conditions as a part of the general horticultural work.	19. 49	Do.
Corder, George.....	Unskilled laborer.....	Honeoye Falls, N. Y. (June 1-14, 1912.)	To assist in planting potatoes in the experimental trial plats in connection with general horticultural investigations.	46. 96	Do.
Cotton, John S.....	Assistant agriculturist...	Burnt Hills, Binghamton, Roxbury, Delhi, Beerston, Whitney Point, Little Falls, N. Y.; Boston, Beverly, Mass.; Pratts, Milford, Hookset, Dover, Franklin, N. H.; White River Junction, Pittsford, Rutland, Burlington, Vt.; Portland, Kennebunk, Turen, China, Canton, Rumford, Me. (July 8-Sept. 6, 1911.)	To investigate the management and improvement of pastures and in the production of feed for live stock, as a feature of farm management work.	224. 40	Farm management.

Statement showing the names of officers or employees (other than special agents, inspectors, or employees who in the discharge of their regular duties are required to constantly travel) who traveled on official business from Washington to points outside the District of Columbia during the fiscal year 1912, etc.—Continued.

## BUREAU OF PLANT INDUSTRY—Continued.

Name.	Title.	Destination.	Business or work.	Total expense.	Appropriation.
Cotton, John S.....	Assistant agriculturist...	Binghamton, Ithaca, Elmira, N. Y.; Alford, Schellsburg, Harrisonville, Pa. (Sept. 27–Oct. 7, 1911.)	To investigate the management and improvement of pastures and in the production of feed for live stock, as a feature of farm management work.	\$55.73	Farm management.
Do.....	do.....	Wooster, Washington C. H., Columbus, Ohio; Rushville, Lafayette, Bedford, Ind.; Danville, Decatur, Warrensburg, Va.; Chicago, Seneca, Ill.; Cedar Rapids, Belle Plain, Fort Dodge, Iowa; Norfolk, Wakefield, Scribner, Central City, Nebr.; Denver, Colo.; Cheyenne, Wyo.; Manhattan, Kans.; Kansas City, Warrensburg, St. Louis, Mo. (Apr. 19–May 25, 1912.)	To study cropping systems used on farms producing beef and to investigate the relationship of cattle production to such cropping systems, in connection with farm management investigations.	245.44	Do.
Do.....	do.....	Burnt Hills, Binghamton, N. Y.; Roxbury, Vt. (June 26–29, 1912.)	To continue investigations in the management and improvement of pastures in its relation to farm management.	39.13	Do.
Coville, Frederick V.....	Botanist in charge of taxonomic and range investigations.	Elkhart, Ind.; New Lisbon, N. J. (July 14–20, 1911.)	To investigate the field culture of the blueberry incidental to a monographic study of this fruit.	59.61	Taxonomic and range investigations.
Do.....	do.....	New Lisbon, N. J. (May 21–23, 1912.)	To examine field planting of blueberries; to lay out further plantations; to secure material for crossing; and to make observations on selected wild bushes.	10.58	Do.
Cox, Herbert R.....	Scientific assistant.....	Pittsburgh, Carnegie, West Nanticoke, Bridgeville, Pa.; Canton, Painesville, New Berlin, Port Clinton, Delta, Gynsum, Bowling Green, North Baltimore, Delaware, Osnaburg, Gates Mills, Ohio; Westfield, Mayville, Geneva, Ithaca, Jamaica, Queens, N. Y.; New Brunswick, N. J. (July 7–Aug. 8, 1911.)	To study farm practice with reference to the eradication of quack grass, Canada thistle, wild mustard, and orange hawkweed.	123.82	Farm management.
Do.....	do.....	Graham, Raleigh, Wilson, Rocky Mount, Wrightsville, Fayetteville, N. C.; Norfolk, Va. (Aug. 21–31, 1911.)	To study methods of eradicating nut grass, Bermuda grass, and wild onion, in connection with farm management.	73.85	Do.
Do.....	do.....	Bridgeville, Carnegie, Pa.; Canton, Massillon, New Berlin, Ohio; Baker City, La Grande, Milton, Portland,	To investigate methods of farm management in relation to the eradication of wild morning-glory, Canada thistle, quack	437.67	Do.

		Hood River, Roseburg, Medford, Oreg.; Walla Walla, Colfax, Pullman, Spokane, Puyallup, Bellingham, Seattle, Wash.; Culdesac, Irwinton, Kendrick, Moscow, Idaho; San Jose, Santa Clara, Berkeley, Watsonville, Salinas, Ontario, Whittier, Cal. (Sept. 15-Nov. 22, 1911.)	grass, blue lettuce, fern, and other weeds, including a study of kinds of farm implements used, crop rotation systems, etc.		
Do.....	do.....	New Brunswick, N. J.; Delhi, Binghamton, Ithaca, N. Y. (May 28-June 4, 1912.)	To inaugurate experiments in the control of weeds in pastures, and to conduct other farm management investigations.	52.64	Do.
Do.....	do.....	Richmond, Williamsburg, Va. (June 27-30, 1912.)	To study methods of controlling wild onion and nut grass.	23.10	Do.
Cox, John H.....	Assistant.....	Baltimore, Md.; Philadelphia, Pa. (Mar. 11-16, 1912.)	To secure samples of export corn at time of loading for test in connection with grain standardization investigations.	21.52	Grain standardization.
Do.....	do.....	Baltimore, Md.; Liverpool, London, England; Cardiff, Wales; New York, N. Y. (Apr. 15-May 29, 1912.)	To accompany a shipment of export corn in order to make examinations en route and at destination to determine causes which lead to deterioration of corn in holds of steamships while in transit from the States to European ports.	310.51	Do.
Crandall, E. L.....	Photographer.....	Vineland, N. J. (Sept. 2-7, 1911).....	To make autochrome photographs of vines and grapes in the cooperative experimental vineyard for use in the work of improving fruits and methods of fruit growing.	20.29	Pomological investigations.
Do.....	do.....	Wyomissing, Pa. (June 4-10, 1912)...	To take photographs of peony plants in connection with tests of varieties grown for congressional distribution.	29.15	Purchase and distribution of valuable seeds 1912. Congressional seed distribution.
Crawford, Gilbert H., jr... ..	Expert.....	Puyallup, Tacoma, Wash.; Salem, Oreg.; Lodi, Cal. (July 1-Nov. 4, 1911.)	To assist with experiments in the precooling, shipping, and storage of fruits.	368.67	General Expenses, B. P. I., 1912. Pomological investigations.
Cron, Alexander B.....	Assistant in agronomy..	Rocky Mount, Washington, Tarboro, Raleigh, Durham, N. C.; Emporia, Petersburg, Norfolk, Va.; Laurel, Del. (July 4-25, 1911.)	To secure data on fertilization experiments with alfalfa in connection with the improvement of forage crops.	140.45	Forage crop investigations.
Do.....	do.....	Purcellville, Round Hill, Hamilton, Leesburg, Va. (Aug. 2-4, 1911.)	To inspect experimental plats of alfalfa in connection with the investigation and improvement of forage crops.	6.00	Do.
Do.....	do.....	Richmond, South Boston, Chester Springs, Va. (Aug. 18-23, 1911.)	do.....	31.05	Do.
Do.....	do.....	Rocky Mount, Washington, N. C.; Powhatan, C. H., Emporia, Norfolk, Va. (Sept. 4-14, 1911.)	To continue note taking on fertilizer tests with alfalfa and to address the Powhatan County Alfalfa Growers' Association on the subject of alfalfa growing.	61.34	Do.
Do.....	do.....	York, Lancaster, Pa.; Dover, Laurel, Del. (Sept. 25-28, 1911.)	To collect data on fertilizer tests with alfalfas in connection with the improvement of forage crops.	32.84	Do.
Do.....	do.....	Fredericksburg, Va. (Nov. 20-21, 1911.)	do.....	4.75	Do.

Statement showing the names of officers or employees (other than special agents, inspectors, or employees who in the discharge of their regular duties are required to constantly travel) who traveled on official business from Washington to points outside the District of Columbia during the fiscal year 1912, etc.—Continued.

## BUREAU OF PLANT INDUSTRY—Continued.

Name.	Title.	Destination.	Business or work.	Total expense.	Appropriation.
Cron, Alexander B. ....	Assistant in agronomy..	Rocky Mount, Washington, N. C.; Emporia, Petersburg, Norfolk, Va. (Mar. 18-23, 1912.)	To collect data on fertilizer tests with alfalfas in connection with the improvement of forage crops.	\$40.80	Forage crop investigations.
Do .....	..do.....	Lancaster, York, Pa. (Mar. 27-28, 1912.)	.....do.....	17.14	Do.
Do .....	..do.....	Lancaster, York, Pa. (Apr. 8-9, 1912.)	.....do.....	15.15	Do.
Do .....	..do.....	Washington, Greenville, Rocky Mount, Scotland Neck, N. C.; Emporia, Petersburg, Port Conway, Va. (May 2-11, 1912.)	.....do.....	51.07	Do.
Do .....	..do.....	Norfolk, Petersburg, Va.; Rocky Mount, N. C. (May 14-17, 1912.)	.....do.....	27.95	Do.
Do .....	..do.....	York, Pa. (May 24, 1912.)	.....do.....	8.48	Do.
Do .....	..do.....	Port Conway, Rappahannock, Va. (May 26-30, 1912.)	.....do.....	10.00	Do.
Do .....	..do.....	Dover, Del. (June 1, 1912.)	.....do.....	8.01	Do.
Do .....	..do.....	Fredericksburg, Emporia, Petersburg, Va.; Washington, Rocky Mount, N. C. (June 10-13, 1912.)	.....do.....	35.00	Do.
Do .....	..do.....	York, Lancaster, Pa. (June 24-26, 1912.)	.....do.....	20.15	Do.
Crosby, Matt. A .....	Assistant agriculturist...	Macon, Biloxi, Columbus, Greenville, Starkville, Miss.; Uniontown, Opelika, Montgomery, Talladega, Ala.; Memphis, Tenn.; and other points in States named. (July 1-Nov. 17, 1911.)	To assist in making plans for the organization and management of different types of farms, to confer with cooperators, to collect data on the various lines of work, and to study agricultural conditions.	478.69	Farm management.
Do .....	..do.....	Macon, Biloxi, Columbus, Greenville, Starkville, Miss.; Uniontown, Opelika, Montgomery, Talladega, Ala.; Memphis, Tenn.; and other points in States named. (Apr. 12-June 23, 1912.)	.....do.....	311.07	Do.
Darrow, George M. ....	Scientific assistant .....	Salem, Portland, Hood River, Oreg.; Spokane, Wash. (July 1-Oct. 27, 1911.)	To assist with investigations in the precooling and handling of fruits in connection with the fruit transportation and storage investigations.	455.05	Pomological investigations.

Do.....	do.....	Orlando, Winter Park, Crescent City, De Land, Tampa, Eustis, and other points in Florida. (Dec. 11, 1911-Feb. 19, 1912.)	To assist with experiments in picking, packing, storing, and shipping citrus fruits.	411.45	Do.
Do.....	do.....	Keyser, W. Va. (Apr. 9-26, 1912).....	To collect phenological data in peach orchards as a part of the work in methods of fruit growing and improvement.	23.03	Do.
Davis, Hugh.....	Skilled laborer.....	Honeoye Falls, N. Y. (July 31-Aug. 25, 1911.)	To take descriptive notes on experimental plats of seedling potatoes in connection with general horticultural investigations.	55.75	Arlington farm and horticulture.
Dearing, Charles.....	Scientific assistant.....	Willard, N. C.; Jacksonville, New Smyrna, Fla. (July 16-23, 1911.)	To conduct grafting, cutting, and pollinating experiments with grapes, and to give instructions to growers upon viticultural subjects.	82.63	Pomological investigations.
Do.....	do.....	Vineland, N. J. (Aug. 3-5, 1911).....	To take notes on the fruiting of varieties of grapes in the cooperative experimental vineyard.	16.27	Do.
Do.....	do.....	Willard, Rocky Mount, Enfield, N. C.; Gainesville, Ocala, New Smyrna, Fla. (Aug. 17-26, 1911.)	To superintend the harvesting, handling, and shipping of Rotundifolia grapes grown in experimental vineyards.	98.81	Do.
Do.....	do.....	Vineland, N. J. (Aug. 28-Sept. 7, 1911).	To supervise the picking, packing, and shipment of grapes for use in the preparation of illustrations for exhibition purposes and for grape-juice tests.	35.15	Do.
Do.....	do.....	Willard, Fayetteville, Enfield, Southern Pines, Willard, New Bern, Wilmington, Washington, Kingston, Sandy Cross, N. C.; Norfolk, Emporia, Va. (Sept. 16-Oct. 10, 1911.)	To inspect Rotundifolia experimental vineyard, complete the harvesting of fruit and seeds, take notes on varietal collections of grapes and the results of breeding experiments, and conduct other necessary viticultural investigations.	117.34	Do.
Do.....	do.....	New Smyrna, Fla.; Sandy Cross, N. C. (Nov. 11-20, 1911.)	To conduct pruning experiments with Rotundifolia grapes.	89.00	Do.
Do.....	do.....	Southern Pines, Raleigh, Enfield, Rocky Mount, Trotville, Willard, N. C.; Norfolk, Va. (Jan. 10-Feb. 7, 1912.)	To confer with grape growers and State authorities relative to cooperative work in grape culture; to superintend pruning and training experiments, secure new grape varieties, and study methods of cultivation.	98.47	Do.
Do.....	do.....	Vineland, N. J. (Feb. 16-Mar. 17, 1912.)	To continue grape pruning and training experiments at the cooperative experimental vineyard.	79.71	Do.
Do.....	do.....	Willard, Enfield, N. C. (Mar. 24-Apr. 4, 1912.)	To plant grape vines and cuttings in vineyard and nursery, to conduct grafting experiments, and to pack vines for distribution to cooperators and experimenters in in Rotundifolia territory.	43.08	Do.
Do.....	do.....	Gainesville, Brooksville, Ocala, New Smyrna, Fla.; Willard, N. C. (May 9-June 30, 1912.)	To confer with State authorities relative to Muscadine grape growing in Florida; to study the adaptability of grape varieties to these sections; to conduct pollination experiments and take notes on experimental work.	244.09	Do.

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## BUREAU OF PLANT INDUSTRY—Continued.

Name.	Title.	Destination.	Business or work.	Total expense.	Appropriation.
Dennis, Samuel J.....	Expert.....	Salem, Oreg.; Puyallup, Wash.; Lodi, Cal. (July 1–Nov. 11, 1911.)	To supervise the installation and operation of an experimental plant for the precooling of fruits in connection with the fruit transportation, marketing, and storage investigations.	\$541.01	Pomological investigations.
Do.....	do.....	Warm Springs, Cornelia, Ga. (May 19–24, 1912.)	To arrange preliminaries for conducting precooling investigations in connection with the handling and transportation of peaches.	67.20	Do.
Deer, Harry B.....	Agronomist.....	Richmond, Va.; Nashville, Knoxville, Tenn.; Athens, Atlanta, Griffin, Experiment, Milledgeville, Augusta, Ga.; Montgomery, Tuskegee, Opelika, Ala.; Columbia, S. C.; Raleigh, N. C. (Apr. 3–27, 1912.)	To confer with State authorities and practical farmers relative to the possibilities of cereal production in the South; to inspect cooperative experimental work with cereals and to study the varieties of small grain best adapted to each State.	178.20	Grain investigations.
Dewey, George W.....	Scientific assistant.....	Denver, Colo. (June 21–30, 1912) ....	To inspect experimental lots of berries and other fruits shipped from California and other points to ascertain their keeping qualities during transportation.	91.75	Pomological investigations.
Dewey, Lyster, H.....	Botanist in charge of fiber investigations.	Buitenzorg and other points on the Island of Java; Singapore, Hongkong, China; Nagasaki, Yokohama, Tokyo, Japan; Honolulu, Oahu, Hawaii, and adjacent points. (July 1–Sept. 13, 1911.)	To secure information relative to the growth and utilization of sisal, hemp, ramie, abaca, jute, and other fiber plants; and to attend the International Fiber Congress and inspect an exhibit of fibers and fiber-cleaning machinery.	697.10	Crop technology.
Do.....	do.....	New York, N. Y. (Nov. 27, 1911) ....	To examine a fiber-cleaning machine in operation and secure definite information regarding its capacity and efficiency for cleaning hemp, ramie, and similar fibers, in connection with fiber-plant investigations.	16.25	Do.
Do.....	do.....	New Orleans, La.; Yuma, Ariz.; Bard, Claremont, Laredo, Stockton, Manteca, San Francisco, Cal.; Chicago, Ill. (Mar. 27–May 7, 1912.)	To supervise field experiments in the growing and cultivation of ramie and to advise cooperators in the best methods to pursue and to continue investigations of the phormium, flax, and hemp industries.	255.55	Paper plant investigations.
Dexter, Wm. Hart.....	Assistant.....	Rockville, Baltimore, Md. (Sept. 21–23, 1911.)	To make agricultural surveys and to address a farmers' meeting in connection with farmers' cooperative demonstration work.	11.70	Farmers' cooperative demonstration work.
Dixon, Harrison M.....	Agent.....	Wooster, Salem, Ohio. (May 1–23, 1912.)	To supervise the work of making a farm management survey and to continue investigations in farm economics.	52.22	Farm management.



Dodge, Lawrence G. ....	Assistant agriculturist...	Beverly, Amherst, Lowell, Mass.; Pittsfield, Petersboro, Durham, Milford, N. H.; E. Corinth, Burlington, Vt.; Augusta, Caribou, Canton, Me.; Bridgeport Conn., and other points in States named. (July 1-Dec. 4, 1911.)	To investigate the best systems of farm management and farm practice; to instruct farmers in the most approved methods of farming and to inaugurate cooperative work in farm management.	328.38	Do.
Do. ....	do. ....	Beverly, Amherst, Lowell, Mass.; Pittsfield, Petersboro, Durham, Milford, N. H.; E. Corinth, Burlington, Vt.; Augusta, Caribou, Canton, Me.; Bridgeport, Conn., and other points in States named. (Dec. 15, 1911-Feb. 28, 1912.)	do. ....	75.96	Do.
Do. ....	do. ....	Beverly, Amherst, Lowell, Mass.; Pittsfield, Petersboro, Durham, Milford, N. H. E. Corinth, Burlington, Vt.; Augusta, Caribou, Canton, Me.; Bridgeport, Conn., and other points in States named. (Mar. 4-June 30, 1912.)	do. ....	218.28	Do.
Dorsett, Palemon H. ....	Expert. ....	Pittsburgh, Pa.; Columbus, Cincinnati, Ohio; St. Louis, Kansas City, Mo.; Denver, Colorado Springs, Colo.; Salt Lake, Utah; Portland, Oreg.; Seattle, Bellingham, Wash.; Chico, Fresno, Napa, San Francisco, Antioch, Los Angeles, Pasadena, San Gabriel, San Diego, Santa Ana, Orange, Riverside, Uplands, Redlands, Whittier, Monrovia, Indio, Mecca, Cal.; San Antonio, Brownville, Tex.; New Orleans, La.; Pensacola, Jacksonville, Brooksville, Fla. (Oct. 3-Dec. 6, 1911.)	To confer with park commissioners and superintendents, officers of civic improvement organizations, and State officials relative to cooperative work in connection with testing newly introduced seeds and plants adapted for streets, lawns, and parks; and to arrange for testing other newly introduced seeds and plants at the plant introduction field stations and other departmental stations and also in cooperation with State experiment stations and private collaborators and experimenters, for the purpose of determining the possibilities of such introductions in the development of new plant industries.	342.62	Purchase and distribution of valuable seeds, 1912. Congressional seed distribution.
Do. ....	do. ....	do. ....	do. ....	84.90	(Foreign seed and plant introduction.)
Do. ....	do. ....	Charleston, S. C.; Gainesville, Brooksville, Jacksonville, Fla.; New Orleans, La.; Brownsville, San Antonio, Tex.; Yuma, Ariz.; Los Angeles, Bakersfield, San Francisco, Sacramento, Chico, Cal.; Bellingham, Wash. (May 9-June 30, 1912.)	do. ....	241.40	Do.
Do. ....	do. ....	do. ....	do. ....	142.19	General expenses, B. P. I., 1912 (south Texas garden).

Statement showing the names of officers or employees (other than special agents, inspectors, or employees who in the discharge of their regular duties are required to constantly travel) who traveled on official business from Washington to points outside the District of Columbia during the fiscal year 1912, etc.—Continued.

## BUREAU OF PLANT INDUSTRY—Continued.

Name.	Title.	Destination.	Business or work.	Total expense.	Appropriation.
Doyle, Conrad B. ....	Scientific assistant. ....	Mitchell, Nebr.; Akron, Denver, Montrose, Grand Junction, Colo.; Ogden, Utah; Fallon, Nev.; Sacramento, Stockton, Casa Rio, Indio, Bard, Cal.; El Paso, Pierce, San Antonio, Tex. (Sept. 18–Nov. 19, 1911.)	To inspect the agricultural work in progress at the experiment farms on the reclamation projects; to study agricultural conditions; to make photographic records, and to secure data on the work for publication.	\$361.05	Western agricultural extension.
Drake, J. Allen. ....	Assistant agriculturist. ....	St. Louis, Mo.; Carrollton, Johnston City, Chicago, Springfield, Hersman, Ill.; Bristol, South Bend, Paoli, Orleans, Corydon, Shelby, Salem, Ind.; Columbus, Ada, Wooster, Fredericksburg, Marion, Troy, Lima, Toledo, Ohio. (July 10–Dec. 9, 1911.)	To superintend work on cooperative demonstration farms; to give advice to farmers for improving their farm practices; to study soil conditions, methods of fertilizing, use of machinery on farms, and other farm-management problems.	544.74	Farm management.
Do. ....	do. ....	St. Louis, Mo.; Carrollton, Johnston City, Chicago, Springfield, Hersman, Ill.; Bristol, South Bend, Paoli, Orleans, Corydon, Shelby, Salem, Ind.; Columbus, Ada, Wooster, Fredericksburg, Marion, Troy, Lima, Toledo, Ohio. (Feb. 8–June 30, 1912.)	do. ....	328.76	Do.
Duvall, Carroll F. ....	Assistant. ....	Anguilla, Miss. (Oct. 24–Nov. 19, 1911)	To assist in picking, handling, and marketing cotton, in connection with the establishment of standards for cotton grades.	70.22	Cotton standardization.
Duvel, J. W. T. ....	Crop technologist in charge of grain standardization.	Boston, Mass.; New York, N. Y. (July 16–19, 1911.)	To confer with produce exchange and chamber of commerce officials relative to investigations as to the quality and condition of American export corn and as to its deterioration during transit in steamships, in connection with the handling, transportation, and grading of grain.	36.85	Grain standardization.
Do. ....	do. ....	Chicago, Ill. (July 23–26, 1911.) ....	To confer with the executive committee of National Grain Dealers' Association on matters pertaining to the grading of grain.	54.00	Do.
Do. ....	do. ....	Chicago, Decatur, Ill.; Fargo, Livingston, N. Dak.; Bozeman, Helena, Mont.; Spokane, Pasco, Seattle, Tacoma, Wash.; Portland, Oreg.; San Francisco, Cal.; Salt Lake, Utah; Denver, Colo.; Kansas City, Mo.; Lima, Wooster, Ohio. (Aug. 7–Sept. 22, 1911.)	To confer with the assistants in charge of branch grain standardization laboratories and field stations; to investigate methods of handling, marketing, storing, and grading of grain; to confer with experiment station officials relative to types and classes of wheat, and to secure samples of different grades of wheat in important grain markets,	366.61	Do.

Do.....	do.....	Cincinnati, Ohio; Kansas City, Mo.; Decatur, Chicago, Ill.; Topeka, Kans. (Jan. 8-23, 1912.)	To investigate methods of handling, market- ing, storing, and grading grain; to confer with field assistants regarding this work and to address the Kansas State Board of Agriculture on the relation of handling grain on the farm to its commercial value.	136.52	Do.
Do.....	do.....	Philadelphia, Pa.; New York, N. Y.; Baltimore, Md. (Feb. 7-9, 1912.)	To confer with commercial exchange and produce exchange officials relative to the quality and condition of grain upon arrival at market.	25.68	Do.
Do.....	do.....	New Orleans, La. (Mar. 16-23, 1912.)	To confer with assistants at the branch labo- ratory on matters related to the handling, transportation, and grading of grain.	80.00	Do.
Do.....	do.....	Philadelphia, Pa.; Baltimore, Md. (Apr. 4-12, 1912.)	To confer with commercial exchange authori- ties relative to the quality and condition of corn exported from Philadelphia, and to inspect work at Baltimore branch grain standardization laboratory.	10.00	Do.
Do.....	do.....	Lima, Sandusky, Cedar Point, Mans- field, Wooster, Ohio. (June 15-22, 1912.)	To arrange for securing oats for the purpose of conducting special feeding tests to deter- mine the value of various commercial grades, as stock food, and to confer with grain dealers relative to grading, handling and other features of grain standardiza- tion.	56.77	Do.
Earle, Drayton E.....	Expert.....	Newark, N. J.; New York, N. Y. (Aug. 24-25, 1911.)	To inspect cotton spinning and testing de- vices, and to consult with persons inter- ested in the cotton industry, in connection with handling and grading of cotton.	15.80	Cotton standardization.
Do.....	do.....	Raleigh, N. C. (Aug. 28-30, 1911)	To address State Farmers' Union of North Carolina, on the cotton-grading work of the department and to exhibit and explain a set of the official cotton grades.	23.35	Do.
Do.....	do.....	chester, Vt. (Sept. 26-30, 1911)	To read a paper on "Accurate methods of measuring cotton staples" before the Na- tional Cotton Manufacturers' Association, and to confer with representatives of the cotton industry relative to the establish- ment of official cotton grades.	45.28	Do.
Do.....	do.....	Waco, Tex.; Hartsville, S. C. (Oct. 1- Nov. 12, 1912.)	To investigate the harvesting, ginning, and storing of cotton and to demonstrate im- proved methods of performing these opera- tions as a part of the investigation in the establishment of standard grades.	294.85	Do.
Do.....	do.....	Boston, Lowell, Mass. (Jan. 21-26, 1912.)	To arrange for the spinning of cotton handled under contract by the department; to inspect cotton manufacturing machinery and to confer with State authorities rela- tive to the work of grading and harvesting cotton.	45.20	Do.
Do.....	do.....	Greenville, Anderson, S. C. (Feb. 12- 17, 1912.)	do.....	38.75	Do.

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## BUREAU OF PLANT INDUSTRY—Continued.

Name.	Title.	Destination.	Business or work.	Total expense.	Appropriation.
Earle, Drayton E.....	Expert .....	Greenville, Anderson, Spartanburg, Columbia, S. C.; Jackson, Tenn.; St. Louis, Mo. (Mar. 9-25, 1912.)	To inspect machinery and apparatus at employed mills manufacturing contract cotton and to confer with cotton manufacturers relative to matters pertaining to cotton standardization.	\$121.25	Cotton standardization.
Do.....	do.....	Boston, Lowell, Newton, Upper Falls, Whitinsville, Mass.; Lewiston, Me.; Pawtucket, Providence, R. I. (Apr. 4-12, 1912.)	do.....	65.12	Do.
Edson, Howard A.....	Plant physiologist.....	Madison, Racine, Wis.; Garden City, Kans.; Swink, Rocky Ford, Denver, Grand Junction, Fruita, Delta, Fort Collins, Alamosa, Monte Vista, La Jara, Holly, Colo.; Ogden, Salt Lake City, Utah; San Francisco, San Juan, Salinas, Spreckels, Los Angeles, Santa Ana, Whittier, Compton, Oxnard, Guadalupe, King City, Cal.; Reno, Fallon, Nev. (July 1-Sept. 13, 1911.)	To study conditions in the sugar-beet industry; to inspect experimental work with sugar beet; and to equip field laboratories and conduct analytical work on sugar beets, as a part of the work in the improvement of sugar-producing plants.	408.85	Sugar plant investigations.
Do.....	do.....	Madison, Wis., and vicinity. (May 1-June 30, 1912.)	To study diseases of the sugar beet and to conduct field and laboratory experiments for their control in connection with the improvement of sugar-producing plants.	108.56	Do.
Ely, Ethel M.....	Laboratory aid.....	La Fayette, Ind. (Mar. 10-Apr. 30, 1912.)	To assist in the work of testing commercial seeds at the cooperative branch laboratory.	78.40	Seed-testing laboratory.
Estabrook, Leon M.....	Executive assistant in charge of seed distribution.	Brooklyn, N. Y. (July 5-7, 1911.)	To inspect seed-packing machines, packets and envelopes and packeted seed, in connection with contract work for the department in the packing of seed for congressional distribution.	16.15	Purchase and distribution of valuable seeds, 1912. Congressional distribution.
Do.....	do.....	Richmond, Portsmouth, Diamond Springs, Va. (Apr. 2-5, 1912.)	To inspect Dutch bulbs in connection with quotations on bulbs for congressional distribution and to secure information on methods of growing and handling bulbs in the interest of the propagating garden of the department.	22.35	Do.

Do.....	do.....	Edon, Salisbury, Md.; Reading, Wyo- missing, Pa. (June 4-7, 1912.)	To inspect fields of strawberry plants, peo- nies, and other hardy perennial flowering plants and ornamentals suitable for con- gressional distribution.	27.35	Do.
Fairchild, David G.....	Agricultural explorer in charge of foreign seed and plant introduc- tion.	St. Augustine, Miami, Palm Beach, Chases, Key West, Tampa, Sarasota, Oneco, Braidentown, Brooksville, Gainesville, Glen St. Mary, Jackson- ville, Fla. (Feb. 17-Mar. 13, 1912.)	To inspect newly introduced plants under cultivation at the subtropical plant intro- duction field stations, and to arrange for the propagating and testing of other promising seeds and plants from foreign countries at these stations and through private experimenters and cooperators.	198.97	General expenses, B.P.I., 1912 (special seeds and plants).
Do.....	do.....	Philadelphia, Pa. (Mar. 19-22, 1912.)	To represent the Bureau of Plant Industry at the celebration of the centenary of the foundation of the Academy of Natural Sciences.	20.35	Purchase and distribu- tion of valuable seeds, 1912. Foreign seed and plant introduction.
Farrell, Francis D.....	Agronomist.....	Logan, Nephi, Petersboro, Salt Lake, Utah; Moccasin, Billings, Huntley, Havre, Mont.; Dickinson, Fargo, Williston, N. Dak.; Brandon, Indian Head, Saskatchewan, Lethbridge, Alberta, Canada; Pullman, Wash.; Corvallis, Oreg.; Moscow, Boise, Gooding, Aberdeen, Downey, Idaho; Chico, Sacramento, San Francisco, Davis, El Centro, Cal.; Yuma, Ariz.; Crowley, La. (July 1-Sept. 13, 1911.)	To assist experimental work, in connection with the improvement of cereals at depart- ment field stations and upon private farms, and to study methods of cereal cultivation in all its phases.	550.00	General expenses, B.P.I., 1912 (grain investiga- tions).
Do.....	do.....	Chicago, Ill.; Colorado Springs, Col.; Manhattan, Hays, Kans. (Oct. 10- 25, 1911.)	do.....	167.67	Do.
Fernald, J. F.....	Mechanical assistant....	Puyallup, Tacoma, Wash.; Lodi, Cal. (July 1-Nov. 19, 1911.)	To assist in installing an experimental port- able refrigerating plant in railroad cars and to conduct experiments in the precooling of fruits in connection with the work in transporting and storing fruits.	356.37	Pomological investiga- tions.
Do.....	do.....	Points in the States of Tennessee, Kentucky, Ohio, Indiana, New York, Pennsylvania, New Jersey, Illinois, Virginia, and West Virginia. (Jan. 18-Apr. 5, 1912.)	To assist in an investigation relative to the handling, shipping, and preservation of eggs, poultry, fish and game, and other foods; with special reference to putridity and decomposition of these products in connection with the enforcement of the food and drugs act.	575.05	Bureau of Chemistry. Enforcement of food and drugs act, 1912.
Do.....	do.....	Puyallup, Tacoma, Wash.; Lodi, Cal. (May 29-June 30, 1912.)	To assist in installing an experimental port- able refrigerating plant in railroad cars and to conduct experiments in the precooling of fruits in connection with the work in transporting and storing fruits.	172.95	General expenses, B. P. I. 1912 (pomological in- vestigations).
Fisher, D. F.....	Scientific assistant.....	Camden, Dover, Woodside, Del.; Denton, Md. (Apr. 16-June 20, 1912.)	To conduct spraying experiments and dem- onstrations in the control of apple and peach diseases.	79.43	Fruit diseases.

Statement showing the names of officers or employees (other than special agents, inspectors, or employees who in the discharge of their regular duties are required to constantly travel) who traveled on official business from Washington to points outside the District of Columbia during the fiscal year 1912, etc.—Continued.

## BUREAU OF PLANT INDUSTRY—Continued.

Name.	Title.	Destination.	Business or work.	Total expense.	Appropriation.
Fletcher, Wm. F.....	Scientific assistant.....	Van Buren, Fort Smith, Ark.: Durant, Russet, Ardmore, Sulphur, Wynnwood, Noble, Okla.: Chanute, Oskaloosa, Leroy, Ottawa, Leavenworth, Lawrence, Vinland, Topeka, Fredonia, Hoyt, Hiawatha, Parker, Iola, Tonganoxie, Kans.; Kansas City, Columbia, Mo. (July 15-Sept. 28, 1911.)	To study general orchard conditions, secure temperature records, collect phenological data, and conduct other investigations in the improvement of fruits.	\$427.24	Pomological investigations.
Do.....	do.....	New York, N. Y. (Oct. 4-9, 1911)....	To inspect experimental shipments of fruit from the Pacific coast, in connection with the fruit transportation and storage investigations.	23.84	Do.
Do.....	do.....	Keyser, W. Va. (Apr. 9-10, 1912).....	To inaugurate phenological studies as a part of the fruit improvement investigations.	14.89	Do.
Froelich, Henry C.....	Laboratory aid.....	Derwood, Md.; Ocoquan, Round Hill, Va. (Oct. 3-19, 1911.)	To assist with the harvesting of experimental plats of corn.	16.22	Grain investigations.
Froley, John W.....	Assistant agriculturist...	Lynchburg, Va. (Oct. 4-6, 1911).....	To study systems of tenant farming in connection with farm management investigations.	21.20	Farm management
Do.....	do.....	Geneseo, Elmira, N. Y. (Nov. 6-11, 1911.)	do.....	39.83	Do.
Do.....	do.....	Williamsburg, Old Point Comfort, Va. (Nov. 23-27, 1911.)	do.....	13.10	Do.
Do.....	do.....	Columbus, Washington, Ind.: Springfield, Lincoln, Auburn, Ill. (Apr. 22-May 2, 1912.)	do.....	83.09	Do.
Do.....	do.....	Springfield, Northampton, Boston, Mass.: New York, Albany, Nassau, N. Y. (May 19-23, 1912.)	To gather data on agricultural credit unions in their relation to farm credit.	46.03	Do.
Do.....	do.....	Clements Wharf, Va. (May 30-June 1, 1912.)	To study farming systems and practices in connection with the management of large farm estates.	10.00	Do.
Frost, Fred C.....	Assistant.....	Schellburg, Pa. (May 28-June 30, 1912.)	To assist in conducting general farm management investigations.	45.33	Do.
Funk, Warren C.....	Scientific assistant.....	Roxbury, Hobart, Ithaca, Rochester, Kendall, Hamlin, N. Y. (Oct. 20-Nov. 30, 1911.)	To collect data on machinery and other equipment of farms in relation to farm management.	180.70	Do.
Do.....	do.....	Lancaster, Ephrata, Adamstown, Mechanicsburg, New Holland, Pa. (Apr. 3-June 30, 1912.)	do.....	322.31	Do.



Garner, Wightman W . . . . .	Physiologist in charge of tobacco investigations.	Greenville, Raleigh, Creedmoor, Oxford, N. C.; Manning, Sumter, Timmons-ville, S. C. (July 6-13, 1911.)	To inspect experimental work in connection with plant nutrition and tobacco investigations and to confer with field assistants and farmer cooperators.	51.22	Bacteriology and nutrition.
Do . . . . .	do . . . . .	Ephrata, Willow Street, Landisville, Pa.; Hazardville, Suffield, Conn. (July 19-31, 1911.)	To inspect cooperative experiments in tobacco improvement and to arrange for experiments in the curing of tobacco.	46.66	Tobacco investigations.
Do . . . . .	do . . . . .	Suffield, Hazardville, South Windsor, Conn.; Lancaster, Ephrata, Pa.; Sunderland, South Deerfield, Mass. (Aug. 19-Sept. 10, 1911.)	do . . . . .	71.13	Do.
Do . . . . .	do . . . . .	Reidsville, N. C. (Sept. 27-Oct. 1, 1911.)	To study methods of tobacco curing and other problems in tobacco improvement production and handling.	21.88	Do.
Do . . . . .	do . . . . .	Oxford, Creedmoor, N. C. (Nov. 21-27, 1911.)	To arrange further cooperative experiments in connection with tobacco investigations.	22.25	Do.
Do . . . . .	do . . . . .	Raleigh, N. C. (Apr. 16-18, 1912.)	To confer with officials of the State department of agriculture regarding cooperative tobacco experiments.	21.35	Do.
Do . . . . .	do . . . . .	Reidsville, Kernersville, Durham, Oxford, N. C. (May 21-24, 1912.)	To select a suitable location for conducting tobacco investigations in cooperation with the North Carolina State department of agriculture.	31.40	Do.
Giffen, James S . . . . .	Scientific assistant . . . . .	Columbia, Darlington, James Crossing, Lykesland, Ridgeway, Newberry, Edisto Island, S. C.; Augusta, Ga. (Mar. 31-Apr. 30, 1912.)	To assist in planting experimental corn plats as a part of the work in the improvement of grains and methods of grain production.	96.98	Grain investigations.
Do . . . . .	do . . . . .	Occoquan, Va.; Gaithersburg, Md. (May 21-24 and June 5-12, 1912.)	To plant, transplant, and cultivate experimental corn.	16.12	Do.
Gilbert, William W . . . . .	Assistant pathologist . . . . .	Raleigh, Auburn, N. C.; Clemson College, Monetta, Lamar, Florence, S. C. (Aug. 9-18, 1911.)	To confer with experiment-station officials and private cooperators relative to work in the breeding of wilt-resistant cotton, cowpeas, and watermelons; to inspect experimental work in connection with disease-resistant cotton and cowpeas and assist in the harvesting of wilt-resistant watermelons.	55.69	Cotton and truck diseases.
Do . . . . .	do . . . . .	Atlanta, Vienna, De Soto, Americus, Ga.; Dothan, Headland, Columbia, Troy, Ala.; Monetta, Florence, Lamar, S. C. (Sept. 11-30, 1911.)	To confer with officials of the Georgia State board of entomology and cooperators relative to work in the breeding of wilt-resistant cotton; to inspect experimental plats and to secure data on the results secured.	97.23	Do.
Do . . . . .	do . . . . .	Florence, Lamar, S. C. (Oct. 23-Nov. 4, 1911.)	To complete work in the breeding of cotton for wilt resistance.	29.51	Do.
Do . . . . .	do . . . . .	New York, N. Y. (Mar. 19-21, 1912.)	To inspect potatoes from Great Britain and truck crops shipped from Southern States for the detection of plant diseases.	21.25	Do.
Do . . . . .	do . . . . .	Florence Monetta S. C. (Apr. 23-27, 1912.)	To supervise the experimental planting of selected varieties of cotton and watermelon in connection with the investigation of disease-resistant sorts.	34.00	Do.

Statement showing the names of officers or employees (other than special agents, inspectors, or employees who in the discharge of their regular duties are required to constantly travel) who traveled on official business from Washington to points outside the District of Columbia during the fiscal year 1912, etc.—Continued.

## BUREAU OF PLANT INDUSTRY—Continued.

Name.	Title.	Destination.	Business or work.	Total expense.	Appropriation.
Goll, Frank L.....	Scientific assistant.....	Manns Choice, Schellburg, Harrisburg, Pa. (July 31-Aug. 2, 1911.)	To inaugurate experimental work in the inoculation of leguminous plants with nitrogen-fixing bacteria.	\$21.93	Bacteriology and nutrition.
Do.....	do.....	Stoyestown, Somerset, Rockwood, Berlin, Davidsville, Harrisburg, Pa. (Aug. 30-Sept. 5, 1911.)	To inspect various experimental plots of legumes to determine the results of inoculation with nitrogen bacteria; and to examine statistical data in the possession of the State department of agriculture (Pennsylvania) relative to the results of legume inoculation.	47.64	Do.
Do.....	do.....	Ithaca, N. Y.; Philadelphia, and vicinity, Pa. (Apr. 11-18, 1912.)	To arrange cooperative field work in the inoculation of leguminous crops and to collect plants other than legumes bearing nitrogen-fixing nodules.	40.68	Do.
Do.....	do.....	Schellburg, Somerset, Stoyestown, Pa.; Salem, Ohio. (June 10-30, 1912.)	To conduct field experiments in methods of inoculating soy beans and alfalfa.	63.39	Do.
Goodrich, Charles L.....	Agriculturist.....	Elizabeth City, Currituck, Hertford, Edenton, Galesville, Winton, Swan Quarter, Plymouth, Columbia, Greenville, Washington, Williamsston, N. C. (July 31-Aug. 6, 1911.)	To address farmers' institutes on the "Control of soil fertility" and to study systems of farm management and farm practice.	79.80	Farm management.
Do.....	do.....	Columbia, Hayti, Hannibal, Mo.; Bayard, Iowa; Oklahoma, Okla.; Dallas, College Station, Tex.; Alexandria, Baton Rouge, Monroe, Shreveport, La.; Natchez, Greenville, Miss. (Sept. 5-30, 1911.)	To study general farm conditions, and to consult with field men engaged in general farm-management investigations and to inspect the work under their charge.	274.91	Do.
Do.....	do.....	Sumter, Columbia, Spearman, S. C. (Jan. 9-13, 1912.)	To inspect farms and advise in planning their reorganization and to consult with field agents engaged in conducting farm management work.	43.15	Do.
Do.....	do.....	Richmond, Va. (Jan. 17-18, 1912)...	To address a farmers' institute on "farm management and soil fertility."	15.40	Do.
Do.....	do.....	Greensboro, N. C. (Feb. 12-15, 1912.)	do.....	25.15	Do.
Do.....	do.....	Pearre, Md.; Pruntytown, Sleepy Creek, Va. (Mar. 27-Apr. 1, 1912.)	To advise as to the reorganization of the farm of West Virginia Reformatory for Boys and to conduct general farm management investigations.	26.78	Do.

Do.....	do.....	Nashville, Clarksville, Knoxville, Spring City, Crossville, Tenn.; Bowling Green, Rowletts, Louisville, Middlesboro, Berea, Ky. (Apr. 7-24, 1912.)	To assist farmers in reorganizing their farms and to extend the general farm-management investigations.	129.51	Do.
Gore, H. C.....	Scientific assistant.....	New York and Poughkeepsie, N. Y. (Mar. 6-8, 1912.)	To inspect the plant of the De Laval Separator Co., and to perform experimental work at that plant, as to the clarification of orange and lemon juices; to investigate types of clarifying machines which the company makes, in order to determine the machine best adapted to the needs of the Bureau of Chemistry.	23.45	General expenses, Bureau of Chemistry, 1912 (laboratory miscellaneous expenses).
Do.....	do.....	Philadelphia, Pa.; Buffalo, N. Y. (June 20-22, 1912.)	To inspect various types of vacuum driers, to be used in experimental studies on the drying of fruit.	19.16	Do.
Goss, Willard L.....	do.....	Leonardtown, Md. (Sept. 20-25, 1911.)	To inaugurate experimental work with seed of hairy vetch, in connection with the testing of commercial seeds.	14.45	General expenses, B. P. I., 1912 (seed-testing laboratory).
Do.....	do.....	Baltimore, Md. (Mar. 26, 1912).....	To investigate conditions in the seed trade and the commercial handling of seeds.	3.38	Do.
Gould, Harris P.....	Pomologist.....	Chicago, Ill.; Akron, Denver, Parker, Littleton, Colo.; Dalhart, Amarillo, Hereford, Plainview, San Antonio, Nursery, Alvin, Tex.; Roswell, N. Mex.; Oklahoma, Yale, Chandler, Meridian, Guthrie, Perry, Enid, Avar, Carmen, Okla.; Medicine Lodge, Mulvane, Wichita, Hutchinson, Sterling, Salina, Abilene, Council Grove, Topeka, Leavenworth, Tonganoxie, Troy, and Wathena, Kans.; Arkansas City, Ark.; St. Joseph, Mo.; Beatrice, Crete, Geneva, York, Seward, Dwight, Lincoln, Nebraska City, Omaha, Nebr.; Hamburg, Iowa; Henderson, Ky. (July 11-Sept. 30, 1911.)	To study orchard conditions; to confer with growers, horticulturists and other authorities regarding the fruit industry; to collect data and conduct other necessary work in connection with the improvement of fruits and methods of fruit production.	475.59	Pomological investigations.
Green, Edw. C.....	do.....	New Orleans, La.; Brownsville, San Antonio, Tex.; Yuma, Ariz.; Mecca, Indio, Los Angeles, Santa Ana, San Fernando, Riverside, Altadena, Whittier, Bakersfield, Fresno, Berkeley, San Francisco, Sacramento, Chico, Cal.; Denver, Colo.; Ames, Boone, Iowa; Omaha, Nebr.; St. Louis, Mo. (May 16-June 30, 1912.)	To inspect newly introduced plants grown at the plant-introduction field stations of the department, by experiment-station collaborators and private experimenters; and to take photographs and secure data as to the results of experiments with introduced plants and seeds.	363.55	South Texas garden.

Statement showing the names of officers or employees (other than special agents, inspectors, or employees who in the discharge of their regular duties are required to constantly travel) who traveled on official business from Washington to points outside the District of Columbia during the fiscal year 1912, etc.—Continued.

## BUREAU OF PLANT INDUSTRY—Continued.

Name.	Title.	Destination.	Business or work.	Total expense.	Appropriation.
Griffiths, David.....	Agriculturist.....	Chico, Los Angeles, Pomona, Cal.; Prescott, Phoenix, Tempe, Ariz.; Brownsville, San Antonio, Tex. (Aug. 21-Oct. 21, 1911.)	To carry on investigations of cactus problems; to study native and introduced species of cacti; to take notes and photographs; and to arrange for new tests with cooperators and private growers, in connection with farm management investigations.	\$365.42	Farm management.
Do.....	do.....	St. Louis, Mo.; Brownsville, San Antonio, El Paso, Waco, Tex.; Pomona, Bakersfield, Chico, and other points in California and Nevada. (Apr. 1-June 30, 1912.)	do.....	276.94	Do.
Hamon, Robert J.....	Laboratory aid.....	Garden City, Kans. (May 26-June 30, 1912.)	To assist in conducting experiments in the culture and improvement of sugar beets and of sorghum as a part of the work in the improvement of sugar-producing plants.	77.52	Sugar-plant investigations.
Harlan, Harry V.....	Agronomist.....	Chicago, Ill.; Milwaukee, La Crosse, Wis.; St. Paul, Minn.; Kansas City, Mo.; Manhattan, Kans.; Yuma, Ariz.; Los Angeles, El Centro, Merced, Berkeley, San Francisco, Chico, and other points in California; Reno, Nev.; Nephi, Utah; Akron, Colo. (Apr. 23-June 30, 1912.)	To continue barley investigations, including a study of varieties and methods of production, to inspect experimental work with barleys at the State stations and private farms, and consult with grain dealers and others regarding the conditions of the barley market.	421.55	Grain investigations.
Harter, Leonard L.....	Assistant pathologist.....	Norfolk, Portsmouth, Onley, Cape Charles, Va. (July 4-9, 1911.)	To continue work in the investigation of the diseases of truck crops.	34.41	Cotton and truck diseases.
Do.....	do.....	Vineland, Trenton, Newark, N. J. (July 16-20, 1911.)	To investigate diseases of sweet potatoes and other truck crops.	30.07	Do.
Do.....	do.....	Norfolk, Onley, Melfa, Va.; Vineland, Glassboro, N. J. (Aug. 20-28, 1911.)	do.....	66.93	Do.
Do.....	do.....	Vineland, N. J. (Oct. 9-14, 1911.)	do.....	37.49	Do.
Do.....	do.....	Vineland, N. J. (Nov. 27-28, 1911.)	To investigate diseases of sweet potatoes while in storage.	20.59	Do.
Do.....	do.....	Philadelphia, Pa.; Vineland, N. J. (Jan. 7-9, 1912.)	do.....	20.99	Do.
Do.....	do.....	Vineland, Swedesboro, N. J. (Mar. 11-12, and Apr. 9-12, 1912.)	To supervise planting of sweet potatoes in connection with the study of sweet-potato diseases.	37.66	Do.
Do.....	do.....	Norfolk, Portsmouth, Va. (May 7-10, 1912.)	To continue investigations of truck-crop diseases.	18.65	Do.

Do.....	do.....	Vineland, N. J. (3 trips; May 27-June 25, 1912.)	To continue investigations of sweet-potato diseases.	68.26	Do.
Hartley, Carl.....	do.....	Garden City, Kans.; Halsey, Lincoln, Hyannis, Nebr. (Apr. 16-June 30, 1912.)	To investigate diseases of forest-tree nursery stock and of forest trees in national forests and elsewhere.	96.13	Forest pathology.
Hartley, Chas. P.....	Physiologist in charge of corn investigations.	Piketon, Ohio. (July 10-Aug. 6, 1911.)	To superintend detasseling and pollinating work with corn, to inspect and take notes on corn grown from improved seed furnished by the department, and to plan future experiments in corn improvement and production.	61.65	Grain investigations.
Do.....	do.....	Hill City, Colby, Norton, Manhattan, Kans.; Holdrege, Akron, Colo.; North Platte, Sidney, Nebr.; Ardmore, Hot Springs, Mitchell, Haron, Highmore, S. Dak.; Bismarck, Dickinson, N. Dak.; St. Paul, Minn.; Oconomowoc, Wis.; Kansas City, St. Louis, Mo.; Chicago, Ill.; Sunbury, Columbus, Sabina, Chillicothe, Piketon, Cincinnati, Ohio. (Aug. 21-Nov. 2, 1911.)	To supervise the harvesting of corn in experimental breeding plats, to make field records, to inspect cooperative work, and to study various problems in connection with corn improvement and production.	273.58	Do.
Do.....	do.....	Hamilton, Springfield, Ohio. (Jan. 9-13, 1912.)	To address the Butler County Corn Improvement Association on "Corn improvement" and to inspect corn exhibits at Springfield.	44.90	Do.
Do.....	do.....	Piketon, Ohio. (May 11-18, 1912.)	To supervise the preparation and planting of experimental plats of corn as a part of the work in the improvement of this crop.	41.35	Do.
Hawkins, Lon A.....	Scientific assistant.....	Paw, Paw, Saugatuck, Lawton, Grand Rapids, South Haven, Kalamazoo, Douglas, Lansing, Jackson, and other points in Michigan; North East, Erie, Pa. (July 1-Sept. 4, 1911.)	To conduct experiments and demonstrations in the control of diseases of grapes and small fruits.	125.65	Fruit diseases.
Do.....	do.....	Buffalo, N. Y.; North East, Pa. (Sept. 27-29, 1911.)	To investigate grape diseases, especially the powdery mildew.	41.83	Do.
Do.....	do.....	Lawton, Mich. (Apr. 3-9, 1912.)	To conduct spraying experiments for the control of grape diseases.	58.79	Do.
Hedgecock, Geo. G.....	Pathologist.....	St. Louis, Mo.; Denver, Clyde, Pagosa Springs, Mancos, Delta, Colo.; Provo, Kamas, Ogden, Utah; Mackay, Priest River, Challis, Bonanza, Idaho; Missoula, Thompson Falls, Monarch, Billings, Livingston, Bozeman, Mont.; Pullman, Wash.; Portland, Medford, Oreg.; San Francisco, Kennett, Cal.; Gila, Silver City, Mogollon, Albuquerque, Mesilla, N. Mex.; Tucson, Ariz.; San Antonio, Austin, Tex. (July 1-Nov. 4, 1911.)	To study the nature and prevalence of forest-tree diseases and of the parasites causing them and to advise with officers of the national-forest districts and with forest supervisors as to means of protecting forest trees against attacks by fungi and mistletoes and from injury by smelter fumes.	900.65	Forest pathology.

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## BUREAU OF PLANT INDUSTRY—Continued.

Name.	Title.	Destination.	Business or work.	Total expense.	Appropriation.
Hedgcock, Geo. G.....	Pathologist.....	Philadelphia, Pa.; Richmond Hill, Cold Spring Harbor, New York, N. Y. (June 24-30, 1912.)	To conduct investigations in the control of the chestnut-bark disease, and to consult the herbaria of the New York Botanic Gardens and the Academy of Natural Sciences for data in this connection.	\$48.16	Forest pathology.
Hitchcock, Albert S.....	Systematic agrostologist.	Port Limon, San Jose, Punta Arenas, Costa Rica; Masaya, Corinto, Managua, Jinotepe, Nicaragua; Honduras, Santa Ana, Ampala, Acajutla, San Salvador, La Union, Salvador; Guatemala, Port Barrios, Guatemala; Culebra, Canal Zone. (Oct. 19-Dec. 28, 1911.)	To collect and study economic grasses, with especial reference to their value as forage and their relation to the native grasses of Panama, Mexico, and the United States, and to collect seeds of sorts considered worthy of testing in this country.	444.40	{ Taxonomic and range investigations.
Hitchcock, Frank H.....	Collaborator.....	do.....	do.....		
Hite, Bertha C.....	Scientific assistant.....	Columbia, Mo. (Dec 4, 1911-June 26, 1912.)	To take charge of the cooperative branch seed-testing laboratory.	104.62	Seed-testing laboratory.
Humphrey, Harold N.....	do.....	Albion, Medina, Sodus, Rochester, N. Y., and adjacent points. (Sept. 2-Oct. 2, 1911.)	To study farm equipment and farm building inventories and to gather other data on farm economics in connection with farm-management investigations.	144.35	Farm management.
Do.....	do.....	Roxbury, Hobart, Rochester, Delhi, Hamlin, Hilton, N. Y. (Oct. 20-Nov. 30, 1911.)	do.....	178.08	Do.
Do.....	do.....	Lancaster, New Holland, Strasburg, Millersville, Ephrata, Pa. (Apr. 5-May 26, 1912.)	To secure data on farm building equipment in connection with farm-management investigations.	235.29	Do.
Do.....	do.....	Lancaster, Elizabethtown, Mount Joy, Pa. (June 1-22, 1912.)	do.....	113.02	Do.
Humphries, Walter R.....	Assistant.....	Packwaukee, Stoughton, Edgerton, Wis.; Livonia, Rochester, Sodus, N. Y. (Sept. 1-Oct. 4, 1911.)	To study farm equipment and farm building inventories and to collect other data on farm-management investigations.	195.39	Do.
Do.....	do.....	Rochester, Sodus, N. Y. (Nov. 4-29, 1911.)	do.....	163.54	Do.
Do.....	do.....	Lancaster, Mount Joy, Ephrata, Pa. (Apr. 11-May 26, 1912.)	do.....	209.65	Do.
Do.....	do.....	Lancaster, Pa. (June 3-22, 1912.)	do.....	99.90	Do.
Husmann, Geo. C.....	Pomologist in charge of viticultural investigations.	Vineland, N. J. (Aug. 21-31, 1911.)	To supervise the harvesting and shipping of grapes grown in experimental tests, to inspect and give instructions in grape-pruning methods, and to take notes on the work.	34.30	Pomological investigations.



Do.....	do.....	Colfax, Napa, Geyserville, Livermore, Fresno, Brawley, Ontario, Los Angeles, Lodi, Stockton, San Francisco, and other points in California; Sacaton, Ariz. (Sept. 18-Nov. 23, 1911.)	To study viticultural conditions and possibilities, to plan cooperative work in experimental vineyards, to confer with growers and others interested in grape culture, and to inaugurate new experiments in grape production and improvement.	401.19	Do.
Do.....	do.....	Southern Pines, Aberdeen, Manley, Raleigh, Wilson, Enfield, Rocky Mount, Willard, Goldsboro, N. C.; Norfolk and vicinity, Va. (Jan. 10-22, 1912.)	To conduct grape pruning and training experiments in rotundifolia vineyards, to give instructions for further work, inspect and take notes on viticultural work.	67.75	Do.
Do.....	do.....	Vineland, Woodbine, N. J.; New York, N. Y. (Feb. 28-Mar. 6, 1912.)	To demonstrate methods of pruning and training grape vines and to address the American Wine Growers' Association on viticultural topics.	38.27	Do.
Do.....	do.....	Willard, Rocky Mount, Enfield, N. C. (Apr. 1-4, 1912.)	To conduct grafting experiments with rotundifolia grapes; to inspect experiments in cooperative vineyards, and to give instructions for further viticultural experiments.	33.00	Do.
Do.....	do.....	Vineland, N. J. (Apr. 17-19, 1912.)	do.....	12.89	Do.
Ingram, Della E.....	Scientific assistant.....	Halsey, Lincoln, Nebr. (July 1-Aug. 31, 1911.)	To investigate damping off and other diseases of conifers, in connection with the control of diseases of forest and ornamental trees.	51.32	Forest pathology.
Jackson Frank H.....	Architect.....	Garden City, Kans.; Denver, Akron, Colo.; Dalhart, Tex.; Ardmore, S. Dak. (May 28-June 30, 1912.)	To supervise the erection of buildings at field stations in connection with dry-land agricultural investigations.	183.63	Dry-land agriculture.
Jacobs, Cora.....	Scientific assistant.....	Columbia, Mo.; Lafayette, Ind. (Feb. 27-Apr. 30, 1912.)	To assist in seed testing at the branch cooperative seed-testing laboratory.	121.20	Seed-testing laboratory
Johnson, Edward C.....	Pathologist.....	Duluth, St. Paul, Minneapolis, St. Anthony Park, Minn.; Fargo, Williston, N. Dak.; Amarillo, Tex.; Crowley, Rayne, Washington, La.; (July 1-Sept. 12, 1911.)	To study cereal diseases and to supervise the harvesting of disease-resistance cereal hybrids grown in cooperation with experiment stations and private farmers, in connection with the improvement of grains and grain production.	380.58	Grain investigations.
Do.....	do.....	Manhattan, Kans.; Dalhart, Amarillo, Tex.; Las Cruces, Mesilla Park, N. Mex.; Yuma, Tucson, Ariz.; El Centro, Los Angeles, Imperial, Pasadena, Middle River, Fresno, Stockton, Berkeley, San Francisco, Chico, Cal.; Lincoln, Nebr.; St. Paul, Minn. (May 16-June 30, 1912.)	To inspect cooperative cereal-disease experiments; to ascertain the necessity for the extension of cereal disease investigations to new localities; to consult with station officials and other cooperations, and to carry on other experiments and investigations in the study of cereal diseases, as a part of the work in grain improvement.	353.58	Do.
Jones, J. Walter.....	Expert.....	Philadelphia, Pa.; Vineland, N. J. (Mar. 13-19, 1912.)	To study markets and market organizations in their relation to the cultivation of truck crops and to general horticultural investigations.	29.86	Arlington Farm and horticulture.
Jones, W. Ralph.....	Scientific assistant.....	Vineland, Moorestown, New Lisbon, Egg Harbor, Mays Landing, Atlantic City, N. J. (July 1-Sept. 16, 1911.)	To conduct experiments and demonstrations in the control of the diseases of grapes and small fruits.	49.13	Fruit diseases.

Statement showing the names of officers or employees (other than special agents, inspectors, or employees who in the discharge of their regular duties are required to constantly travel) who traveled on official business from Washington to points outside the District of Columbia during the fiscal year 1912, etc.—Continued.

## BUREAU OF PLANT INDUSTRY—Continued.

Name.	Title.	Destination.	Business or work.	Total expense.	Appropriation.
Jones, W. Ralph.....	Scientific assistant.....	Vineland, Moorestown, N. J.; Philadelphia, Pa. (Apr. 3-11, 1912.)	To conduct experiments and demonstrations in the control of the diseases of grapes and small fruits.	\$23.60	Fruit diseases.
Do.....	do.....	Vineland, Moorestown, N. J.; Philadelphia, Pa. (Apr. 16-June 30, 1912.)	do.....	23.05	Do.
Kearney, Thos. H.....	Physiologist in charge of alkali and drought-resistant plants.	Sacaton, Glendale, Ariz.; Bard, Los Angeles, Cal.; Denver, Akron, Col.; Wamsutter, Wyo.; Salt Lake, Utah; Idaho Falls, Idaho; Ontario, Hermiton, Dalles, Moro, Oreg.; North Platte, Nebr. (July 2-Aug. 11, 1911.)	To continue work in breeding and testing alkali and drought-resistant crop plants, to test and breed varieties of pomegranate, especially in respect to the drought and alkali resistance of this plant; and to study the indicator value of natural vegetation in arid regions.	470.93	Alkali and drought-resistant plants.
Do.....	do.....	Akron, Colo.; Bakersfield, Wasco, Los Angeles, Bard, Glendale, Cal.; Sacaton, Tempe, Phoenix, Ariz.; San Antonio, Tex. (Sept. 18-Oct. 31, 1911.)	do.....	324.40	Do.
Do.....	do.....	Akron, Grand Junction, Colo.; Salt Lake, Tooele, Utah; Newell, Bellefourche, Whitewood, S. Dak. (May 22-June 20, 1912.)	do.....	279.04	Do.
Keitt, George W.....	Scientific assistant.....	Hart, Holland, Saugatuck, Benton Harbor, Coloma, Watervliet, Fennville, Douglas, Mich. (July 1-Sept. 16, 1911.)	To investigate diseases of fruits, especially brown-rot of stone fruits and scab of apples and to conduct spraying demonstrations and experiments for their control.	111.30	Fruit diseases.
Do.....	do.....	Atlanta, Marshallville, Cornelia, Fort Valley, Ga. (Mar. 15-June 30, 1912.)	do.....	99.46	Do.
Kellerman, Karl F.....	Physiologist in charge of bacteriology and nutrition.	Schellburg, Harrisburg, Pa. (July 31-Aug. 2, 1911.)	To inspect various experimental plats of legumes to determine the results of inoculation with nitrogen-fixing bacteria; and to examine statistical data in the possession of the Pennsylvania Department of Agriculture relative to results secured from legume inoculation.	32.29	Bacteriology and nutrition.
Do.....	do.....	Montrose, Grand Junction, Delta, Col.; Fallon, Nev.; San Francisco, Palo Alto, Davis, Los Angeles, Cal. (Sept. 21-Oct. 19, 1911.)	To arrange cooperative experiments in soil bacteriology, to secure soil samples for study of the bacterial flora; and to confer with station officials and other cooperators relative to investigations in soil bacteriology.	348.85	Do.
Do.....	do.....	Riverside, Los Angeles, San Dimas, Pomona, Santa Paula, San Bernar-	To investigate soil bacteriological conditions associated with the malnutrition of orchard	455.70	Do.

Krieger, L. C. C.	Artist	dino, San Diego, Stockton, Sacramento, San Francisco, Berkeley, Cal.; Logan, Salt Lake, Utah; Denver, Colo. (Mar. 12-June 16, 1912.) Chico, Cal. (Apr. 4-May 9, 1912.)	trees and other plants in irrigated regions in Western States.	137.15	Farm management.
Kyle, Curtis H.	Assistant physiologist	Darlington, S. C.; Augusta, Ga. (July 1-11, 1911.)	To make illustrations of species of cacti for use in farm-management investigations. To investigate problems in corn culture; to harvest experimental corn and to confer with cooperating farmers to ascertain the results secured from the planting of improved types of corn bred by the department.	73.70	Grain investigations.
Do.	do.	Portsmouth, Va.; Raleigh, N. C.; Darlington, Hartsville, Newberry, Aiken, Columbia, S. C.; Augusta, Atlanta, Ga.; Tuskegee, Ala.; Fort Myers, La Belle, Edge, Fla. (Sept. 5-30, 1911.)	do.	199.87	Do.
Do.	do.	Piketon, Ohio. (Oct. 18-Dec. 4, 1911.)	To assist in harvesting experimental corn and to record data on results of experiments in connection with the improvement of corn.	51.20	Do.
Do.	do.	Columbia, S. C. (Dec. 13-15, 1911.)	To deliver an address on "Corn Improvement" before the South Atlantic Corn Exposition, and to confer with cooperators regarding experimental corn work.	37.56	Do.
Do.	do.	Columbia, James Crossing, Darlington, Newberry, St. Charles, Edisto Island, Clinton, Ballentine, Ridgeway, S. C.; Augusta, Laurens, Ga. (Mar. 4-May 25, 1912.)	To find locations for experiments in corn culture and to supervise the planting, thinning, and other details of corn cultivation, and to record data on the results of corn investigations.	210.99	Do.
Lake, E. R.	Assistant pomologist	Snow Hill, Salisbury, Berlin, Md.; Greenwood, Dover, Harrington, Bridgeville, Milford, Seaford, Del. (May 12-19, 1912.)	To collect data on the strawberry industry in connection with investigations in their culture and improvement.	35.47	Pomological investigations.
Do.	do.	Snow Hill, Salisbury, Berlin, Md.; Greenwood, Dover, Harrington, Bridgeville, Milford, Seaford, Del. (May 24-June 1, 1912.)	do.	45.72	Do.
Leonard, Lewis T.	Scientific assistant	Ithaca, N. Y. (Apr. 11-16, 1912.)	To arrange for cooperative field work in connection with the inoculation of leguminous crops with soil bacteria.	37.11	Bacteriology and nutrition.
Do.	do.	Schellburg, Somerset, Stoyestown, Pa.; Salem, Ohio. (June 10-30, 1912.)	To conduct field experiments in methods of inoculating soy beans and alfalfa.	73.01	Do.
Lewis, K. B.	do.	Pasadena, Whittier, San Dimas, Riverside, Cucamonga, Los Angeles, Fresno, Sacramento, Cal. (July 1-Nov. 30, 1911.)	To assist with experiments in handling and storing of fruit.	388.02	Pomological investigations.
Do.	do.	Orlando, Winter Garden, Winter Park, Crescent City, Tampa, De Land, Tavares, Ocala, Bradentown, Manatee, Fla., and adjacent points. (Jan. 1-Feb. 27, 1912.)	do.	345.50	Do.

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## BUREAU OF PLANT INDUSTRY—Continued.

Name.	Title.	Destination.	Business or work.	Total expense.	Appropriation.
Lewton, Frederick L.....	Assistant botanist.....	Waco, San Antonio, Victoria, Tex. (July 26-Aug. 15, 1911.)	To supervise and study experiments in the acclimatization and breeding of cotton.	\$172.70	Crop acclimatization.
Do.....	do.....	Williamsburg, Va.; Columbia, St. Mathews, Hartsville, Charleston, Mount Pleasant, Luray, Easley, S. C.; Rome, Lagrange, Marion, Kellytown, Turnersville, Ga.; Altamonte Springs, Sanford, Forest City, Fla. (Sept. 7-Oct. 6, 1911.)	To conduct experiments in cotton breeding and to inspect and rogue the cotton grown for congressional seed distribution.	116.32 94.24	Do. Purchase and distribution of valuable seeds, 1912 (congressional seed distribution).
Long, Wm. H.....	Forest pathologist.....	San Francisco, Berkeley, Palo Alto, Boulder Creek, Redwood Park, Red Bluff, Mineral, Sisson, Los Angeles, Cal.; Silver City, Mogollon, Albuquerque, Alamogorda, N. Mex.; El Paso, San Antonio, Austin, Tex.; Gurdon, Ark.; St. Louis, Mo. (Aug. 25-Nov. 26, 1911.)	To investigate forest tree diseases, to devise methods for their control, and to cooperate with the district forester in the Forest Service in carrying such methods into execution.	654.51	General expenses, B.P.I., 1912 (forest pathology).
Lute, Anna M.....	Scientific assistant.....	Lincoln, Nebr.; Berkeley, Cal. (Oct. 6-June 19, 1912.)	To conclude the work at the Lincoln, Nebr., cooperative branch seed-testing laboratory and to take charge of the branch laboratory at Berkeley, Cal.	253.15	Seed-testing laboratory.
McBeth, Ira G.....	do.....	Logan, Utah. (Aug. 1-Sept. 28, 1911.)	To conduct investigations upon the bacteriological conditions of the dry and irrigated lands of the Cache Valley, in Utah, in cooperation with the Utah experiments station.	190.45	Bacteriology and nutrition.
Do.....	do.....	Ames, Iowa; Logan, Utah. (June 20, 30, 1912.)	do.....	115.20	Do.
McClure, Harry B.....	Assistant agriculturist...	Hayti, Caruthersville, St. Louis, Mo.; Memphis, Tenn. (July 1-Oct. 24, 1911.)	To complete the construction of and to operate a hay-drying kiln at Hayti, and to continue investigations in the artificial curing of hay as a feature of farm-management studies.	213.61	Farm management.
Do.....	do.....	Hayti, Caruthersville, St. Louis, Mo.; Memphis, Tenn. (Mar. 14-June 30, 1912.)	do.....	203.85	Do.
McKay, Andrew W.....	Expert.....	Salem, Oreg.; Puyallup, Wash.; Sacramento, Lodi, Cal. (July 1-Oct. 29, 1911.)	To continue experiments in the precooling, handling, shipping, and storing of citrus and deciduous fruits.	535.62	Pomological investigations.

Do.....	do.....	Jacksonville, Gainesville, Bradentown, Tampa, Orlando, New Smyrna, Miami, Daytona, Fort Myers, and other points in Florida. (Dec. 3, 1911-Mar. 16, 1912.)	do.....	571.61	Do.
Do.....	do.....	Denver, Colo. (June 1-30, 1912.)	To inspect experimental shipments of loganberries arriving from California for the purpose of ascertaining their keeping qualities, in connection with the fruit storage and transportation investigations.	96.05	Do.
McKay, Marion B.....	Scientific assistant.....	Monetta, Hartsville, Florence, Batesburg, S. C. (Aug. 2-25, 1911.)	To assist in harvesting wilt-resistant watermelons and in conducting experiments in the breeding of cotton and cowpeas for wilt resistance.	69.50	Cotton and truck diseases.
Do.....	do.....	Florence, Hartsville, Monetta, Lamar, S. C.; Headland, Ala. (Sept. 11-Oct. 10, 1911.)	To assist in field experiments in connection with the breeding and culture of disease-resistant varieties of cotton, cowpea, and watermelon.	113.32	Do.
Do.....	do.....	Florence, Lamar, S. C. (Oct. 23-Nov. 7, 1911.)	To complete field work on cotton-wilt experiments.	42.98	Do.
Do.....	do.....	Rocky Ford, Col., and vicinity. (Jan. 8-June 30, 1912.)	To assist with investigations of the leaf-spot disease of sugar beets, as a feature of the work in the improvement of sugar-producing plants.	106.77	Sugar-plant investigations.
McKee, Roland.....	do.....	Albany, Corvallis, Hood River, Moro Union, St. Johns, Portland, Cottage Grove, Eugene, Oreg.; Pullman, Puyallup, Wash.; Chico, Cal. (July 1-Nov. 21, 1911.)	To conduct investigations in the propagating and testing of new and promising crops for forage and green manure, in connection with the congressional distribution of seeds and plants.	182.00	Forage crop investigations.
Do.....	do.....	Phoenix, Yuma, Ariz.; Indio, Redlands, Colton, Riverside, Pomona, Los Angeles, Santa Ana, Porterville, Sacramento, Chico, San Jose, Red Bluff, Santa Barbara, Cal.; Roseberry, McCall, Weiser, Pocatello, Idaho; Salt Lake, Murray, Nephi, Logan, Utah; Moapa, Nev. (Mar. 4-June 30, 1912.)	do.....	135.58 214.00	Do. General expenses, B. P. I., 1912 (forage crop investigations).
McLachlan, Argyle.....	Assistant.....	Boston, Lowell, New Bedford, Fall River, Springfield, Mass.; Baltic, Conn.; Providence, R. I.; Newark, N. J.; New York, N. Y. (Jan. 5-16, 1912.)	To confer with manufacturers and buyers of Egyptian cotton in the interest of the establishment of the commercial production of Egyptian cotton in the Southwestern States, in connection with the work in cotton improvement and the utilization of lands in arid regions for crop production.	83.63	Western agricultural extension.
Do.....	do.....	Houston, Victoria, Tex.; Phoenix, Mesa, Yuma, Sacaton, Ariz.; Bard, El Centro, Los Angeles, Pomona, Brawley, Holtville, Claremont, Cal. (Jan. 24-June 30, 1912.)	To supervise the establishment of the commercial culture of Egyptian cotton, in connection with investigations in cotton improvement and the utilization of arid and semiarid lands for crop production.	509.50	Do.

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## BUREAU OF PLANT INDUSTRY—Continued.

Name.	Title.	Destination.	Business or work.	Total expense.	Appropriation.
McLane, John W. ....	Laboratory assistant ....	Amarillo, Dalhart, Tex.; Garden City, Hays, Kans.; North Platte, Mitchell, Scottsbluff, Nebr.; Bellefourche, Newell, S. Dak.; Hettfenger, Edgeley, Williston, Dickinson, N. Dak.; Osborn, Moccasin, Huntley, Judith Basin, Hobson, Mont. (July 8–Aug. 15, 1911.)	To inspect apparatus used in measuring the physical requirements of plants, and to conduct physical investigations.	\$303.15	Physical investigations.
Do. ....	...do. ....	Tooele, Utah, and vicinity. (May 23–June 30, 1912.)	To inaugurate and conduct biophysical investigations relative to the water requirements of crop and other plants, and to the causes of malnutrition of orchard trees and the tolerance of plants to the accumulation of alkali.	127.85	Do.
McMurrin, S. M. ....	Expert. ....	Winchester, Va. (4 trips). (July 12–Oct. 16, 1911.)	To conduct spraying experiments for the control of apple diseases, and to carry on investigations bearing on the relation of nutrition to apple diseases.	34.37	Fruit diseases.
Do. ....	...do. ....	Green Springs, W. Va., and vicinity. (Nov. 9–11, 1911.)	To investigate diseases of the apple. ....	15.63	Do.
Do. ....	...do. ....	Miami, Fla., and vicinity. (Jan. 25–Apr. 24, 1912.)	To investigate diseases of mango and other fruits and to conduct field and laboratory experiments for their control.	350.21	Do.
Do. ....	...do. ....	Ridge Springs, S. C. (May 6–9, 1912.)	To investigate a new and undetermined disease in peach orchards.	33.90	Do.
Do. ....	...do. ....	Winchester, Va., Charleston, W. Va. (May 14–June 2, 1912.)	To study collar blight of apples, root-rot, and other fruit diseases; and to test the effect of fertilizers on orchard diseases.	34.14	Do.
Do. ....	...do. ....	Summit Point, W. Va. (June 14–15, 1912.)	To conduct pear blight eradication work, to investigate an unknown disease in apple orchards.	8.74	Do.
Do. ....	...do. ....	Miami, Fla. (June 24–30, 1912.)	To continue investigations of diseases of mango and other fruits.	92.15	Do.
Malcolm, Donald C. ....	Laboratory aid. ....	Honeoye Falls, N. Y., and vicinity. (Sept. 24–Oct. 15, 1911.)	To assist in harvesting potatoes in the trial plots, in connection with general horticultural investigations.	57.84	Arlington farm and horticulture.
Do. ....	...do. ....	Houlton, Me.; Honeoye Falls, N. Y. (May 21–June 15, 1912.)	To assist in planting seedling and varietal collections of potatoes, in connection with general horticultural investigations.	116.41	Do.



Mann, Charles W.....	Scientific assistant.....	Pasadena, San Dimas, Whittier, Riverside, Fresno, Sacramento, San Francisco, Watsonville, Lodi, Los Angeles, Cal.; Chicago, Ill.; New York City. (July 1-Nov. 25, 1911.)	To investigate methods of handling and storing oranges, lemons, apples, and grapes.	827.05	Pomological investigations.
Do.....	do.....	New York City. (Dec. 12-15, and 18-20, 1911.)	To inspect experimental lots of grapes held in storage, make notes as to their condition, and arrange for their sale.	69.50	Do.
Do.....	do.....	Chicago, Ill.; Sacramento, Fresno, Los Angeles, San Dimas, Whittier, Pasadena, Riverside, Lodi, San Bernardino, Corona, Redlands, Berkeley, Chico, Santa Rosa, Watsonville, Visalia, Fort Bragg, Sebastol, Cal. (Jan. 10-June 30, 1912.)	To conduct handling, transportation and storage investigations with lemons, oranges, pomelos, apples, grapes, figs, and other fruits.	763.21	Do.
Marsh, C. Dwight.....	Physiologist.....	Baldwin, Gunnison, Col., and vicinity; St. Louis, Mo.; Chicago, Ill. (July 1-Oct. 5, 1911.)	To conduct field and laboratory studies of the loco weed, larkspur, and other stock-poisoning plants, and to confer with stockmen and others in regard to the work of poisonous-plant investigations.	195.61	Drug and other plants.
Do.....	do.....	Chicago, Ill.; Denver, Colo.; Kansas City, Mo. (Dec. 9-18, 1911.)	To address the American National Live Stock Association on the subject of "Poisonous Plants;" to consult scientists, stockmen, and other authorities in regard to stock poisoning by plants; and to arrange cooperative work in the poisonous-plant investigations.	87.47	Do.
Do.....	do.....	Wilmington, N. C., and vicinity. (Mar. 3-Apr. 3, 1912.)	To investigate cases of reported stock poisoning by plants.	29.15	Do.
Do.....	do.....	Chicago, Ill.; Minneapolis, Minn.; Livingstone, Missoula, Bozeman, Billings, Greycliff, Mont. (May 4-June 30, 1912.)	To continue field and laboratory studies of the loco weed, larkspur, and other stock-poisoning plants.	199.20	Do.
Marsh, Hadleigh.....	Laboratory assistant....	Baldwin, Colo. (July 1-Sept. 18, 1911.)	do.....	81.35	Do.
Do.....	do.....	Greycliff, Mont. (June 6-30, 1912)....	do.....	70.20	Do.
Mason, Silas C.....	Arboriculturist.....	Boston, Cambridge, Mass. (Aug. 16-24, 1911.)	To consult herbaria and libraries for the purpose of securing data on dry-land arboriculture, in connection with crop-physiology investigations.	50.10	Crop physiology.
Do.....	do.....	El Paso, San Antonio, Tex.; Mesilla Park, Las Cruces, N. Mex.; Casa Grande, Sacaton, Ariz.; Indio, Los Angeles, San Francisco, Berkeley, Santa Barbara, Cal.; St. Louis, Mo. (Nov. 4-Dec. 29, 1911.)	To study various problems in dry-land arboriculture and to conduct other crop-physiology investigations.	316.47	Do.
Do.....	do.....	El Paso, San Antonio, Tex.; Mesilla Park, Las Cruces, N. Mex.; Casa Grande, Sacaton, Ariz.; Indio, Los Angeles, San Francisco, Berkeley, Santa Barbara, Cal.; St. Louis, Mo. (May 20-June 30, 1912.)	do.....	273.85	Do.

Statement showing the names of officers or employees (other than special agents, inspectors, or employees who in the discharge of their regular duties are required to constantly travel) who traveled on official business from Washington to points outside the District of Columbia during the fiscal year 1912, etc.—Continued.

BUREAU OF PLANT INDUSTRY—Continued.

Name.	Title.	Destination.	Business or work.	Total expense.	Appropriation.
Mathewson, Ernest H.....	Scientific assistant.....	Reidsville, Creedmoor, Oxford, Winston-Salem, N. C.; Darlington, Lake City, S. C.; Appomattox, Bowling Green, Richmond, Va. (July 1–Sept. 14 and Sept. 15, 1911–June 27, 1912.)	To study methods of harvesting and curing tobacco, to confer with growers and dealers concerning cooperative tobacco experiments, and to advise farmers regarding methods of tobacco culture.	\$244.42	Tobacco investigations.
Meade, Rowland M.....	do.....	San Antonio, College Station, Clarksville, Tyler, Victoria, Farmersville, Waco, Del Rio, Tex.; Yuma, Ariz.; Bard, El Centros, Los Angeles, Glendale, Indio, Altadena, Cal. (July 1–Nov. 13, 1911.)	To assist with experiments in the acclimatization and adaptation of cotton and corn, cotton breeding and selection, and acclimatization and adaptation investigations with other crops introduced from tropical countries.	538.10	Crop acclimatization.
Do.....	do.....	San Antonio, Kerrville, Boerne, Tex. (May 1–June 30, 1912.)	do.....	279.95	Do.
Meloy, Guy S.....	Assistant.....	Norfolk, Va. (Feb. 20–22, 1912).....	To arrange with the Virginia Truck Experiment Station and with private growers to conduct cooperative cotton breeding experiments; and to study the operation of a cotton gin in connection with the cotton improvement work.	15.85	Do.
Do.....	do.....	Norfolk, Va. (May 8–12, 1912).....	To assist in planting cotton on the Virginia Truck Experiment Farm, in connection with cotton culture and breeding investigations.	22.10	Do.
Do.....	do.....	Norfolk, Williamsburg, Va. (June 25–28, 1912.)	To assist with the cotton-breeding experiments.	20.90	Do.
Do.....	do.....	Norfolk, Va. (June 25–28, 1912.)	do.....	19.70	Do.
Merick, Lovina.....	Scientific assistant.....	La Fayette, Ind. (Oct. 1, 1911–June 30, 1912.)	To take charge of the cooperative branch seed-testing laboratory.	54.25	Seed-testing laboratory.
Metcalf, Haven.....	Pathologist in charge of forest pathology.	Philadelphia, Pa.; Cold Spring Harbor, Richmond Hill, Brooklyn, N. Y. (July 8–Aug. 17, 1911.)	To investigate the chestnut-tree bark disease and methods of controlling it.	132.43	General expenses, B. P. I., 1911–12 (investigation of the chestnut-tree bark disease).
Do.....	do.....	Philadelphia, Sunbury, Paxinos, Pa.; Newark, Del. (Sept. 6–9, 1911.)	To confer with State authorities and private collaborators relative to methods of combating the chestnut-tree bark disease.	14.88	Do.
Do.....	do.....	Baltimore, Md.; Philadelphia, Pa. (Oct. 6, 1911.)	To investigate the bark disease of chestnut, in connection with work in the control of diseases of forest trees.	6.78	General expenses, B. P. I., 1912 (forest pathology).
Do.....	do.....	Philadelphia, Pa.; New York, Albany, N. Y.; Providence, R. I.; Boston, Mass. (Oct. 18–28, 1911.)	do.....	61.15	Do.

Do.	do.	Blacksburg, Va. (Nov. 13-15, 1911).	To investigate the chestnut-bark disease and consult with the crop-pest commission and experiment station authorities relative to cooperative work in combating the disease.	19.10	Do.
Do.	do.	Richmond, Va. (Nov. 19-21, 1911).	do.	9.80	Do.
Do.	do.	Philadelphia, Pa. (Nov. 24, 1911).	To attend a meeting of the Chestnut Tree Blight Commission of Pennsylvania and to confer with specialists and cooperators in the interest of the control of the chestnut-bark disease.	7.15	Do.
Do.	do.	Richmond, Va. (Feb. 11-12, 1912).	To advise with the finance committee of the Virginia House of Delegates and other State officials regarding pending legislation for the control of the chestnut-bark disease.	9.85	Do.
Do.	do.	Philadelphia, Pa.; Boston, Mass.; New York, N. Y. (Feb. 15-23, 1912.)	To continue investigations on the chestnut-bark disease.	18.48	Do.
Do.	do.	Philadelphia, Pa. (Mar. 1-2, 1912).	To confer with the chestnut-tree blight commission in connection with the control of the chestnut-bark disease.	11.86	Do.
Do.	do.	Philadelphia, Pa. (Apr. 26-27, 1912).	do.	7.60	Do.
Do.	do.	Philadelphia, Valley Forge, Pa. (June 6-9, 1912.)	do.	23.21	General expenses, B. P. I., 1911-12 (investigating chestnut-tree bark disease).
Do.	do.	Philadelphia, Pa.; Richmond Hill, Cold Spring Harbor, New York, N. Y. (June 24-30, 1912.)	To consult with State authorities and to inspect work in progress in connection with the control of the chestnut-bark disease.	46.47	Do.
Meyer, Frank N.	Agricultural explorer.	Omsk, Barnaul and other points in Russia; Berlin, Germany; Amsterdam, Holland; London, Cambridge, Liverpool, England; Queenstown, Ireland. (July 1, 1911-Apr. 20, 1912.)	To secure rare and valuable seeds, hardy fruits, trees, shrubs, vines, and other valuable plant material, together with descriptive data regarding same, conditions under which they grow, habits of growth, methods of cultivation, etc.	1,816.73	Purchase and distribution of valuable seeds, 1912 (foreign seed and plant introduction).
Miles, Geo. F.	Scientific assistant.	Norfolk, Cape Charles, Onley, Portsmouth, Va. (July 4-9, 1911.)	To investigate diseases of truck crops.	29.19	General expenses, B. P. I., 1912 (cotton and truck diseases).
Do.	do.	Norfolk, Va. (3 trips). (July 13-Aug. 1, 1911.)	To conduct spraying demonstrations and experiments for the control of diseases of cantaloupes.	48.40	Do.
Do.	do.	Decker, Vincennes, Ind.; Fayetteville, Tenn. (Aug. 2-6, 1911.)	To investigate the extent of damage from diseases of muskmelons and other truck crops.	73.57	Do.
Do.	do.	Philadelphia, Pa.; Swedesboro, Wolfert, Bridgeton, Vineland, N. J.; Seneca Falls, Rochester, Gasport, N. Y. (Aug. 21-30, 1911.)	To investigate diseases of muskmelons and other truck crops, and to consult manufacturers of spraying apparatus suitable for use in connection with the control of truck-crop diseases.	75.63	Do.
Do.	do.	Norfolk, Va. (2 trips). Aug. 14-Sept. 7, 1911.)	To complete spraying experiments for the control of cantaloupe diseases and to investigate general truck-crop conditions from the standpoint of disease control.	35.05	Do.

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## BUREAU OF PLANT INDUSTRY—Continued.

Name.	Title.	Destination.	Business or work.	Total expense.	Appropriation.
Miles, Geo. F. ....	Scientific assistant....	Monetta, S. C.; Bradentown, Ocala, Manatee, Sanford, Fla.; Dallas, Greenville, Brownsville, Houston, Petty, Celeste, Tex.; New Orleans, La. (Sept. 21–Oct. 11, 1911.)	To arrange for next season's spraying experiments with muskmelons, to inspect celery for the observation of diseases, and to continue cotton root-rot experiments.	\$239.33	General expenses, B. P. I., 1912 (cotton and truck diseases).
Do. ....	do. ....	Vineland, N. J.; Philadelphia, Pa.; Elmira, Rochester, Arkport, N. Y. (Jan. 7–16, 1912.)	To select locations for conducting spraying experiments with muskmelons during the coming season and to investigate the diseases of celery in storage.	68.35	Do.
Do. ....	do. ....	Jacksonville, Ocala, Tampa, Bradentown, Taylorville, Hastings, Lakeland, Palatka, Gainesville, Wauchochula, Palmetto, Manatee, Fla. (Mar. 18–May 23, 1912.)	To conduct spraying experiments with muskmelons and to study diseases of celery and other truck crops.	323.79	Do.
Do. ....	do. ....	Philadelphia, Pa.; Vineland, N. J. (May 27–31, 1912.)	To inaugurate spraying experiments for the control of muskmelon diseases.	26.39	Do.
Do. ....	do. ....	Greenville, Galveston, Petty, Tex.; Key West, Ocala, Jacksonville, Fla. (June 1–20, 1912.)	To continue investigations of cotton root-rot and to prepare data on the season's work in spraying for muskmelon diseases.	208.55	Do.
Miller, Henry A. ....	Assistant agriculturist...	Charlottesville, Lynchburg, Va. (July 21–23, 1911.)	To investigate systems of farm management, to advise farmers regarding the adoption of improved farm practices, and to institute farm management demonstration work.	19.05	Farm management.
Do. ....	do. ....	Annapolis, Md.; Leesburg, Va. (Aug. 16–17, 1911.)	do. ....	4.35	Do.
Do. ....	do. ....	Charlottesville, Manassas, Naylor, Barboursville, Va. (Oct. 1–Nov. 10, 1911.) (4 trips.)	do. ....	73.29	Do.
Do. ....	do. ....	Markham, Fredericksburg, Orange, Warrenton, Va. (Mar. 19–Apr. 16, 1912.)	do. ....	25.30	Do.
Milstead, Joseph I. ....	Laborer.....	Norfolk, Va. (May 9–12, 1912.)	To assist in planting peanuts at the Virginia Experiment Station in connection with general horticultural investigations.	12.50	Arlington Farm and horticulture.
Do. ....	do. ....	Honeoye Falls, N. Y. (June 5–14, 1912.)	To assist in planting trial potatoes, with a view to securing better varieties, as a part of general horticultural investigations.	41.61	Do.
Mitchell, Geo. A. ....	Expert.....	Glassboro, Richland, N. J. (July 27–Nov. 25, 1911.)	To inspect experimental plats of sweet potatoes, in connection with problems relating to diseases of this crop and their control.	5.37	Cotton and truck diseases.

Morrison, Geo. W.....	Assistant.....	Chicago, Ill.; Fargo, N. Dak.; Kansas City, Mo.; Coffeyville, Kans.; New Orleans, La. (July 1-22, 1911.)	To assist in the grain standardization work and to introduce improved and uniform business methods in the administration of the branch grain standardization laboratories.	190.11	Grain standardization.
Morse, Wm. J.....	Scientific assistant.....	Purcellville, Round Hill, Hamilton, Leesburg, Va. (Aug. 2-3, 1911.)	To inspect experimental plats of soy beans in connection with the testing of forage crops for congressional distribution.	7.00	Purchase and distribution of valuable seeds, 1912 (foreign seed and plant introduction).
Do.....	do.....	Washington, N. C.; Monetta, S. C.; Augusta, Atlanta, Ga.; Gainesville, Fla.; Auburn, Ala.; Jackson, Tenn.; Lexington, Ky.; Lafayette, Ind.; Urbana, Ill. (Aug. 10-28, 1911.)	To inspect experimental fields of soy beans and other forage crops under test, in connection with the improvement of forage crops.	155.31	General expenses, B. P. I., 1912 (forage crop investigations).
Mowry, Herbert H.....	Assistant.....	Rochester, Sodus, Walcott, N. Y.; Portage, Packwaukee, Stoughton, Wis. (July 20-Sept. 27, 1911.)	To secure data on farm equipment, as a feature of general farm-management investigations and the improvement of farm practice.	226.01	Farm management.
Do.....	do.....	Cazenovia, New Woodstock, Canastota, N. Y. (Nov. 3-17, 1911.)	do.....	69.93	Do.
Do.....	do.....	St. Paul, Minn. (Nov. 27-Dec. 4, 1911.)	To collect data on farm equipment and to consult with cooperators in general farm-management matters.	83.25	Do.
Do.....	do.....	York, Lancaster, Pa. (May 7-11, 1912.)	To confer with field assistants regarding investigations in farm equipment, and to develop plans for extending the work.	32.52	Do.
Do.....	do.....	Lancaster, Mount Joy, Pa.; New York, N. Y. (June 9-12, 1912.)	To confer with commercial firms dealing in farm machinery to ascertain the extent to which certain farm equipment is used, and to secure other data on farm equipment.	27.02	Do.
Mulford, Furman L.....	Landscape gardener.....	Batesville, Ark.; St. Louis, Mo.; Cincinnati, Ohio. (Aug. 10-19, 1911.)	To inspect tree-planting systems and conduct work in landscape gardening, in connection with general horticultural investigations.	73.31	Arlington farm and horticulture.
Muncey, Elliott M.....	Laboratory aid.....	Cumberland Mills, Me. (July 4, 1911-Jan. 20, 1912.) (3 trips.)	To continue work on the utilization of crop and other plants for paper making.	265.65	Paper-plant investigations.
Norton, Jesse B.....	Physiologist.....	Norfolk, Va.; Concord, Mass. (July 4-29, 1911.)	To conduct experiments in breeding rust-resistant asparagus.	37.46	Cotton and truck diseases.
Do.....	do.....	Clemson College, Monetta, Ridge Springs, Trenton, Hattievville, Charleston, S. C.; Auburn, N. C. (Aug. 9-17, 1911.)	To investigate asparagus rust and other diseases of truck crops.	49.22	Do.
Do.....	do.....	Norfolk, Va.; Concord, Mass. (Aug. 27-Oct. 3, 1911.)	To conduct experiments on breeding spinach and asparagus for disease resistance.	50.12	Do.
Do.....	do.....	Norfolk, Va.; Concord, Mass. (Nov. 16-18, 1911, and Jan. 21-23, 1912.)	do.....	22.44	Do.
Do.....	do.....	Staunton, Winchester, Va. (Apr. 1-4, 1912.)	To inaugurate experiments with sugar beets in connection with the improvement of sugar-producing plants.	20.97	Sugar-plant investigations.
Do.....	do.....	Norfolk, Va.; Concord, Mass. (Apr. 16-May 1, 1912.)	To continue work on the breeding of disease-resistant strains of spinach and asparagus.	62.15	Cotton and truck diseases.

Statement showing the names of officers or employees (other than special agents, inspectors, or employees who in the discharge of their regular duties are required to constantly travel) who traveled on official business from Washington to points outside the District of Columbia during the fiscal year 1912, etc.—Continued.

## BUREAU OF PLANT INDUSTRY—Continued.

Name.	Title.	Destination.	Business or work.	Total expense.	Appropriation.
Norton, Jesse B.....	Physiologist.....	Norfolk, Va., and vicinity; Concord, Mass. (May 12-June 24, 1912.)	To continue experiments in breeding disease-resistant asparagus.	\$72.95	Cotton and truck diseases.
Oakley, Russell A.....	Assistant agrostologist...	New London, Ohio. (July 17-22, 1911).	To arrange with experiment stations and private growers for cooperative work in the testing of new grasses and forage plants.	44.15	Forage-crop investigations.
Do.....	do.....	Frederick, Hagerstown, Oakland, Cumberland, Md. (Aug. 17-25, 1911.)	To inspect alfalfa tests in connection with the investigation and improvement of forage crops.	48.42	Do.
Do.....	do.....	Urbana, Ill.; Lafayette, Ind. (Oct. 1-3, 1911.)	To arrange with experiment-station officials for the cooperative testing of forage crops in connection with the congressional seed distribution.	27.97	Do.
Do.....	do.....	Philadelphia, Chestnut Hill, Pa.; Baltimore, Md. (Oct. 24-26, 1911.)	To inspect experimental plats of grasses and arrange for further work in the testing and improvement of forage crops.	21.49	Do.
Do.....	do.....	Blacksburg, Va., and vicinity. (Oct. 30-Nov. 3, 1911.)	To secure data on experimental work in the improvement of grasses for pastures.	21.75	Do.
Do.....	do.....	Biloxi, Miss.; Pensacola, Gainesville, Brooksville, New Smyrna, Miami, Jacksonville, Fla. (Feb. 8-25, 1912.)	To arrange for tests of forage crops, especially Rhodes-grass, and to take notes on the winter condition of perennial forage crops.	167.65	Do.
Do.....	do.....	Brookings, Newell, Mitchell, S. Dak.; Edgeley, Fargo, Williston, N. Dak.; Moccasin, Mont.; American Falls, Idaho; Murray, Logan, Salt Lake, Nephi, Utah; Fort Collins, Denver, Akron, Rocky Ford, Colo.; Manhattan, Kans. (May 16-June 30, 1912.)	To inspect cooperative experiments with alfalfa and to arrange for further tests; to investigate the manufacture of alfalfa meal, secure information regarding milling machinery, and to conduct other investigations in connection with the improvement of forage crops.	409.41	Do.
O'Neale, Hugh T.....	Assistant.....	Baldwin, Gunnison, Colo. (July 1-Sept. 29, 1911.)	To assist with the investigations of poisonous plants in the Gunnison National Forest.	70.60	Drug and other plants.
Orton, William A.....	Pathologist in charge of cotton and truck diseases and sugar-plant investigations.	Vienna, Prague, Austria; London, Kew, Portsmouth, Oxford, Cambridge, Dieppe, England; Dublin, Galway, Ireland; Paris, France; Brussels, Belgium; Amsterdam, Holland; and other points in these countries. (July 1-Nov. 12, 1911.)	To study diseases of truck crops and to investigate methods used in quarantining against potato and other truck-crop diseases.	724.98	Cotton and truck diseases.
Do.....	do.....	Norfolk, Va., and vicinity. (June 2-5, 1912.)	To investigate diseases of truck crops.	36.10	Do.



Do.....	do.....	Asheville, Waynesville, Hendersonville, N. C., and vicinity. (June 18-21, 1912.)	To inspect experimental fields of sugar beets in connection with the cultivation and improvement of sugar-producing plants.	38.90	Do.
Peter, Alan McG.....	Assistant.....	Akron, Colo. (July 1-Sept. 26, 1911.)	To assist with work in the breeding and physiological study of drought-resistant plants.	59.49	Alkali and drought-resistant plants.
Do.....	do.....	Akron, Colo. (May 20-June 30, 1912.)	do.....	69.95	Do.
Piper, Charles V.....	Agrostologist in charge of forage-crop investigations.	Hongkong, Canton, China; Batavia, Java; Singapore, Calcutta, Madras, India; Vienna, Austria; Berlin, Munich, Germany; Amsterdam, Holland; Brussels, Belgium; London, England; and other points in these countries. (July 5, 1911-Jan. 17, 1912.)	To secure new forms of forage crops, rare and valuable seeds, hardy fruits, trees, shrubs, vines, and plant material, with information concerning same; to confer with forage-crop specialists, and to consult herbaria of forage plants, in connection with the introduction and distribution of valuable seeds from foreign countries.	1,561.63	Purchase and distribution of valuable seeds, 1912 (foreign seed and plant introduction).
Pomeroy, Carl S.....	Expert.....	New York, N. Y. (Aug. 30-Sept. 1, 1911).	To inspect experimental shipments of fresh figs from California and to note their condition, in connection with the fruit storage and transportation investigations.	22.75	General expenses, B. P. I., 1912 (pomological investigations).
Do.....	do.....	New York. (Sept. 22-Nov. 11, 1911.)	To inspect experimental shipments of grapes and other fruits from the Pacific coast, in connection with the fruit transportation and storage investigations.	137.63	Do.
Pool, Venus W.....	Scientific assistant.....	Lincoln, Nebr.; Rocky Ford, Colo. (Jan. 3-June 30, 1912.)	To conduct investigations on the leaf-spot disease of sugar beets as a part of the work in the improvement of sugar-producing plants.	89.10	Sugar-plant investigations.
Potter, Alden A.....	Assistant pathologist.....	Roberts, Wis.; Minneapolis, Crookston, Minn.; Aberdeen, Houghton, S. Dak.; Jamestown, Valley City, Fargo, Casselton, Devils Lake, Crary, Grand Forks, N. Dak.; Amarillo, Tex.; Crowley, La. (July 1-Oct. 3, 1911.)	To investigate cereal diseases and collect cereal-disease statistics, in connection with the work of improving grains.	387.48	Grain investigations.
Do.....	do.....	Minneapolis, Minn.; Manhattan, McPherson, Wichita, Kans. (Apr. 7-June 30, 1912.)	To supervise spring plantings for experiments on cereal diseases: to continue the breeding of wheat for rust resistance, and to conduct other investigations in the control of cereal diseases, in connection with the improvement of grains.	136.02	Do.
Pratt, Burr B.....	Scientific assistant.....	Puyallup, Walla Walla, North Yakima, Milton, Spokane, Pullman, Wenatchee, Seattle, Tacoma, Kiesel, Wash.; Portland, Hood River, White Salmon, Salem, Corvallis, Milton, Oreg.; Boise, Payette, Weiser, Lewiston, Coeur d'Alene, Idaho. (July 1-Nov. 21, 1911.)	To assist in the handling, precooling, and transportation investigations with cherries, prunes, raspberries, and other fruits; and to arrange for apple-storage experiments.	865.69	Pomological investigations.

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## BUREAU OF PLANT INDUSTRY—Continued.

Name.	Title.	Destination.	Business or work.	Total expense.	Appropriation.
Pratt, Burr B .....	Scientific assistant.....	Salem, Portland, Hood River, Milton, Medford, Oreg.; Lewiston, Payette, Weiser, Idaho; Victoria, B. C.; Clarkston, Walla Walla, North Yakima, Tacoma, Seattle, Puyallup, Pullman, Spokane, Wash.; Missoula, Mont.; San Francisco, Santa Rosa, Sebastopol, Cal. (Jan. 1-June 30, 1912.)	To assist with experiments in handling, shipping, precooling, and storing of citrus and deciduous fruits.	\$622.14	Pomological investigations.
Pritchard, Frederick J.....	Physiologist.....	Garden City, Kans.; Grand Junction, Colo.; Ogden, Utah; San Francisco, San Jose, Salinas, Alameda, Cal.; Portland, Oreg.; Fairfield, Wash.; Billings, Edgar, Mont.; Fargo, N. Dak.; Brookings, S. Dak.; St. Paul, Minn.; Madison, Wis. (July 1-Dec. 24, 1911.)	To conduct experiments in the culture and breeding of sugar beets.	357.66	Sugar-plant investigations.
Do.....	do.....	Garden City, Kans.; Grand Junction, Colo.; Ogden, Utah; San Francisco, San Jose, Salinas, Alameda, Cal.; Portland, Oreg.; Fairfield, Wash.; Billings, Edgar, Mont.; Fargo, N. Dak.; Brookings, S. Dak.; St. Paul, Minn.; Madison, Wis. (May 1-June 30, 1912.)	do.....	139.74	Do.
Rabak, Frank.....	Chemical biologist.....	Madison, Wis.; Detroit, Mich.; Buffalo, N. Y. (July 19-Oct. 17, 1911.)	To supervise the harvesting and distilling of volatile-oil plants and confer with manufacturers relative to the use of such plants for the production of turpentine and oils for paint, and to conduct other investigations in connection with the testing and use of volatile oils.	141.57	Drug and other plants.
Ramsey, H. J.....	Expert.....	Salem, Tacoma, Puyallup, Wash.; Portland, Hood River, Corvallis, Medford, Oreg.; Coeur d'Alene, Idaho; Sacramento, Lodi, Cal., and other points in States named. (July 1-Nov. 18, 1911.)	To conduct experiments in the handling, precooling, transportation, and storage of cherries, prunes, raspberries, apples, grapes, and other fruits.	685.60	Pomological investigations.
Do.....	do.....	Jacksonville, Tampa, Gainesville, Bradenton, Orlando, Miami, and other points in Florida. (Dec. 3-21, 1911.)	To investigate the relation of handling to the keeping qualities of oranges and pomelos while in transit and on the market.	196.45	Do.

Do.....	do.....	New York, N. Y. (Jan. 16-18, 1912)..	To examine experimental lots of grapes shipped from California and held in cold storage to ascertain extent of deterioration in transportation and storage.	27.20	Do.
Do.....	do.....	Crescent City, De Land, Orlando, Arcadia, Fort Myers, Tampa, and other points in Florida. (Feb. 27-Mar. 16, 1912.)	To conduct demonstrations in the handling of citrous fruits for shipment and to advise growers as to the relation of handling to the decay of citrous fruits in transit and on the market."	163.30	Do.
Do.....	do.....	Tampa, Fla. (Apr. 16-20, 1912).....	To address the Citrus Growers' Association on the "Relation of handling to decay in citrous fruits in transit and market."	69.25	Do.
Do.....	do.....	Miami, Del Ray, Fort Pierce, Jacksonville, Fla.; Atlanta, Warm Springs, Cornelia, Ga. (May 12-24, 1912.)	To arrange for peach precooling and handling investigations and to study methods of handling and shipping pineapples.	144.40	Do.
Do.....	do.....	Minneapolis, Minn.; Grand Forks, Fargo, N. Dak.; Tacoma, Puyallup, Wash. (June 20-30, 1912.)	To continue transportation and storage investigations, especially in connection with the handling and precooling of the red raspberry.	144.00	Do.
Rand, Frederick V.....	Scientific assistant.....	Charleston, S. C.; Thomasville, Albany, Baconton, Cairo, Ga. (July 2-12, 1911.)	To investigate pecan diseases and conduct spraying tests for their control.	83.62	Fruit diseases.
Do.....	do.....	Winchester, Va. (July 12-15, 1911)...	To conduct spraying tests and experiments in orchard nutrition, in connection with the control of apple disease.	20.01	Do.
Do.....	do.....	Orangeburg, S. C.; Baconton, Augusta, Macon, Albany, Cairo, Thomasville, Ga. (July 20-29, 1911.)	To continue investigations of pecan diseases and methods of controlling them.	63.76	Do.
Do.....	do.....	Winchester, Va. (3 trips). (Aug. 15-Oct. 14, 1911.)	To take notes on the results of spraying and fertilizer tests for the control of apple disease.	35.19	Do.
Do.....	do.....	Gainesville, Tallahassee, Fla.; Thomasville, Baconton, Cairo, Ga. (Aug. 20-31, 1911.)	To investigate pecan diseases and conduct spraying tests for their control.	78.95	Do.
Do.....	do.....	Atlanta, Albany, Baconton, Thomasville, Cairo, Athens, Ga.; Tallahassee, Newport, Monticello, Fla. (Oct. 16-29, 1911.)	To continue spraying and fertilizer experiments for the control of pecan diseases and to take notes on results of the season's work.	67.80	Do.
Do.....	do.....	Atlanta, Albany, Baconton, Thomasville, Cairo, Athens, Ga.; Tallahassee, Newport, Monticello, Fla. (Feb. 7-21, 1912.)	To conduct grafting and nutrition experiments for the control of "rosette" and other pecan diseases.	94.14	Do.
Do.....	do.....	Martinsburg, W. Va. (Mar. 20-23, 1912.)	To conduct experiments for the eradication of pear and apple blight.	14.24	Do.
Do.....	do.....	Martinsburg, Gerrardstown, W. Va. (Mar. 25-30, 1912.)	do.....	15.37	Do.
Do.....	do.....	Baconton, Bainbridge, Fla.; Orangeburg, S. C. (Mar. 31-Apr. 7, 1912.)	To investigate "rosette" and other pecan diseases and to conduct fertilizer tests for their control.	70.86	Do.

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## BUREAU OF PLANT INDUSTRY—Continued.

Name.	Title.	Destination.	Business or work.	Total expense.	Appropriation.
Rand, Frederick V.....	Scientific assistant.....	Knoxville, Tenn.; Raleigh, N. C. (June 27-30, 1912.)	To investigate peach "yellows," peach "rosette," and diseases of nut trees.	\$26.73	Fruit diseases.
Ricker, Percy L.....	Assistant botanist.....	St. Louis, Mo.; Pueblo, Colo.; Chico, San Francisco, Los Angeles, Cal.; San Antonio, Tex.; Abbeville, New Orleans, La. (Apr. 16-June 15, 1912.)	To collect and study varieties of bur clovers in flower and fruit in connection with the botanical study and classification of economic plants.	401.16	Taxonomic and range investigations.
Rittue, Edward C.....	Assistant.....	Pueblo, Vineland, Denver, Holbrook, Swink, Trinidad, Rocky Ford, Holly, Colo. (July 1-Sept. 5, 1911.)	To continue experimental and demonstration work in the cultivation of sugar beets and control of sugar-beet diseases as a part of the work in the improvement of sugar-producing plants.	76.35	Sugar - plant investigations.
Do.....	do.....	Pueblo, Vineland, Denver, Holbrook, Swink, Trinidad, Rocky Ford, Holly, Colo. (Oct. 10-31, 1911.)	do.....	83.70	Do.
Do.....	do.....	Pueblo, Vineland, Denver, Holbrook, Swink, Trinidad, Rocky Ford, Holly, Colo. (July 14-June 30, 1912.)	do.....	60.15	Do.
Roberts, John W.....	Scientific assistant.....	Staunton, Fishersville, Mount Jackson, Waynesboro, Afton, Va. (July 11-14, 1911.)	To investigate fruit rot and other diseases of the apple.	20.30	Fruit diseases.
Do.....	do.....	Dover, Wyoming, Camden, Del. (Aug. 13-17, 1911.)	To conduct experiments and demonstrations in the control of peach and apple diseases.	13.04	Do.
Do.....	do.....	Hellam, Pa. (Aug. 25-26, 1911.)	To address a farmers' meeting on "The control of orchard diseases."	10.82	Do.
Do.....	do.....	Okonoko, W. Va.; Library, Va. (Oct. 3-10, 1911.)	To examine results of spraying experiments for the control of apple and peach diseases.	11.65	Do.
Do.....	do.....	Camden, Del., and vicinity. (Apr. 1-2 and May 6-9, 1912.)	To arrange cooperative spraying experiments on the control of apple and peach diseases.	27.74	Do.
Do.....	do.....	Staunton, Crozet, Charlottesville, Va. (May 20-22, 1912.)	To investigate the rough bark diseases of apple trees.	16.95	Do.
Do.....	do.....	Cornelia, Fort Valley, Marshallville, Ga. (June 10-15, 1912.)	To investigate diseases of the peach.....	66.76	Do.
Do.....	do.....	Camden, Del., and vicinity. (May 27-28 and June 24-25, 1912.)	To continue investigations of apple and peach diseases.	24.74	Do.
Robertson, F. E.....	do.....	Pittsfield, Manchester, Pembroke, Woodsville, N. H.; Brattleboro, St. Johnsbury, Burlington, Vt., and other points throughout these States;	To investigate methods of farm management and farm practice and to study economic conditions in relation to the management of farms.	504.77	Farm management.

Do.....	do.....	Eagle Bridge, Ithaca, N. Y.; North Adams, Mass. (July 1-Nov. 30, 1911.)	do.....	148.36	Do.
Schmidt, Rudolph.....	Laboratory aid.....	Pittsfield, Manchester, Pembroke, Woodsville, N. H.; Brattleboro, St. Johnsbury, Burlington, Vt., and other points throughout these States; Eagle Bridge, Ithaca, N. Y.; North Adams, Mass. (Jan. 1-Feb. 29, 1912.)	Waco, Tex. (Oct. 4-Nov. 1, 1911)....	To assist in demonstrating the practicability and usefulness of improved methods of picking, storing, ginning, and baling cotton.	110.05 Cotton standardization.
Scofield, Carl S.....	Agriculturist in charge of western agricultural extension	Minneapolis, Minn.; Newell, S. Dak.; Huntley, Osborn, Mont. (July 25-Aug. 15, 1911.)		To study experimental work at departmental field stations and to confer with experiment station officials relative to co-operative work in connection with the utilization of arid lands.	176.02 Western agricultural extension.
Do.....	do.....	Akron, Denver, Montrose, Grand Junction, Colo.; Mitchell, Nebr.; Ogden, Utah; Fallon, Nev.; Sacramento, Stockton, Casa Rio, Antioch, San Francisco, Los Angeles, Indio, Bard, Cal.; Yuma, Phoenix, Mesa, Sacaton, Ariz.; Mesilla Park, N. Mex.; El Paso, San Antonio, Tex. (Sept. 18-Nov. 19, 1911.)		To inspect and study the experimental work at the departmental field stations in the arid and semiarid regions of the West and Southwest; to secure photographs and data in connection with these experiments for publication; and to study general agricultural conditions on irrigated lands.	416.45 Do.
Do.....	do.....	Hazen, Fallon, Nev.; Sacramento, Stockton, Middle River, Antioch, Los Angeles, Pasadena, Bard, Cal.; Yuma, Phoenix, Mesa, Sacaton, Maricopa, Ariz.; Portland, Hermiston, Oreg.; Osborn, Mont.; Fargo, N. Dak.; Minneapolis, Minn. (May 13-June 30, 1912.)		To inspect and supervise experiments at the department field stations on the irrigation projects; to confer with Reclamation Service officials and officers of State experiment stations regarding cooperative work; and to conduct experiments in connection with the establishment of the culture of Egyptian cotton in the arid Southwest.	483.88 Do.
Scott, Wm. M.....	Pathologist.....	Staunton, Millboro, Va. (July 26-29, 1911.)		To secure data on the result of spraying for apple diseases.	15.15 Fruit diseases.
Do.....	do.....	Benton Harbor, Fennville, Douglas, Hart, Mich.; Wichita, Hutchinson, Kans.; Bentonville, Ark. (Aug. 8-30, 1911.)		To investigate diseases of apples, peaches, and other orchard fruits and to conduct spraying experiments for their control.	160.68 Do.
Shantz, Homer L.....	Plant physiologist.....	Akron, Colo.; Wamsutter, Wyo.; Salt Lake, Utah; Idaho Falls, Idaho; Hermiston, The Dalles, Portland, Oreg.; San Francisco, Los Angeles, Claremont, Riverside, Santa Ana, San Jose, San Francisco, and other points in California. (July 1-Sept. 26, 1911.)		To continue investigations of the indicator value of native vegetation in relation to the crop-producing possibilities of alkali lands; to study the physiology of drought resistance in plants; and to investigate the relation of soil alkalinity to the deterioration of citrus orchards.	409.05 Alkali and drought resistant plants.

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## BUREAU OF PLANT INDUSTRY—Continued.

Name.	Title.	Destination.	Business or work.	Total expense.	Appropriation.
Shantz, Homer L.....	Plant physiologist.....	Akron, Denver, Grand Junction, Colo.; Tooele, Grantsville, Utah. (May 20-June 30, 1912.)	To study the physiology of drought and alkali resistance; to continue the study of the indicator value of native vegetation; and to conduct investigations in the breed- ing of alkali and drought resistant crop plants.	\$246.16	Alkali and drought re- sistant plants.
Shaw, Harry B.....	do.....	Ogden, Salt Lake, Logan, Utah. (July 1-Oct. 25, 1911.)	To continue investigations in the culture and breeding of sugar beets and in the con- trol of sugar-beet diseases in connection with the improvement of sugar-producing plants.	124.79	Sugar-plant investiga- tions.
Do.....	do.....	Ogden, Utah. (Mar. 20-Apr. 30, 1912)...	do.....	153.65	Do.
Shear, Cornelius L.....	Pathologist.....	St. Joseph, Saugatuck, Grand Rapids, Mich. (July 26-Aug. 8, 1911.)	To investigate the diseases of grape and strawberry and other small fruits, and inspect results of spraying and other ex- periments for their control.	66.44	Fruit diseases.
Do.....	do.....	Wareham, Mass. (Aug. 20-26, 1911)...	To investigate cranberry diseases.....	46.55	Do.
Do.....	do.....	Riverhead, Calverton, Manor, and New York N. Y. (Sept. 14-19, 1911.)	do.....	23.05	Do.
Do.....	do.....	Naples, Portici, Rome, Florence, Ven- ice, Milan, Geneva, Italy; Strassburg, Leipzig, Dresden, Berlin, Germany, Copenhagen, Denmark; and other points in these countries. (Apr. 2- June 30, 1912.)	To investigate fruit diseases and the organ- isms producing them; to study quarantine and inspection regulations in operation in European countries in connection with fruit diseases; and to determine, if possi- ble, the origin of the chestnut-bark disease.	404.26	Do.
Shear, Wm. V.....	Scientific assistant.....	Norfolk, Va., and vicinity. (July 4-7, 1911)	To supervise the harvesting of potatoes in trial plots at the Virginia Truck Experi- ment Station, as a part of the general hor- ticultural investigations.	17.15	Arlington farm and hor- ticulture.
Do.....	do.....	Staunton, Norfolk, Diamond Springs, Va. (July 9-19, 1911, 2 trips.)	To inspect potato trial plots and take notes on the results of potato culture and fertil- ization experiments.	49.30	Do.
Do.....	do.....	Vineland, Millville, N. J.; New York, Mattituck, N. Y. (July 23-28, 1911.)	To assist in hill selection work with potatoes and to take notes on potato trials.	36.72	Do.
Do.....	do.....	Honeoye Falls, N. Y. (July 31-Aug. 23, 1911.)	To take descriptive notes on seedling potato experiments.	59.60	Do.
Do.....	do.....	Mattituck, L. I., N. Y. (Aug. 27-Sept. 3, 1911.)	To supervise the digging of experimental po- tatoes.	30.67	Do.



Do.....	do.....	Honeoye Falls, N. Y. (Sept. 19-Oct. 15, 1911.)	do.....	66.56	Do.
Do.....	do.....	Diamond Springs, Va. (Feb. 27-Mar. 1, 1912.)	To supervise the planting of experimental potatoes.	19.05	Do.
Do.....	do.....	Norfolk, Diamond Springs, Va. (Mar. 21-23 and Apr. 4-6, 1912.)	do.....	23.45	Do.
Do.....	do.....	Vineland, Bridgeton, Elmer, N. J.; Lansdale, Pa. (Apr. 8-11, 1912.)	To investigate the manufacture of dried potato products, as a feature of the work in potato production and improvement; and to supervise the planting of experimental potatoes.	14.26	Do.
Do.....	do.....	Staunton, Middlebrook, Va. (Apr. 16-20, 1912.)	To supervise the planting of experimental potatoes.	15.90	Do.
Do.....	do.....	Terra Alta, W. Va. (May 9-10, 1912.)	do.....	15.03	Do.
Do.....	do.....	Houlton, Me.; Honeoye Falls, N. Y. (May 21-June 10, 1912.)	To plant seedling and varietal collections of potatoes.	101.36	Do.
Do.....	do.....	Norfolk, Diamond Springs, Portsmouth, Va. (June 11-16 and 23-27, 1912.)	To supervise harvesting experimental potatoes.	48.30	Do.
Sherman, Wells A.....	Assistant.....	Hartsville, S. C.; Augusta, Ga.; Houston, Waco, Tex.; Anguilla, Miss. (Sept. 12-Oct. 12, 1911.)	To arrange for handling, picking, storing, baling, ginning, and marketing cotton under the direction of the department; to consult with representatives of the cotton industry regarding official cotton grades; and to secure samples of cotton to be specially selected, picked, and shipped for ginning tests.	164.39	Cotton standardization.
Do.....	do.....	Anguilla, Miss.; Hartsville, S. C. (Oct. 24-Nov. 6, 1911.)	do.....	157.86	Do.
Do.....	do.....	Monett, Mo.; Fayetteville, Ark.; Tulsa, Pawnee, Stillwater, Guthrie, Oklahoma, Shawnee, Chickasha, Okla.; Hereford, Paris, Memphis, Tenn.; Tupelo, Starkville, Miss. (Mar. 13-Apr. 5, 1912.)	To investigate conditions of storage of seed cotton; to consult ginners, experiment station officials, and other persons connected with the cotton industry to ascertain the best areas in which to undertake cooperative experimental work in cotton ginning, baling, grading, and marketing.	169.84	Do.
Do.....	do.....	Easley, Greenville, Calhoun, Clemson College, S. C.; Atlanta, Ga.; Chattanooga, Jackson, Memphis, Tenn.; Birmingham, Montgomery, Ala.; Jackson, Magnolia, Yazoo City, Miss. (May 15-29, 1912.)	do.....	100.50	Do.
Do.....	do.....	Oklahoma, Yukon, Shawnee, Muskogee, Chickasha, Ada, Okla.; Little Rock, Ark. (June 11-24, 1912.)	do.....	231.55	Do.
Shoemaker, D. N.....	Expert.....	Vincennes, Decker, Ind.; Fayetteville, Dechard, Tenn. (Aug. 2-6, 1911.)	To inspect muskmelon trial plots and take notes on the result of the work.	70.57	Arlington farm and horticulture.
Do.....	do.....	Terre Haute, Greencastle, Paoli, Ind.; Cincinnati, Dayton, Ohio. (Sept. 23-30, 1911.)	To study cooperative experiments in the cultivation and improvement of tomatoes and to investigate the methods of tomato packing.	68.50	Do.

Statement showing the names of officers or employees (other than special agents, inspectors, or employees who in the discharge of their regular duties are required to constantly travel) who traveled on official business from Washington to points outside the District of Columbia during the fiscal year 1912, etc.—Continued.

## BUREAU OF PLANT INDUSTRY—Continued.

Name.	Title.	Destination.	Business or work.	Total expense.	Appropriation.
Shoemaker, D. N .....	Expert.....	Milford, Conn.; Penn Yan, Rochester, N. Y.; Jackson, Mich. (Dec. 13-21, 1911.)	To select seed sweet corn for experimental trials, and to inspect bean picking and marketing, as a part of the general horticultural investigations.	\$86.75	Arlington farm and horticulture.
Do.....	do.....	Honeoye Falls, N. Y. (June 26-29, 1912.)	To supervise the planting of beans in experimental trials.	29.91	Do.
Shull, J. M.....	do.....	Cold Spring Harbor, Brooklyn, N. Y. (July 13-28, 1911.)	To make illustrations of the chestnut-bark disease and to prepare other illustrative matter in connection with the study and investigation of this disease.	38.09	Forest pathology.
Sipe, Susan B.....	Collaborator.....	Various points in Colorado, Utah, California, Oregon, Washington, Montana, North Dakota, Minnesota, Wisconsin, Illinois, Michigan, Ohio, Pennsylvania, and New York. (July 1-Sept. 11, 1911.)	To investigate and report upon the organization and progress of agricultural schools for the Office of Experiment Stations.	136.20	Agricultural experiment station, 1912. Farmers' institutes, 1912.
Smith, Clarence B.....	Agriculturist.....	Boston, Mass.; Pittsfield, N. H.; Turner, Kennebunk, Me. (July 16-20, 1911.)	To study farm-management problems and to confer with field representatives in regard to general farm-management investigations.	55.86	General expenses, B. P. I., 1912 (farm management).
Do.....	do.....	Monroe, Lansing, Muskegon, Manistee, Kingsley, Grayling, St. Helen, Lewiston, Long Rapids, Alpena, Prescott, Mich.; Waukesha, Wis.; Wahpeton, Blanchard, Fargo, N. Dak.; South Bend, Conrad, Delphi, Shelbyville, Ind.; Cincinnati, Ohio. (July 22-Sept. 3, 1911.)	To study systems of farming and methods of management; to assist farmers in adopting improved methods of farming, and to direct the work of cooperators and assistants.	244.17	Do.
Do.....	do.....	Ripley, Odebolt, Iowa; Waukesha, Wis. (Oct. 3-10, 1911.)	do.....	95.44	Do.
Do.....	do.....	Columbus, Ohio; Schellburg, Pa.; (Nov. 13-18, 1911.)	do.....	46.88	Do.
Do.....	do.....	Williamsburg, Va. (Nov. 23-27, 1911)	To plan cropping systems for several farms with a view to introducing better methods of farm management.	12.35	Do.
Do.....	do.....	Alpena, Lansing, Muskegon, Hart, Hastings, Kalamazoo, Plainwell, Buchanan, Constantine, Cassopolis, Coldwater, Mich.; Columbia, Mo. (Jan. 22-Feb. 16, 1912.)	To investigate systems of farm management and practice; to encourage the adoption of improved farming methods, and to confer with the officials of the University of Missouri and others regarding cooperative work in farm management.	136.67	Do.

Do.....	do.....	Waukesha, Wis.; Lansing, Detroit, Mich.; Wooster, Ohio. (May 14-18, 1912.)	To confer with field agents and to assist in organizing field studies and demonstrations in farm management.	69.66	Do.
Do.....	do.....	Alpena, Atlanta, Bay City, Muskegon, Kalamazoo, Mich. (May 14-18, 1912.)	do.....	46.55	Do.
Do.....	do.....	Wooster, Cedar Point, Bay City, Grand Rapids, Muskegon, Charlotte, Big Rock, Mich. (June 9-21, 1912.)	do.....	90.82	Do.
Smith, Nathan R.....	Laboratory aid.....	Nephi, Logan, Utah. (Apr. 9-June 30, 1912.)	To investigate the bacteriological conditions of the dry and irrigated lands of the Cache Valley, in Utah, in cooperation with the Utah experiment station; and to collect soil samples for bacteriological study.	130.70	Bacteriology and nutrition.
Spaulding, Perley.....	Pathologist.....	Trenton, N. J.; Chestnut Hill, Pa. (Mar. 25-27, 1912.)	To study the white-pine blister rust and a disease of rhododendrons.	17.66	Forest pathology.
Do.....	do.....	Brunswick, Me.; Amherst, Gardiner, Huntington, Mass.; Sharon, Woodstock, White River Junction, Vt.; Hartford, New Haven, East Granby, Danbury, Conn.; Providence, R. I.; Lake Clear Junction, Albany, Glens Falls, Westbury, N.Y. (May 12-June 22, 1912.)	To investigate the white-pine blister rust and blight and the chestnut-bark disease with a view to ascertaining their present status and possible means of control.	163.08	Do.
Spillman, Wm. J.....	Agriculturist in charge of farm management.	Kansas City, Stotts City, Wentworth, Mo. (Sept. 24-Oct. 5, 1911.)	To confer with experiment officials and private cooperators concerning various phases of farm management and practice.	98.67	Farm management.
Stephens, David E.....	Assistant.....	Bangor, Me.; Auburn, Manchester, N. Y. (July 29-Aug. 5, 1911.)	To inspect and study tri-local experiments with cereals and to consult experiment-station officials regarding cooperative work in this connection, especially as to the methods of recording the agronomic notes on these experiments.	79.72	Grain investigations.
Stockberger, Warner W....	Physiologist.....	Hamburg, Berlin, Dresden, Stuttgart, Strassburg, Munich, Germany; Ghent, Brussels, Belgium; Paris, France; London, England; and adjacent points in these countries. (July 7-Oct. 10, 1911.)	To investigate the basis of requirements of the best standards for hop valuation; to investigate methods of selection and breeding hops employed in European experiment stations and to study the hop industry in all its phases.	483.15	Drug and other plants.
Do.....	do.....	Chicago, Ill. (Oct. 17-28, 1911.).....	To address the International Hop and Barley Exposition on the progress of hop culture in the United States and to consult authorities on problems connected with the culture and improvement of hops.	67.05	Do.
Do.....	do.....	New York, N. Y. (June 20-21, 1912)..	To confer with persons interested in hop improvement work.	21.70	Do.
St , William . ....	Expert.....	Portsmouth, Diamond Springs, Va. (July 11-15, 1911.)	To supervise the digging of potatoes in connection with experiments in the culture and improvement of this crop.	18.10	Arlington farm and horticulture.
Do.....	do.....	Honeoye Falls, N. Y.; Middlebury, Burlington, St. Albans, Vt. (July 17-25, 1911.)	To study experimental planting of potatoes and to prepare data on the results secured.	57.60	Do.

Statement showing the names of officers or employees (other than special agents, inspectors, or employees who in the discharge of their regular duties are required to constantly travel) who traveled on official business from Washington to points outside the District of Columbia during the fiscal year 1912, etc.—Continued.

## BUREAU OF PLANT INDUSTRY—Continued.

Name.	Title.	Destination.	Business or work.	Total expense.	Appropriation.
Stuart, William .....	Expert .....	Honeoye Falls, N. Y. (July 31-Aug. 25, 1911.)	To study experimental planting of potatoes and to prepare data on the results secured.	\$57.96	Arlington farm and horticulture.
Do. ....	do. ....	St. Paul, Minn.; Fargo, Williston, N. Dak.; Moccasin, Hobson, Billings, Bozeman, Mont.; Salt Lake, Nephi, Utah; Greeley, Denver, Akron, Colo.; Madison, Oshkosh, Stockton, Wis.; Traverse City, Detroit, Mich. (Sept. 5-28, 1911.)	do. ....	208.37	Do.
Do. ....	do. ....	Honeoye Falls, N. Y.; Middlebury, Burlington, St. Albans, Vt.; Boston, Mass. (Oct. 2-20, 1911.)	To examine potato trial plots and make a general investigation of the potato industry in these sections.	82.29	Do.
Do. ....	do. ....	Norfolk, Diamond Springs, Portsmouth, Va. (Feb. 27-Mar. 2 and Mar. 17-21, 1912.)	To continue experimental work with potatoes looking to the production of better varieties.	29.70	Do.
Do. ....	do. ....	Houlton, Me.; Boston, Mass. (May 7-11, 1912.)	To arrange experimental work in potato improvement for the coming season.	62.60	Do.
Do. ....	do. ....	Houlton, Me.; Honeoye Falls, N. Y. (May 21-June 15, 1912.)	To supervise the planting of seedling and varietal collections of potatoes.	123.58	Do.
Do. ....	do. ....	Portsmouth, Va. (June 25-28, 1912)...	To study potato trial plots and take notes on the results of the work in potato improvement.	13.45	Do.
Stubenrauch, Arnold V. ....	Expert in charge of field investigations in pomology.	Ithaca, New York, N. Y. (Oct. 23-27, 1911.)	To confer with agricultural college officials regarding the appointment of assistants in the fruit-investigation work; and to inspect experimental shipments of grapes arriving from the Pacific coast, in connection with the grape transportation and storage experiments.	40.80	Pomological investigations.
Do. ....	do. ....	New York, N. Y.; Chicago, Ill. (Dec. 3-9, 1911.)	To read papers on "Fruit precooling problems," before the American Society of Refrigerating Engineers, and on "Fruit transportation, precooling, and storage investigations" before the American Warehousemen's Association, and to inspect grapes in cold storage.	82.21	Do.
Do. ....	do. ....	Riverside, Los Angeles, Redlands, Fresno, Berkeley, Sacramento, Chico, Cal.; Medford, Portland, Salem, Hood River, Oreg.; Seattle,	To confer with fruit growers' associations and warehouse companies railroad officials relative to cooperative experiments in fruit transportation and storage and to	477.46	Do.

Swingle, Walter T.....	Physiologist in charge of crop physiology.	Tacoma, Puyallup, North Yakima, Walla Walla, Wash.; Weiser, Payette, Lewiston, Idaho; Missoula, Mont.; St. Paul, Minn.; Chicago, Ill. (Mar. 25-May 10, 1912.)	supervise the various lines of work in progress in connection with the handling, pre-cooling, transportation, and storing of fruits.	1,159.74	Crop physiology.
Do.....	do.....	Algiers, Algeria; Marseille, Paris, France; London, Liverpool, England; Algeciras, Seville, Cadiz, Madrid, Valencia, Spain; and other points en route. (Sept. 7, 1911-Feb. 29, 1912.)	To continue investigations in the physiology and breeding of the date palm, fig, pistache, and new citrus fruits, looking to their commercial establishment in this country.	389.15	Do.
Taylor, William A.....	Assistant chief of bureau.	Stockton, Kans.; Tucson, Yuma, Phoenix, Sacaton, Mesa, Ariz.; Indio, Santa Barbara, Sacramento, Loomis, Chico, Cal.; Portland, Bozeman, Huntley, Mont. (May 27-June 30, 1912.)	To conduct investigations in the physiology and breeding of the date palm, fig, pistache, and new citrus fruits, particularly the development of methods for the rapid propagation of the date palm.	49.15	Administrative and miscellaneous.
Thompson, Homer C.....	Expert.....	Columbus, Ohio. (Nov. 13-18, 1911)...	To represent the bureau at the meeting of the Association of American Agricultural Colleges and Experiment Stations.	69.16	Arlington farm and horticulture.
Do.....	do.....	Norfolk, Suffolk, Va.; Hertford, Selma, Edenton, Plymouth, Tarboro, Raleigh, N. C.; Spartanburg, Pelzer, S. C. (July 16-26, 1911.)	To inspect experimental work in the culture and improvement of peanuts and truck crops and to arrange for further experiments and demonstrations in connection with the improvement of these crops.	18.45	Do.
Do.....	do.....	Vineland, Swedesboro, N. J.; Philadelphia, Pa. (Aug. 15-18, 1911.)	To investigate truck-crop conditions and to make hill selections of potatoes.	347.84	Do.
Do.....	do.....	Jackson, Magnolia, Hattiesburg, Meridian, Vicksburg, Miss.; Shreveport, Alexandria, La.; Texarkana, Ark. (Aug. 30-Oct. 22, 1911.)	To conduct demonstrations in connection with peanut investigations.	139.93	Do.
Do.....	do.....	St. Louis, Mo.; Texarkana, Camden, Stephens, Ark.; Shreveport, New Orleans, La.; Edwards, Canton, Jackson, McComb, Miss. (Nov. 13-28, 1911.)	To supervise peanut thrashing and to continue work on other phases of peanut investigations.	339.50	Farmers' cooperative demonstration work.
Do.....	do.....	Quitman, Waynesboro, Decatur, Canton, Starkville, Durant, Crystal Springs, Jackson, Brookhaven, Pass Christian, Grand Bay, Miss.; Vivian, Greenwood, Rodessa, Shreveport, New Orleans, Hammond, Amite, La.; Mobile, Flomaton, Theodore, Ala. (Jan. 6-Feb. 29, 1912.)	To address farmers' meetings and conduct demonstrations in connection with the introduction and extension of peanut culture in sections which have been invaded by the cotton boll weevil.	105.90	Arlington farm and horticulture.
Do.....	do.....	Mobile, Auburn, Tuskegee, Newton, Ala.; Granada, West Point, Winona, Starkville, Canton, Jackson, Crystal Springs, Miss.; Hammond, Independence, Amite, New Orleans, Algiers, Buras, La. (Apr. 6-30, 1912.)	do.....		

Statement showing the names of officers or employees (other than special agents, inspectors, or employees who in the discharge of their regular duties are required to constantly travel) who traveled on official business from Washington to points outside the District of Columbia during the fiscal year 1912, etc.—Continued.

## BUREAU OF PLANT INDUSTRY—Continued.

Name.	Title.	Destination.	Business or work.	Total expense.	Appropriation.
Thompson, Homer C.....	Expert .....	Buras, Long Beach, New Orleans, Baton Rouge, La; Wiggins, McNeill, Miss.; Little Rock, Judsonia, Ark.; Humboldt, Memphis, Tenn. (May 1-25, 1912.)	To continue investigations in the improvement of truck crops.	\$159.70	Arlington farm and horticulture.
Do.....	do.....	New York, Elmira, Hornell, N. Y.; Cleveland, Toledo, Ohio, and vicinities. (June 9-22, 1912.)	To continue truck-crop investigations, particularly in connection with the improvement of celery and onions.	93.56	Do.
Thomson, Edward H.....	Scientific assistant.....	Delhi, Albany, Stuyvesant Falls, N. Y.; Milford, Manchester, N. H.; Beverly, Mass. (July 1-7, 1911.)	To conduct investigations in farm cost accounting and to confer with cooperators and field assistants, in connection with farm-management work.	39.44	Farm management.
Do.....	do.....	Wooster, Ohio; Frankfort, Forest, Ind.; Ashland, Decatur, Virginia, Ill.; Madison, Wis.; Jefferson, Davenport, Des Moines, Iowa. (July 8-Sept. 8, 1911.)	To confer with experiment station and private cooperators in connection with studies in farm economics and to collect data on the cost of farming operations and on the profits in crop production.	182.23	Do.
Do.....	do.....	New York, Albany, Stuyvesant Falls, N. Y.; Durham, Milford, N. H.; Beverly, Mass. (Nov. 5-10, 1911.)	To consult field men relative to farm-survey work as a part of farm-management investigations.	59.14	Do.
Do.....	do.....	Columbus, Ohio. (Nov. 13-17, 1911.)	To confer with experiment-station officials and other cooperators relative to studies in farm cost accounting and other farm-management investigations.	42.30	Do.
Do.....	do.....	Ithaca, Auburn, Delhi, Syracuse, Rochester, N. Y. (Dec. 16, 1911-Jan. 10, 1912.)	.....do.....	65.02	Do.
Do.....	do.....	Ithaca, Auburn, Delhi, Syracuse, Rochester, N. Y. (Mar. 29-Apr. 8, 1912.)	.....do.....	50.64	Do.
Do.....	do.....	State College, Lancaster, York, Pa. (May 6-9, 1912.)	To confer with State college officials and others relative to farm-survey and farm-management work.	30.34	Do.
Do.....	do.....	Bangor, Kennebunk, Me.; Milford, N. H.; Boston, Mass. (May 22-27, 1912.)	To confer with field agents relative to farm-survey and cost-accounting work and to consult station officials in regard to cooperative farm-management work.	70.80	Do.
Do.....	do.....	Wooster, Ohio; Lansing, Charlotte, Mich.; Rochester, Auburn, Ithaca, Delhi, N. Y.; West Chester, Pa. (June 9-18, 1912.)	.....do.....	78.13	Do.



Tidestrom, Ivar .....	Assistant botanist.....	Harpers Ferry, W. Va. (July 28-29, 1911.)	To collect plants for laboratory study and analysis with reference to their poisonous properties.	4.75	Drug and other plants.
Do. ....	do. ....	Piney Point, Pocomoke City, Md.; Fortress Monroe, Va. (Sept. 2-19, 1911.)	To collect seed of <i>Chaetochloa magna</i> for test as to its value as a forage grass in connection with systematic study of economic grasses.	23.30	Taxonomic and range investigations.
Townsend, Walter E. ....	Expert.....	Hartsville, Charleston, S. C.; Waco, Tex.; Bard, Cal.; Sacaton, Ariz. (Sept. 12, 1911-Jan. 3, 1912.)	To arrange for and supervise the handling, picking, storing, baling, ginning, and marketing of cotton and to assist in the grading of experimental cotton.	387.60	Cotton standardization.
Tracy, J. E. W. ....	Assistant superintendent of testing gardens.	Romeo, Birmingham, Lansing, Grand Rapids, Mich.; Hartford, Randolph, Wis.; Billings, Bozeman, Mont.; Fairfield, Walla Walla, Wash.; Moscow, Kendrick, Idaho; Ogden, Utah; Glenwood, Denver, Colorado Springs, Rocky Ford, Holly, Colo.; Garden City, Kans.; Jefferson, Anadarko, Okla.; Sioux City, Iowa. (Aug. 15-Sept. 29, 1911.)	To inspect fields of sugar beets and vegetables and flowers growing under contract, in connection with the congressional seed distribution, and to consult officials of sugar-beet factories with reference to tests of American-grown sugar-beet seed.	494.14	Purchase and distribution of valuable seeds, 1912 (congressional seed distribution).
Do. ....	do. ....	Chicago, Ill.; Grand Rapids, Holland, Lansing, Detroit, Alma, Mich. (Apr. 22-27, 1912.)	To confer with officials of sugar-beet factories and other cooperators relative to variety tests of sugar beets in connection with the congressional seed distribution.	73.89	Do.
Do. ....	do. ....	Fort Wayne, Decatur, Ind.; Grand Rapids, Menominee, Holland, Mich.; Milwaukee, Madison, Wis.; Garden City, Kans.; Rocky Ford, Colo. (June 22-30, 1912.)	To inspect test plats of sugar beets and vegetables and flowers growing under contract in connection with the congressional seed distribution.	183.23	Do.
Tracy, sr., Wm. W. ....	Superintendent of testing gardens.	Seattle, Bellingham, Fairfield, Spokane, Wash.; Moscow, Kendrick, Idaho; Minneapolis, Minn. (July 1-14, 1911.)	To inspect seed crops growing under contract for use in the congressional distribution.	93.80	Do.
Do. ....	do. ....	Rochester, N. Y. (Nov. 16-19, 1911.)	To study methods followed in the winter production of vegetables as a part of the general horticultural investigations.	18.44	General expenses, B. P. I., 1912. (Arlington farm and horticulture.)
Do. ....	do. ....	Milford, Hartford, Conn. (Dec. 13-16, 1911.)	To select seed sweet corn for experimental trials.	29.80	Do.
Do. ....	do. ....	St. Paul, Minn.; Madison, Wis. (Jan. 6-11, 1912.)	To study vegetable culture under greenhouse conditions.	23.95	Do.
Trigg, William S. ....	Laboratory aid.....	Anguilla, Miss. (Oct. 24-Nov. 19, 1911.)	To assist in the picking, handling, and marketing of cotton and investigating the methods used in these operations.	68.37	Cotton standardization.
True, Rodney H. ....	Physiologist in charge of drug and other plants.	Red Bank, Hackettstown, Phalanx, N. J. (Aug. 9-12, 1911.)	To consult growers regarding cooperative field tests of drug and related crops.	31.40	Drug and other plants.
Do. ....	do. ....	New York, N. Y. (Oct. 10-12, 1911.)	To consult wholesale druggists and manufacturing chemists on problems connected with drug-plant investigations.	23.10	Do.
Do. ....	do. ....	New York, N. Y. (Nov. 27-29, 1911.)	do. ....	23.04	Do.

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## BUREAU OF PLANT INDUSTRY—Continued.

Name.	Title.	Destination.	Business or work.	Total expense.	Appropriation.
True, Rodney H. ....	Physiologist in charge of drug and other plants.	Indianapolis, Ind. (May 2-5, 1912)....	To address the Indiana branch of the American Chemical Society on the drug plant work of the department.	\$44. 10	Drug and other plants.
Do. ....	do. ....	Atlantic City, N. J. (June 5-7, 1912) ..	To address the Division of Pharmacology and Therapeutics of the American Medical Association on the relation of the cultivation of drug plants to required pharmacological standards.	17. 35	Do.
Do. ....	do. ....	Philadelphia, Pa. (June 23-25, 1912) ..	To examine drug plant material with reference to its purchase for experimental purposes and to confer with experts covering the propagation and breeding of drug plants.	10. 54	Do.
Van Fleet, Walter. ....	Expert. ....	Red Bank, Phalanx, Matawan, Hackettstown, N. J. (July 31-Aug. 13, 1911.)	To investigate the growing of drug and related plants.	36. 69	Do.
Do. ....	do. ....	Philadelphia, West Grove, Pa. (June 24-25, 1912.)	To examine drug plant material with reference to the purchase of suitable sorts for experimental work, and to confer with experts concerning the propagating and breeding of drug plants.	11. 65	Do.
Vehlmeyer, Frank J. ....	Scientific assistant. ....	New York, New Rochelle, Mt. Vernon, N. Y. (Sept. 11-13, 1911.)	To study mushrooms which have been the cause of fatal poisoning and to secure specimens for the pathological collections.	23. 35	Pathological laboratory.
Do. ....	do. ....	Philadelphia, Pa. and vicinity. (Jan. 21-24, 1912.)	To conduct fumigation experiments for the control of fungous diseases of mushrooms.	21. 90	Do.
Do. ....	do. ....	Philadelphia, Pa. and vicinity. (June 10-14, 1912.)	do. ....	34. 23	Do.
Vinall, Harry N. ....	Assistant agrostologist. .	Denver, Akron, Colo.; Chillicothe, Amarillo, Dalhart, San Antonio, Tex.; Halsey, Mitchell, Bassett, Nebr.; Newell, Brookings, Highmore, S. Dak.; Dickinson, Williston, Edgeley, N. Dak.; Billings, Huntley, Moccasin, Mont.; Minneapolis, Minn. (July 1-Aug. 19, 1911.)	To take notes and arrange for further experiments in the testing and improvement of legumes, grasses, and other forage crops.	386. 10	Forage-crop investigations.
Do. ....	do. ....	Staunton, Va. (Sept. 14-15, 1911, and June 24-25, 1912.)	To secure data on experimental work with grasses and other forage plants, in connection with the investigation and improvement of forage crops.	27. 95	Do.

Warner, Marjorie F. ....	Bibliographical assistant	Boston, Mass. (June 5-28, 1912) .....	To examine bibliographical collections of the Massachusetts Horticultural Society, especially rare and early publications bearing on the history of cultivated plants in connection with taxonomic investigations.	86. 45	Taxonomic and range investigations.
Weir, James R. ....	Expert .....	Missoula, Great Falls, Summit, Belton, Billings, Hamilton, Libby, Mont.; Priest River, St. Maries, Herrick, Sand Point, Wallace, Coeur d'Alene, Idaho. (Aug. 8-Nov. 17, 1911.)	To investigate diseases of forest trees in national forests and to devise and execute methods for their control.	500. 65	Forest pathology.
Do. ....	do .....	Cincinnati, Ohio; Fort Thomas, Ky.; Brownstown, Crothersville, Scottsburg, Culver, Ind.; E. Tawas, Wellsburg, Marquette, Mich.; Duluth, Cass Lake, Minn.; Bowman, N. Dak.; Missoula, Mont. (Apr. 17-June 30, 1912.)	To investigate the chestnut bark disease and other diseases of forest trees and to study herbarium specimens of fungi, which cause forest tree diseases.	133. 38	Do.
Westgate, John M. ....	Agronomist .....	New London, Ohio; La Fayette, Indianapolis, Ind.; Ames, Iowa; Falmouth, Ky.; Staunton, Va. (July 27-Aug. 10, 1911.)	To inspect experimental work in the improvement of clover, as a forage crop, and to address the Virginia State Farmers' Institute on "Alfalfa and how to grow it."	124. 45	Forage-crop investigations.
Do. ....	do .....	Springfield, Mechanicsburg, Hamilton, La Fayette, Ind.; Fargo, N. Dak.; Ames, Iowa; Manhattan, Topeka, Ogden, Kans. (Apr. 29-May 11, 1912.)	To investigate clover production and ascertain the results of experiments looking to the improvement of clover as a forage crop.	155. 24	Do.
Do. ....	do .....	Seaford, Georgetown, Dover, Del.; Salisbury, Pocomoke, Snow Hill, Berlin, Md.; Vineland, N. J. (May 14-28, 1912.)	To conduct investigations in the production and improvement of crimson clover and its curing for hay.	66. 88	Do.
Do. ....	do .....	Easton, Salisbury, Md. (June 14-22, 1912.)	To conduct investigations in the culture of crimson clover and the production of seed of this forage crop.	28. 78	Do.
Wight, Wm. F. ....	Botanist .....	Chicago, Ill.; Sagauatuck, Holland, Grand Rapids, St. Helen, Grayling, Atlanta, Alpena, Lansing, Mich.; Honeoye Falls, Rochester, N. Y. (July 24-Aug. 27, 1911.)	To collect and study herbarium material of fruits, nuts and vegetables, in connection with the systematic study of cultivated plants.	133. 25	Taxonomic and range investigations.
Do. ....	do .....	Ithaca, N. Y. (Nov. 20-23, 1911) .....	To continue the systematic study of the genus <i>prunus</i> .	28. 35	Do.
Do. ....	do .....	St. Joseph, Mo. (Mar. 4-8, 1912) .....	To appear as a witness at the trial of case arising under the food and drugs act.	80. 30	Enforcement of food and drugs act, 1912.
Do. ....	do .....	Southampton, London, Cambridge, England; Brussels, Belgium; Paris, France; Geneva, Switzerland. (Apr. 12-June 30, 1912.)	To consult authorities and examine specimens at natural history museums and herbaria, in connection with a study of the origin and history of the genus <i>prunus</i> ; and to investigate various tuber-bearing species of <i>solanum</i> and secure seeds and tubers for propagation in connection with taxonomic researches.	373. 66	General expenses, B. P. I., 1912 (taxonomic and range investigations).

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## BUREAU OF PLANT INDUSTRY—Continued.

Name.	Title.	Destination.	Business or work.	Total expense.	Appropriation.
Wilher, John G.....	Scientific assistant.....	Piketon, Ohio. (Oct. 14–Nov. 2, 1911.)	To harvest corn in experimental plats, in connection with work in the improvement and production of grains.	\$54.65	Grain investigations.
Do.....	do.....	Baltimore, Md.; Round Hill, Hamilton, Va. (Nov. 14–29, 1911.)	To arrange for grinding samples of corn meal in connection with the corn improvement work and to prepare seed corn for shipment to Washington.	15.55	Do.
Do.....	do.....	Herndon, Muncy, Corry, Meadville, Connellsville, Pa.; Cumberland, Gaithersburg, Md. (Dec. 23–29, 1911.)	To inspect corn-degerminating apparatus and to arrange experimental tests in corn degerminating, in connection with the manufacture of corn meal in order to secure data necessary in the work of corn production and improvement.	43.60	Do.
Do.....	do.....	Harrisburg, Ind.; Bellefonte, State College, Pa. (Jan. 14–23, 1912.)	To superintend the degerminating and grinding of corn meal for experimental purposes as a feature of the corn improvement work.	64.42	Do.
Do.....	do.....	Round Hill, Va.; Columbus, Piketon, Ohio; Oconomowoc, Madison, Milwaukee, Wis. (May 5–June 30, 1912.)	To assist in planting experimental corn plats and to investigate methods of popcorn production and factors involved in the manufacture of corn products as a part of the grain improvement work.	152.67	Do.
Wooton, Elmer O.....	Assistant curator.....	Albuquerque, N. Mex.; Phoenix, Prescott, Flagstaff, Ariz.; Bakersfield, Merced, Fresno, San Francisco, Chico, Santa Barbara, and other points in Cal. (Jan. 22–June 3, 1912.)	To consult cooperators, collect data, and institute further cooperative work in range and cactus investigations, in connection with farm management in dry-land areas.	601.25	Farm management.
Young, Robert A.....	Scientific assistant.....	Brooksville, Orange City, Enterprise, Fla. (Sept. 11–27, 1911.)	To inspect crop of yautias, taros, and dashens and to arrange for the harvesting and shipping of these crops, in connection with introduction and testing of plants from foreign countries.	122.00	Purchase and distribution of valuable seeds, 1912 (foreign seed and plant introduction).
Do.....	do.....	Brooksville, Fla. (Jan. 21–31, 1912.)	To supervise the planting of aroids at the plant-introduction field station.	59.62	Do.
Zook, Leslie L.....	do.....	Hutchinson, Garden City, Hays, Kans.; Trinidad, Akron, Denver, Granada, Colo.; Lincoln, North Platte, Auburn, Mitchell, Nebr.; Brookings, Newell, Highmore, S.	To investigate the production of improved strains of corn by breeding and selection, and the employment of better methods of culture; to secure data on cooperative experimental work in corn production, in	592.80	General expenses, B. P. I., 1912 (grain investigations).

Do.....	do.....	Dak.; Dickinson, N. Dak.; Bozeman, Huntley, Judith Basin, Mont.; Pullman, Puyallup, Seattle, Wash.; Corvallis, Ashland, Oreg.; Bard, Chico, Cal.; Yuma, Ariz.; Agricultural College, Tex.; Miami, Fla.; Springer, N. Mex.; Dalhart, Amarillo, Tex. (July 1-Nov. 11, 1911.)	progress at department field stations and at State experimental stations; and to ascertain the results secured by farmer co-operators from the use of improved seed corn originated and distributed by the department.		
		Beatrice, North Platte, Johnson, Holdrege, Ord, North Loup, Nebr.; Yuma, Ariz.; Los Angeles, Chico, Cal.; Denver, Akron, Colo. (Feb. 22-June 30, 1912.)	To address farmers' meetings on topics relating to corn production and the selection of seed corn, to continue cooperative experiments in corn improvement, and to arrange for further cooperative work.	393.43	Do.
FOREST SERVICE.					
Adams, Bristow.....	Forest assistant.....	Jacksonville, Ocala, and Pensacola, Fla. (July 1-July 23, 1911).....	To supervise eucalyptus and other planting experiments.	\$105.83	General expenses, Forest Service, 1912 (management of forests).
Adams, Jas. B.....	Assistant Forester.....	Headquarters of the several districts and other points. (Sept. 6-Nov. 21, 1911.)	To inspect the work in the district offices at San Francisco, Denver, Ogden, and Albuquerque, and also work on some of the National Forests.	744.90	General expenses, Forest Service, 1912 (general administration).
Do.....	do.....	Various points in California. (Apr. 7-29, 1912.)	To inspect the work in the district office at San Francisco, and on the Santa Barbara and Angeles Forests.	292.15	Do.
Do.....	do.....	Headquarters of the several districts, headquarters of supervisors of National Forests, and other points. (Jan. 17-Feb. 14, 1912.)	To make an administrative inspection of district offices, and of certain National Forest offices.	344.63	Do.
Aldons, A. E.....	Grazing examiner.....	Ogden, Utah. (Apr. 11-June 7, 1912.)	To take charge of range reconnaissance and other grazing studies work.	197.80	General expenses, Forest Service, 1912 (national forest range investigations).
Ashe, W. W.....	Forest examiner.....	Various points in Virginia, and West Virginia. (Nov. 4-11, 1911.)	To make examination of timber tracts in cooperation with the Virginia Mining & Improvement Co.	13.90	Cooperative work forest investigations.
Do.....	do.....	Points in North Carolina to Nashville, Tenn., and Asheville, N. C. (Mar. 27-Apr. 10, 1912.)	To cooperate with the Southern Railway in the establishment of forest clubs among the residents of that region, to represent the Forest Service in its cooperation with the Southern Commercial Congress, and to secure additional field data in the study of yellow poplar.	77.10	Do.
Barrows, W. B.....	Forest assistant.....	Various points in Pennsylvania, New York, New Jersey, the New England States, Ohio, Indiana, Michigan, Iowa, Wisconsin, Minnesota, Kentucky, Virginia, and West Virginia. (July 1-Oct. 31, 1911.)	To inspect and measure forest plantations in the States named.	503.65	General expenses, Forest Service, 1912 (management of forests).

*Statement showing the names of officers or employees (other than special agents, inspectors, or employees who in the discharge of their regular duties are required to constantly travel) who traveled on official business from Washington to points outside the District of Columbia during the fiscal year 1912, etc.—Continued.*

## FOREST SERVICE—Continued.

Name.	Title.	Destination.	Business or work.	Total expense.	Appropriation.
Barrows, W. B .....	Forest assistant .....	Mont Alto and other points in Pennsylvania. (June 19-30, 1912.)	To perform field duty in connection with the collection of specimens to be tested at the Forest Service laboratory at Madison, Wis.	\$38.00	General expenses, Forest Service, 1912 (management of forests).
Baston, Geo. H. ....	Laboratory helper .....	Portland, Wallowa, and other points in Oregon. (July 1-Sept. 6, 1911.)	To make technical investigations to determine the acidity of soil on certain National Forests, and to perform other investigative work.	277.27	General expenses, Forest Service, 1912 (general administration).
Benedict, J. W. J. ....	Forest assistant .....	Gorham, N. H., and other points in the States of New Hampshire and Maine. (June 27-30, 1912.)	To take up work of examination of lands under the Weeks law.	25.10	Acquisition of lands for the protection of watersheds of navigable streams.
Bentley, Geo. A. ....	Chief of maintenance....	Baltimore, Md., and Newark, N. J. (Oct. 20-21, 1911.)	To inspect the method of lithographing metal fire signs in connection with bids under consideration for furnishing 100,000 signs to the Forest Service.	17.00	General expenses, Forest Service, 1912 (maintenance and supplies).
Bishop, Loren L. ....	Forest assistant .....	Barefoot, Ga. (Jan. 7-10, 1912) .....	To join party in charge of S. H. Marsh examining lands under the Weeks law.	40.64	Acquisition of lands for the protection of watersheds of navigable streams.
Bohn, A. J. ....	Field assistant .....	Franklin and other points in North Carolina. (June 3-30, 1912.)	To join party making examination of lands under the Weeks law.	33.45	Do.
Bushnell, E. P. ....	Forest assistant .....	Damascus and other points in Virginia and Tennessee. (Feb. 27-28, 1912.)	.....do.....	17.85	Do.
Cantwell, J. J. ....	Field assistant .....	Old Fort and other points in North Carolina. (June 8-30, 1912.)	.....do.....	18.65	Do.
Chittenden, A. K. ....	Forest inspector .....	New England States. (July 1-Aug. 31, 1911.)	To examine lands under the Weeks law .....	213.28	Do.
Crowell, Lincoln .....	Forest assistant .....	Erwin, Tenn., and other points in Tennessee and North Carolina. (Apr. 27-June 30, 1912.)	To examine lands under the Weeks law, Unaka, Boone, and Yadkin areas.	125.20	Do.
Curtis, Maury .....	Clerk .....	San Francisco, Cal., Portland, Oreg., Missoula, Mont., and other points. (Dec. 30, 1911-June 30, 1912.) (Trip not completed in fiscal year.)	To assist in legal work at the various district headquarters of the Forest Service.	432.00	General expenses, Forest Service, 1912 (general administration).
Cushing, C. D. ....	Expert .....	Various points in Virginia and West Virginia. (July 7-Nov. 19, 1911.)	To examine lands under the Weeks law .....	328.00	Acquisition of lands for the protection of watersheds of navigable streams.



Do.....	do.....	Roanes Mill, N. C. (Nov. 27-Dec. 31, 1911.)	To make lumberman's examination of lands offered for sale under the Weeks law, Nantahala area.	60.83	Do.
Dana, Samuel T.....	Assistant chief of silvics..	To various points in Districts 3, 5, and 6. (July 1-Oct. 1, 1911.)	To make a study of sowing and planting experiments.	515.69	General expenses, Forest Service, 1912 (management of forests).
Damtoft, W. J.....	Field assistant.....	Various points in Virginia and West Virginia. (May 27-June 30, 1912.)	To examine lands under the Weeks law.....	17.95	Acquisition of lands for the protection of watersheds of navigable streams.
Dayton, W. A.....	Plant ecologist.....	Sisson, Cal. (June 1-30, 1912).....	To continue on the Shasta National Forest the study as to the effect of grazing on the reproduction of timber species.	162.90	General expenses, Forest Service, 1912 (national forest range investigations).
Dellwig, Louis A.....	Messenger boy.....	Ogden, Utah. (July 21-25, 1911).....	To take new official station.....	80.35	General expenses, Forest Service, 1912 (general administration).
Dieffenbach, Rudolph.....	Forest examiner.....	Various points in North Carolina and Georgia. (Apr. 13-June 9, 1912.)	To inspect the boundary survey work on tracts to be purchased under the Weeks law.	86.56	Acquisition of lands for the protection of watersheds of navigable streams.
Douglas, Lynn H.....	Grazing examiner.....	Denver, Colo. (with stop-over at Lincoln, Nebr.) and Laramie, Wyo. (May 1-31, 1912.)	To take charge of range reconnaissance on the Medicine Bow National Forest.	123.97	General expenses, Forest Service, 1912 (national forest range investigations).
Ellis, Don Carlos.....	Clerk examiner.....	Pittsburgh, Pa. (Oct. 12-28, 1911).....	To secure return of Government property sent to National Land and Irrigation Exposition in Pittsburgh.	30.10	General expenses, Forest Service, 1912 (market and miscellaneous investigations).
Do.....	do.....	Nashville, Tenn. (Apr. 2-12, 1912)....	To attend the conference concerning education in the South.	56.56	Do.
Esser, J. K.....	Field assistant.....	Erwin, Tenn., and various points in Tennessee and North Carolina. (May 16-18, 1912.)	To examine lands under the Weeks law.....	18.59	Acquisition of lands for the protection of watersheds of navigable streams.
Fahrenbach, John H.....	Forest assistant.....	Roanes Mill, N. C., via Cornelia, Ga., and to Franklin, N. C. (Dec. 4, 1911.)	To join party and to assist in the examination under the Weeks law of lands in the Nantahala area.	65.77	Do.
Fleming, Chas. E.....	Grazing examiner.....	Portland, Oreg., and Minam National Forest, stopping en route at Cash Junction, Utah. (Apr. 11-May 31, 1912.)	To consult with the district forester at Portland and to take charge of a range reconnaissance party.	163.42	General expenses, Forest Service, 1912 (national forest range investigations).
Frothingham, Earl H.....	Forest assistant.....	North Woodstock, N. H., via New Haven, Conn., and to certain points in the Northern and Eastern States. (July 20-Sept. 23, 1911.)	To study maple, birch, and beech woods.....	111.36	General expenses, Forest Service, 1912 (management of forests).
Do.....	do.....	Petersham, Mass., and other points in New England. (June 18-25, 1912.)	To study white pine and the ashes.....	47.34	Do.
Fritz, Jay J.....	do.....	Fulks Run, Va. (Oct. 5, 1911).....	To examine lands under the Weeks law.....	3.45	Acquisition of lands for protection of watersheds of navigable streams.

Statement showing the names of officers or employees (other than special agents, inspectors, or employees who in the discharge of their regular duties are required to constantly travel) who traveled on official business from Washington to points outside the District of Columbia during the fiscal year 1912, etc.—Continued.

## FOREST SERVICE—Continued.

Name.	Title.	Destination.	Business or work.	Total expense.	Appropriation.
Graves, H. S. ....	Forester.....	Boston, Mass., and other points in New England. (July 29-Aug. 4, 1911.)	To inspect lands recommended for purchase under the Weeks law.	\$76.62	General expenses, Forest Service, 1912 (general administration).
Do. ....	do. ....	Knoxville, Tenn. (Aug. 7-12, 1911.)	do. ....	44.05	Do.
Do. ....	do. ....	Madison and Wausau, Wis.; Albuquerque, N. Mex.; Halsey, Nebr.; Ogden, Utah; Denver, Colo.; Billings, Mont., and other points. (Aug. 24-Sept. 27, 1911.)	To inspect work of forest products laboratories, district offices, and national forests.	344.34	Do.
Do. ....	do. ....	Buffalo, N. Y.; El Paso, Tex., and other points. (Nov. 6-17, 1911.)	To deliver address and attend meeting of forest officers.	185.30	Do.
Do. ....	do. ....	Portland, Oreg.; San Francisco, Cal., and other points. (Jan. 13-Feb. 1, 1912.)	To make administrative inspection.	286.80	Do.
Do. ....	do. ....	Gorham, N. H. (Feb. 10-Mar. 16, 1912.)	To inspect lands recommended for purchase under the Weeks law.	56.05	Do.
Do. ....	do. ....	Nashville, Tenn. (Apr. 6-11, 1912.)	To attend forestry conference.	59.60	Do.
Do. ....	do. ....	Points in Virginia and West Virginia. (Apr. 27-29, 1912.)	To inspect lands recommended for purchase under the Weeks law.	16.75	Acquisition of lands for protection of watersheds of navigable streams.
Do. ....	do. ....	Boston, Mass. (June 1-3, 1912.)	do. ....	18.75	General expenses, Forest Service, 1913 (general administration).
Do. ....	do. ....	Woodville, Va. (June 20-28, 1912.)	do. ....	71.10	Do.
Greeley, W. B. ....	Assistant forester.....	Various districts and forest headquarters throughout the West. (July 1-Oct. 11, 1911.)	To inspect timber sales, reforestation work, and other matters connected with the administration of the national forests.	661.07	Do.
Do. ....	do. ....	Cincinnati, Ohio. (Jan. 27-Feb. 1, 1912.)	To attend the annual meeting of the Hardwood Manufacturers' Association.	39.15	Do.
Hall, Wm. L. ....	do. ....	Various points in Maine and New Hampshire. (July 19-Aug. 18, 1911.)	To inspect the work of examination of lands under the Weeks law and to attend the forestry meeting at Bretton Woods.	113.57	Acquisition of lands for protection of watersheds of navigable streams.
Do. ....	do. ....	Orkney Springs and other points in Virginia and West Virginia. (Aug. 29-Sept. 7, 1911.)	To inspect field work under the Weeks law.	35.20	Do.
Do. ....	do. ....	Points in Virginia and Tennessee and return. (Sept. 25-30, 1911.)	To examine lands under the Weeks law.	41.10	Do.

Do.....	do.....	Points in Massachusetts, New Hampshire, and Maine. (Oct. 14-28, 1911.)	To confer with landowners concerning purchase of lands under the Weeks law and to examine the work of the Forest Service field party in New Hampshire.	67.38	Do.
Do.....	do.....	New York, Boston, and points in the White Mountains. (Feb. 26-Mar. 22, 1912.)	To confer with landowners in regard to purchase of lands in the Southern Appalachians and White Mountains under the Weeks law.	123.61	Do.
Do.....	do.....	Points in Virginia and West Virginia. (Apr. 27-29, 1912.)	To accompany members of the National Forest Reservation Commission on a trip of inspection over lands recommended for purchase under the Weeks law.	16.75	Do.
Do.....	do.....	Shenandoah and other points in Virginia. (May 23-25, 1912.)	To confer with field men in regard to examination of lands under the Weeks law.	14.85	Do.
Hammond, C. P.....	Agent.....	Russell, S. C., and other points in South Carolina and in Georgia. (July 17-19, 1911.)	To join field party and examine lands under the Weeks law.	31.21	Do.
Harvey, F. L.....	Clerk—law examiner.....	Missoula, Mont.; Ogden, Utah; San Francisco, Cal., and other points in Districts 1, 4, and 5. (July 10-Oct. 31, 1911.)	To inspect work of the branch of lands.....	807.63	General expenses, Forest Service, 1912 (general administration).
Hill, R.....	Grazing examiner.....	Albuquerque, N. Mex., and the Coconino National Forest. (Mar. 28-June 30, 1912.)	To confer with the district forester regarding the organization of parties for range reconnaissance and experimental work, and to take charge of this work on the Coconino National Forest.	260.15	General expenses, Forest Service, 1912 (National Forest range investigations.)
Hutter, H. G.....	Field assistant.....	Various points in Virginia and West Virginia. (May 27-June 6, 1912.)	To join field party and examine lands under the Weeks law.	13.60	Acquisition of lands for protection of watersheds of navigable streams.
Johnson, W. D.....	Agent.....	Greensboro, N. C. (Feb. 10-Mar. 1, 1912.)	To lecture at the Mechanical and Agricultural College for the Colored Race on "Forestry in Agriculture."	62.40	General expenses, Forest Service, 1912 (market and miscellaneous investigations).
Kneipp, L. F.....	Assistant forester.....	Albuquerque, N. Mex., and other points in District 3. (Feb. 1-Apr. 20, 1912.)	To make an investigation of grazing conditions within the district, including a study of range conditions, a review of the methods followed in making allotments of range, and a general examination of plans followed in connection with the use of the National Forests for grazing purposes.	516.90	General expenses, Forest Service, 1912 (general administration).
Lamb, Geo. N.....	Scientific assistant.....	Various points in Pennsylvania, Delaware, New Jersey, New York, and the New England States. (Aug. 28-Sept. 30, 1911.)	To obtain volume table measurements of timber in the States named.	115.32	General expenses, Forest Service, 1912 (management of forests).
Do.....	do.....	Various points in Pennsylvania and New Jersey. (Mar. 23-31, 1912.)	To perform certain work in connection with basket-willow investigations by the Forest Service.	64.40	Do.
Do.....	do.....	Various points in the Middle and Lake States. (Apr. 11-June 30, 1912.)	To establish a basket-willow holt in Iowa, to inspect willow holts, and to make basket-willow investigations.	185.27	Do.

Statement showing the names of officers or employees (other than special agents, inspectors, or employees who in the discharge of their regular duties are required to constantly travel) who traveled on official business from Washington to points outside the District of Columbia during the fiscal year 1912, etc—Continued.

## FOREST SERVICE—Continued.

Name.	Title.	Destination.	Business or work.	Total expense.	Appropriation.
Lamb, Wm. H.....	Scientific assistant on forest distribution.	To Lincoln and the University of Nebraska. (July 1-17, 1911.)	To secure information for a compilation on the geographical distribution of Rocky Mountain trees.	\$64.55	General expenses, Forest Service, 1912 (management of forests).
Leavitt, Clyde.....	Forest inspector.....	Points in North Carolina and Georgia. (Sept. 1-20, 1911.)	To inspect field work under the Weeks law...	73.25	Acquisition of lands for protection of watersheds of navigable streams.
Do.....	do.....	Points in Georgia and Tennessee. (Dec. 9-23, 1912.)	To examine lands under the Weeks law.....	77.81	Do.
Lees, Fred.....	Law clerk.....	San Francisco and various points in California (trip begun in fiscal year 1911) (July 1, 1911-Jan. 8, 1912.)	To assist in legal work in District 5.....	489.28	General expenses, Forest Service, 1912 (general administration).
Do.....	do.....	Portland, Oreg. (Apr. 22-May 1, 1912.)	To assist in legal work in District 6.....	162.35	Do.
Lindsay, Eugene L.....	Field assistant.....	Shenandoah, Va. (Mar. 30, 1912).....	To join field party and assist in the examination of lands under the Weeks law in the Massanutten and Potomac areas.	3.40	Acquisition of lands for protection of watersheds of navigable streams.
Machamer, R. F.....	Field assistant.....	Black Mountain and other points in North Carolina. (May 2, 1912.)	To join party and assist in the examination of lands under the Weeks law.	14.95	Do.
Mangan, W. J.....	Clerk—law examiner...	Various points in Districts 2 and 3. (Aug. 14-Oct. 7, 1911.)	To inspect work relating to lands.....	331.70	General expenses, Forest Service, 1912 (general administration).
Martin, D. W.....	Forest assistant.....	Barefoot, Ga. (Jan. 4-10, 1912).....	To join field party engaged in examining lands under the Weeks law.	32.80	Acquisition of lands for protection of watersheds of navigable streams.
Mattoon, W. R.....	Forest examiner.....	Summerville, S. C. (Mar. 19-Apr. 7, 1912.)	To take charge of planting and sowing operations under the cooperative agreement between the Forest Service and the Agricultural Experiment Station of South Carolina.	97.80	General expenses, Forest Service, 1912 (general administration).
Do.....	do.....	Summerville, S. C., and various points in Florida. (May 27-June 30, 1912. Trip not completed at end of fiscal year.)	To inspect experimental planting work and to supervise experimental planting of eucalypts at Tampa, Fla., in cooperation with the Tampa Board of Trade, and to supervise planting and sowing work on the Ocala and Choctawhatchee divisions of the Florida National Forest.	155.45	Do.

Mell, C. D.....	Forest assistant.....	Philadelphia, New York, Buffalo, Grand Rapids, Mich.; Chicago, Indianapolis, and Louisville. (July 6, 1911-June 30, 1912.)	To study the distribution and use of foreign and native mahogany woods.	142.92	General expenses, Forest Service, 1912 (management of forests).
Merritt, Robt. G.....	do.....	Russell, S. C., and other points in the South. (July 12, 1911.)	To join field party in examining lands under the Weeks law.	24.55	Acquisition of lands for protection of watersheds of navigable streams.
Moore, Barrington.....	do.....	Madison, Wis.; San Francisco, Cal., and the Plumas National Forest. (May 17-June 30, 1912.)	To consult with the Director of the Forest Products Laboratory at Madison and the District Forester at San Francisco, and to prepare a working plan on the Plumas National Forest.	208.60	General expenses, Forest Service, 1912 (management of forests).
Moore, Sidney L.....	Assistant district forester.	Denver, Colo. (Dec. 9, 1911-Feb. 8, 1912.)	To return to station after detail to the Washington office on silvicultural work.	119.50	Do.
Murphy, L. S.....	Forest examiner.....	Menominee Reservation, Wis. (Oct. 4, 1911-Dec. 31, 1911.)	To mark timber on the Indian reservation (by request of the Secretary of the Interior).	134.40	Do.
Do.....	do.....	Points in Virginia. (Oct. 28-Nov. 8, 1911.)	To make woodlot examinations for the Virginia-Carolina Chemical Co. and for other owners.	5.80	Cooperative work (forest investigation).
Do.....	do.....	The Island of Porto Rico. (Nov. 9-Dec. 11, 1911.)	To investigate forest conditions on the Luquillo National Forest and on the island of Porto Rico.	323.71	General expenses, Forest Service, 1912 (management of forests).
Do.....	do.....	Baltimore, Md. (June 19, 1912.)	To consult with Chief of State Cooperation concerning State fire cooperative work.	1.40	Do.
Nellis, C. J. C.....	Statistician, forest products.	New York, and various points in the New England States. (Nov. 12, 1911-Jan. 4, 1912.)	To complete the canvass of the wood-using industries in Vermont and to study the utilization of wood in that State and to confer with wholesale lumber dealers operating in Boston, New York, Buffalo, Pittsburgh, and Philadelphia with a view to securing their cooperation in the lumber price work of the Forest Service.	219.71	General expenses, Forest Service, 1912 (forest products).
Do.....	do.....	Philadelphia, New York, and various points in New York State and the New England States. (May 27-June 29, 1912.)	To study the operations of wood manufacturing industries and to secure statistics from firms not previously reported.	181.89	Do.
Parker, Jas. I.....	Chief of claims.....	Denver, Colo., and various district headquarters. (Sept. 26-Oct. 28, 1911.)	To investigate complaints concerning National Forest administration, particularly those relating to claims and settlement cases.	173.60	General expenses, Forest Service, 1912 (general administration).
Peters, J. G.....	Chief, of State cooperation.	Various points in the New England States, Minnesota, and Wisconsin. (July 6-Nov. 1, 1911.)	To inspect the cooperative fire protection work under the Weeks law, and to consult State forest officials concerning the operation of various State forest laws.	728.03	General expenses, Forest Service, 1912 (management of forests).
Do.....	do.....	The Island of Porto Rico. (Nov. 9-Dec. 11, 1911.)	To investigate forest conditions on the Luquillo National Forest and on the Island of Porto Rico.	227.53	Do.
Do.....	do.....	New York City. (Dec. 20-23, 1911.)	To attend a meeting of the Eastern foresters.	19.40	Do.
Do.....	do.....	Raleigh, N. C. (Feb. 20-22, 1912.)	To address the North Carolina Forestry Association.	24.55	Do.

Statement showing the names of officers or employees (other than special agents, inspectors, or employees who in the discharge of their regular duties are required to constantly travel) who traveled on official business from Washington to points outside the District of Columbia during the fiscal year 1912, etc—Continued.

## FOREST SERVICE—Continued.

Name.	Title.	Destination.	Business or work.	Total expense.	Appropriation.
Peters, J. G .....	Chief, of State cooperation.	Nashville, Tenn. (Apr. 5-12, 1912)....	To attend the Southern Commercial Congress.	\$69.85	General expenses, Forest Service, 1912 (management of forests).
Do .....	do .....	Boston, Mass., and Augusta, Me. (May 7-12, 1912.)	To confer with State officials on cooperative fire protection work under the Weeks law.	53.25	Do.
Pierson, A. H .....	Statistician, forest products.	New London, Conn.; Providence, R. I.; and other points in Connecticut, and Rhode Island. (Jan. 8-Feb. 26, 1912.)	To study the utilization of wood in the States named.	291.56	General expenses, Forest Service, 1912 (forest products).
Do .....	do .....	To Bluefield, W. Va.; Louisville, Ky.; via Kenova, W. Va.; and Winchester, Ky.; Knoxville, Nashville, and Memphis, Tenn.; Wynne and Jonesboro, Ark.; St. Louis, Mo. (July 1-20, 1911.)	To obtain reports from delinquent co-operators in veneer and tight cooperage stock.	204.99	Do.
Plummer, Fred G .....	Geographer .....	New York City and Troy, N. Y. (Sept. 9-Oct. 2, 1911.)	To examine certain instruments in the factories of Keuffel and Esser, and W. & L. E. Gurley.	30.20	General expenses, Forest Service, 1912 (market and miscellaneous investigations).
Do .....	do .....	Portland, Oreg.; San Francisco, Cal.; Denver, Colo.; Ogden, Utah; Tacoma, Wash.; and Los Angeles, Cal. (Jan. 9-Feb. 13, 1912.)	To inspect atlas files and maps of the Service and to confer with field officers on matters relating to the standardizing of geographic work and the use of surveying instruments.	320.75	Do.
Do .....	do .....	West Point, N. Y. (May 8-9, 1912.)....	To deliver a lecture .....	19.00	Do.
Potter, A. F .....	Associate forester .....	Points in Utah and Idaho and Nevada. (July 1-28, 1911. Trip begun in fiscal year 1911.)	To conduct grazing investigations on the Humboldt and Cache National Forests and to consult with the Idaho State land board with reference to exchange of lands within national forests.	240.25	General expenses, Forest Service, 1912 (general administration).
Do .....	do .....	Denver, Colo., and Omaha, Nebr. (Dec. 1-18, 1911.)	To attend annual conventions of the American National Live Stock Association and the National Wool Growers Association.	141.70	Do.
Pritchard, J. L .....	Forest examiner .....	Franklin, N. C. (Mar. 9, 1912).....	To take up the survey of the lands of the Macon Lumber Co. in the Nantahala area.	27.32	Acquisition of lands for protection of watersheds of navigable streams.
Read, A. D .....	Deputy forest supervisor .....	Albuquerque, N. Mex. (Mar. 28-31, 1912.)	To return to station after detail to the Washington office.	43.45	General expenses, Forest Service, 1912 (general administration).



Russell, Harold L. ....	Forest assistant .....	Barefoot, Ga. (Jan. 5, 1912) .....	To join field party in charge of S. H. Marsh...	22.50	Acquisition of lands for protection of watersheds of navigable streams.
Schober, F. Carl .....	Field examiner .....	Cornelia, Ga., and other points in South Carolina and Georgia (Sept. 19, 1911.)	To join field party and examine lands under the Weeks law.	23.95	Do.
Simmons, Roger E. ....	Statistician, forest products.	Berryville and Danville, Va.; Mebane, N. C.; and other points in Virginia and North Carolina. (July 22-Aug. 31, 1911.)	To investigate wood-using industries in the States indicated.	149.06	General expenses, Forest Service, 1912 (forest products).
Do .....	do .....	Various points in New Hampshire; Burlington, Vt.; and New Haven, Conn. (Sept. 5-Oct. 4, 1911.)	To study wood utilization and to make a canvass of wood-using industries.	322.18	Do.
Do .....	do .....	Norfolk, Va., and vicinity. (Jan. 4-27, 1912.)	To secure certain essential information from Virginia firms for the report concerning the wood-using industries of Virginia.	44.30	Do.
Smith, P. T. ....	Forest assistant .....	Hastings, Me., and points in the White Mountain area. (Sept. 22-27, 1911.)	To take up the examination of lands under the Weeks law.	26.00	Acquisition of lands for protection of watersheds of navigable streams.
Sparvar, E. C. ....	Field assistant .....	Abingdon and other points in Virginia and Tennessee. (May 2, 1912.)	To join field party and examine lands under the Weeks law in White Top area.	14.20	Do.
Squire, C. H. ....	Administrative assistant.	Various district headquarters of the Forest Service in the West. (Oct. 24-Dec. 9, 1911.)	To investigate national forest water-power and special-use matters.	330.65	General expenses, Forest Service, 1912 (general administration).
Stabler, H. O. ....	Forest supervisor .....	Portland, Oreg. (May 8-14, 1912) .....	To return to station after detail at the Washington office.	122.10	Do.
Starkweather, C. H. ....	Expert .....	New York City. (Feb. 1-18, 1912) .....	To obtain data on the use of telephone brackets and insulators for revision of the Forest Service circular on telephone construction.	50.95	Do.
Sterrett, W. D. ....	Forest assistant .....	Points in Virginia and North Carolina. (Jan. 2-Mar. 31, 1912.)	To carry on a graded mill scale study of loblolly pine.	253.50	General expenses, Forest Service, 1912 (management of forests).
Do .....	do .....	Various points in New Hampshire, Vermont, New York, Connecticut, and Pennsylvania. (July 1-Aug. 31, 1911.)	To make a remeasurement of sample plots...	233.19	Do.
Stoeckman, Haas. ....	Field assistant .....	Young Harris, Ga. (Mar. 1-4, 1912) .....	To join field party of D. W. Martin, examining lands under the Weeks law.	26.20	Acquisition of lands for protection of watersheds of navigable streams.
Sudworth, Geo. B. ....	Assistant forester .....	Various points in Ohio, Indiana, Illinois, Michigan, Wisconsin, Texas, and Forest Service districts 2 and 5. (Aug. 31-Nov. 3, 1911.)	To investigate growth, character, geographic distribution, etc., of little-known broad-leaved and coniferous forest tree species and to study other dendrological problems connected with a treatise in course of preparation describing and illustrating North American trees.	288.10	General expenses, Forest Service, 1912 (management of forests).

Statement showing the names of officers or employees (other than special agents, inspectors, or employees who in the discharge of their regular duties are required to constantly travel) who traveled on official business from Washington to points outside the District of Columbia during the fiscal year 1912, etc.—Continued.

## FOREST SERVICE—Continued.

Name.	Title.	Destination.	Business or work.	Total expense.	Appropriation.
Swan, O. T.....	Engineer in forest products.	Chicago, Ill., Madison and Wausau, Wis. (July 16-Sept. 27, 1911.)	To confer with the director of the forest products laboratory, and with Mr. Sackett, on the products work to be conducted in the East during the fiscal year.	\$100.74	General expenses, Forest Service, 1912 (forest products).
Do.....	do.....	New York, N. Y.; Boston, Mass.; and Cass, W. Va. (Oct. 11-15, 1911.)	To confer with officers of the Boston Elevated Railway Co. and of the Green Brier Cheat & Elk Railroad Co. for the purpose of obtaining information on which to base a report for each company on its future timber-treating policy.	68.35	Do.
Do.....	do.....	Chicago, Ill., and Madison, Wis. (Jan. 10-17, 1912.)	To discuss with the products statistical committee the program of work for the ensuing year.	62.75	Do.
Do.....	do.....	Harrisburg and Philadelphia, Pa. (Feb. 17-29, 1912.)	To arrange for cooperative work with the Pennsylvania State commission for the investigation and control of the chestnut-tree blight.	30.77	Do.
Do.....	do.....	Albany and New York, N. Y. (Apr. 9-12, 1912.)	To confer with the New York conservation commission concerning a cooperative contract for a study of the wood-using industries of New York, and to discuss matters connected with the existing cooperative work with the commission.	85.77	Do.
Do.....	do.....	Harrisburg, Pa. (May 20-22, 1912) ...	To discuss the terms of a proposed cooperative agreement between the forestry commission of Pennsylvania and the Forest Service.	28.74	Do.
Do.....	do.....	Chicago, Ill., and Madison, Wis. (June 1-7, 1912.)	To arrange details connected with the transfer of the office of wood utilization from Chicago to Washington.	24.10	Do.
Do.....	do.....	New York, N. Y., and Philadelphia, Pa. (June 24-29, 1912.)	To arrange for experimental tests in the preservative treatment of poles by the Boucherie process.	17.80	Do.
Sweigert, J. A.....	Field assistant.....	Points in Virginia and West Virginia. (Sept. 19, 1911.)	To join field party and examine lands under the Weeks law.	7.35	Acquisition of lands for protection of watersheds of navigable streams.
Tillotson, C. R.....	do.....	Portland, Oreg., and other points in district 6. (May 8-June 30, 1912.)	To conduct experiments in artificial reforestation.	144.25	General expenses, Forest Service, 1912 (management of forests).

Do.....	do.....	Various points in Pennsylvania New York, New Jersey, the New England States, Ohio, Indiana, Michigan, Iowa, Wisconsin, Minnesota, Kentucky, Virginia, and West Virginia. (July 1-Oct. 31, 1911.)	To inspect and measure forest plantations in the States named.	380.64	Do.
Varela, A. G.....	Photographer.....	San Francisco, Cal.; Portland, Oreg.; and other points in districts 5 and 6. (July 15-Oct. 25, 1911.)	To perform certain photographic work desired by the district foresters of districts 5 and 6.	298.65	General expenses, Forest Service, 1912 (maintenance and supplies).
Webster, Ernest J.....	Field assistant.....	Young Harris, Ga. (Mar. 1-4, 1912)	To join field party examining lands under the Weeks law.	26.40	Acquisition of lands for protection of watersheds of navigable streams.
Williamson, A. W.....	Forest assistant.....	Boston, Mass.; Middletown, Conn.; and various points in the Northeastern and Central States. (July 8-Sept. 22, 1911.)	To make a study of forest plantations in the States visited.	315.78	General expenses, Forest Service, 1912 (management of forests).
Do.....	do.....	do.....	do.....	20.86	Cooperative work (forest investigation).
Do.....	do.....	Front Royal, Va., and other points in Virginia. (Nov. 20-25, 1911.)	To examine for the War Department certain timberlands at the Front Royal remount depot and to make examinations for certain cooperating private owners.	9.30	General expenses, Forest Service, 1912 (management of forests).
Do.....	do.....	do.....	do.....	2.05	Cooperative work (forest investigation).
Do.....	do.....	Fredericksburg, Va. (Jan. 17-18, 1912).	To make a cooperative examination of a forest tract belonging to the Virginia State Normal School.	4.05	Do.
Do.....	do.....	Scottdale, Pa., and Orange, Va. (Mar. 26-30, 1912.)	To inspect nurseries and plantations of the H. C. Frick Coke Co., and to examine the woodlands of F. J. Lukens.	27.25	General expenses, Forest Service, 1912 (management of forests).
Do.....	do.....	Newport and Saunderstown, R. I. (Apr. 2-4, 1912.)	To confer with the commanding officer of the Newport Naval Training Station concerning tree planting for the station grounds and to inspect the experimental plantation on the Saunderstown Military Reservation.	29.35	Do.
Withington, Geo. J.....	Field assistant.....	Elkins, W. Va. (Mar. 27-Apr. 3, 1912).	To join field party and assist in the examination of lands under the Weeks law.	32.17	Acquisition of lands for protection of watersheds of navigable streams.
Wood, Harold G.....	do.....	Franklin, N. C. (Mar. 18, 1912).	To join field party and assist in the survey of lands being examined under the Weeks law.	25.10	Do.
Zon, Raphael.....	Chief, office of silvics.....	Denver, Colo.; Ogden, Utah; Missoula, Mont.; and other points in districts 2 and 1, and points in Michigan. (July 22-Oct. 13, 1911.)	To make a general inspection of silvicultural work being done and to plan out future work in this line.	488.76	General expenses, Forest Service, 1912 (management of forests).
Do.....	do.....	Miami, Fort Lauderdale, and Tampa, Fla. (Feb. 14-23, 1912.)	To supervise the planting of Cassaurina and eucalyptus stock in the Everglades, in accordance with cooperative agreement with the State.	101.60	Do.

*Statement showing the names of officers or employees (other than special agents, inspectors, or employees who in the discharge of their regular duties are required to constantly travel) who traveled on official business from Washington to points outside the District of Columbia during the fiscal year 1912, etc.—Continued.*

## FOREST SERVICE—Continued.

Name.	Title.	Destination.	Business or work.	Total expense.	Appropriation.
Zon, Raphael.....	Chief, office of silvics....	Madison, Wis.; St. Paul, Minn.; and various points in districts 1, 2, 5, and 4. (May 20-June 30, 1912.)	To assist in organizing experiment stations at Cloquet, Minn., and on the Plumas Forest; to become familiar with products work; to confer with forest officers in regard to the publication of the review of forest investigations; to examine proposed site for a grazing experiment station on the Manti National Forest.	\$249.24	General expenses, Forest Service, 1912 (management of forests).

## BUREAU OF CHEMISTRY.

Bailey, H. S.....	Chief of the oil, fat, and wax laboratory.	Chicago, Ill. (July 1-16, 1911).....	To superintend removal of laboratory equipment of the Bureau of Chemistry from the Manhattan Building and install same in the Heisen Building.	\$97.57	Enforcement of the food and drugs act, 1912.
Do.....	do.....	Philadelphia, Pa. (Dec. 18, 1911).....	To plan rearrangement of the food research laboratory.	10.65	Do.
Do.....	do.....	To points in the States of California, Arizona, Colorado, Missouri, and Ohio. (Jan. 4-9, 1912.)	To assist in investigation upon the possibility of utilizing citrus by-products. Also, to stop at San Francisco, Cal., Denver, Colo., Cincinnati, Ohio, and St. Louis, Mo., to confer with chiefs of laboratories at those points.	556.71	General expenses, Bureau of Chemistry, 1912 (laboratory, miscellaneous expenses).
Barber, K. G.....	Microanalyst.....	Richmond, Lynchburg, Danville, Va.; Greensboro, Durham, Winston Salem, N. C.; Louisville, Henderson, Ky.; Cincinnati, Ohio; New York, Newburgh, Fishkill, N. Y.; Philadelphia, Pa.; Baltimore, Md. (Sept. 19-Oct. 16, 1911.)	To collect data regarding the manufacture of commercial tobacco powders used as insecticides.	210.33	Enforcement of the insecticide act, 1912.
Bates, Carleton.....	Assistant bacteriologist.	Points in the States of Massachusetts and Rhode Island. (Aug. 26-Sept. 21, 1911.)	To make a bacteriological study of clams and milk entering interstate commerce.	85.89	Enforcement of the food and drugs act, 1912.
Do.....	do.....	Travel within a radius of 100 miles of New York City. (Oct. 20-21, 1911.)	To make inspection of Staten Island Sound and adjoining waters, to determine whether or not they are polluted, and the effects thereof on shellfish, in connection with the enforcement of the food and drugs act.	22.25	Do.

Do.....	do.....	Points in the State of Virginia. (Nov. 8-11, 1911.)	To make inspection of waters and shellfish in connection with the enforcement of the food and drugs act.	23.50	Do.
Do.....	do.....	Points in the States of Pennsylvania and New Jersey. (Nov. 23-27, 1911.)	To make a bacteriological study of gelatin in connection with the enforcement of the food and drugs act.	33.54	Do.
Do.....	do.....	Norfolk, Va. (Dec. 1-3, 1911.)	To make bacteriological examination of shellfish and waters in connection with the enforcement of the food and drugs act.	13.35	Do.
Do.....	do.....	Points in the States of Pennsylvania and New Jersey. (Dec. 4, 1911-Feb. 22, 1912.)	To make a bacteriological study of gelatin in connection with the enforcement of the food and drugs act.	329.00	Do.
Do.....	do.....	Points in the States of Maryland and Virginia. (Mar. 11-16, 1912.)	To make inspection of water and oysters in connection with the enforcement of the food and drugs act.	31.11	Do.
Do.....	do.....	Points in the States of Virginia, West Virginia, and Maryland. (June 17-23, 1912.)	To conduct investigation of the ice cream and quahaug industries in connection with the enforcement of the food and drugs act.	61.58	Do.
Do.....	do.....	Points within the State of New York. (June 24-30, 1912.)	To make a bacteriological investigation of the gelatin industry.	52.08	Do.
Bidwell, G. L.....	Assistant chemist.....	Buffalo, N. Y., and points within the States of Indiana, Illinois, and Wisconsin. (Dec. 3-16, 1911.)	To study the bleaching of oats in connection with the enforcement of the food and drugs act.	115.41	Do.
Do.....	do.....	Kansas City, and St. Louis, Mo.; East St. Louis, Ill.; Stuttgart, Ark.; Houston and Beaumont, Tex.; Crowley, New Orleans, and Baton Rouge, La. (Apr. 27-May 10, 1912.)	To appear as a witness at the trial of case arising under the food and drugs act at Kansas City, Mo.; to visit the other points mentioned to study the manufacture of rolled oats and by-products therefrom; also rice by-products, in connection with the enforcement of the food and drugs act.	174.95	Do.
Bigelow, W. D.....	Assistant chief of bureau, and Chief of Division of Foods.	Hammond and Chicago, Ill.; Muskegon and Detroit, Mich.; Cleveland, Ohio. (July 1-6, 1911.)	To supervise and perform inspection and other work in connection with the enforcement of the food and drugs act.	52.68	Do.
Do.....	do.....	New York City. (Oct. 5-8, 1911.)	do.....	29.44	Do.
Do.....	do.....	Chicago, Ill.; Kansas City, Mo.; Omaha, Nebr.; St. Louis, Mo.; Pittsburgh, Pa. (Jan. 4-13, 1912.)	do.....	110.10	Do.
Do.....	do.....	Boston, Mass.; New York City; Detroit, Mich.; Chicago, Ill.; Omaha, Nebr.; Kansas City, Mo.; Topeka, Kans. (May 14-26, 1912.)	do.....	142.27	Do.
Do.....	do.....	New York City; Boston, Mass.; Providence, R. I. (June 19-25, 1912.)	do.....	42.35	Do.
Boughton, E. W.....	Assistant chemist.....	New York, N. Y.; Philadelphia, Pa. (Mar. 27-31, 1912.)	To attend meeting of the subcommittee of the American Society for Testing Materials.	17.40	Laboratory, miscellaneous expenses.
Boyle, Martin.....	do.....	New York, N. Y. (Mar. 31-Apr. 3, 1912.)	To appear as a witness at the trial of a case arising under the food and drugs act.	23.75	Enforcement of the food and drugs act, 1912.
Breazeale, J. F.....	Laboratory assistant.....	Various points in the States of California, Colorado, North Dakota, Montana, Washington, Oregon, Nebraska, and Kansas. (Sept., 1911.)	To perform work in collaboration with the office of western agricultural extension and dry farming; to attend meeting of the Dry Farming Congress at Colorado Springs, Colo.	235.90	Laboratory, miscellaneous expenses.

Statement showing the names of officers or employees (other than special agents, inspectors, or employees who in the discharge of their regular duties are required to constantly travel) who traveled on official business from Washington to points outside the District of Columbia during the fiscal year 1912, etc.—Continued.

## BUREAU OF CHEMISTRY—Continued.

Name.	Title.	Destination.	Business or work.	Total expense.	Appropriation.
Broomell, A. W. ....	Assistant chemist. ....	New York, N. Y. (July 1-17, 1911)...	To perform work in connection with the enforcement of the food and drugs act.	\$37.35	Enforcement of the food and drugs act, 1912.
Bryan, A. Hugh. ....	Chief of sugar laboratory.	Points in eastern Kentucky and southern Indiana. (Oct. 16-30, 1911.)	To investigate the manufacture of sorghum sirup on a small scale as well as on a large scale; to study the chemical changes in the finished product, as brought about by the different methods of manufacture.	106.35	Laboratory, miscellaneous expenses.
Do. ....	do. ....	Points in Louisiana. (Dec. 1, 1911-Jan. 1, 1912.)	do. ....	172.69	Do.
Do. ....	do. ....	Cleveland, Ohio; Indianapolis, Ind.; (Mar. 15-25, 1912.)	To purchase samples of maple sugar etc., and to manufacture maple products on a small scale.	60.40	Do.
Do. ....	do. ....	Delhi and Troy, N. Y.; Rutland and Burlington, Vt. (Apr. 15-21, 1912.)	do. ....	52.23	Do.
Buchbinder, H. E. ....	Assistant chemist. ....	Indianapolis, Ind. (May 8-10, 1912)...	To appear before the grand jury in connection with cases arising under the food and drugs act. (May 8-10, 1912.)	39.95	Enforcement of food and drugs act, 1912.
Chace, E. M. ....	Assistant chief of Division of Foods.	New York City; Poughkeepsie, N. Y. (May 5-7, 1912.)	To inspect the plant of the De Laval Separator Co., and to do experimental work at that plant, upon the clarification of orange and lemon juices, for the purpose of investigating the types of clarifying machines on exhibition, to determine which machine is best adapted to the needs of the Bureau of Chemistry.	24.15	Laboratory, miscellaneous expenses.
Do. ....	do. ....	Scranton, Pa. (Mar. 28-29, 1912) ....	To appear as a witness at the trial of case arising under the food and drugs act.	21.86	Enforcement of food and drugs act, 1912.
Do. ....	do. ....	New York, N. Y.; Poughkeepsie, N. Y. (May 5-9, 1912.)	To make trial tests on apparatus for grinding lemon peel, and for separating the essential oil therefrom.	38.46	Laboratory, miscellaneous expenses.
Do. ....	do. ....	Baltimore, Md. (June 4, 1912) ....	To attend the meeting of the Extract Manufacturers' Association.	2.45	Enforcement of food and drugs act, 1912.
Do. ....	do. ....	Detroit, Mich. (June 22-29, 1912) ....	To appear as a witness at the trial of a case arising under the food and drugs act.	62.28	Do.
Chesnut, V. K. ....	Assistant chemist. ....	Chicago, Ill. (Jan. 28-Feb. 4, 1912) ....	do. ....	78.25	Do.
Do. ....	do. ....	New York City. (Apr. 19-25, 1912) ....	do. ....	46.00	Do.
Do. ....	do. ....	New York City. (May, 1912) ....	To confer with other analysts in cases arising under the food and drugs act.	49.00	Do.



Chick, Thomas.....	Skilled laborer.....	Cincinnati, Ohio. (June 7-30, 1912)...	To assist in installing the equipment of the Cincinnati laboratory in the Government building at that point; to assist in the removal of the equipment from the First National Bank Building.	55.05	Do.
Do.....	do.....	New York, N. Y. (Nov. 26, 1911-Jan. 11, 1912.)	To install plumbing in the additional space for the New York Laboratory.	82.05	Do.
Church, C. G.....	Assistant chemist.....	Yuma, Ariz.; Imperial and El Centro, Cal.; Rocky Ford, Colo.; Garden City and Lakin, Kans.; Lincoln and Waterloo, Nebr.; Decker and Evansville, Ind.; Fayetteville, Tenn.; Salisbury, Md.; Swedesboro, N. J.; Hartford and Hockanum, Conn. (Aug. 1-Sept. 12, 1911.)	To conduct experiments, and make a study of the effect of environment on cantaloupes.	731.72	Laboratory, miscellaneous expenses.
Do.....	do.....	Gainesville and Tampa, Fla.; Auburn, Ala.; Experiment, Ga., and travel within 100 miles of those places. (May 31-June 30, 1912.)	To continue the study of the effect of environment on cantaloupes, in collaboration with the Bureau of Plant Industry, of this department.	213.43	Do.
Cook, F. C.....	Physiological chemist...	Points in the States of New York, Massachusetts, and Illinois. (June 16-23, 1912.)	To study the manufacture of bouillon preparations, in connection with the enforcement of the food and drugs act.	127.35	Enforcement of food and drugs act, 1912.
Dickerson, E. O.....	Laboratory helper.....	Boston, Mass. (Sept. 4-12, 1911)....	To assist in making a bacteriological examination of milk, in connection with the enforcement of the food and drugs act.	48.50	Do.
Dodge, Cleon O.....	Assistant chemist.....	Trenton, N. J. (Oct. 23-25, 1911)....	To appear as a witness at the trial of case arising under the food and drugs act.	17.20	Do.
Do.....	do.....	Detroit, Mich. (June 22-29, 1912)....	do.....	58.95	Do.
Doolittle, R. E.....	Associate chemist and member of the Board of Food and Drug Inspection.	New York, N. Y. (Apr. 10-12, 1912)...	To inspect and supervise work in branch laboratory, and other work in connection with the enforcement of the food and drugs act.	15.45	Do.
Do.....	do.....	Baltimore, Md. (June 4, 1912).....	To perform work in connection with enforcement of the food and drugs act.	3.45	Do.
Dunbar, P. B.....	Assistant chemist.....	Philadelphia, Pa.; Boston, Mass.; and New York, N. Y.; and travel in the vicinity of the cities named. (Nov. 5-11, 1911.)	To perform work in connection with an investigation of the lead content of cream of tartar, and tartaric acid.	41.38	Do.
Do.....	do.....	New York City. (May 1-4, 1912).....	To appear as a witness at the trial of case arising under the food and drugs act.	21.71	Do.
Dunlap, F. L.....	Associate chemist and member of the Board of Food and Drug Inspection.	St. Louis, Mo.; Milwaukee, Wis.; Chicago, Ill. (July 9-15, 1911.)	To perform work in connection with the enforcement of the food and drugs act.	87.20	Do.
Do.....	do.....	Baltimore, Md.; Philadelphia, Pa. (Nov. 22-24, 1911.)	do.....	14.40	Do.
Dunn, H. E.....	Laboratory helper.....	Baltimore, Md. (May 24, 1912).....	To secure rabbits, for use in experimental work, to determine the effects of certain drugs and chemicals.	3.00	Do.
Eaton, E. O.....	Assistant chemist.....	New York City. (July, 1911.) San Francisco, Cal. (Aug. 2-16, 1911.)	To New York City to study the system of inspection at that point; to San Francisco for permanent assignment.	186.35	Do.

Statement showing the names of officers or employees (other than special agents, inspectors, or employees who in the discharge of their regular duties are required to constantly travel) who traveled on official business from Washington to points outside the District of Columbia during the fiscal year 1912, etc.—Continued.

## BUREAU OF CHEMISTRY—Continued.

Name.	Title.	Destination.	Business or work.	Total expense.	Appropriation.
Emery, W. O.....	Chief of Synthetic Drug Laboratory.	New York City. (Feb. 29–Mar. 2, 1912.)	To appear as a witness at the trial of case arising under the food and drugs act.	\$22.65	Enforcement of food and drugs act, 1912.
Do.....	do.....	New York City. (Apr. 21–22, 1912.)	do.....	17.40	Do.
Do.....	do.....	Indianapolis, Ind. (May 8–10, 1912.)	To appear before the grand jury in connection with cases arising under the food and drugs act.	46.80	Do.
Do.....	do.....	Indianapolis, Ind.; Chicago, Ill.; Philadelphia, Pa.; New York City; Boston, Mass. (May 17–24, 1912.)	To collect information and study methods of manufacture; to visit branch laboratories of the Bureau of Chemistry in connection with the enforcement of the food and drugs act.	147.20	Do.
Gallagher, J. S. G.....	Clerk.....	New York City; Jersey City and Newark, N. J. (Nov. 22–24, 1911.)	To attend trial of case arising under the food and drugs act.	23.95	Do.
Gallagher, J. S. G.....	do.....	New York City; Jersey City and Newark, N. J. (Nov. 27–29, 1911.)	To appear as a witness at the trial of case arising under the food and drugs act.	19.50	Do.
Do.....	do.....	New York City; Jersey City and Newark, N. J. (Dec. 11–13, 1911.)	do.....	23.00	Do.
Do.....	do.....	Providence, R. I. (May 26–29, 1912.)	do.....	40.30	Do.
Given, Arthur.....	Assistant chemist.....	Brooklyn, N. Y. (Mar. 26–28, 1912.)	do.....	17.30	Do.
Goodnow, E. H.....	do.....	St. Paul, Minn., and between St. Paul and Minneapolis, Minn. (July 1–15, 1911.)	do.....	90.01	Do.
Do.....	do.....	Points in the States of New York, Massachusetts, and Michigan. (Oct. 6–Nov. 24, 1911.)	To study the composition of cider vinegar, especially the changes taking place in the conversion of cider into vinegar, under commercial conditions.	169.88	Laboratory and miscellaneous expenses.
Do.....	do.....	Dubuque, Iowa. (Dec. 7–21, 1911.)	To appear as a witness at the trial of case arising under the food and drugs act.	91.45	Enforcement of the food and drugs act, 1912.
Do.....	do.....	Hartford, Conn. (Jan. 7–16, 1912.)	do.....	42.52	Do.
Do.....	do.....	Points in the States of New York, Pennsylvania, Massachusetts, and Michigan. (Feb. 17–Mar. 19, 1912.)	To study the composition of cider vinegar...	138.36	Do.
Gore, H. C.....	Scientific assistant.....	Points in the State of Florida. (Sept. 16–29, 1911.)	To conduct field experiments in the processing of Japanese persimmons, in collaboration with the Bureau of Plant Industry.	81.35	General expenses, Bureau of Chemistry, 1912 (laboratory, miscellaneous expenses).
Greathouse, Ruth C.....	do.....	St. Louis, Mo. (July 4–26, 1911.)	To assist in the bacteriological examination of milk, in connection with the enforcement of the food and drugs act.	128.15	Enforcement of the food and drugs act, 1912.

Do.....	.....do.....	Brooklyn, N. Y. (Apr. 14-23, 1912)...	To secure and examine samples, and to appear as a witness at trial of case arising under the food and drugs act.	46.15	Do.
Do.....	.....do.....	New York City. (May 2-4, 1912).....	To appear as a witness at the trial of case arising under the food and drugs act.	22.66	Do.
Haywood, J. K.....	Chief of Miscellaneous Division.	Columbus, Ohio. (Nov. 15-19, 1911)...	To attend meeting of the feed control officials as a representative of this department.	48.20	Do.
Do.....	.....do.....	Chicago, Ills. (May 22-29, 1912).....	To attend meeting of the American Feed Manufacturers Association.	62.70	Do.
Do.....	.....do.....	New York, N. Y. (June 28-30, 1912)...	To make an investigation of certain mineral water plants, in connection with the enforcement of the food and drugs act.	19.15	Do.
Hoover, G. W.....	Chief of Washington drug inspection laboratory.	Cincinnati, Ohio; Louisville, Ky.; St. Louis, Kansas City, Mo.; Omaha, Nebr.; Peoria, Chicago, Ill.; Pittsburgh, Pa. (May 25-June 14, 1912.)	To collect information; to visit branch laboratories; to study methods of manufacture, in connection with the enforcement of the food and drugs act.	116.62	Do.
Howard, B. J.....	Chief of Microchemical laboratory.	Points in the States of Maryland, New Jersey, Delaware, Pennsylvania. (July 12-22, 1911.)	To conduct investigations regarding manufacture of certain food products, in connection with the enforcement of the food and drugs act.	41.68	Do.
Do.....	.....do.....	Indianapolis, Ind.; Chicago, Ill. (Sept. 12, 1911-Mar. 27, 1912.)	.....do.....	83.25	Do.
Do.....	.....do.....	New York City. (Apr. 1-3, 1912).....	To appear as a witness at the trial of case arising under the food and drugs act.	21.54	Do.
Do.....	.....do.....	New York City. (Apr. 18-19, 1912)....	.....do.....	14.60	Do.
Do.....	.....do.....	New York City. (May 1-3, 1912).....	.....do.....	19.09	Do.
Do.....	.....do.....	Trenton, N. J. (May 21-22, 1912).....	.....do.....	12.70	Do.
Do.....	.....do.....	New York City. (June 6-8, 1912).....	To conduct investigations regarding manufacture of certain food products, in connection with the enforcement of the food and drugs act.	16.38	Do.
Do.....	.....do.....	Cincinnati and Toledo, Ohio. (June 4-18, 1912.)	.....do.....	27.55	Do.
Houghton, H. W.....	Assistant chemist.....	Omaha, Nebr. (July and Aug., 1911).	To assist in investigation of the preparation of frozen and dried eggs, in connection with the enforcement of the food and drugs act.	222.35	Do.
Do.....	.....do.....	Points in the States of Maryland and Virginia. (Feb. 13-15, 1912.)	To make an inspection of water and oysters, in connection with the enforcement of the food and drugs act.	23.10	Do.
Do.....	.....do.....	Brooklyn, N. Y. (Apr. 13-18, 1912)...	To secure and examine samples; to appear as a witness at the trial of case arising under the food and drugs act.	41.20	Do.
Do.....	.....do.....	Albany, N. Y. (Apr. 22-25, 1912).....	To appear as a witness at the trial of case arising under the food and drugs act.	39.20	Do.
Do.....	.....do.....	Points in the State of Kansas; Pittsburgh, Pa. (May 25-June 30, 1912)...	To assist in an investigation of dried and frozen eggs, in connection with enforcement of the food and drugs act. To Pittsburgh, Pa., to appear as a witness in seizure case arising under the food and drugs act.	250.00	Do.

*Statement showing the names of officers or employees (other than special agents, inspectors, or employees who in the discharge of their regular duties are required to constantly travel) who traveled on official business from Washington to points outside the District of Columbia during the fiscal year 1912, etc.—Continued.*

## BUREAU OF CHEMISTRY—Continued.

Name.	Title.	Destination.	Business or work.	Total expense.	Appropriation.
Hudson, C. S.....	Chief of physical chemistry laboratory.	Points in States of New York, New Jersey, Massachusetts, Connecticut, Ohio, Illinois, Missouri. (Oct. 26–Nov. 22, 1911.)	To investigate the commercial manufacture of invert sugar, sirups, preserves, candies, and brewers' yeasts, in connection with enforcement of the food and drugs act.	\$169.25	Enforcement of the food and drugs act, 1912.
Do.....	do.....	New York, N. Y.; Boston, Mass. (Dec. 12–23, 1911.)	To study the possibilities of the use of invert sugar in the commercial manufacture of table sirups and condensed milk, in connection with the enforcement of the food and drugs act.	97.80	Do.
Do.....	do.....	Points in the States of New York and New Jersey. (May 5–21, 1912.)	To study commercial manufacture and uses of invert sugar, in connection with the enforcement of the food and drugs act.	74.89	Do.
Hume, T. S.....	Laboratory helper.....	New York City. (Aug. 18–19, 1911)...	To report at New York laboratory, for permanent assignment.	12.50	Do.
Ingle, M. J.....	Assistant chemist.....	Charlottesville, Va. (May 29–June 30, 1912.)	To assist in the analysis of certain wines, in connection with the enforcement of the food and drugs act.	41.90	Do.
Jacobs, B. R.....	do.....	Points in the States of Georgia, Alabama, Louisiana, Texas, Arizona, California, Oregon, Washington, Utah, Nebraska, Kansas, Colorado, Missouri, Illinois, Wisconsin, Michigan, Ohio, Pennsylvania, Massachusetts, New York, Maryland, and Guelph, Ontario. (Dec. 18–26, 1911; Jan. 19–Mar. 1, 1912.)	To make a chemical study of the grades of flours, yeasts, and other materials entering into the composition of baker's breads, and special types of breads; second, the changes that take place in the dough, due to different methods of fermentation; study of methods of making bread, including the various machinery, apparatus, etc.; also investigating the sanitary condition of baking establishments.	509.34	Do.
Do.....	do.....	Points in the States of Ohio, Pennsylvania, New York, and New Jersey. (May 31–June 15, 1912.)	To make a study of the methods used in manufacture of macaroni produced from flour of different grades, and to observe the effect of the use of artificial coloring matter in the macaroni, in connection with the enforcement of the food and drugs act.	106.35	Do.
Johnston, Myrtle J.....	Clerk.....	Kansas City, Mo. (Apr. 27–May 1, 1912.)	To testify in case arising under the food and drugs act.	85.75	Do.
Katz, Louis.....	Assistant chemist.....	Dayton, Ohio. (Nov. 5–6, 1911).....	To report for permanent assignment.....	23.15	Laboratory, miscellaneous expenses.

Kebler, L. F.....	Chief of the Division of Drugs.	Philadelphia, Pa.; New York City; Boston, Mass. (Aug. 17-25, 1911.)	To attend the annual meeting of the American Pharmaceutical Association, and for inspecting work in drugs, in connection with the enforcement of the food and drugs act.	73.95	Enforcement of the food and drugs act, 1912.
Do.....	do.....	New York, N. Y. (Jan. 21-30, 1912)..	To collect information; for inspecting and supervising the work at the branch laboratory, and other work in connection with the enforcement of the food and drugs act.	21.95	Do.
Do.....	do.....	Baltimore, Md.; New York, N. Y.; Philadelphia, Pa. (May 24-25, 1912.)	do.....	28.80	Do.
Do.....	do.....	Atlantic City, N. J. (June 4-7, 1912)...	To attend the meeting of the American Medical Association, as the representative of the bureau.	28.90	Do.
Do.....	do.....	Indianapolis, Ind. (June 13-15, 1912)...	To appear as a witness at the trial of case arising under the food and drugs act.	46.25	Do.
Keister, J. T.....	Assistant chemist.....	Points in the States of Massachusetts and Rhode Island. (Sept. 4-12, 1911.)	To make chemical analyses of milk and clams entering interstate commerce.	56.70	Do.
Do.....	do.....	Phoenix, Ariz. (Oct. 10-27, 1911).....	To appear before the grand jury, in case arising under the food and drugs act.	226.16	Do.
Kent, R. C.....	do.....	Points in the States of Pennsylvania, New Jersey, New York, Massachusetts, and Michigan. (Nov. 23, 1911-Jan. 21, 1912.)	To study the manufacture of gelatin, in connection with the enforcement of the food and drugs act.	175.11	Do.
Do.....	do.....	Points in the States of Pennsylvania, New Jersey, New York, Massachusetts, and Michigan. (Feb. 1-Mar. 9, 1912.)	do.....	115.93	Do.
Le Clerc, J. A.....	Chief of the vegetable physiological laboratory.	New York City. (Feb. 15-19, 1912)....	To confer relative to case arising under the food and drugs act.	33.55	Do.
Do.....	do.....	Louisville, Ky. (June 4-8, 1912).....	To attend the meeting of the second Millers' National Industrial Exposition, in order to read a paper on straight and mixed Graham flours before the seventeenth annual convention of the Fraternity of Operative Millers of America, held in connection with the above-mentioned exposition.	55.05	Laboratory, miscellaneous expenses.
Linton, F. B.....	Chief clerk, Bureau of Chemistry.	New York City; Philadelphia, Pa. (Feb. 6-9, 1912.)	To examine the methods of accounting, filing, and keeping property and other records in the branch laboratories of these cities.	31.55	Enforcement of the food and drugs act, 1912.
Do.....	do.....	Savannah, Ga.; Nashville, Tenn.; New Orleans, La.; Galveston, Tex.; St. Louis, Mo.; Kansas City, Mo.; Omaha, Neb.; Chicago, Ill.; Detroit, Mich.; Cincinnati, Ohio; Pittsburgh, Pa. (Feb. 25-Mar. 14, 1912.)	To administratively examine, and make uniform, the methods of accounting, filing, and keeping interstate, import, property, and other records, and general office work in the branch laboratories of those cities.	246.16	Do.
Mason, Maud L.....	Bacteriological chemist..	Points in the State of Massachusetts. (Jan. 11-Feb. 23, 1912.)	To assist in making a bacteriological examination of gelatin, in connection with the enforcement of the food and drugs act.	171.85	Do.

Statement showing the names of officers or employees (other than special agents, inspectors, or employees who in the discharge of their regular duties are required to constantly travel) who traveled on official business from Washington to points outside the District of Columbia during the fiscal year 1912, etc.—Continued.

## BUREAU OF CHEMISTRY—Continued.

Name.	Title.	Destination.	Business or work.	Total expense.	Appropriation.
Mason, Maud L.....	Bacteriological chemist.	Albany, N. Y. (Apr. 23-26, 1912).....	To appear as a witness at the trial of case arising under the food and drugs act.	\$34.35	Enforcement of the food and drugs act, 1912.
Merrill, E. C.....	Assistant chemist.....	New York City. (July 1-31, 1911).....	To assist in testing contract supplies.....	74.60	Laboratory, miscellaneous expenses.
Do.....	do.....	Indianapolis, Ind. (May 8-11, 1912)...	To appear before the grand jury in connection with cases arising under the food and drugs act.	45.15	Enforcement of the food and drugs act, 1912.
Miner, A. L.....	Laboratory helper.....	Points in the State of New York. (June 24-30, 1912.)	To assist in bacteriological investigation of the gelatin industry, in connection with the enforcement of the food and drugs act.	49.50	Do.
Mitchell, Lloyd C.....	Assistant chemist.....	New York City. (Apr. 1-3, 1912).....	To appear as a witness in case arising under the food and drugs act.	21.25	Do.
Moore, C. C.....	do.....	Points in the States of Colorado, California, Minnesota, and Nebraska. (Apr. 9-May 12, 1912.)	To conduct chemical investigations relative to desiccation of potatoes, by use of enzyme-arresting chemical, for the preparation of a product suitable to manufacture into starch and glucose.	342.15	Laboratory, miscellaneous expenses.
Morgan, Will J.....	do.....	Phoenix, Ariz. (Oct. 10-26, 1911).....	To appear before the grand jury in cases arising under the food and drugs act.	227.85	Enforcement of the food and drugs act, 1912.
Murray, A. G.....	do.....	New York City. (Apr. 30-May 2, 1912).	To appear as a witness at the trial of case arising under the food and drugs act.	17.05	Do.
Do.....	do.....	Indianapolis, Ind. (May 8-11, 1912)...	To appear before the grand jury in cases arising under the food and drugs act.	41.05	Do.
Do.....	do.....	Indianapolis, Ind. (June 11-15, 1912)...	To appear as a witness in case arising under the food and drugs act.	50.10	Do.
Nelson, E. K.....	do.....	New York, N. Y. (Aug. 6-Sept. 16, 1911.)	To assist in testing contract supplies.....	93.37	Laboratory, miscellaneous expenses.
Do.....	do.....	Pittsburgh, Pa. (Oct. 17-27, 1911)....	To appear as a witness at the trial of case arising under the food and drugs act.	60.00	Enforcement of the food and drugs act, 1912.
Do.....	Chief of essential-oil laboratory.	Indianapolis, Ind. (June 13-15, 1912)...	do.....	44.45	Do.
Patrick, G. E.....	Chief of dairy laboratory.	New York City. (Oct. 4-5, 1911).....	To appear before the United States attorney in connection with a contemplated seizure of a consignment of cheese in connection with the enforcement of the food and drugs act.	13.05	Do.
Do.....	do.....	Philadelphia, Pa. (June 16-17, 1912)...	To appear as a witness in case arising under the food and drugs act.	13.95	Do.
Patten, H. E.....	Assistant chemist.....	New York, N. Y. (Jan. 19-Feb. 19, 1912.)	To assist, during the rush season, in the inspection of imported foods.	82.75	Do.



Pope, Thos. E.....	Assistant, Bureau of Fisheries, Department of Commerce and Labor.	Albany, N. Y. (Apr. 22-24, 1912)....	To be present at trial of case arising under the food and drugs act.	29.85	Do.
Read, E. A.....	Microanalyst.....	Chicago, Ill. (Sept. 12-16, 1911).....	To examine samples of eggs in connection with the enforcement of the food and drugs act.	53.80	Do.
Do.....	do.....	Brooklyn, N. Y. (Apr. 15-18, 1912)....	To secure and examine samples; to appear as a witness at the trial of case arising under the food and drugs act.	27.30	Do.
Reed, J. B.....	Assistant chemist.....	Pocatello, Idaho. (Mar. 8-20, 1912)....	To appear as a witness at the trial of case arising under the food and drugs act.	175.65	Do.
Riley, J. G.....	do.....	Points in the States of Pennsylvania, New Jersey, New York, and Massachusetts. (July 1-30, 1911.)	To study the composition of beers and ales, and their methods of manufacture, in connection with the enforcement of the food and drugs act.	111.57	Do.
Do.....	do.....	Points in the States of Pennsylvania, New Jersey, New York, and Massachusetts. (Aug. 2-Sept. 1, 1911.)	do.....	119.10	Do.
Do.....	do.....	Points in the States of Pennsylvania, New Jersey, New York, and Massachusetts. (Oct. 3-28, 1911.)	do.....	113.51	Do.
Do.....	do.....	Philadelphia, Pa. (Feb. 27-Mar. 2, 1912.)	do.....	26.19	Do.
Do.....	do.....	Baltimore, Md. (Apr. 11, 1912).....	do.....	4.45	Do.
Do.....	do.....	New York City; Rochester and Buffalo, N. Y.; Boston, Mass.; Chicago, Ill.; Reading and Harrisburg, Pa. May 23-June 28, 1912.)	do.....	232.31	Do.
Salant, Wm.....	Pharmacologist.....	Arlington Farms, Va. (July 1, 1911, to June 30, 1912.) <sup>1</sup>	{To take care of animals at the Arlington Farms belonging to the Bureau of Chemistry.	25.00	Do.
Reiger, John B.....	Pharmaceutical chemist.				
Scott, John.....	Laborer.....				
Salant, Wm.....	Pharmacologist.....	New York City; New Haven, Conn. (June 1-9, 1912.)	To make an investigation of shellac in connection with the enforcement of the food and drugs act.	19.50	Do.
Sale, J. W.....	Assistant chemist.....	Points in the States of Maryland and Virginia. (Mar. 11-14, 1912.)	To investigate the cause of the pollution of oysters in the Potomac River in connection with the enforcement of the food and drugs act.	5.00	Do.
Sammet, C. Frank.....	do.....	Points in the States of Pennsylvania, New York, Connecticut, Massachusetts, Illinois, Michigan, and Wisconsin. (June 17-30, 1912.)	To secure data on the methods of drying paper and the effects of these methods on the value and durability of the paper.	115.22	Laboratory, miscellaneous expenses.
Sherfy, R. E.....	Skilled laborer.....	Baltimore, Md. (Nov. 6, 1911).....	To carry certain papers to one of the witnesses appearing in case arising under the food and drugs act.	2.70	Enforcement of the food and drugs act, 1912.
Sherwood, Sidney F.....	Assistant chemist.....	Sandusky, Ohio. (Sept. 11-Oct. 12, 1911.)	To assist in an investigation relative to the preparation of fruit juices in connection with the enforcement of the food and drugs act.	179.27	Do.

<sup>1</sup> This travel was performed under commutation tickets, and the cost of the travel for the individuals separately can not be given.

Statement showing the names of officers or employees (other than special agents, inspectors, or employees who in the discharge of their regular duties are required to constantly travel) who traveled on official business from Washington to points outside the District of Columbia during the fiscal year 1912, etc.—Continued.

## BUREAU OF CHEMISTRY—Continued.

Name.	Title.	Destination.	Business or work.	Total expense.	Appropriation.
Sherwood, Sidney F. ....	Assistant chemist. ....	Points in the States of New York, Ohio and Vermont. (Mar. 13-Apr. 16, 1912.)	To assist in the maple sugar investigation being conducted in the States named in connection with the manufacture of sirup and sugar on a small scale from fresh and sour sap, so as to study the difference in composition of the finished product; also the effect of metals on the composition of sirups.	\$71.57	Laboratory, miscellaneous expenses.
Shively, Rex. ....	do. ....	Chicago, Ill. (Sept. 8-16, 1911). ....	To assist the Chicago laboratory in analyzing samples in connection with the enforcement of the food and drugs act.	19.60	Enforcement of the food and drugs act, 1912.
Skinner, W. W. ....	do. ....	Alexandria, Va. (July 3, 1911). ....	To appear as a witness at the trial of case arising under the food and drugs act.	1.70	Do.
Do. ....	Chief of the water laboratory.	Points in the States of Indiana, Illinois, Wisconsin, Colorado, and California. (Mar. 26-Apr. 20, 1912.)	To make a special investigation relative to mineral waters in connection with the enforcement of the food and drugs act.	362.92	Do.
Smith, Hugh M. ....	Deputy commissioner, Bureau of Fisheries.	Boston, Mass. (Apr. 16-19, 1912). ....	To appear as a witness at trial of case arising under the food and drugs act.	42.45	Do.
Do. ....	do. ....	Pittsburgh, Pa. (June 16-18, 1912). ....	To appear as a witness in case involving violation of the food and drugs act.	31.80	Do.
Stephenson, C. H. ....	Assistant chemist. ....	Points in Pennsylvania and New York. (July 10-31, 1911.)	To conduct the investigations regarding the manufacture of certain food products, in connection with the enforcement of the food and drugs act.	28.71	Do.
Do. ....	do. ....	Baltimore, Md.; Philadelphia, Pa.; Salem, N. J. (Aug. 22-Sept. 28, 1911.)	do. ....	30.92	Do.
Do. ....	do. ....	Danville, Va. (Apr. 10-13, 1912). ....	To appear as a witness in case arising under the food and drugs act.	21.35	Do.
Do. ....	do. ....	New York, N. Y. (Apr. 21-25, 1912). ....	do. ....	16.20	Do.
Do. ....	do. ....	Kansas City, Mo. (Apr. 29-30, 1912). ....	do. ....	28.50	Do.
Do. ....	do. ....	New York City. (May 1-4, 1912). ....	do. ....	21.31	Do.
Stiles, Geo. W., jr. ....	Bacteriological chemist..	Alexandria, Va. (July 3, 1911). ....	do. ....	.75	Do.
Do. ....	do. ....	St. Louis, Mo. (July 5-22, 1911). ....	To perform inspection work in connection with the enforcement of the food and drugs act.	113.70	Do.
Do. ....	do. ....	Points in the State of Pennsylvania. (July 31-Aug. 4, 1911.)	To perform bacteriological work in connection with the enforcement of the food and drugs act.	30.23	Do.

Do.	do.	Points in the States of Maryland, Pennsylvania, New York, and New Jersey.	do.	78.50	Do.
Do.	do.	South Amboy, N. J.; New York City. (Sept. 27-29, 1911.)	do.	32.20	Do.
Do.	do.	Auburn, N. Y. (Oct. 4-7, 1911).	To appear as a witness at the trial of case arising under the food and drugs act.	28.42	Do.
Do.		New York City. (Oct. 9-13, 1911).	To perform bacteriological work in connection with enforcement of the food and drugs act.	37.30	Do.
Do.	do.	Covington, Ky. (Oct. 15-21, 1911).	To appear as a witness at the trial of case arising under the food and drugs act.	53.20	Do.
Do.	do.	New York City. (Oct. 28-29, 1911).	To perform bacteriological work in connection with the enforcement of the food and drugs act.	15.90	Do.
Do.	do.	New York City. (Nov. 16-18, 1911).	do.	22.80	Do.
Do.	do.	Points in the States of Pennsylvania, New York, and New Jersey. (Nov. 27-29, 1911.)	do.	27.17	Do.
Do.	do.	Indianapolis, Ind. (Dec. 3-5, 1911).	To appear as a witness at the trial of case arising under the food and drugs act.	44.65	Do.
Do.	do.	Points in the States of Delaware, New York, Virginia, and Maryland. (Dec. 12-17, 1911.)	To perform bacteriological work in connection with the enforcement of the food and drugs act.	40.28	Do.
Do.	do.	Points in the States of New York and New Jersey. (Jan. 18-25, 1912.)	do.	38.39	Do.
Do.	do.	Philadelphia, Pa.; Rochester, N. Y. (Feb. 3-10, 1912.)	do.	40.88	Do.
Do.	do.	Norfolk and Old Point Comfort, Va.; Baltimore, Md. (Mar. 11-30, 1912.)	do.	26.45	Do.
Do.	do.	Cincinnati, Ohio; Parsons, Kans.; New York City. (Apr. 2-18, 1912.)	do.	111.90	Do.
Do.	do.	New York City and Albany, N. Y. (Apr. 23, 25, 1912.)	do.	27.00	Do.
Do.	do.	Down Potomac River. (Apr. 29-May 10, 1912.)	To make an inspection of water in connection with the enforcement of the food and drugs act.	69.72	Do.
Do.	do.	Wichita, Kans. (May 16-20, 1912).	To perform bacteriological work in connection with the enforcement of the food and drugs act.	50.05	Do.
Do.	do.	Wichita, Kans. (June 4-27, 1912).	do.	52.52	Do.
Straughn, M. N.	Scientific assistant.	Yuma, Ariz.; Imperial and El Centro, Cal.; Rocky Ford, Colo.; Garden City and Lakin, Kans.; Lincoln and Waterloo, Nebr.; Decker and Evansville, Ind.; Fayetteville, Tenn.; Salisbury, Md.; Swedesboro, N. J.; Hartford and Hockanum, Conn.; and travel within 100 miles of these points. (Aug. 1-Sept. 12, 1911.)	To conduct experiments and make a study of the effect of environment on canteloupes.	756.53	Laboratory, miscellaneous expenses.

Statement showing the names of officers or employees (other than special agents, inspectors, or employees who in the discharge of their regular duties are required to constantly travel) who traveled on official business from Washington to points outside the District of Columbia during the fiscal year 1912, etc.—Continued.

## BUREAU OF CHEMISTRY—Continued.

Name.	Title.	Destination.	Business or work.	Total expense.	Appropriation.
Straughn, M. N.....	Scientific assistant.....	Points in the State of Vermont. (Apr. 8-15, 1912.)	To study the manufacture of maple sirup and sugar, and to collect samples of these products in connection with the enforcement of the food and drugs act.	\$50.23	Enforcement of the food and drugs act, 1912.
Do.....	do.....	Gainesville and Tampa, Fla.; Auburn, Ala.; Experiment, Ga., and travel within 100 miles of these points. (June 8-30, 1912.)	To continue the study of the influence of environment on cantaloupes, in collaboration with the Bureau of Plant Industry of this department.	147.50	Laboratory, miscellaneous expenses.
Sullivan, A. L.....	Food and drug inspection chemist.	Alexandria, Va. (July 3, 1911).....	To appear as a witness in case arising under the food and drugs act.	1.05	Enforcement of the food and drugs act, 1912.
Do.....	do.....	Cincinnati, Ohio. (Oct. 1-11, 1911)....	do.....	73.63	Do.
Do.....	do.....	New York, N. Y. (Nov. 5-10, 1911)....	do.....	36.35	Do.
Do.....	do.....	New York, N. Y. (Nov. 12-14, 1911)....	do.....	18.00	Do.
Do.....	do.....	New York, N. Y. (Dec. 5-8, 1911)....	do.....	24.05	Do.
Do.....	do.....	Trenton, N. J. (Feb. 13-15, 1912)....	do.....	12.80	Do.
Do.....	do.....	St. Joseph, Mo. (Mar. 3-8, 1912).....	do.....	89.57	Do.
Do.....	do.....	Norfolk, Newport News, Richmond, and Petersburg, Va.; Baltimore, Md. (May 23-27, 1912.)	To perform work in connection with the enforcement of the food and drugs act.	26.70	Do.
Taber, W. C.....	Assistant chemist.....	New York City. (Apr. 4-6, 1912).....	To appear as a witness at the trial of case arising under the food and drugs act.	16.30	Do.
Tolman, L. M.....	Chief of Washington food-inspection laboratory.	St. Paul and Minneapolis, Minn.; Philadelphia, Pa. (July 1-15, 1911.)	To appear as a witness at the trial of case arising under the food and drugs act, with stop-over at Philadelphia, Pa., to study the composition of beers and ales.	125.32	Do.
Do.....	do.....	Philadelphia, Pa. (July 19-22, 1911)...	To study the question of manufacturing beer, ales, etc., in connection with the enforcement of the food and drugs act.	18.45	Do.
Do.....	do.....	Philadelphia, Pa. (Aug. 20-24, 1911)....	do.....	27.16	Do.
Do.....	do.....	New York City. (Sept. 29-Oct. 1, 1911.)	To perform work in connection with the enforcement of the food and drugs act.	17.95	Do.
Do.....	do.....	Pittsburgh and Philadelphia, Pa. (Oct. 10-22, 1911.)	do.....	71.50	Do.
Do.....	do.....	Baltimore, Md., and Philadelphia, Pa. (Nov. 6-26, 1911.)	do.....	34.07	Do.
Do.....	do.....	Philadelphia, Pa.; Hartford, Conn.; New York, N. Y.; Dubuque, Iowa; Buffalo, N. Y. (Dec. 1-29, 1911.)	To make floor inspections and perform other work in connection with the enforcement of the food and drugs act.	145.87	Do.
Do.....	do.....	Buffalo, N. Y.; Springfield, Mass.; Hartford, Conn.; Boston, Mass. (Jan. 4-17, 1912.)	do.....	98.49	Do.

Do.....	do.....	Boston, Mass.; Lyons and Buffalo, N. Y. (Feb. 15-22, 1912.)	do.....	66.43	Do.
Do.....	do.....	Buffalo and Rochester, N. Y. (June 26-29, 1912.)	do.....	31.86	Do.
Treuthardt, Ernest L. P..	Assistant chemist.....	Points in the State of Maryland. (June 20-27, 1912.)	To visit canneries, secure information regarding berry pack, and other work in connection with the enforcement of the food and drugs act.	36.00	Do.
Veitch, F. P.....	Chief of the leather and paper laboratory.	Points in the States of Virginia, West Virginia, Maryland, Pennsylvania. (June 6-Dec. 28, 1911.)	To study processes of manufacture of leather of various kinds, with a view of improving such processes.	53.81	Laboratory, miscellaneous expenses.
Walker, P. H.....	Chief of contracts laboratory.	Atlantic City, N. J. (July 1, 1911)....	To attend the meeting of the American Society for Testing Materials, as the representative of the Bureau of Chemistry.	4.35	Do.
Do.....	do.....	Points in the States of New York, New Jersey, Pennsylvania, Delaware, Ohio, and New England States. (Feb. 12-22, 1912.)	To study the manufacture and methods of testing rubber goods, in order to determine the best methods to be used in testing rubber goods purchased under contract by the Government.	71.85	General expenses, Bureau of Chemistry, 1912 (laboratory, miscellaneous expenses).
Do.....	do.....	New York, N. Y. (Apr. 16-17, 1912)...	do.....	20.30	Do.
Do.....	do.....	Perryville and Havre-de-Grace, Md.; Philadelphia, Pa. (May 3-4, 1912)...	To inspect paint tests, and to attend the committee meeting of the American Society for Testing Materials.	11.65	Do.
Weber, F. C.....	Physiological chemist...	Camden, N. J.; Philadelphia, Pa. (Dec. 1-4, 1911.)	To investigate the manufacture of gelatin, in connection with the enforcement of the food and drugs act.	22.75	Enforcement of the food and drugs act, 1912.
Do.....	do.....	Buffalo, Syracuse, Albany, N. Y., and New York City. (Jan. 4-10, 1912.)	To investigate the manufacture of gelatin and infant foods, and to perform other work in connection with the enforcement of the food and drugs act.	50.56	Do.
Do.....	do.....	Boston, Mass.; New York City. (Feb. 11-16, 1912.)	do.....	50.00	Do.
Do.....	do.....	Warren, Pa. (Mar. 21-23, 1912).....	do.....	27.90	Do.
Do.....	do.....	Philadelphia, Pa. (May 17-19, 1912)...	do.....	12.75	Do.
Wilcox, E. L.....	Laboratory helper.....	Philadelphia, Pa. (July 6-31, 1911)...	To assist in the study being made of the manufacture of beers, ales, etc., in connection with the enforcement of the food and drugs act.	93.10	Do.
Do.....	do.....	Philadelphia, Pa. (Aug. 1-30, 1911)...	do.....	110.64	Do.
Do.....	do.....	Philadelphia, Pa. (Oct. 8-25, 1911)...	do.....	73.13	Do.
Do.....	do.....	Philadelphia, Pa. (Feb. 28-Mar. 2, 1912.)	To assist in taking samples in experimental work, in the study of the adulteration of beers, in connection with the enforcement of the food and drugs act.	21.80	Do.
Wiley, H. W.....	Chief of Bureau of Chemistry.	Indianapolis, Ind. (July 1, 1911).....	To inspect and supervise, and to perform other work in connection with the enforcement of the food and drugs act.	21.30	Do.
Do.....	do.....	Kansas City, Mo. (Sept. 23-26, 1911)...	To attend the Third National Conservation Congress.	48.50	Laboratory, miscellaneous expenses.
Do.....	do.....	Baltimore, Md. (Nov. 8, 1911).....	To inspect and supervise, and to perform other work in connection with the enforcement of the food and drugs act.	2.55	Enforcement of food and drugs act, 1912.

Statement showing the names of officers or employees (other than special agents, inspectors, or employees who in the discharge of their regular duties are required to constantly travel) who traveled on official business from Washington to points outside the District of Columbia during the fiscal year 1912, etc.—Continued.

## BUREAU OF CHEMISTRY—Continued.

Name.	Title.	Destination.	Business or work.	Total expense.	Appropriation.
Wilson, C. P.....	Assistant chemist.....	New York, N. Y. (Aug. 21-24, 1911) ..	To inspect grinding devices and mills; for making experimental runs on lemons with such devices and mills, in connection with experiments the bureau conducted in connection with utilization of citrus by-products.	\$21.05	Laboratory, miscellaneous expenses.
Do.....	do.....	Poughkeepsie and New York City, N. Y.; Philadelphia, Pa. (Oct. 17-21, 1911.)	To conduct experiments on the De Laval separator for the clarification of lemon and orange juices; to inspect citric-acid manufacturing plants, in connection with investigation being conducted by the bureau of the utilization of citrus by-products.	29.55	General expenses, Bureau of Chemistry, 1912 (laboratory, miscellaneous expenses).
Do.....	do.....	Los Angeles, Cal., travel within and throughout the State of California. (Oct. 28, 1911-June 30, 1912.)	To establish an experimental laboratory and plant, in connection with investigation upon the possibility of utilizing citrus by-products in California.	877.50	Do.

## BUREAU OF SOILS.

Baumann, Geo. W.....	Executive assistant.....	Philadelphia, Pa., and return. (Dec. 20, 1911.)	To inspect and select from the stores at the Schuylkill Arsenal a quantity of suitable camp equipment for use of soil survey field parties.	\$6.89	General expenses, Bureau of Soils, 1912 (soil survey).
Brown, Bailey E.....	Scientist.....	Marlboro, Md., and return. (Sept. 18-21, 1911.)	To examine and collect large samples of soil for laboratory investigations.	8.86	General expenses, Bureau of Soils, 1912 (soil laboratory investigations).
Do.....	do.....	To points in Alexandria County, Va., and return. (Dec. 4, 1911.)	To supervise the collection of soil samples for laboratory investigations.	4.48	Do.
Do.....	do.....	Marlboro, Md., and vicinity and return. (Dec. 11-12, 1911.)	To examine and collect large samples of soil for laboratory use in fertility investigations.	11.18	Do.
Do.....	do.....	Barnesville, Md. (Sept. 22, 1911).....	To study farm management, public roads, orchards, and other farm subjects.	2.20	Contingent expenses, Department of Agriculture, 1912.



Cameron, Frank K.	do.	Atlantic City, N. J., and return. (July 16-19, 1911.)	To attend a meeting of the National Association of Fertilizer Manufacturers for the purpose of consulting the officers and members of the association regarding the manufacture and distribution of various types of fertilizers, with special reference to the utilization of natural domestic sources of fertilizer materials.	24.20	General expenses, Bureau of Soils, 1912 (soil laboratory investigations).
Do.	do.	Nashville and Knoxville, Tenn., and return. (Oct. 9-14, 1911.)	To consult with State officials, officers of the Agricultural College, and others with reference to the application of the results of recent soil investigations to the practice of agriculture and with reference to the utilization of smelter by-products in the manufacture of fertilizers.	63.63	Do.
Do.	do.	To points in Montana, Washington, Oregon, California, Nevada, and Missouri and return. (Aug. 20-Sept. 28, 1911.)	To investigate the utilization of natural raw materials and factory and smelter by-products as fertilizers, and to inspect and direct the work of the field agents on kelp and other raw fertilizer materials.	388.10	General expenses, Bureau of Soils, 1912 (investigations of fertilizer resources).
Do.	do.	Boston and New York and return. (Jan. 11-13, 1912.)	To consult with chemists, importers of potash fertilizers, and fertilizer mixers regarding the possible use of various raw materials in the preparation of commercial fertilizers.	38.85	Do.
Do.	do.	New York, N. Y., and return. (Jan. 25-27, 1912.)	To confer with fertilizer and potash importers regarding the use of American potash and raw materials in the mixing of fertilizers.	26.15	Do.
Do.	do.	Columbia, Chattanooga, Knoxville, Birmingham, Atlanta, and return. (Feb. 24-Mar. 8, 1912.)	To investigate methods of mining rock phosphate, manufacture of ground rock phosphate, sulphuric acid, and superphosphates, and the production of ammonia salts in coke ovens, with a view to ascertaining whether or not these products may be utilized as fertilizers.	124.56	Do.
Davis, R. O. E.	do.	Columbus, Ohio, and return. (Nov. 11-16, 1911.)	To consult with officials and professors of the agricultural college and State university concerning the use of ground phosphate rock and superphosphates in the State of Ohio, and to discuss the results obtained in the mineralogical examination of typical agricultural soils of the United States under investigation in the laboratories of the Bureau of Soils; also to confer with officials of the State experiment station and others attending the meeting of the American Society of Agronomy regarding the movement and control of soil moisture in the arable soils of the United States.	42.60	General expenses, Bureau of soils, 1912 (soil laboratory investigations).

Statement showing the names of officers or employees (other than special agents, inspectors, or employees who in the discharge of their regular duties are required to constantly travel) who traveled on official business from Washington to points outside the District of Columbia during the fiscal year 1912, etc.—Continued.

## BUREAU OF SOILS—Continued.

Name.	Title.	Destination.	Business or work.	Total expense.	Appropriation.
Fry, W. H. ....	Scientist.....	Columbus, Ohio, and return. (Dec. 16-28, 1911.)	To make mineralogical examinations of certain types of soils and subsoils under investigation by the Bureau of Soils, and to confer with the university authorities regarding microscopic and other similar methods of technique in the examination of soils.	\$29.50	General expenses, Bureau of soils, 1912 (soil laboratory investigations).
Merz, A. R. ....	do.....	Reno, Nev. (Nov. 9-14, 1911).....	To conduct laboratory investigations at Reno for the Bureau of Soils.	109.65	Do.
Robinson, W. O. ....	do.....	Newark, N. J., and Malvern, Pa., and return. (Aug. 3-4, 1911.)	To visit the platinum manufacturing establishments of Baker & Co. and Bishop & Co. for the purpose of selecting new forms and ascertaining the cost of reworking and remodeling into crucibles and dishes, worn out and defective platinum ware, property of the Bureau of Soils.	12.90	Do.
Schreiner, O. ....	do.....	New York and Ithaca, N. Y., and return. (Feb. 13-17, 1912.)	To confer with officials of Columbia and Cornell Universities with reference to soil fertility problems under investigation by the Bureau of Soils and to deliver a lecture before the students of those universities on the results of the bureau's work in this line of investigation.	41.88	Do.
Do. ....	do.....	Goshen, Md., and return. (Mar. 21, 1912.)	To deliver an address on organic matter in relation to soil fertility before a farmers' meeting.	2.85	Do.
Do. ....	do.....	State College, Pa., and return. (May 21-23, 1912.)	To consult with officials of the Pennsylvania Agricultural Experiment Station regarding soil fertility problems under investigation by the Bureau of Soils, and to inspect fertility work carried on at that place in cooperation with the experiment station.	23.48	Do.
Skinner, J. J. ....	do.....	Germantown, Md. (Sept. 22, 1911)...	To study farm management, public roads, orchards, and other farm subjects.	1.90	Contingent expenses, Department of Agriculture, 1912.
Ross, W. H. ....	do.....	Burtonsville, Md., and return. (May 1, 1912.)	To examine and make report upon an alleged discovery of a potash deposit.	3.60	General expenses, Bureau of Soils, 1912 (investigation of fertilizer resources).

Turrentine, J. W.	.....do.....	Points in New York and Michigan and return. (July 28-Aug. 18, 1911.)	To investigate, in cooperation with the United States Geological Survey, the methods of salt mining and the handling of salines, brines, and mother liquors, for the purpose of determining the location and extent of potash-carrying salines and their availability as a source of potash salts.	134.00	Do.
Do.	.....do.....	Hollofield, Md., and return. (Nov. 7, 1911.)	To investigate a reported deposit of potash salts at or near that place.	3.78	Do.
Do.	.....do.....	New York, N. Y., and return. (June 12-15, 1911.)	To obtain information with reference to the methods employed in the dry distillation of kelp and the recovery of potash and other valuable products therefrom, in order that it may be determined whether or not they may be utilized as fertilizers.	28.00	Do.
Waggaman, W. H.	.....do.....	Atlantic City, N. J., and return. (July 16-19, 1911.)	To attend a meeting of the National Association of Fertilizer Manufacturers for the purpose of consulting with members and officials of the association regarding the manufacture and distribution of various types of fertilizers, with special reference to the utilization of natural sources of fertilizers available in the United States.	24.95	Do.
Do.	.....do.....	Points in Alabama and Georgia. (Aug. 18-Sept. 2, 1911.)	To investigate sources and manufacture of fertilizer materials.	195.45	Do.
Do.	.....do.....	New York, Philadelphia, and Baltimore, Md., and return. (Nov. 3-10, 1911.)	To investigate sources, manufacture, handling, and storage of fertilizer materials.	36.02	Do.
Do.	.....do.....	Chicago and return. (Mar. 21-23, 1912.)	To investigate the preparation and utilization of basic slags as fertilizers.	51.35	Do.
Whitney, Milton.	Chief of bureau.....	Nashville, Tenn., and return. (Apr. 8-12, 1912.)	To deliver an address before the Southern Commercial Congress on the soil resources of the South, and to confer with those present with reference to southern soil problems under investigation by the Bureau of Soils.	47.10	General expenses, Bureau of Soils, 1912 (administrative expenses.)

## BUREAU OF ENTOMOLOGY.

Busck, August.	Entomological assistant.	Richmond, Va. (July 11-13, 1911.)....	To investigate certain injurious insects.....	\$15.95	General expenses, Bureau of Entomology, 1912 (miscellaneous insects).
Caudell, A. N.	Assistant.....	Boston, Mass., stopping at New York and Philadelphia. (July 17-Aug. 17, 1911.)	To compare and study specimens of Orthoptera in the collections of the Academy of Natural Sciences, American Museum of Natural History, Brooklyn Institute, and Cambridge Museum.	82.90	Do.
Do.	.....do.....	Boston, Mass., stopping at Philadelphia. (Sept. 18-Nov. 1, 1911.)	.....do.....	117.40	Do.

Statement showing the names of officers or employees (other than special agents, inspectors, or employees who in the discharge of their regular duties are required to constantly travel) who traveled on official business from Washington to points outside the District of Columbia during the fiscal year 1912, etc.—Continued.

## BUREAU OF ENTOMOLOGY—Continued.

Name.	Title.	Destination.	Business or work.	Total expense.	Appropriation.
Clifton, R. S.....	Executive assistant.....	Boston, Mass. (Nov. 30–Dec. 3, 1911).	To confer with the superintendent of moths, Bureau of Entomology, and the forester of the State of Massachusetts, concerning the investigation of the gipsy and brown-tail moths.	\$39.65	Preventing spread of moths, Bureau of Entomology, 1912.
Howard, L. O.....	Chief of bureau.....	San Francisco, Cal., Los Angeles, Cal., Dallas, Tex., and various other points in the United States. (Sept. 25–Oct. 14, 1911.)	To inspect field stations of the Bureau of Entomology and consult with employees in charge of these stations and with State entomologists.	275.85	General expenses, Bureau of Entomology, 1912 (miscellaneous insects).
Do.....	do.....	Boston, Mass., and various points in the New England States. (Sept. 18–24, 1911.)	To inspect field work against the spread of the gipsy and brown-tail moths.	54.05	Preventing spread of moths, Bureau of Entomology, 1912.
Marlatt, C. L.....	Acting chief of bureau...	Orlando, Fla., and throughout State of Florida. (Apr. 16–26, 1912.)	To inspect field work against citrous fruit insects.	104.60	General expenses, Bureau of Entomology, 1912 (citrous fruit insects).

## BUREAU OF BIOLOGICAL SURVEY.

Bailey, Vernon.....	In charge of biological investigations.	Various points in Montana, Wyoming, and Idaho. (Aug. 1–Oct. 22, 1911.)	To gather data on the geographic distribution of animals and plants and to have general supervisory charge of field parties engaged in similar work.	\$471.57	General expenses, Bureau of Biological Survey, 1912 (biological investigations).
Do.....	do.....	Various points in Wisconsin, Minnesota, North Dakota, Wyoming, Montana, and Idaho. (June 3–30, 1912.)	do.....	131.60	Do.
Birdseye, Clarence.....	Expert field naturalist..	Various points in California, Washington, and Montana. (July 1–Oct. 18, 1911; Mar. 26–June 30, 1912.) (Trip begun in previous fiscal year.)	To investigate depredations of ground squirrels, pocket gophers, and other mammals of economic importance and to gather data on the relation of birds to agriculture, horticulture, and forestry, and the transmission of disease.	795.23	General expenses, Bureau of Biological Survey, 1912 (food habits of birds and mammals)
Brewster, C. E.....	Game law expert.....	Various points in Michigan, Illinois, Wisconsin, Minnesota, and Virginia. (Sept. 28–Nov. 18, 1911.)	To investigate interstate shipments of game.	348.96	General expenses, Bureau of Biological Survey, 1912 (game preservation).

Do.....	do.....	Various points in Virginia, Tennessee, Arkansas, Oklahoma, Kansas, and Missouri. (Nov. 26-Dec. 27, 1911.)	To supervise transportation of game to national game reservations and to investigate the interstate shipment of game in the Southwest.	275.93	Do.
Do.....	do.....	Various points in Pennsylvania, Delaware, Maryland, Virginia, and North Carolina. (Jan. 12-31, 1912; Feb. 4-20, 1912; Mar. 25-30, 1912.)	To investigate interstate shipments of game and importations of foreign birds and mammals.	212.92	Do.
Do.....	do.....	Various points in Illinois, Kentucky, Ohio, Michigan, Tennessee, Missouri, Arkansas, Virginia, West Virginia, and North Carolina. (Mar. 2-24, 1912.)	do.....	254.97	Do.
Do.....	do.....	Various points in Virginia, West Virginia, North Carolina, Pennsylvania, Ohio, Illinois, Michigan, Wisconsin, Arkansas, and Louisiana. (May 2-23, 1912.)	To investigate interstate shipments of game..	186.43	Do.
Do.....	do.....	Various points in Pennsylvania, Michigan, Wisconsin, and Illinois. (June 1-16, 1912.)	do.....	135.00	Do.
Dearborn, Ned.....	Expert biologist.....	Various points in California, New Mexico, Washington, and Oregon. (July 1-Aug. 30, 1911; Apr. 19-June 30, 1912.) (Trip begun in previous fiscal year.)	To carry on investigations to determine practical methods of combating depredation of prairie dogs and other injurious mammals and to study methods of suppression of destruction of seeds by mammals and birds in the course of reforestation.	480.75	General expenses, Bureau of Biological Survey, 1912 (food habits of birds and mammals)
Fisher, A. K.....	In charge of economic investigations.	Various points in Colorado, Utah, Arizona, and Mississippi. (July 1-Aug. 18, 1911.)	To study the depredations of prairie dogs, pocket gophers, ground squirrels, and other mammals of economic importance; to gather data on the economic status of birds and mammals in relation to agriculture, horticulture and forestry, and to study methods of suppressing the destruction of seeds by mammals and birds in the course of reforestation.	456.46	General expenses, Bureau of Biological Survey, 1912 (food habits of birds and mammals).
Do.....	do.....	Harrisburg, Pa. (Feb. 19-24, 1912)....	To represent Biological Survey in discussion of the relations of birds and squirrels as possible agents in the transmission of chestnut-bark disease.	25.44	Do.
Do.....	do.....	Various points in Mississippi. (June 6-14, 1912.)	To devise methods for destroying crawfish which devastate the corn and cotton crops in the State.	97.99	Do.
Do.....	do.....	Various points in Louisiana. (June 16-23, 1912.)	To cooperate with the State in securing better protection for water fowl and other game birds.	99.75	Do.
Goldman, E. A.....	Field naturalist.....	New York City. (Nov. 10-14, 1911)....	To study and compare specimens of mammals in the American Museum in connection with a report on the biology of the Canal Zone.	25.05	General expenses, Bureau of Biological Survey, 1912 (biological investigations).

*Statement showing the names of officers or employees (other than special agents, inspectors, or employees who in the discharge of their regular duties are required to constantly travel) who traveled on official business from Washington to points outside the District of Columbia during the fiscal year 1912, etc.—Continued.*

## BUREAU OF BIOLOGICAL SURVEY—Continued.

Name.	Title.	Destination.	Business or work.	Total expense.	Appropriation.
Gutsell, J. S. ....	Agent. ....	Various points in Alabama, Texas, and Georgia. (July 1–Sept. 30, 1911) (Trip begun in previous fiscal year.)	To gather data on the economic status and geographic distribution of the mammals and birds of the region visited.	\$360.97	General expenses, Bureau of Biological Survey, 1912 (biological investigations).
Henshaw, H. W. ....	Chief of bureau. ....	Dixon, Montana, and various points in California and Oregon. (Aug. 26–Oct. 2, 1911.)	To inspect the bison range in Montana and to inspect bird reservations in Oregon and work done in California in connection with attempts to exterminate the California ground squirrel, and to collect data on the distribution of animals and plants, and the food habits of birds and mammals.	284.40	General expenses, Bureau of Biological Survey, 1912 (administrative expenses).
Do. ....	do. ....	Philadelphia, Pa. (Nov. 12–15, 1911.)	To represent the Biological Survey at the annual meeting of the American Ornithologists' Union.	22.65	Do.
Howell, A. H. ....	Assistant biologist. ....	Various points in Alabama, Mississippi and Georgia. (July 1–9, 1911.)	To gather data on the economic status and geographic distribution of mammals and birds of the region visited.	64.82	General expenses, Bureau of Biological Survey, 1912 (biological investigations).
Do. ....	do. ....	Various points in Tennessee, Alabama, Mississippi, Florida, Georgia, Louisiana, Illinois, and Indiana. (Jan. 20–May 16, 1912.)	do. ....	575.19	Do.
Jackson, H. H. T. ....	Expert. ....	Various points in Wisconsin, Iowa, and Minnesota. (May 10–June 30, 1912.)	do. ....	130.17	General expenses, Bureau of Biological Survey, 1912 (biological investigations).
Lantz, D. E. ....	Assistant biologist. ....	Various points in the national forests of Colorado. (July 1–Sept. 2, 1911; Mar. 28–June 30, 1912.) (Trip begun previous fiscal year.)	To investigate and determine the best methods for controlling prairie dogs and other mammals on the public domain.	1,038.58	General expenses, Bureau of Biological Survey, 1912 (food habits of birds and mammals).
McAtee, W. L. ....	do. ....	Asheville, N. C. (June 22–28, 1912)...	To study the Biltmore herbarium in order to secure data on the fruiting season of trees and shrubs which furnish food attractive to birds.	50.20	Do.
Merriam, C. H. ....	Consulting biologist. ....	Various points on the Pacific coast and British Columbia. (July 12–Oct. 28, 1911.)	To gather data on the economic status and geographic distribution of animals and plants.	185.46	General expenses, Bureau of Biological Survey, 1912 (administrative expenses).
Nelson, E. W. ....	Chief field naturalist. ....	Various points in Arizona and California. (Aug. 16–Nov. 9, 1911.)	To gather data on the economic status and geographic distribution of the mammals and birds of the region visited.	412.42	Do.



Oberholser, H. C.....	Assistant ornithologist..	Philadelphia and New York City. (Nov. 8-30, 1911.)	To study certain groups of birds in the Academy of Natural Sciences and the American Museum in connection with a report for publication.	24.95	General expenses, Bureau of Biological Survey, 1912 (biological investigations).
Oldys, Henry.....	Assistant biologist.....	Richmond, Va. (Nov. 21, 1911.).....	To investigate game and game conditions....	7.30	General expenses, Bureau of Biological Survey, 1912 (game preservation).
Palmer, T. S.....	Assistant chief.....	Various points in Massachusetts, Connecticut, New York, Pennsylvania, New Jersey, Maryland, and Virginia. (Oct. 28-Nov. 16, 1911; Jan. 10-27, 1912; Feb. 1-23, 1912; May 1-3, 1912; June 1-6, 1912.)	To supervise inspection service of foreign birds and to confer with State officials and others concerning matters of game preservation.	140.65	Do.
Scheffer, Theo. H.....	Expert.....	Various points in Kansas and Arizona. (July 1-Sept. 30, 1911; Mar. 12-June 30, 1912.) (Trip begun previous fiscal year.)	To investigate and determine the best methods of controlling noxious mammals and to study the food habits of certain species of birds of economic importance.	1,131.90	General expenses, Bureau of Biological Survey, 1912 (food habits of birds and mammals).

## DIVISION OF ACCOUNTS AND DISBURSEMENTS.

Calvert, Edgar B.....	Assistant chief.....	Savannah, Ga., Tampa, Key West, and Sand Key, Fla. (Sept. 15-23, 1911).	To examine station accounts and inspect construction work on Sand Key building.	\$116.55	General expenses, Weather Bureau, 1912.
Do.....	do.....	Key West, Fla. (Dec. 16-25, 1911).....	To inspect construction work on Key West building.	122.35	Do.
Do.....	do.....	Key West, Fla. (June 11-18, 1912).....	do.....	100.00	Do.
Fagan, M. E.....	Chief, office of accounts and fiscal agent.	Points in the New England States, New York, New Jersey, and Maryland. (Sept. 21-Oct. 3, 1911.)	To instruct collaborators and State officers engaged in cooperative fire-protection work with a view to securing uniformity in reporting expenditures, and in keeping their accounting records under the cooperative fire agreements.	64.30	General expenses, Forest Service, 1912 (general administration).
Do.....	do.....	Ogden, Utah, and San Francisco, Cal. (Apr. 12-May 23, 1912.)	To take charge of district accounts office during absence of district fiscal agent at Ogden and to inspect the office of accounts at San Francisco.	348.30	Do.
Forbes, F. E.....	Auditor.....	Quebec, Canada. (June 24-29, 1912) ..	To attend the annual meeting of the Association of American Railway Accounting Officers.	67.05	Contingent expenses, Department of Agriculture, 1912.
Fuchs, Wm. R.....	Deputy disbursing clerk.	Baltimore, Md. (July 5, 1911).....	To secure signatures to certain papers in connection with the purchase of land by the Department of Agriculture.	2.30	Do.
Melzar, E. A.....	District fiscal agent.....	Denver, Colo.; Ogden, Utah; Missoula, Mont.; Portland, Oreg.; San Francisco, Cal.; and Albuquerque, N. Mex., and other points in the West. (July 12-Oct. 24, 1911.)	To instruct district fiscal agents and others concerned in keeping records for the classification of expenditures, and to take temporary charge of accounts office at San Francisco, Cal.	749.04	General expenses, Forest Service, 1912 (general administration).
Do.....	do.....	Denver, Colo., and Ogden, Utah. (Feb. 5-Mar. 9, 1912.)	To supervise work of district fiscal agents, and to examine records.	305.10	Do.

Statement showing the names of officers or employees (other than special agents, inspectors, or employees who in the discharge of their regular duties are required to constantly travel) who traveled on official business from Washington to points outside the District of Columbia during the fiscal year 1912, etc.—Continued.

## BUREAU OF ACCOUNTS AND DISBURSEMENTS—Continued.

Name.	Title.	Destination.	Business or work.	Total expense.	Appropriation.
Melzar, E. A. ....	District fiscal agent .....	Denver, Colo.; Ogden, Utah; Missoula, Mont.; Portland, Oreg.; San Francisco, Cal.; and Albuquerque, N. Mex., and various national forest headquarters. (June 27-30, 1912.) (Trip not completed in fiscal year 1912.)	To supervise work of district fiscal agents and to take temporary charge of offices.	\$62.25	General expenses, Forest Service, 1912 (general administration).

## DIVISION OF PUBLICATIONS.

Bowie, John R. ....	Assistant editor .....	Richmond, Va. (Nov. 18-23, 1911) ..	To collect and disseminate information on road management and economics.	\$44.00	General expenses, Office of Public Roads, 1912 (road management).
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## BUREAU OF STATISTICS.

Andrews, Frank .....	Statistical scientist .....	New York, N. Y.; Chicago, Ill.; St. Paul, Minn.; St. Louis, Mo.; Louisville, Ky.; Cincinnati, Ohio; Roanoke, Va.; Richmond, Va.; Norfolk, Va. (July 1-22, 1911.) (Trip begun in fiscal year 1911.)	To gather information concerning agricultural development in the United States as influenced by transportation companies, with special reference to such topics as railroad lands and their occupation, colonization schemes, freight and passenger rates, special freight service, crop estimates made by transportation lines, tonnage of farm products carried, and the organization of industrial departments; and to collect data concerning fast freight service and methods of distributing perishable farm products.	\$152.29	General expenses, Bureau of Statistics, 1912 (special investigations).
Do .....	do .....	Baltimore, Md. (Aug. 30, 1911) .....	To secure quotations of prices of dressed beef, fresh pork, fresh mutton, fresh fish, dressed poultry, butter, and eggs, in connection with an investigation concerning cold storage and prices.	1.75	Do.

Do.....	.....do.....	New York, N. Y.; Boston, Mass.; Rochester, N. Y.; Chicago, Ill.; St. Louis, Mo.; Indianapolis, Ind.; Cincinnati, Ohio; Pittsburgh, Pa. (May 27-June 22, 1912.)	To secure statistics relative to the quantity of apples marketed, and information concerning methods and cost of moving the apple crop from orchard to storehouse and thence to market.	168.06	Do.
Covert, James R.....	Clerk, class 4.....	Norfolk, Va.; Boston, Mass. (Sept. 16-29, 1911.)	To secure information relative to the vegetable industry, with special reference to methods and dates of planting and harvesting.	48.55	Do.
Jones, S. A.....	Assistant chief of bureau.	Council Bluffs, Iowa; Lincoln, Nebr.; King City, Mo.; Topeka, Kans.; Okeene, Okla.; Guthrie, Okla.; Austin, Tex.; Houston, Tex.; Mena, Ark.; Vicksburg, Miss.; Nashville, Tenn.; Lexington, Ky.; Berryville, Va. (July 17-Aug. 21, 1911.)	To examine and inspect offices of the field service of the bureau, and to supervise and instruct State statistical agents and special field agents.	283.36	Do.
Do.....	.....do.....	Chicago, Ill.; St. Louis, Mo. (Sept. 4-17, 1911.)	To secure data relative to wholesale prices of meats back to 1880, and to secure such general information as may be available on the subject of cold storage of meats.	110.58	Do.
Do.....	.....do.....	Aberdeen, S. Dak.; Sheridan, Wyo.; Missoula, Mont.; Weiser and Moscow, Idaho; Kennewick, Wash.; Portland and Corvallis, Oreg.; San Francisco, Cal.; Carson City, Nev.; Salt Lake City, Utah; Carbon-dale, Colo.; Los Lunas, N. Mex.; Phoenix, Ariz.; Lake Charles, La.; Laurel and Carrollton, Miss.; Auburn, Ala.; Gainesville, Fla.; Atlanta, Ga.; Greeneville, Tenn. (Oct. 2-Nov. 30, 1911.)	To examine and inspect offices of the field service of the bureau, and to supervise and instruct State statistical agents and special field agents.	667.77	Do.
Do.....	.....do.....	Warrenton, Va.; Rensselaer, N. Y.; Randolph, Vt.; Maysville Center, Me.; Kingston, R. I.; Marlboro, Mass.; Whitehouse Station, N. J.; West Cornwall, Conn.; Fayetteville, N. Y.; Milford, Del. (Jan. 24-Feb. 13, 1912.)	.....do.....	139.31	Do.
Do.....	.....do.....	Bryantown, Md.; Raleigh, N. C.; Florence, S. C. (Feb. 16-22, 1912.)	.....do.....	36.60	Do.
Do.....	.....do.....	Hiawatha, Kans.; Council Bluffs, Iowa; Basin, Wyo.; Fargo, N. Dak.; Fergus Falls and Minneapolis, Minn.; Madison, Wis.; Chicago, Ill.; Carson City, Mich.; Columbus, Ohio. (Feb. 26-Mar. 30, 1912.)	.....do.....	246.05	Do.
Do.....	.....do.....	Raymond City, W. Va.; Lexington, Ky.; Mena, Ark.; Guthrie, Okla.; Olathe and Hiawatha, Kans.; Des Moines, Iowa; Indianapolis and Columbus, Ind. (Apr. 21-May 19, 1912.)	.....do.....	224.73	Do.

Statement showing the names of officers or employees (other than special agents, inspectors, or employees who in the discharge of their regular duties are required to constantly travel) who traveled on official business from Washington to points outside the District of Columbia during the fiscal year 1912, etc.—Continued.

## BUREAU OF STATISTICS—Continued.

Name.	Title.	Destination.	Business or work.	Total expense.	Appropriation.
Jones, S. A .....	Assistant chief of bureau.	Greeneville and Nashville, Tenn.; Carrollton, Miss.; Houston and Austin, Tex.; Lake Charles, La.; Laurel, Miss.; Auburn, Ala.; Gainesville, Fla.; Atlanta, Ga.; Florence, S. C.; Raleigh, N. C. (June 2-25, 1912.)	To examine and inspect offices of the field service of the bureau, and to supervise and instruct State statistical agents and special field agents.	\$236.14	General expenses, Bureau of Statistics, 1912 (special investigations).
Olmsted, Victor H. ....	Chief of bureau.....	Antwerp, Belgium. (July 1, 1911.) (Trip begun in fiscal year 1911.)	To secure information concerning methods of collecting agricultural data by European countries, and to ascertain whether any features of such methods are worthy of adoption.	1.47	Do.

## LIBRARY.

Barnett, C. R. ....	Librarian.....	New York, N. Y. (Sept. 23-Oct. 1, 1911.)	To attend the meetings of the Special Libraries Association and the New York State Library Association, as the official representative of the department library.	\$35.75	Library, Department of Agriculture, 1912.
Do. ....	do. ....	Ottawa, Canada. (June 25-30, 1912)...	To attend the meeting of the American Library Association as the official representative of the department.	62.23	Do.

## OFFICE OF EXPERIMENT STATIONS.

Allen, E. W. ....	Assistant director.....	Various points in West Virginia, Ohio, Illinois, Indiana, Iowa, Nebraska, Michigan, Connecticut, and Vermont. (July 15-Sept. 12, 1911.)	To inspect State experiment stations under the act of Mar. 2, 1887, and amendatory acts, and to confer with officials of colleges and experiment stations in relation to their work and condition.	\$277.84	Agricultural experiment stations, 1912.
Do. ....	do. ....	Columbus, Ohio. (Nov. 12-18, 1911.)	To attend meeting of the Association of American Agricultural Colleges and Experiment Stations and to deliver address on agricultural experiment station work of the department and confer with officials of the association in relation to the conduct and results of their work.	55.10	Do.

Do.	do.	Amherst, Mass. (Jan. 27-30, 1912)....	To confer with the director and horticulturist of the Massachusetts Experiment Station and the president of the college, regarding projects of the station.	12.39	Do.
Do.	do.	Staunton, Blacksburg, Christiansburg, and Roanoke, Va. (May 27-June 1, 1912.)	To inspect State experiment stations under the act of Mar. 2, 1887, and amendatory acts, and to confer with officials of colleges and experiment stations in relation to their work and condition.	26.35	Do.
Do.	do.	Creswell, N. C. (Apr. 14-17, 1912)....	To inquire into the progress of the Lake Phelps Drainage Project.	27.30	Drainage investigations, 1912.
Beal, W. H.	Chief of division.	Various points in Pennsylvania, New York, New Jersey, and Delaware. (Sept. 24-Oct. 6, 1911.)	To inspect State experiment stations under the act of Mar. 2, 1887, and amendatory acts and to confer with officials of colleges and experiment stations in relation to their work and condition.	60.47	Agricultural experiment stations, 1912.
Do.	do.	Columbus, Ohio. (Nov. 13-17, 1911)....	To attend meeting of the Association of American Agricultural Colleges and Experiment Stations and to deliver address on agricultural experiment station work of the department and confer with officials of the association in relation to the conduct and results of their work.	45.80	Do.
Do.	do.	Various points in North Carolina, South Carolina, Georgia, Florida, Alabama, Mississippi, and Louisiana. (Apr. 28-May 28, 1912.)	To inspect State experiment stations under the act of Mar. 2, 1887, and amendatory acts, and to confer with officials of colleges and experiment stations in relation to their work and condition.	186.58	Do.
Crosby, D. J.	Specialist in agricultural education.	Rock Hill, S. C. (July 11-13, 1911)....	To investigate and report on the teaching of agriculture and to deliver an address before a conference of teachers in agriculture in high schools.	30.60	Agricultural experiment station, 1912 (farmers' institutes).
Do.	do.	Various points in New York. (July 14-21, 1911.)	To investigate and report on the teaching of agriculture in the schools and to deliver lectures before the Summer School for Teachers at the New York State College of Agriculture.	9.75	Do.
Do.	do.	Various points in California, Arizona, Texas, New Mexico, and Louisiana. (Oct. 4-Nov. 4, 1911.)	To attend a conference of officials of agricultural schools and State teachers' association and to investigate and report on methods of teaching agriculture in secondary schools.	202.95	Do.
Do.	do.	Various points in Ohio, New York, and Massachusetts. (Nov. 9-22, 1911.)	To investigate and report on the teaching of agriculture in schools; to deliver lectures before the Central Ohio Teachers' Association at Cincinnati and before the American Association for the Advancement of Agricultural Teaching at Columbus, Ohio, and to attend a conference on the training of teachers for agriculture at Amherst, Mass.	56.66	Do.

Statement showing the names of officers or employees (other than special agents, inspectors, or employees who in the discharge of their regular duties are required to constantly travel) who traveled on official business from Washington to points outside the District of Columbia during the fiscal year 1912, etc.—Continued.

## OFFICE OF EXPERIMENT STATIONS—Continued.

Name.	Title.	Destination.	Business or work.	Total expense.	Appropriation.
Crosby, D. J .....	Specialist in agricultural education.	Various points in Louisiana and Texas. (Nov. 27–Dec. 3, 1911.)	To investigate and report upon the teaching of agriculture in schools and to deliver an address before the Southern Educational Association at Houston, Tex.	\$97.55	Agricultural experiment stations, 1912 (farmers' institutes).
Do.....	.....do.....	New York City. (Jan. 26–27, 1912)....	To attend a conference on agricultural education for dependent and delinquent boys and to deliver address.	18.55	Do.
Do.....	.....do.....	Various points in North Carolina. (Feb. 13–16, 1912.)	To investigate and report on the teaching of agriculture in schools.	27.45	Do.
Do.....	.....do.....	Various points in Indiana, Illinois, and Missouri. (Feb. 24–Mar. 1, 1912.)	To investigate and report on the teaching of agriculture in schools; to attend the convention of the department of superintendence of the National Education Association and the National Society for the Study of Education, and to give an address before the latter association.	82.15	Do.
Do.....	.....do.....	Various points in Virginia. (Apr. 16–18, 1912.)	To investigate and report on the work of agricultural schools.	13.30	Do.
Do.....	.....do.....	Gaithersburg, Md., and Greensboro, N. C. (June 7–22, 1912.)	To deliver an address at the Montgomery County Country Life Conference and to investigate and report on the work of agricultural schools.	23.50	Do.
Daish, Wilda M.....	Clerk, class 1.....	Columbus, Ohio. (Nov. 11–17, 1911) ..	To report the proceedings of the convention of the American Association of Farmers' Institute Workers.	27.10	Do.
Elliott, C. G.....	Chief of drainage investigations.	Richmond, Va. (July 11–15, 1911)....	To inspect the work of the Chickahominy Swamp Survey.	7.35	Drainage investigations, 1912.
Do.....	.....do.....	Lawrence, Pa.; points in Canada, Kalamazoo, Mich., and Louisville, Ky. (Aug. 7–26, 1911.)	To give assistance in a drainage project at Lawrenceville, Pa.; to examine the methods of drainage used by the Government of Canada, and to examine the drained muck lands in Michigan. Look over drainage project near Louisville, Ky.	106.39	Do.
Do.....	.....do.....	Various points in North Carolina, South Carolina, and Virginia. (Oct. 20–Nov. 16, 1911.)	To examine and report upon several drainage projects and to deliver an address before the fourth annual convention of the North Carolina Drainage Association at Elizabeth City, N. C.	62.82	Do.
Do.....	.....do.....	Various points in Tennessee, Mississippi, Arkansas, Illinois, and Kentucky. (Nov. 26–Dec. 14, 1911.)	To inspect the work of the office and examine the Tallahatchie drainage district in Mississippi.	107.62	Do.



Do.....	do.....	Norfolk, Va. (Jan. 28-29, 1912).....	To consult with engineers regarding the work of the office.	10.05	Do.
Ervin, Guy.....	Stenographer and typewriter.	Berkley, Cal. (June 23-28, 1912).....	Transferred for duty.....	107.75	Irrigation investigations 1912.
Evans, W. H.....	Chief of division and lar stations.	Various points in Illinois, Wisconsin, Minnesota, North Dakota, South Dakota, Kansas, Missouri, and Arkansas. (Aug. 24-Sept. 7, and Sept. 19-Oct. 6, 1911.)	To inspect State experiment stations under the act of Mar. 2, 1887, and amendatory acts, and to confer with officials of colleges and experiment stations in relation to their work and condition.	240.85	Agricultural experiment stations, 1912.
Do.....	do.....	Various points in Washington. (Sept. 8-18, 1911.)	To inspect the conditions of live stock being prepared for shipment from Seattle to the experiment station, island of Guam, and to supervise the loading and shipment of the stock.	158.70	Agricultural experiment stations, 1912 (island of Guam).
Fortier, Samuel.....	Chief of irrigation investigations.	Various points in Utah, Nevada, California, Oregon, Washington, Colorado, Kentucky, Montana, Wyoming, Pennsylvania, and New Jersey. (July 1-Aug. 22, 1911.)	To confer with agents and supervise the work of irrigation investigations.	348.39	Irrigation investigations, 1912.
Do.....	do.....	Buckeystown, Md. (Nov. 10, 1911)...	To confer with individuals regarding an irrigation plant in the State of Maryland.	2.98	Do.
Do.....	do.....	Chicago, Ill. (Dec. 4-9, 1911).....	To attend the National Irrigation Congress and to confer with experts in relation to irrigation investigations.	65.60	
Do.....	do.....	Baltimore, Md. (Jan. 12, 1912).....	To confer with individuals regarding an irrigation plant in the State of Maryland.	1.50	Do.
Do.....	do.....	Philadelphia and South Bethlehem, Pa. (Jan. 20-21, 1912.)	To confer with parties regarding irrigation plants.	9.35	Do.
Hamilton, John.....	Specialist, farmers' institutes.	Columbus, Ohio. (Nov. 11-18, 1911)...	To attend the meetings of the American Association of Farmers' Institute Workers and the Association of American Agricultural Colleges and Experiment Stations; to deliver addresses and confer with the officials of the associations in relation to the conduct and results of their work.	59.12	Agricultural experiment stations, 1912 (farmers' institutes).
Do.....	do.....	New York City. (Nov. 22-24, 1911)...	To deliver an address on the work of the farmers' institutes before a conference on rural life problems, in which the relation of farmers' institutes to the betterment of agriculture and country life was discussed.	19.60	Do.
Do.....	do.....	Baltimore, Md. (Dec. 8, 1911).....	To deliver an address before the Farmers' League of Maryland.	2.70	Do.
Do.....	do.....	Richmond, Va. (Jan. 16-18, 1912).....	To attend a meeting of the Virginia Farmers' Institute.	18.37	Do.
Do.....	do.....	Harrisburg, Pa. (Jan. 23-25, 1912)....	To attend meetings of the farmers' institute lectures and the State board of agriculture of Pennsylvania.	17.02	Do.

*Statement showing the names of officers or employees (other than special agents, inspectors, or employees who in the discharge of their regular duties are required to constantly travel) who traveled on official business from Washington to points outside the District of Columbia during the fiscal year 1912, etc.—Continued.*

## OFFICE OF EXPERIMENT STATIONS—Continued.

Name.	Title.	Destination.	Business or work.	Total expense.	Appropriation.
Hamilton, John.....	Specialist, farmers' institutes.	Various points in Pennsylvania, Ohio, Indiana, Illinois, Missouri, Kansas, Colorado, Nebraska, South Dakota, Minnesota, Wisconsin, Michigan, Ontario (Canada), Maine, New Hampshire, Vermont, Connecticut, Massachusetts, and New York. (May 16-June 29, 1912.)	To investigate and report upon the organization and progress of farmers' institutes in said States.	\$282.46	Agricultural experiment stations, 1912 (farmers' institutes)
Hare, B. B.....	Assistant in agricultural education.	Sandyville, Md. (July 15, 1911).....	To deliver an address before the Sandyville Grange.	4.60	Do.
Do.....	do.....	Various points in South Carolina and Georgia. (July 21-29, 1911).....	To investigate and report on the teaching of agriculture in colleges and schools and to deliver an address at a State educational rally at Delmar, S. C.	64.05	Do.
Do.....	do.....	Various points in South Carolina. (Nov. 28-Dec. 6, 1911.)	To investigate and report on the teaching of agriculture in schools and to deliver an address at the Port Royal Agricultural School at Beaufort, S. C.	48.30	Do.
Do.....	do.....	Baden, Md. (June 29, 1912).....	To investigate and report on the teaching of agriculture in public schools.	1.21	Do.
Knight, H. L.....	Scientific assistant.....	Various points in Ohio, Indiana, Illinois, Wisconsin, and Pennsylvania. (July 25-Aug. 4, 1911.)	To confer with officials of State institutions in relation to the manner of preparing and classifying experiment stations and extension publications.	89.20	Agricultural experiment stations, 1912.
Lane, C. H.....	Assistant in agricultural education.	Various points in North Carolina. (Aug. 25-31, 1911.)	To investigate and report on the teaching of agriculture in schools and to deliver addresses at meetings of farmers.	31.70	Agricultural experiment stations, 1912, (Farmers' institutes).
Do.....	do.....	Denton, Md. (Sept. 26, 1911).....	To deliver a series of addresses at the Teachers' Institute for Queen Anne, Caroline and Talbot Counties, Md.	2.00	Do.
Do.....	do.....	Various points in Pennsylvania. (Oct. 18-25, 1911.)	To investigate and report on the teaching of agriculture in colleges and schools and to deliver an address at the annual meeting of the State Library Association at Seagertown, Pa.	5.45	Do.
Do.....	do.....	Manassas, Va., and Sparks Station, Md. (Nov. 17-18, 1911.)	To deliver addresses at Corn Congresses to be held at the Manassas Agricultural High School and the Baltimore County Agricultural School.	9.18	Do.

Do.....	do.....	Various points in Georgia, South Carolina and Tennessee. (Mar. 7-Apr. 8, 1912.)	To investigate and report on the work of agricultural schools at all points excepting Nashville, Tenn., at which place the conference on education in the South was attended and an address delivered before the Conference of Rural School Supervisors.	175.09	Do.
Do.....	do.....	Various points in Nebraska, Colorado, Wyoming, Oregon, Washington, Idaho, Montana, North Dakota, Minnesota, Wisconsin, Utah, Missouri, Illinois, Kansas, and California. (Apr. 26-June 8, 1912.)	To investigate and report on the progress of agricultural schools and to deliver addresses at meetings of educators.	252.27	Do.
Do.....	do.....	Braddock Heights, Md. (June 26-27, 1912.)	To give an address at a meeting of the State Teachers' Association.	10.35	Do.
Langworthy, C. F.....	Chief, nutrition investigations.	Lake Placid, N. Y. (July 4-5, 1911)...	To confer with experts in relation to proposed experiments in nutrition.	19.48	Nutrition investigations, 1912.
Do.....	do.....	Boston, Mass., and New York City. (Oct. 27-Nov. 5, 1911.)	To deliver a lecture at Simmons College and to confer with experts in connection with nutrition investigations; and to confer with nutrition experts in relation to experiments on the culinary value of animal and vegetable fats at New York City.	47.90	Do.
Do.....	do.....	New York City. (Jan. 19-21, 1912)....	To confer with nutrition experts regarding the preparation of a farmers' bulletin.	17.50	Do.
Do.....	do.....	New York City. (Apr. 16-21, 1912)....	To deliver addresses at Teacher's College and at Pratt Institute, and to consult with experts regarding nutrition problems.	17.65	Do.
Do.....	do.....	Lake Placid, N. Y. (June 14-28, 1912)...	To discuss results of nutrition investigations and to consult with experts regarding nutrition problems.	21.15	Do.
Milner, R. D.....	Assistant.....	Various points in Pennsylvania, New Jersey, and New York. (Aug. 1-4, 1911.)	To consult with manufacturers of physical and chemical apparatus in relation to the manufacture and installation of a small calorimeter and accessory apparatus.	26.87	Do.
Do.....	do.....	Philadelphia, Pa., and New York City. (Aug. 24-25, 1911.)	To confer with manufacturers regarding apparatus for the respiration calorimeter.	9.70	Do.
Do.....	do.....	Philadelphia, Pa., New York City, and Boston, Mass. (Nov. 16-23, 1911.)	To consult with manufacturers in relation to the construction of a respiration calorimeter, with experts regarding experiments with this apparatus and with investigators in relation to nutrition work in general.	59.25	Do.
Do.....	do.....	Philadelphia, Pa. (Dec. 20-23, 1911)...	To inspect and test electric apparatus for use with a small respiration calorimeter.	20.68	Do.
Do.....	do.....	Boston, Mass., and Philadelphia and State College, Pa. (Apr. 21-25, 1912.)	To deliver an address at Simmons College, to confer with manufacturers regarding modifications of an electrical device used in the respiration calorimeter, and to consult with experts regarding investigations with the respiration calorimeter.	51.07	Do.

Statement showing the names of officers or employees (other than special agents, inspectors, or employees who in the discharge of their regular duties are required to constantly travel) who traveled on official business from Washington to points outside the District of Columbia during the fiscal year 1912, etc.—Continued.

## BUREAU OF EXPERIMENT STATIONS—Continued.

Name.	Title.	Destination.	Business or work.	Total expense.	Appropriation.
Marsden, R. D. ....	Office engineer .....	Various points in Indiana and Illinois. (Aug. 5-9 and Sept. 5-11, 1911.)	To examine the levee district on the Wabash River in Vermilion County, Ind., to advise landowners in relation to the construction of drainage ditches at Batavia, Ill., and to investigate drainage conditions in the river bottom lands in Rock Island County, Ill.	\$82.80	Drainage investigations, 1912.
Do. ....	do. ....	McGehee, Ark., to Washington, D. C. (Feb. 5-8, 1912.)	Transferred for duty .....	45.02	Do.
Singleton, F. E. ....	Computer .....	Various points in Illinois and States west of the Mississippi River. (Aug. 7-Sept. 7, 1911.)	To assist in the organization of irrigation districts and inspect work in progress.	471.93	Irrigation investigations, 1912.
Stedman, J. M. ....	Assistant specialist, farmers' institutes.	Manassas, Va. (Nov. 17, 1911) .....	To deliver an address before the farmers' institute at the Manassas Agricultural High School.	1.30	Agricultural Experiment Station, 1912 (farmers' institutes).
Do. ....	do. ....	Newcastle, Ind. (Nov. 25-28, 1911) ..	To deliver an address before the farmers' institute at Newcastle.	46.85	Do.
True, A. C. ....	Director .....	Various points in Nevada, California, Oregon, Washington, Idaho, Montana, Illinois, Michigan, and New York. (July 1-Aug. 3, 1911.)	To inspect State experiment stations under the act of Mar. 2, 1887, and amendatory acts; to confer with officials of colleges and experiment stations in relation to their work and condition; to deliver addresses on the educational work of the Department and to attend meeting of National Education Association at San Francisco, Cal.	232.18	Agricultural experiment stations, 1912.
Do. ....	do. ....	Various points in New York, Vermont, Maine, New Hampshire, Massachusetts, Connecticut, and Rhode Island. (Aug. 9-Sept. 30, 1911.)	To inspect State experiment stations under the act of Mar. 2, 1887, and amendatory acts, and to confer with officials of colleges and experiment stations in relation to their work and condition.	127.34	Do.
Do. ....	do. ....	Columbus, Ohio. (Nov. 11-18, 1911) ..	To attend the meetings of the Association of American Agricultural Colleges and Experiment stations and of the American Association of Farmers' Institute Workers.	57.40	Do.
Do. ....	do. ....	Norfolk, Va. (Nov. 28-30, 1911) .....	To attend the Virginia State Educational Conference for the purpose of making an address on agricultural schools.	14.35	Do.
Do. ....	do. ....	Various points in Kentucky and Tennessee. (Apr. 5-19, 1912.)	To inspect State experiment stations under the act of Mar. 2, 1887, and amendatory acts, and to confer with officials of colleges and experiment stations in relation to their	95.07	Do.

Do.....	do.....	Trenton and New Brunswick, N. J.; New York City; and State College, Pa. (May 2-30, 1912.)	work and condition, and to attend a conference on agricultural instruction at Nashville. To inspect State experiment stations under the act of Mar. 2, 1887, and amendatory acts and to confer with officials of colleges and experiment stations in relation to their work and condition and teachers in New York on business connected with the nutrition investigations.	38.30	Do.
Do.....	do.....	Various points in West Virginia and Michigan. (June 4-7 and June 29-30, 1912.)	To inspect State experiment stations under the act of Mar. 2, 1887, and amendatory acts, and to confer with officials of colleges and experiment stations in relation to their work and condition.	51.55	Do.

## OFFICE OF PUBLIC ROADS.

Anderton, B. A.....	Assistant chemist.....	New York, N. Y. (Sept. 15-26 and Oct. 5, 1911.)	To assist in the construction of bituminous-concrete experimental roads on Hillside Avenue.	\$40.27	General expenses, Office of Public Roads, 1912 (road material).
Boykin, L. E.....	Expert.....	Virginia, North Carolina, South Carolina, and Tennessee. On board Southern Railway road improvement train. (July 3-Sept. 8, 1911.)	To give 92 lectures on road building and demonstrate models of road construction at 97 stops.	316.83	General expenses, Office of Public Roads, 1912 (road management).
Do.....	do.....	Montgomery County, Md., and Disputanta, Va. (Sept. 21-30, 1911.)	To assist in forming model improvement association for counties in Montgomery County. To give lecture on road improvement at Disputanta.	15.10	Do.
Do.....	do.....	Roanoke, Va. (Oct. 3-5, 1911.)	To give lecture on financing road improvement.	19.75	Do.
Do.....	do.....	Virginia, North Carolina, and South Carolina. On board Atlantic Coast Line road improvement train. (Nov. 22, 1911-Jan. 10, 1912.)	To give 79 lectures on road building and demonstrate models of road construction at 86 stops.	179.51	Do.
Do.....	do.....	Washington, Uniontown, and Waynesboro, Pa. (Mar. 19-22, 1912.)	To give three lectures on road improvement.	42.16	Do.
Do.....	do.....	Big Stone Gap, Jonesville, and Wise, Va.; Mannington, Big Run schoolhouse, Coal Lick schoolhouse, Lower Glade schoolhouse, Curtisville, Upper Dent's Run schoolhouse, Logansport, Flat Run schoolhouse, Metz schoolhouse, Glovers Gap, Hundred, Burton, Ernschaw, and Joetown, W. Va.; Borden, Ind.; Ludington, Mich. (Mar. 23-Apr. 16, 1912.)	To make economic investigations at Big Stone Gap, Jonesville, Wise, Borden, and Ludington. To give 12 lectures on road improvement and raising finances at Mannington, Big Run schoolhouse, Coal Lick schoolhouse, Curtisville, Upper Dent's schoolhouse, Logansport, Flat Run schoolhouse, Metz schoolhouse, Glovers Gap, Hundred, Burton, Ernschaw, and Joetown.	168.44	Do.
Do.....	do.....	Laytonsville, Md. (May 23, 1912.)	To give lecture on the use of convict labor on the public roads.	1.32	Do.

Statement showing the names of officers or employees (other than special agents, inspectors, or employees who in the discharge of their regular duties are required to constantly travel) who traveled on official business from Washington to points outside the District of Columbia during the fiscal year 1912, etc.—Continued.

## OFFICE OF PUBLIC ROADS—Continued.

Name.	Title.	Destination.	Business or work.	Total expense.	Appropriation.
Boykin, L. E.....	Expert.....	Bradford, Pa. (June 5-7, 1912).....	To give an illustrated lecture on road improvement.	\$36.09	General expenses, Office of Public Roads, 1912 (road management).
Do.....	do.....	Athens, Ga., Pawnee, Tulsa, Muskogee, and Tahlequah, Okla. On board Frisco Lines road improvement train. (June 21-30, 1912.)	To give five lectures on road building and demonstrate models of road construction.	119.15	Do.
Block, Edward.....	Photographer.....	Purcellville, Va. (Oct. 6-7, 1911)....	To assist in giving illustrated lecture on benefits of road improvement.	2.80	Do.
Chew, Harry I.....	Instrument maker.....	Front Royal and Harrisonburg, Va. (Aug. 8-10, 1911.)	To set up and repair models of road construction on Southern Railway road improvement train.	14.25	Do.
Do.....	do.....	Virginia and North Carolina. On board Atlantic Coast Line Road improvement train. (Nov. 24-Dec. 13, 1911.)	To set up and assist in demonstrating models of road construction at 35 stops.	116.85	Do.
Davies, Alice L.....	Clerk.....	Charlottesville, Va. (June 30, 1912)....	To give lecture on road economics before summer school at university.	21.55	Do.
Eldridge, J. H.....	Superintendent of road construction.	Silver Springs, Md., and Ithaca, N. Y. (July 1-Aug. 13, 1911.)	To make inspection of bituminous-macadam object-lesson road at Silver Springs. To assist in constructing experimental roads at Ithaca.	106.77	General expenses, Office of Public Roads, 1912 (investigating road building and maintenance).
Do.....	do.....	Ithaca, N. Y. (Oct. 26-31, 1911).....	To assist in constructing experimental roads.	40.58	Do.
Do.....	do.....	Chevy Chase, Md. (Nov. 20-Dec. 12, 1911.)	do.....	7.70	Do.
Do.....	do.....	Leesburg, Va. (Apr. 24-June 18, 1912.)	To superintend the construction of a macadam object-lesson road at Chain Bridge, in Virginia.	16.00	Do.
Do.....	do.....	Atlanta, Ga. (June 25-28, 1912).....	To make inspection of object-lesson road built by Office of Public Roads.	52.95	Do.
Eldridge, M. O.....	Assistant in road management.	Pennsylvania, New Jersey, New York, Connecticut, and Massachusetts. (July 18-Aug. 1, 1911.)	To collect information and take photographs of new construction at 33 points throughout States, and to make economic investigation.	97.30	General expenses, Office of Public Roads, 1912 (road management).
Do.....	do.....	The Plains, Marshall, Remington, and Bealton, Va. (Aug. 3-5, 1911.)	To give seven lectures on method of financing improved roads.	15.93	Do.
Do.....	do.....	Warrenton, Va. (Aug. 12, 1911).....	To give lecture on improved roads.....	5.75	Do.
Do.....	do.....	Chicago, Ill. (Sept. 22-27, 1911).....	To give illustrated lecture on road building..	68.30	Do.
Do.....	do.....	Purcellville, Va. (Oct. 6-7, 1911).....	To give lecture on benefits of road improvement.	2.35	Do.



Do.....	do.....	Elkton, Md. (Nov. 11-12, 1911) .....	To give illustrated lecture on sand-clay and gravel roads. ....	7.84	Do.
Do.....	do.....	Baltimore, Md. (Nov. 14-15, 1911)....	To give illustrated lecture on the improvement of the local roads.	8.80	Do.
Do.....	do.....	Richmond, Va. (Nov. 18-23, 1911) ..	To give illustrated lecture on road building..	44.15	Do.
Do.....	do.....	Keyser, W. Va. (Nov. 28-29, 1911) ..	To give illustrated lecture on road legislation and management.	6.80	Do.
Do.....	do.....	Bel Air, Greensboro, Denton, and Federalsburg, Md. (Jan. 30-Feb. 4, 1912.)	To give 4 illustrated lectures on road building.	41.09	Do.
Do.....	do.....	Annapolis, Md. (Feb. 26, 1912) .....	To give illustrated lecture on road building..	5.15	Do.
Do.....	do.....	Kansas City, Mo., and Douglas, Wyo. (Mar. 4-16, 1912.)	To give 7 lectures on road building and maintenance.	162.07	Do.
Do.....	do.....	Dinwiddie and Spotsylvania Counties, Va. (Mar. 19-23, 1912.)	To make economic investigations at various points throughout the counties.	46.93	Do.
Do.....	do.....	Culpeper, Va. (Mar. 30, 1912)	To give lecture on road administration. ....	4.35	Do.
Do.....	do.....	Reynoldsville, Pa. (Apr. 4-6, 1912) ..	To give illustrated lecture on road construction and maintenance.	21.54	Do.
Do.....	do.....	Stafford, Va. (Apr. 11, 1912) .....	To give lecture on financing improved roads.	4.40	Do.
Do.....	do.....	Lovettsville, Va. (Apr. 19, 1912) ....	To give lecture on road building and methods of construction.	5.32	Do.
Do.....	do.....	Malone, Hogansville, and Albany, N. Y. (May 1-10, 1912.)	To make economic investigations. ....	109.62	Do.
Do.....	do.....	New York, N. Y. (May 17-31, 1912) ..	To give lectures on road building and demonstrate models of road construction.	106.76	Do.
Do.....	do.....	Bowling Green, Va. (June 10, 1912) ..	To give lecture on benefits of road improvement.	7.75	Do.
Do.....	do.....	Clarksburg, Shinnston, Lost Creek, Bridgeport, West Milford, Johnstown, and Salem, W. Va. (June 16-23, 1912.)	To give 8 lectures on benefits of improved roads.	57.28	Do.
Goldbeck, Albert T.....	Testing engineer.....	New York, N. Y. (Oct. 30-Nov. 2, 1911.)	To give lecture on oil-mixed concrete before American Society of Civil Engineers.	24.70	General expenses, Office of Public Roads, 1912 (road material.)
Do.....	do.....	Cleveland, Ohio, and Indianapolis, Ind. (Jan. 23-26, 1912.)	To give lectures on concrete work before State engineering societies.	51.85	Do.
Do.....	do.....	Farmingdale, N. Y. (Apr. 16-20, 1912)	To make inspection of roads and give advice.	23.86	Do.
Heidel, Benjamin F.....	Highway engineer.....	Chevy Chase, Md., and Washington, D. C. (Worked 222 days during fiscal year, returning each evening to Washington.)	To assist in the construction of experimental roads.	177.60	General expenses, Office of Public Roads, 1912 (investigating road building and maintenance).
Hewes, L. I.....	Senior highway engineer.	Chevy Chase, Md. (Nov. 11, 1911) ..	To make inspection of experimental roads...	20	General expenses, Office of Public Roads, 1912 (road management).
Do.....	do.....	Alexandria County, Va.; Rockville, Md.; Arlington, Delray, Syfax, St. Johns, Grinder, Braddock, Clarks Station, and Clarendon, Va. (Nov. 13-Dec. 28, 1911.)	To investigate road maintenance in Alexandria County, Rockville, Arlington, Delray, Syfax, St. Johns, Grinder, Braddock, Clarks Station, and Clarendon. To make inspections of roads and give advice at Arlington and Rockville.	8.10	Do.

Statement showing the names of officers or employees (other than special agents, inspectors, or employees who in the discharge of their regular duties are required to constantly travel) who traveled on official business from Washington to points outside the District of Columbia during the fiscal year 1912, etc.—Continued.

## OFFICE OF PUBLIC ROADS—Continued.

Name.	Title.	Destination.	Business or work.	Total expense.	Appropriation.
Hewes, L. I.....	Senior highway engineer.	Rockville, Md. (Jan. 2, 1912).....	To make inspection of roads and give advice.	\$0.20	General expenses, Office of Public Roads, 1912 (road management). Do.
Do.....	do.....	Alexandria County, Va.; Boise and Moscow, Idaho; and Lexington, Ky. (Jan. 20-Feb. 11, 1912.)	To investigate road maintenance in Alexandria County. To inspect object-lesson road built by Office of Public Roads at Boise. To give four lectures on highway improvement at Moscow. To give four lectures on earth and macadam roads at Lexington.	234.66	
Do.....	do.....	Newark, N. J.; Chicago, Ill.; and Frankfort, Ky. (Feb. 23-29, 1912.)	To give lecture on present problems of road maintenance at Newark. To give two illustrated lectures on administration and maintenance of roads at Chicago. To give lecture on bond issues in road improvement at Frankfort.	86.99	Do.
Do.....	do.....	Athol, Northampton, Brookline, and Newton, Mass.; and Bennington, Vt. (Mar. 8-16, 1912.)	To give lecture on cost of construction and maintenance of roads at Athol. To give lecture on modern road problems at Northampton. To make maintenance investigation at Brookline and Newton. To give two lectures on road building at Bennington.	57.62	Do.
Do.....	do.....	Alexandria County, Va. (Mar. 18-23, 1912.)	To investigate road maintenance.....	.50	Do.
Do.....	do.....	Chevy Chase, Md. (Mar. 30, 1912)....	To make inspection of experimental roads....	.40	Do.
Do.....	do.....	Alexandria County, Va. (Apr. 13, 26, 30, and May 10, 1912.)	To investigate road maintenance.....	1.30	Do.
Do.....	do.....	Staunton, Va. (May 25-27, 1912).....	To give lecture on advantages of good roads..	17.95	Do.
Do.....	do.....	Calvert, Md. (May 30-31, 1912).....	To give lecture on the relation of education to good roads.	5.55	Do.
Do.....	do.....	Winchester, Va. (June 28-30, 1912)....	To make inspection of roads and give advice..	29.38	Do.
Hoyt, Charles H.....	Bridge engineer.	Concord and various points throughout the State of New Hampshire. (July 27-Aug. 12, 1911.)	To make inspection of roads and give advice at Concord. To collect data and take photographs for bulletin on New Hampshire roads at various points. (Bulletin 42.)	114.99	General expenses, Office of Public Roads, 1912 (investigating road building and maintenance). Do.
Do.....	do.....	Dillon, S. C.; Bay St. Louis, and Hattiesburg, Miss. (Aug. 29-Sept. 16, 1911.)	To investigate concrete bridge work at Dillon. To make inspection of roads and give advice at Bay St. Louis. To inspect gravel object-lesson road at Hattiesburg; and return to Dillon.	111.35	

Do.....	do.....	Nashville, Tenn. (Sept. 19, 1911).....	To advise in regard to Memphis-to-Bristol highway, and to give lecture on road building at State fair.	32.30	Do.
Do.....	do.....	Dillon, S. C. (Sept. 21-Oct. 1, 1911)...	To investigate concrete bridge work.....	38.35	Do.
Do.....	do.....	Tazewell, Va. (Nov. 28-30, 1911).....	To make inspection of roads and give advice..	32.00	Do.
Do.....	do.....	Concord and Nashua, N. H. (Dec. 12-15, 1911.)	To give lecture on road building at Concord. To make inspection of roads and give advice at Nashua.	48.79	Do.
Do.....	do.....	Sioux Falls, S. Dak.; Crystal Falls and Ann Arbor, Mich. (Jan. 8-18, 1912.)	To give lecture on road building and maintenance at Sioux Falls. To investigate bridge work at Crystal Falls. To give four lectures on road building at university at Ann Arbor.	135.14	Do.
Hubbard, Prevost.....	Chemist.....	Atlantic City, N. J. (July 1, 1911)....	To give lecture on road building materials before American Society for Testing Materials.	3.70	General expenses, Office of Public Roads, 1912 (road material).
Do.....	do.....	Ithaca, N. Y.; (July 13-16, 1911).....	To inspect experimental roads.....	33.05	Do.
Do.....	do.....	New York, N. Y.; Greenwich, Conn.; Bayonne and Ridgewood, N. J.; Ithaca, N. Y.; Boston, Mass.; West Point, N. Y.; and Morristown, N. J. (Aug. 6-26, 1911.)	To inspect experimental roads at New York, Ridgewood, and Ithaca. To make inspections of roads and give advice at Greenwich, Boston, West Point, and Morristown. To secure information in regard to Hillside Avenue, New York, experimental roads at Bayonne.	180.53	Do.
Do.....	do.....	New York, N. Y. (Oct. 18-20, Dec. 16-17, 1911; Mar. 28-29, and May 21-22, 1912.)	To assist in constructing experimental roads on Hillside Avenue.	81.00	Do.
Nash, James P.....	Laboratory apprentice..	Rockville, Md. (June 26-30, 1912).....	To assist in making survey of road.....	2.40	General expenses, Office of Public Roads, 1912 (investigating road building and maintenance).
Page, L. W.....	Director.....	Atlantic City, N. J. (July 1, 1911)....	To give scientific lecture on road building before American Society for Testing Materials.	7.15	General expenses, Office of Public Roads, 1912 (road material).
Do.....	do.....	Providence, R. I. (July 11-15, 1911)..	To make inspection of roads and give advice..	22.15	Do.
Do.....	do.....	New York, N. Y. (Aug. 16-18, 1911)..	To inspect experimental roads on Hillside Avenue.	40.55	Do.
Do.....	do.....	New York, N. Y. (Aug. 29-Sept. 1, 1911.)	To make inspection of roads and advise with road officials.	33.13	Do.
Do.....	do.....	New York, N. Y.; Springfield, Mass.; and West Point, N. Y. (Sept. 15-23, 1911.)	To make inspections of roads and give advice at New York and West Point; to give lecture on road building at Springfield.	67.88	Do.
Do.....	do.....	Richmond, Va. (Oct. 18-21, 1911)....	To give lecture on the relation of highways to waterways.	27.90	Do.
Do.....	do.....	New York, N. Y. (Oct. 24-28, 1911)...	To inspect experimental roads on Hillside Avenue.	67.75	Do.
Do.....	do.....	Richmond, Va. (Nov. 2-4, 1911).....	To give lecture on road maintenance and take photographs of road construction.	30.95	Do.
Do.....	do.....	Richmond, Va. (Nov. 15-25, 1911)....	To give lecture on highway construction....	57.35	Do.

Statement showing the names of officers or employees (other than special agents, inspectors, or employees who in the discharge of their regular duties are required to constantly travel) who traveled on official business from Washington to points outside the District of Columbia during the fiscal year 1912, etc.—Continued.

## OFFICE OF PUBLIC ROADS—Continued.

Name.	Title.	Destination.	Business or work.	Total expense.	Appropriation.
Page, L. W.	Director	New York, N. Y. (Dec. 8-10, 1911)...	To inspect experimental roads on Hillside Avenue.	\$42.70	General expenses, Office of Public Roads, 1912 (road material).
Do.	do.	New York, N. Y. (Dec. 26-27, 1911)...	do.	38.70	Do.
Do.	do.	Columbia, S. C. (Jan. 10-13, 1912)....	To give lecture on road improvement in South Carolina.	42.40	Do.
Do.	do.	New York, N. Y. (Jan. 17-21, 1912)...	To confer with road officials in regard to road management.	63.10	Do.
Do.	do.	New York, N. Y. (Feb. 16-18, 1912)...	To give lecture on the use of limestone in building highways.	50.40	Do.
Do.	do.	New York, N. Y. (Mar. 12-15, 1912)...	To confer with road officials in regard to testing road materials.	55.00	Do.
Do.	do.	New York, N. Y. (Mar. 27-31, 1912)...	To attend meeting called to discuss the testing of road materials.	65.35	Do.
Do.	do.	New York, N. Y. (Apr. 2-4, 1912)....	To inspect experimental roads on Hillside Avenue.	28.05	Do.
Do.	do.	New York, N. Y. (Apr. 15-19, 1912)...	To confer with road officials in regard to road management.	37.30	Do.
Do.	do.	New York, N. Y. (Apr. 25-27, 1912)...	To confer with road officials in regard to road management and to give lecture on road building.	27.40	Do.
Do.	do.	Chicago, Ill., and Cleveland, Ohio. (May 6-12, 1912.)	To give lecture on the use of Portland cement in road construction at Chicago; to give lecture on road building at Cleveland.	68.85	Do.
Do.	do.	New York, N. Y. (June 3-6, 1912)....	To confer with road officials in regard to testing road materials.	20.00	Do.
Peirce, Vernon M.	Chief engineer.	Nashville and Knoxville, Tenn. (Sept. 3-7, 1911.)	To give lectures on Nashville, Chattanooga & St. Louis Ry. road-improvement train, and to inspect experimental roads at Knoxville.	64.85	General expenses, Office of Public Roads, 1912 (investigating road building and maintenance).
Do.	do.	Richmond, Va. (Nov. 19-22, 1911)....	To give lecture on Atlantic Coast Line road-improvement train.	30.75	Do.
Do.	do.	Boston, Mass. (Jan. 7-12 1912).....	To confer with officials of Boston & Maine Ry. in regard to a road-improvement train.	43.65	Do.
Do.	do.	St. Louis, Mo. (Feb. 25-29, 1912).....	To confer with officials of Frisco R. R. in regard to a road-improvement train.	73.85	Do.
Do.	do.	New York and Ithaca, N. Y. (May 5-12, 1912.)	To give lecture on road building at Domestic Science Congress in New York; to inspect experimental roads at Ithaca.	77.53	Do.

Do.....	do.....	Bennington, Vt., and New York, N. Y. (June 19-22, 1912.)	To make inspection of roads and give advice at Bennington; to inspect experimental roads on Hillside Avenue in New York.	46.59	Do.
Reeve, Charles S.....	First assistant chemist..	Warrenton, Va. (Aug. 26, 1911).....	To make inspection of roads and give advice..	3.05	General expenses, Office of Public Roads, 1912 (road material).
Do.....	do.....	Warrenton, Va. (Sept. 20, 1911).....	do.....	2.60	Do.
Do.....	do.....	Ithaca, N. Y. (Sept. 26-29, 1911).....	To make inspection of experimental roads..	29.68	Do.
Do.....	do.....	Knoxville, Tenn., Bowling Green, Ky., and Youngstown, Ohio. (Nov. 20-25, 1911.)	To collect data for progress report. (Circular 94.)	77.65	Do.
Do.....	do.....	Youngstown, Ohio. (Dec. 10-11, 1911)	do.....	27.75	Do.
Do.....	do.....	Norton and Big Stone Gap, Va. (Jan. 22-26, 1912.)	To give lecture on use of bituminous binders in road construction and maintenance at Norton; to make inspection of roads and give advice at Big Stone Gap.	35.85	Do.
Do.....	do.....	New York, N. Y. (Mar. 1-2, 1912)....	To meet with American Society for Testing Materials to discuss the testing of road materials.	22.60	Do.
Do.....	do.....	New York, N. Y. (Mar. 28-31, 1912)...	To meet with American Society for Testing Materials to discuss the testing of road materials, and to take photographs of road construction.	20.27	Do.
Do.....	do.....	Kennett Square, Pa. (Apr. 25, 1912)...	To inspect road-building machinery.....	8.35	Do.
Do.....	do.....	Ithaca, N. Y., and Marcus Hook, Pa. (May 7-10, 1912.)	To inspect experimental roads at Ithaca; to investigate road materials at Marcus Hook.	40.20	Do.
Do.....	do.....	Atlanta, Ga. (June 25-28, 1912).....	To inspect object-lesson road built by the Office of Public Roads.	49.80	Do.
Sargent, Paul D.....	Assistant director.....	Rockville, Md. (July 5, 1911).....	To confer with county commissioners in re- gard to Chevy Chase experimental roads.	.90	General expenses, Office of Public Roads, 1912 (in- vestigating road build- ing and maintenance).
Do.....	do.....	Alexandria, Va. (July 8, 1911).....	To make inspection of roads and give advice..	.30	Do.
Do.....	do.....	Richmond, Va. (July 24-26, 1911).....	do.....	14.30	Do.
Do.....	do.....	Boston, Mass., Rockland and Rock- port, Me. (Aug. 1-5, 1911.)	To confer with road officials and give advice at Boston. To inspect object-lesson road built by Office of Public Roads between Rockland and Rockport.	25.75	Do.
Do.....	do.....	Norfolk, Va. (Sept. 1-5, 1911).....	To make inspection of roads and give advice..	31.05	Do.
Do.....	do.....	New York, N. Y.; Springfield, Mass.; Waterbury, Conn., and West Point, N. Y. (Sept. 16-23, 1911.)	To inspect New York State roads at New York, Albany, and West Point. To in- spect experimental roads on Hillside Ave- nue and Marine Barracks in New York. To give lecture on highway construction at Springfield. To attend conference of road officials and make inspection of roads at Waterbury.	66.71	Do.
Do.....	do.....	Baltimore, Cambridge, and Salisbury, Md. (Oct. 10-12, 1911.)	To make inspection of roads and give advice..	14.35	Do.
Do.....	do.....	Jackson, Miss., and Selma, Ala. (Oct. 22-28, 1911.)	To give three lectures on the value of the State highway department.	94.85	Do.

Statement showing the names of officers or employees (other than special agents, inspectors, or employees who in the discharge of their regular duties are required to constantly travel) who traveled on official business from Washington to points outside the District of Columbia during the fiscal year 1912, etc.—Continued.

## OFFICE OF PUBLIC ROADS—Continued.

Name.	Title.	Destination.	Business or work.	Total expense.	Appropriation.
Sergeant, Paul D.....	Assistant director.....	Springfield and Boston, Mass. (Nov. 6-10, 1911.)	To give lecture on the importance of engineering supervision at Springfield. To make inspection of roads and give advice at Boston.	\$50.00	General expenses, Office Public Roads, 1912 (investigating road building and maintenance).
Do.....	do.....	Rochester, N. Y. (Nov. 13-18, 1911)...	To give lecture on highway improvement...	51.05	Do.
Do.....	do.....	Richmond, Va. (Nov. 20-22, 1911)...	do.....	30.55	Do.
Do.....	do.....	Concord, N. H., and Augusta, Me. (Dec. 11-17, 1911.)	To give lecture on road building at Concord. To confer with road officials in regard to road improvement train at Augusta.	61.25	Do.
Do.....	do.....	New York, N. Y. (Jan. 18-20, 1912)...	To confer with road officials in regard to road management.	31.70	Do.
Do.....	do.....	Kennebunk, Kennebunkport, Wells, and Portland, Me. (Feb. 14-21, 1912.)	To give four lectures on road building.....	53.90	Do.
Do.....	do.....	Toronto, Ontario. (Feb. 25-Mar. 1, 1912.)	To give lecture on State aid in road building.	31.46	Do.
Do.....	do.....	New York, N. Y. (Mar. 4-5, 1912)...	To give lecture on road construction at Columbia University.	24.20	Do.
Do.....	do.....	Philadelphia, Pa. (Mar. 29-30, 1912).	To make inspection of roads and give advice.	18.15	Do.
Do.....	do.....	Nashville, Tenn. (Apr. 6-11, 1912) ..	To give lecture on road building.....	55.50	Do.
Do.....	do.....	Detroit and Ann Arbor, Mich., and Chicago, Ill. (Apr. 21-28, 1912.)	To investigate road building materials at Detroit and Ann Arbor. To make inspection of roads and give advice at Chicago.	83.38	Do.
Do.....	do.....	New York, N. Y. (June 20-23, 1912) ..	To give lecture on road construction and inspect experimental roads on Hillside Ave.	28.05	Do.



INSECTICIDE BOARD.

McDonnell, C. C.....	Chief, insecticide and fungicide laboratory.	Buffalo, N. Y.; Cleveland, Ohio; Detroit, Mich.; Grand Rapids, Mich.; Chicago, Ill.; Indianapolis, Ind. (June 17-27, 1912.)	To inspect factories and study processes of manufacture of various insecticides and fungicides coming within the scope of the insecticide act of 1910.	\$106.02	Enforcement of the insecticide act, 1912.
Do.....	.....do.....	Arlington Farms, Va. (April-June, 1912.) (50 trips.)	To conduct chemical investigations as to the effect on foliage of certain insecticides.	10.00	General expenses, Bureau of Chemistry, 1912 (laboratory, miscellaneous expenses).
Smith, A. W.....	Executive officer.....	New York, N. Y. (Feb. 10-12, 1912)..	To collect special samples of Paris green from 10 different manufacturers for testing experiments.	12.50	Enforcement of the insecticide act, 1912.
Wallace, E.....	Expert.....	Wyoming and Dover, Del. (Apr. 1-2, 1912.)	To inspect suitability of an orchard in connection with experimental field tests of insecticides and fungicides.	13.17	Do.

## RECAPITULATION BY APPROPRIATIONS.

General expenses, Weather Bureau, 1912.....	\$2,551.65
General expenses, Bureau of Animal Industry, 1912:	
Inspection and quarantine.....	4,475.88
Eradicating cattle ticks.....	705.00
Dairy industry.....	9,600.21
Animal husbandry.....	7,229.48
Diseases of animals.....	2,577.05
Administrative expenses.....	1,118.24
Cooperative experiments in animal feeding and breeding, 1912.....	2,024.14
Meat inspection, Bureau of Animal Industry, 1912.....	5,880.60
General expenses, Bureau of Animal Industry, 1911-12.....	43.88
General expenses, Bureau of Plant Industry, 1912:	
Pathological laboratory.....	79.48
Fruit diseases.....	3,693.12
Forest pathology.....	2,859.07
Cotton and truck diseases.....	3,026.47
Crop physiology.....	2,189.31
Bacteriology and nutrition.....	1,704.41
Crop acclimatization.....	2,289.51
Drug and other plants.....	2,112.61
Crop technology.....	713.35
Cotton standardization.....	2,708.28
Grain standardization.....	1,763.54
Physical investigations.....	1,223.46
Special seeds and plants.....	391.16
Seed testing laboratories.....	1,116.84
Grain investigations.....	9,411.93
Tobacco investigations.....	510.72
Forage crop investigations.....	2,591.73
Paper plant investigations.....	1,403.71
Alkali and drought resistant plants.....	1,859.02
Sugar plant investigations.....	2,586.85
Taxonomic and range investigations.....	1,768.56
Farm management.....	14,687.80
Farmers' cooperative demonstration work.....	972.21
Dry land agriculture.....	1,155.31
Western agricultural extension.....	2,339.00
Pomological investigations.....	12,297.94
Arlington farm and horticulture.....	3,412.43
South Texas Garden.....	505.74
Administrative and miscellaneous.....	656.07
Purchase and distribution of valuable seeds, 1912:	
Congressional seed distribution.....	1,705.52
Foreign seed and plant introduction.....	4,309.16
Investigating the chestnut tree bark disease, 1911-12.....	216.99
General expenses, Forest Service, 1912:	
Maintenance and supplies.....	315.65
Forest products.....	1,832.71
National forest range investigations.....	908.24
Management of forests.....	6,325.51
Market and miscellaneous investigations.....	519.01
General administration.....	9,575.51
Cooperative work, forest investigations.....	123.76
Acquisition of lands for protection of watersheds of navigable streams, 1912.....	2,108.33
General expenses, Bureau of Chemistry, 1912:	
Laboratory, miscellaneous expenses.....	5,362.83
Food and drugs act.....	13,001.26
General expenses, Bureau of Soils:	
Soil laboratory investigations.....	375.21
Soil survey.....	6.89
Administrative expenses.....	47.10
Investigations of fertilizer resources.....	1,054.90
General expenses, Bureau of Entomology, 1912:	
Citrus fruit insects.....	104.60
Miscellaneous insects.....	492.10
Preventing spread of moths, Bureau of Entomology, 1912.....	93.70
General expenses, Bureau of Biological Survey, 1912:	
Game preservation.....	1,562.16
Food habits of birds and mammals.....	4,176.30
Biological investigations.....	1,784.32
Administrative expenses.....	904.93
General expenses, Bureau of Statistics, 1912 (special investigations).....	2,316.66
Library, Department of Agriculture, 1912.....	97.98
Contingent expenses, Department of Agriculture, 1912.....	842.41
Agricultural Experiment Stations, 1912.....	1,610.77
Farmers' institutes.....	1,777.48
Station at island of Guam.....	158.70
Nutrition investigations, 1912.....	291.25
Irrigation investigations, 1912.....	1,007.50
Drainage investigations, 1912.....	499.80
General expenses, Office of Public Roads, 1912:	
Road management.....	2,325.13
Investigating road building and maintenance.....	2,021.54
Road material.....	1,650.82
Enforcement of the insecticide act, 1912.....	362.82
Total.....	190,105.31