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U. S. Department of Agriculture
Bureau of Entomology

Miscellaneous Circular No. 80

Directory
of
Field Activities
of the
Bureau of Entomology

Issued December, 1926



Washington
Government Printing Office
1926

ORGANIZATION OF THE BUREAU OF ENTOMOLOGY

- L. O. HOWARD, *Chief of Bureau.*
C. L. MARLATT, *Associate Chief of Bureau, in Charge of Regulatory Work.*
A. L. QUAINANCE, *Associate Chief of Bureau, in charge of Research Work.*
E. B. O'LEARY, *Senior Administrative Assistant, in Charge of Administrative Office.*
ROLLA P. CURRIE, *Associate Entomologist, in Charge of Editorial Work.*
MABEL COLCORD, *Associate Librarian, in Charge of Library.*

Deciduous Fruit Insect Investigations.—A. L. Quainance, Associate Chief of Bureau, in charge.

Cereal and Forage Insect Investigations.—W. H. Larimer, Senior Entomologist, in charge.

Cotton Insect Investigations.—B. R. Coad, Entomologist, in charge.

Forest Insect Investigations.—F. C. Craighead, Senior Entomologist, in charge.

Truck Crop Insect Investigations.—J. E. Graf, Senior Entomologist, in charge.

Bee Culture Investigations.—J. I. Hambleton, Apiculturist, in charge

Stored Product Insect Investigations.—E. A. Back, Senior Entomologist, in charge.

Tropical and Subtropical Plant Insect Investigations.—A. C. Baker, Senior Entomologist, in charge.

Taxonomic Investigations.—S. A. Rohwer, Entomologist, in charge.

Investigations of Insects Affecting the Health of Man and Animals.—Under immediate direction of Chief of Bureau.

Gipsy Moth and Brown-Tail Moth Investigations.—A. F. Burgess, Senior Entomologist, in charge.

Japanese Beetle Investigations.—L. B. Smith, Entomologist, in charge.

Insect Pest Survey.—J. A. Hyslop, Entomologist, in charge.

Investigations in Bioclimatics.—A. D. Hopkins, Senior Entomologist, in charge.

Investigations in Insect Pathology.—G. F. White, Pathologist, in charge.

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THE ACTIVITIES of the Bureau of Entomology are primarily devoted to research, although several important regulatory projects in cooperation with the Federal Horticultural Board and the State experiment stations and State departments of agriculture form part of its scientific program. Although research thus constitutes the major function of the bureau, this is directed toward the solution of economic problems, so that the bureau's aim is one of practical service through scientific research. The work includes a study of insects injurious to crops and crop products and the development of methods for eradication or control, a study of those affecting the health of livestock and of man, and those infesting human habitations or injurious to our industries. It includes also a study of beneficial insects, both those forming the basis of certain industries or on which more limited industrial processes depend and those which may be utilized as insect-controlling agencies in the solution of agricultural problems. With the exception of the research on taxonomy, the work of the insect pest survey, and that of a few technical laboratories, all of the activities of the bureau other than those of administration are conducted in the field. Much of the field investigational work is done in cooperation with the State agricultural experiment stations.

Directory of Field Activities of the Bureau of Entomology

ALABAMA

Birmingham

United States Entomological Sublaboratory (cooperation with Alabama Agricultural Experiment Station).—Located at the C. F. Maddox farm.

Biological and control studies of the Mexican bean beetle. L. W. Brannon, junior entomologist, in charge; or address N. F. Howard, United States Entomological Laboratory, 151 West Eleventh Avenue, Columbus, Ohio.

ARIZONA

Tempe

United States Entomological Laboratory (cooperation with Arizona and Utah Agricultural Experiment Stations).—Tempe is on the Arizona Eastern Railroad, between Maricopa and Phoenix. The laboratory is at 415 East Eighth Street, one square east of the State teachers' college campus.

Biological investigations of corn and alfalfa insects with experimental control work. V. L. Wildermuth, associate entomologist, in charge.

Tucson

United States Entomological Sublaboratory.—Located in the Southern Arizona Bank & Trust Building, 38 North Stone Avenue.

Investigations of the *Thurberia* weevil with reference to the distribution of the native host plant, and its menace to the cotton-growing industry of Arizona. T. P. Cassidy, associate entomologist, in charge; or address B. R. Coad, United States Entomological Laboratory, Tallulah, La.

Yuma

United States Entomological Sublaboratory (cooperation with Yuma Chamber of Commerce).—The office and laboratory are on the second floor of the city hall, corner of First Street and Second Avenue.

Investigations of the alfalfa seed chalcis in relation to irrigation agriculture, with experimental control work. E. E. Russell, assistant entomologist, in charge; address, Box 331; or address V. L. Wildermuth, United States Entomological Laboratory, Tempe, Ariz.

ARKANSAS

Bentonville

United States Entomological Laboratory (cooperation with the Arkansas Agricultural Experiment Station).—Located at 1420 South Main Street, two blocks from the railroad station. Bentonville is on a branch of the Frisco Lines, 6 miles from Rogers, Ark. The best way to reach Bentonville is to take an automobile at Rogers. There are hotel accommodations at Bentonville.

Investigations of apple insects, including control experiments. A. J. Ackerman, associate entomologist, in charge.

CALIFORNIA

Alhambra

United States Entomological Laboratory.—Located at 200 South Third Street. The laboratory may be reached by interurban cars from Los Angeles, the cars running within two blocks. Telephone, Alhambra 1056.

Biological and control investigations of the pea aphid, the pepper weevil, and the celery leaf tyer, and control studies of wireworms. R. E. Campbell, associate entomologist, in charge; mail address, Box 297.

Investigation of weevil destruction to beans and peas; field control conducted in cooperation with the Bean Growers' Association of California and with bean weevil committees of farm bureaus in bean-growing areas. A. O. Larson, associate entomologist, in charge; mail address, Box 297.

Fresno

United States Entomological Laboratory (cooperation with the Dried Fruit Association of California).—To reach the laboratory, if arriving at Fresno via the Southern Pacific Lines take the car marked either "Roeding Park" or "Wishon Avenue—State College." leave the car at Elizabeth Street, and walk two blocks to the left. If arriving via the Atchison, Topeka & Santa Fe Railway take car marked either "McKenzie Avenue" or

"S. P. Station," transfer at the Southern Pacific station, and continue trip as previously indicated.

Investigations of insects destructive to dried fruits on the farm, in the packing house, and in the warehouse. J. C. Hamlin, associate entomologist, in charge.

Indio

United States Entomological Laboratory (cooperation with Federal Horticultural Board and Federal Bureau of Plant Industry).—Location of laboratory may be learned by inquiry at the Government Date Gardens.

Biological investigations of the date palm scale. F. S. Stickney, associate entomologist, in charge.

Lindsay

United States Entomological Laboratory.—Located at a point at the intersection of the easterly line of Homassel Avenue with the southerly line of Hermosa Street.

Investigations of the citrus thrips, including life-history studies and large-scale experiments in control in citrus groves. E. A. McGregor, associate entomologist, in charge.

Northfork

United States Entomological Sublaboratory (for cooperation see Palo Alto, Calif.).—Located 20 miles by stage from Fresno, Calif., at the United States Forest Service headquarters, Sierra National Forest.

Investigations of tree-killing insects and methods of control. J. M. Miller, entomologist, in charge; address, United States Entomological Laboratory, Leland Stanford Junior University, Palo Alto, Calif.

Palo Alto

United States Entomological Laboratory (cooperation with Federal Forest Service, National Park Service, and Office of Indian Affairs, with State Forestry Departments of California and Oregon, and with organizations of private owners of forest land).—Located at Leland Stanford Junior University. The university is about 2 miles from the Palo Alto railroad station and may be reached by trolley.

Investigations of tree-killing insects and methods of control. J. M. Miller, entomologist, in charge.

Sacramento

United States Entomological Laboratory (cooperation with Agricultural Experiment Station of the University of California and with the Federal Bureau of Plant Industry).—Located at 600 Twenty-sixth Street.

Investigations of the Hessian fly, wireworms, grasshoppers, and other important cereal and forage insects. W. B. Cartwright, associate entomologist, in charge.

Santa Cruz

United States Entomological Laboratory (cooperation with the California State Department of Agriculture).—Located at 31 Mountain View Avenue.

Investigations of insects affecting bulbs. C. F. Doucette, assistant entomologist, in charge.

CANAL ZONE

Ancon

United States Entomological Laboratory (cooperation with Federal Horticultural Board and

Federal Bureau of Plant Industry).—Located on Ancon Hill, on the road leading to Ancon Hospital.

Investigations of fruit flies and other tropical insects. Scouting to determine the presence of dangerous insects liable to introduction in cargoes passing through the canal. Tests of the effectiveness of chemicals and treated wood against termites. James Zetek, associate entomologist, in charge.

CHINA

Shanghai

Headquarters for men in China searching for parasites of the Japanese beetle for introduction into the territory infested by the Japanese beetle in the United States.

CONNECTICUT

Stratford

United States Entomological Suboffice (for cooperation see Boston, Mass., corn borer office).—Located on Beardsley Street, near corner of West Broad Street.

Storage and care of motor vehicles, apparatus, equipment, and supplies used in control work against the European corn borer. R. A. Vickery, assistant entomologist, in charge; or address L. H. Worthley, United States Entomological Field Office, 12 South Market Street, Boston, Mass.

DELAWARE

Wilmington

United States Entomological Field Office (for cooperation see Riverton, N. J.).—Located at 903 Shipley Street, front room, second floor.

Japanese beetle quarantine operations. C. W. Stockwell, junior administrative officer, in

charge; address, United States Entomological Laboratory, Riverton, N. J.

FLORIDA

Orlando

United States Entomological Laboratory (cooperation with Federal Bureau of Plant Industry).—Located on the northwest corner of the fair grounds, near West Amelia and Parramore Streets, 1 mile from railroad station.

Investigations of insects affecting citrus and subtropical fruits. W. W. Yothers, associate entomologist, in charge of field experimental work; F. R. Cole, assistant entomologist, in charge of biologic investigations.

Quincy

United States Entomological Sublaboratory.—Located at 104 Washington Street, one block west of the Court House. Telephone, 347.

Investigations of methods of control of insects affecting tobacco in the southern cigar-wrapper district. F. S. Chamberlin, assistant entomologist, in charge; mail address, Box 239; or address A. C. Morgan, United States Entomological Laboratory, Box 346, Clarksville, Tenn.

Sanford

United States Entomological Sublaboratory (cooperation with the State Plant Board, Florida Agricultural Experiment Station, and Federal Bureaus of Chemistry and Plant Industry).—Has quarters with the Florida State Plant Board in the City Hall.

Investigation of control of the celery leaf tyer. W. E. Stone, assistant entomologist, in

charge, Box 549; or address B. L. Boyden, United States Entomological Laboratory, Box 1691, Tampa, Fla.

Tampa

United States Entomological Laboratory (cooperation with the State Plant Board).—Located at 113 Gomez Street.

Investigation of biology, control, and eradication of the sweet-potato weevil. B. L. Boyden, associate entomologist, in charge; mail address, Box 1691.

FRANCE

Hyères

United States Entomological Laboratory.—Hyères is on the Mediterranean Sea a few miles east of Toulon, in the Department of Var. The laboratory is in the suburbs.

Investigations of parasites of the European corn borer and alfalfa weevil, with incidental work on the parasites of other important European pests that have become established in the United States. W. R. Thompson, entomologist, in charge.

GEORGIA

Fort Valley

United States Entomological Laboratory (cooperation with Federal Bureau of Plant Industry and State Board of Entomology).—Located two blocks from Union Station. Hotel accommodations may be had at Fort Valley.

Investigations of peach insects. O. I. Snapp, associate entomologist, in charge.

Thomasville

United States Entomological Laboratory.—Located at 509 Young Street.

Investigations of pecan insects. G. F. Mozzette, associate entomologist, in charge.

United States Entomological Laboratory.—Located in the post office building.

Studies of field conditions governing the abundance of corn weevils on southern farms and of methods of control, in cooperation with State and county agents. S. E. McClendon, assistant entomologist, in charge; address, 504 Young Street.

HAWAII

Honolulu

United States Entomological Laboratory (cooperation with Federal Horticultural Board and Territorial Board of Agriculture and Forestry).—Located on the grounds of the Territorial Board of Agriculture and Forestry, corner of King and Keeaumoku Streets.

Investigations of the Mediterranean and other fruit flies. Inspection and certification of products designated for shipment to the United States, including baggage of passengers, in cooperation with the Federal Horticultural Board. H. F. Willard, entomologist, in charge.

IDAHO

Coeur d'Alene

United States Entomological Laboratory (cooperation with Federal Forest Service, National Park Service, and Office of Indian Affairs, with State Forestry Department of Idaho, and with organizations of private owners of

forest land).—Within five minutes' walking distance from the railroad station.

Investigations of tree-killing insects and methods of control. J. C. Evenden, associate entomologist, in charge.

Twin Falls

United States Entomological Laboratory (cooperation with Idaho, Utah, Montana, and California Agricultural Experiment Stations and Federal Bureau of Plant Industry).—Located at the sugar factory outside the town.

Investigations of the sugar-beet leafhopper. Walter Carter, associate entomologist, in charge: mail address, Box 1100.

INDIA

Calcutta

Headquarters for men in India searching for parasites of the Japanese beetle for introduction into the territory infested by the Japanese beetle in the United States.

INDIANA

Vincennes

United States Entomological Laboratory (cooperation with Purdue University Agricultural Experiment Station).—Located at 2 East Locust Street.

Investigations of the more important apple insects. B. A. Porter, associate entomologist, in charge.

West Lafayette

United States Entomological Laboratory (cooperation with Indiana, Illinois, Ohio, and Michigan Agricultural Experiment Stations, Ohio State University, and Federal Bureau of Plant Industry).—Located at 500 University

Street. Take the University Street car in front of the court house in La Fayette, crossing the Wabash River. The car stops at Fifth Street directly in front of the laboratory, which occupies the entire building.

Investigations of the Hessian fly and other principal cereal and forage insects. C. M. Packard, entomologist, in charge; mail address, Box 95.

IOWA

Sioux City

United States Entomological Laboratory (cooperation with North Dakota and Montana Agricultural Experiment Stations).—Located at 2000 South St. Aubin Street.

Investigations of cutworms, the Hessian fly, grasshoppers, and other important insects affecting cereal crops. C. N. Ainslie, assistant entomologist, in charge.

JAPAN

Yokohama

Headquarters for the men in Japan searching for parasites of the Japanese beetle for introduction into the territory infested by the Japanese beetle in the United States.

KANSAS

Wichita

United States Entomological Laboratory (cooperation with Kansas, Nebraska, Missouri, and Oklahoma Agricultural Experiment Stations).—Located at 126 South Minneapolis Avenue.

Investigations of the chinch bug, the Hessian fly, and other important enemies of wheat and other cereal crops and forage crops. Mainte-

nance of local experimental plots for determination of local infestation and varietal resistance. J. R. Horton, associate entomologist, in charge.

United States Entomological Laboratory.—Located at 2303 West Douglas Avenue.

Investigation of life history and control of the codling moth. Paul M. Gilmer, associate entomologist, in charge.

LOUISIANA

Baton Rouge

United States Entomological Laboratory (cooperation with Louisiana Agricultural Experiment Station).—Located at the Agricultural Experiment Station at the State University.

Experiments in the control of various truck-crop insects with insecticides. Studies on the mole cricket parasite and on the transmission of cowpea mosaic by insects. C. E. Smith, assistant entomologist, in charge.

Crowley

United States Entomological Sublaboratory (cooperation with the Rice Station of the Louisiana Agricultural Experiment Station).—Located at the Rice Station of the Louisiana Agricultural Experiment Station. It is 1 mile west of town on the road to Jennings, La.

Investigations of rice insects. J. W. Ingram, junior entomologist, in charge; or address T. E. Holloway, United States Entomological Laboratory, 8203 Oak Street, New Orleans, La.

Mound

United States Entomological Laboratory.—Located on the Yerger properties. Mound is on the Vicksburg, Shreveport & Pacific Railway.

Investigations of malaria mosquitoes. W. V. King, entomologist, in charge.

New Orleans

United States Entomological Laboratory (cooperation with the Louisiana Agricultural Experiment Station).—Located at 8203 Oak Street.

Direction of investigations in the control of insects affecting sugar cane and rice. T. E. Holloway, associate entomologist, in charge.

United States Entomological Laboratory.—Located at 3022 Magazine Street.

Investigation of the camphor scale and other citrus pests. A. W. Cressman, junior entomologist, acting in charge.

Tallulah

United States Entomological Laboratory (cooperation with Federal Bureau of Public Roads, with the Louisiana, Texas, Mississippi, Alabama, Georgia, South Carolina, and North Carolina Agricultural Experiment Stations, and with the Georgia Normal College).—To reach the laboratory proceed east for two blocks from the railroad station on the street which parallels the railroad, or to the southwest corner of the courthouse square. At this point turn to the right (south), then cross the street and railroad tracks and proceed a distance of two blocks to the laboratory building, which is located on the corner in the next block.

Direction of activities of boll weevil and other cotton insect experimentation throughout the cotton belt. B. R. Coad, entomologist, in charge of cotton insect investigations.

MAINE

Cherryfield

United States Entomological Laboratory (cooperation with *Maine State Department of Agriculture*).—Located in the property known as the Old Campbell House.

Investigation of the blueberry maggot. F. H. Lathrop, entomologist, in charge.

MARYLAND

Sligo (post office, Silver Spring)

United States Entomological Laboratory.—Located on the west margin of High Street. It may be reached from Washington, D. C., by taking car marked "Georgia and Alaska Avenues," going north on Ninth Street and transferring to the bus at the District line. Leave the bus at High Street. The laboratory is about one-half square from the bus stop.

Studies of various contact and other insecticides. E. H. Siegler, associate entomologist, in charge.

Research on insect morphology. R. E. Snodgrass, entomologist, in charge.

Investigation of the biology of the Angoumois grain moth throughout the eastern wheat-growing region. Perez Simmons, associate entomologist, in charge.

Investigation of berry insects (plots at Bell, Md., station on the Washington, Baltimore & Annapolis electric line), in cooperation with Federal Bureau of Plant Industry. C. H. Poppenoe, associate entomologist, in charge; mail address, Bureau of Entomology, United States Department of Agriculture, Washington, D. C.

Somerset

Apicultural Investigations (cooperation with the following Federal agencies: State Department, Bureau of Foreign and Domestic Commerce, National Museum, Weather Bureau, Bureau of Standards, and Bureaus of Plant Industry, Chemistry, Agricultural Economics, and Home Economics) (mail address, Bureau of Entomology, United States Department of Agriculture, Washington, D. C.).—The laboratory, apiary, and headquarters for the bee-culture investigations are located three blocks west of stop 4 of the electric car line on Wisconsin Avenue, north of the District of Columbia line. Telephone, Cleveland 998. The only permanent field laboratory is that at Laramie, Wyo. J. I. Hambleton, apiculturist, in charge. The subdivisions of these investigations are—

Behavior of bees: Studies of the effect of various stimuli within the hive and in the field upon colony development and honey production. J. I. Hambleton, apiculturist, W. J. Nolan, associate apiculturist, and others.

Diseases and enemies of bees: Investigations of bee diseases and enemies and of methods for their control. J. I. Hambleton, apiculturist.

Physiology of bees: Investigations by J. W. Bulger, assistant apiculturist.

Beekeeping regions: A survey of the principal beekeeping regions of the United States. E. L. Sechrist, associate apiculturist.

Demonstrations in beekeeping: Conduct of demonstrations in modern beekeeping practice, and preparation of material for use by the Extension Service workers and other workers in beekeeping. E. L. Sechrist, associate apiculturist, and others.

MASSACHUSETTS**Amherst**

United States Entomological Laboratory (cooperation with Federal Forest Service, the Massachusetts Agricultural College, and organizations of private timberland owners).—Located at the headquarters of the Northeastern Forest Experiment Station of the Forest Service. The office is in the Library Building of the Massachusetts Agricultural College, within walking distance of the street cars.

Investigations of the white-pine weevil. H. J. MacAloney, assistant entomologist, in charge.

Arlington

United States Entomological Laboratory (cooperation with Massachusetts, Ohio, and Michigan Agricultural Experiment Stations, and with Dominion and Provincial Entomologists of Canada).—Conveniently accessible from Boston by means of subway and Arlington Heights car. The experimental plots are reached from the laboratory by a short automobile trip.

Biological and ecological investigations of the European corn borer, together with control experiments. General supervision of sublaboratories at Silver Creek, N. Y., Sandusky, Ohio, and Monroe, Mich. D. J. Caffrey, entomologist, in charge; address, 10 Court Street.

Boston

United States Entomological Field Office (cooperation with the State Departments of Agriculture and Agricultural Experiment Stations of Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, New York, New Jersey, Pennsylvania, Ohio, Indi-

ana, and Michigan; with the Department of Farm Mechanics, Ohio State University; with the Federal Horticultural Board; and with the Dominion and Provincial Entomologists of Canada).—Located at 12 South Market Street.

General headquarters for control activities against the European corn borer. Supervision of suboffices at Stratford, Conn., and Cleveland and Elyria, Ohio, and of all quarantine and control work. L. H. Worthley, administrator in corn-borer control, in charge.

Preventing Spread of Gipsy and Brown-Tail Moths (main office, 964 Main Street, Melrose Highlands, Mass.) (for cooperation see main office, Melrose Highlands, Mass.)—Moth quarantine office, 408 Atlantic Avenue, Appraiser's Stores Building, Room 303. Telephone, Hancock 6617.

An inspection service against the gipsy moth and the brown-tail moth is operated. The moth-infested area is divided into 28 sections, with an inspector in each section. All nursery stock, Christmas greens, and forest, stone, and quarry products must be inspected before being moved from the infested area to noninfested areas. D. M. Rogers, junior administrative officer, in charge.

Melrose Highlands

Preventing Spread of Gipsy and Brown-Tail Moths (main office) (cooperation with State officials of all the New England States, New York, and New Jersey; with the Federal Horticultural Board; and with the Dominion and Provincial Entomologists of Canada).—Office located at 964 Main Street. Telephone, Melrose 1640. Reached by railroad train from North Station, Boston. The office is 10 minutes' walk from the Melrose Highlands rail-

road station; it may be reached by taking the electric car marked "Reading," at Everett Elevated Terminal, and leaving the car at Franklin Square, Melrose Highlands.

Headquarters for the quarantine, research, and field-control work against the gipsy moth and the brown-tail moth. A. F. Burgess, senior entomologist, in charge; S. S. Crossman, entomologist, first assistant.

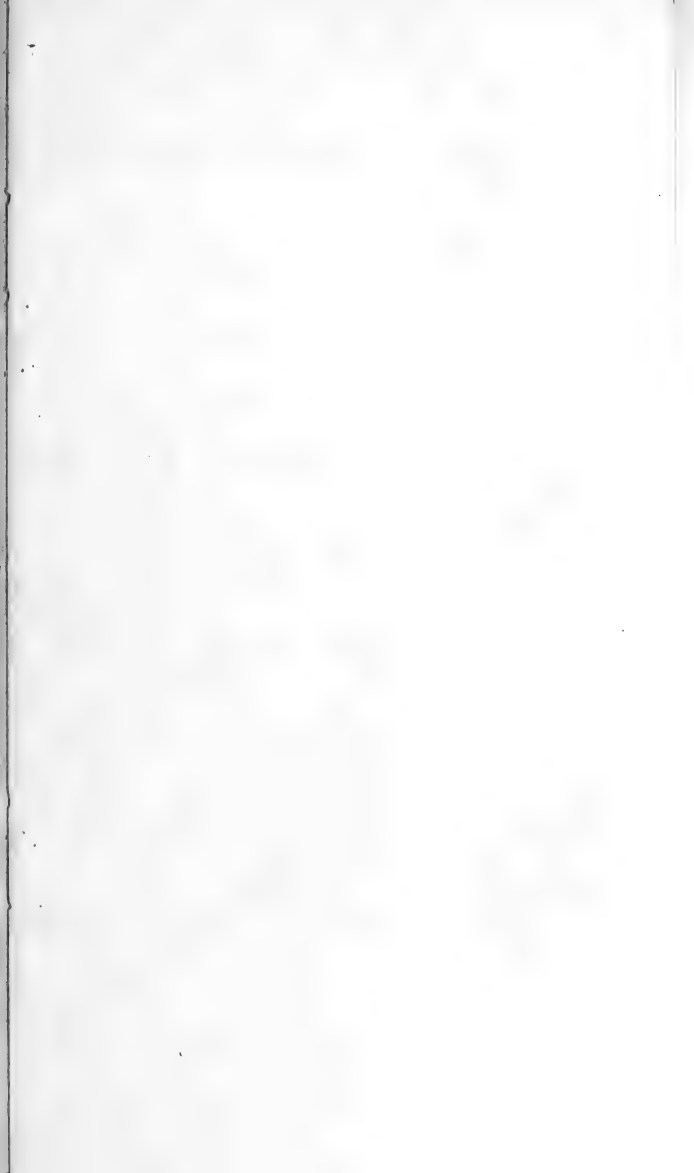
Field work is being conducted to prevent the spread of the gipsy moth and to determine the area to be quarantined. This work consists of scouting and of treating infested areas by creosoting, clean-up work, and spraying. H. L. Blaisdell, administrative officer, in charge.

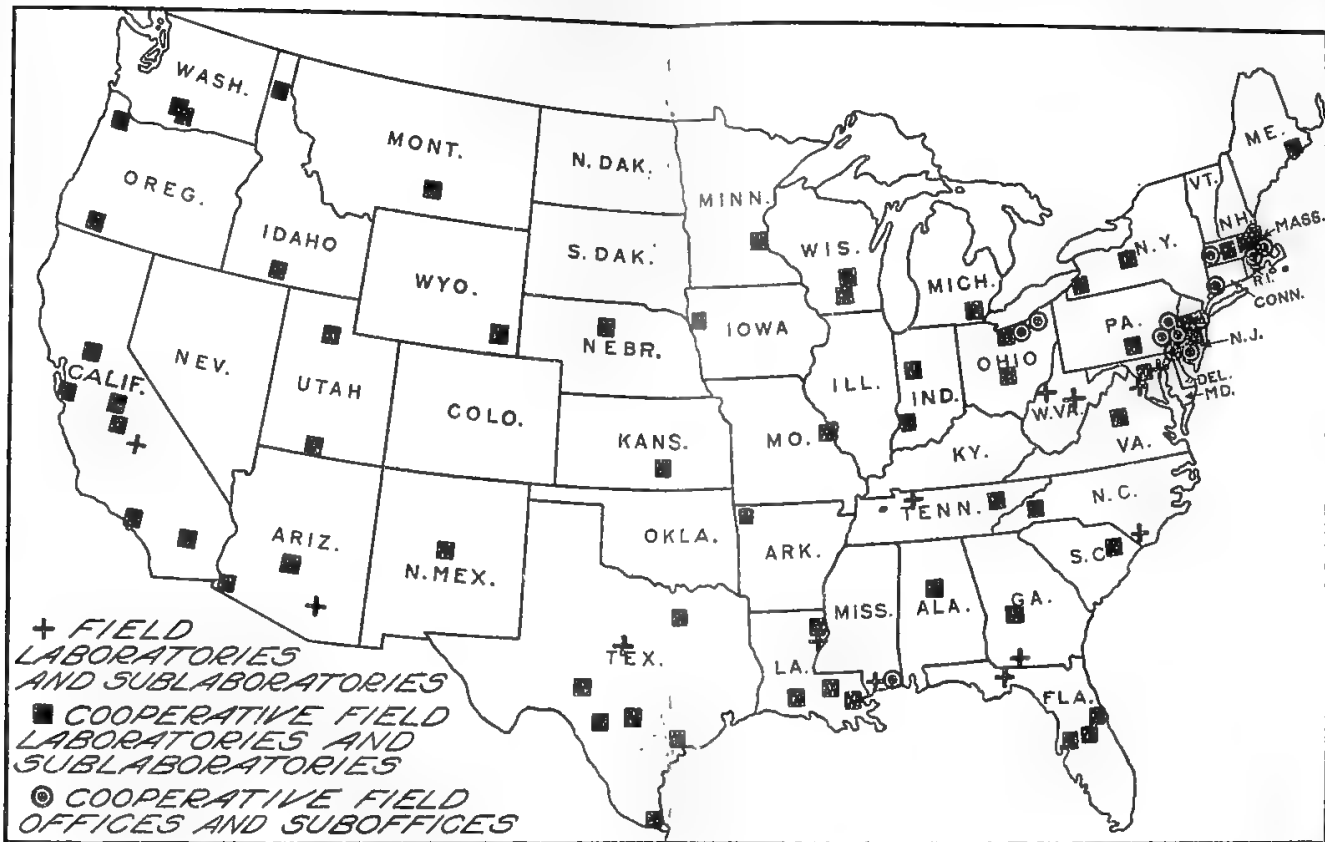
United States Entomological Laboratory (main office, 96½ Main Street) (for cooperation see main office).—Located at 17 East Highland Avenue. Telephone, Melrose 0508.

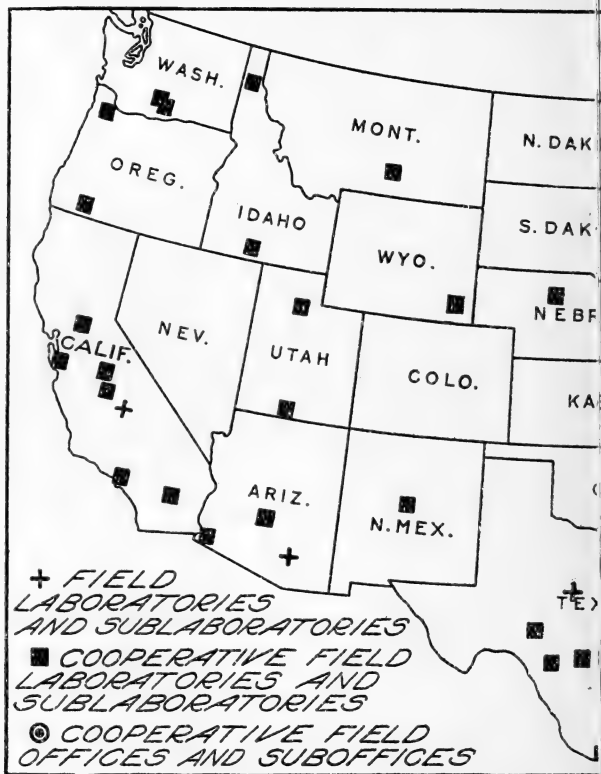
Research work on the gipsy moth and the brown-tail moth. Work on the introduction, establishment, and dispersion of the natural enemies of the gipsy moth and the brown-tail moth is being conducted. Experimental work is also being conducted on such allied subjects as insecticides, dispersion, native hosts of introduced parasites, food plants, and field observations to determine the degree of infestation and the resulting damage. A storehouse is maintained at 266 Franklin Street (telephone, Melrose 0680) for the housing and care of motor vehicles, equipment, spray apparatus, and supplies. C. W. Collins, entomologist, in charge.

Pittsfield

Preventing Spread of the Gipsy and Brown-Tail moths (main office, 96½ Main Street, Melrose Highlands, Mass.) (for cooperation see main office).—Field-control storehouse (telephone.











Pittsfield 3583). May be reached by the Boston & Albany, the New York, New Haven & Hartford, and the New York Central (Chatham Division) Railroads.

Used for storage and care of motor vehicles, equipment, spraying apparatus, and supplies. D. G. Murphy, senior scientific aid, in charge.

MICHIGAN

Monroe

United States Entomological Sublaboratory (cooperation with Michigan Agricultural Experiment Station).—Located in the country 3 or 4 miles west of town. Inquiry by telephone will bring an automobile for visitors.

Biological and control experimental work on the European corn borer. Maintenance of experimental plots for testing varieties of corn in relation to infestation, etc. Philip Luginbill, associate entomologist, in charge; mail address, Drawer 359; or address D. J. Caffrey, United States Entomological Laboratory, 10 Court Street, Arlington, Mass.

MINNESOTA

St. Paul

United States Entomological Laboratory (cooperation with University of Minnesota and Federal Forest Service).—Located at University Farm, University of Minnesota, in the Zoology Building, and may be reached by the electric line.

Investigations of the spruce budworm, the larch sawfly, and other forest insects. S. A. Graham, agent, in charge.

MISSISSIPPI

Biloxi

United States Entomological Field Office (cooperation with State Plant Board of Mississippi and Alabama State Department of Agriculture).—Located in the Peoples Bank Building, a short walk from the railroad station. Telephone, Biloxi 974-W.

Eradication of the sweet-potato weevil. K. L. Cockerham, associate entomologist, in charge; mail address, Box 205.

Gulfport

United States Entomological Laboratory.—Located at 700 Hardy Avenue, and may be reached by Pass Christian interurban car from Gulfport. Telephone, Gulfport 1067-W.

Biological and control studies of the Australian tomato weevil. M. M. High, associate entomologist, in charge; mail address, Box 989.

MISSOURI

Webster Groves

United States Entomological Laboratory (cooperation with Missouri Agricultural Experiment Station).—Located at 527 Ivanhoe Place. Both the Frisco and Missouri Pacific Railroads have stations in Webster Groves within walking distance of the laboratory. Inquiry at the stations will furnish the most reliable directions for reaching the laboratory. Inquiry by telephone of the laboratory is especially suggested.

Biological and ecological investigations of billbugs affecting cereal and forage crops. A. F. Satterthwait, associate entomologist, in charge.

MONTANA**Billings**

United States Entomological Laboratory (cooperation with Montana Agricultural Experiment Station and with Entomological Branch, Dominion of Canada Department of Agriculture).—Located at 1115 First Street West. Telephone, 2281.

Investigations of the grasshoppers and crickets affecting cereal and forage crops. Stewart Lockwood, associate entomologist, in charge; mail address, Box 1094.

NEBRASKA**Halsey**

United States Entomological Laboratory (cooperation with Federal Forest Service).—Located temporarily at United States Forest Service headquarters, Nebraska National Forest, within walking distance of the railroad station.

Investigations of the tip moth affecting pine plantations. L. G. Baumhofer, field assistant with local supervision.

NEW JERSEY**Bound Brook**

Preventing Spread of Gipsy and Brown-Tail Moths (main office, 96½ Main Street, Melrose Highlands, Mass.) (cooperation with New Jersey Department of Agriculture).—Field-control office for the New Jersey infestation of the gipsy moth. Located on Lincoln Road. Telephone, Bound Brook 697. The office may be reached by the Baltimore & Ohio Railroad, the Lehigh Valley Railroad, the Philadelphia & Reading Railway, and the Central Railroad of New Jersey.

The work is an eradication project. A storehouse (telephone, Bound Brook 507) is maintained on Lincoln Road for the housing and care of motor vehicles, equipment, spraying apparatus, and supplies. H. A. Ames, chief scientific aid, in charge.

Glassboro

United States Entomological Field Suboffice (for cooperation see Riverton, N. J.).—Located at 319 Main Street.

Japanese beetle quarantine operations. C. W. Stockwell, junior administrative officer, in charge; address, United States Entomological Laboratory, Riverton, N. J.

Riverton

United States Entomological Laboratory (cooperation with Federal Horticultural Board and with New Jersey, Pennsylvania, and Delaware Departments of Agriculture).—Located on the Burlington Pike, about 2 miles from town.

Headquarters for investigations of the Japanese beetle, including quarantine operations. L. B. Smith, entomologist, in charge of Japanese beetle investigations.

Investigations of the oriental peach moth. Alvah Peterson, entomologist, in charge.

NEW MEXICO

Estancia

United States Entomological Laboratory (cooperation with New Mexico Agricultural Experiment Station).—Located in town within walking distance of the railroad station.

Biological and control studies of the Mexican bean beetle under western conditions. J. R. Douglass, assistant entomologist, in charge; mail address, Box 353.

NEW YORK

Geneva

United States Entomological Sublaboratory (cooperation with New York (Geneva) Agricultural Experiment Station).—Located at the Agricultural Experiment Station.

Studies on the Mexican bean beetle and miscellaneous bean insects. Rodney Cecil, junior entomologist, in charge. Information can be obtained through P. J. Parrott; or address N. F. Howard, United States Entomological Laboratory, 151 West Eleventh Avenue, Columbus, Ohio.

Silver Creek

United States Entomological Sublaboratory (cooperation with Cornell Agricultural Experiment Station, State Entomologist, and State Department of Farms and Markets).—Located at 17 Division Street.

Biological and control experimental work on the European corn borer in the eastern Lake region. Maintenance of experimental plots where various cultural and other methods are tested. H. N. Bartley, assistant entomologist, in charge; or address D. J. Caffrey, United States Entomological Laboratory, 10 Court Street, Arlington, Mass.

NORTH CAROLINA

Asheville

United States Entomological Laboratory (cooperation with Federal Forest Service).—Located at Bent Creek, reached by trolley from Asheville.

Studies of the bark beetles affecting southern pines. J. A. Beal, assistant entomologist, in charge; mail address, 610 New Medical Building, Asheville, N. C.

Chadbourn

United States Entomological Laboratory.—Located across the street from the high-school building, 10 blocks from the Atlantic Coast Line Railroad station.

Biological and control studies of the strawberry weevil, the Porto Rico mole cricket, and wireworms. W. A. Thomas, assistant entomologist, in charge; mail address, Box 146.

OHIO

Cleveland

United States Entomological Field Suboffice (cooperation with Pennsylvania, Ohio, and Michigan Departments of Agriculture).—Located at 2036 East Twenty-second Street.

Headquarters for quarantine and control operations on account of the European corn borer in the Lake regions. Cooperative extension work is conducted and the Federal interstate quarantine work is operated. E. G. Brewer, senior administrative assistant, in charge; or address L. H. Worthley, United States Entomological Field Office, 12 South Market Street, Boston, Mass.

Columbus

United States Entomological Laboratory (cooperation with Ohio Agricultural Experiment Station through Ohio State University).—Located at 151 West Eleventh Avenue, opposite the State university. Telephone, University 0995.

Biological and control experiments on the Mexican bean beetle. N. F. Howard, associate entomologist, in charge.

Elyria

United States Entomological Suboffice (for cooperation see Cleveland, Ohio).—Located at 110 North Maple Street.

Storage and care of motor vehicles, apparatus, equipment, and supplies used in control work against the European corn borer. C. E. Towle, principal scientific aid, in charge; or address L. H. Worthley, United States Entomological Field Office, 12 South Market Street, Boston, Mass.

Sandusky

United States Entomological Laboratory (cooperation with Ohio Agricultural Experiment Station).—Located in the Bliss Building.

Investigations of the more important grape insects. G. A. Runner, associate entomologist, in charge.

United States Entomological Sublaboratory (cooperation with Ohio Agricultural Experiment Station).—Located at 1122 Fifth Street.

Biological and control experimental work on the European corn borer. Maintenance of experimental plots for testing varieties of corn in relation to infestation, etc. L. H. Patch, assistant entomologist, in charge; or address D. J. Caffrey, United States Entomological Laboratory, 10 Court Street, Arlington, Mass.

OREGON

Ashland

United States Entomological Sublaboratory (for cooperation see Palo Alto, Calif.).—Reached by bus from the railroad station. Open only during the summer months.

Investigations of tree-killing insects and methods of control. J. E. Patterson, assistant ento-

mologist, in charge; or address J. M. Miller, United States Entomological Laboratory, Leland Stanford Junior University, Palo Alto, Calif.

Forest Grove

United States Entomological Laboratory (cooperation with Oregon State Board of Horticulture and Oregon Agricultural Experiment Station).—Forest Grove is from 23 to 24 miles west of Portland and is reached by the Southern Pacific Railroad, the West Side electric line, the Oregon Electric Railway (Forest Grove branch), by bus, and by the West Side and Tualatin Highways. The laboratory is reached from the center of Forest Grove, at the intersection of Main Street and Pacific Avenue, by proceeding three blocks north on Main Street, turning left on Third Avenue North, and proceeding west on Third Avenue North for three blocks. The laboratory is at the head of Third Avenue North and faces east.

Investigations of the wheat midge, the clover root borer, and other important cereal and forage insects. L. P. Rockwood, associate entomologist, in charge.

PENNSYLVANIA

Carlisle

United States Entomological Laboratory (cooperation with Pennsylvania State Department of Agriculture and Pennsylvania Agricultural Experiment Station).—Located at 337 Franklin Street.

Investigations of the Hessian fly and its natural enemies. Maintenance of experimental plots for varietal tests and determination of local infestation. C. C. Hill, assistant entomologist, in charge.

Holmesburg

United States Entomological Field Suboffice (for cooperation see Riverton, N. J.).—Located in the Washington Hotel.

Japanese beetle quarantine operations. C. W. Stockwell, junior administrative officer in charge; address, United States Entomological Laboratory, Riverton, N. J.

Norristown

United States Entomological Field Suboffice (for cooperation see Riverton, N. J.).—Located on the Germantown Pike at Penn Square.

Japanese beetle quarantine operations. C. W. Stockwell, junior administrative officer, in charge; address, United States Entomological Laboratory, Riverton, N. J.

Philadelphia

United States Entomological Field Suboffice (for cooperation see Riverton, N. J.).—Located at 2027 Arch Street.

Japanese beetle quarantine operations in Pennsylvania. C. W. Stockwell, junior administrative officer, in charge; or address United States Entomological Laboratory, Riverton, N. J.

United States Entomological Laboratory (cooperation with University of Pennsylvania).—Located at the University of Pennsylvania.

Biological investigations of the strawberry leaf roller and the Colorado potato beetle, and experiments on the physiological action of various insecticides. D. E. Fink, assistant entomologist, in charge.

SOUTH CAROLINA

Florence

United States Entomological Sublaboratory (cooperation with South Carolina Agricultural Experiment Station).—Located at the Pee Dee substation of the South Carolina Agricultural Experiment Station.

Investigation of the cotton boll weevil. F. A. Fenton, entomologist, in charge of biological work; or address B. R. Coad, United States Entomological Laboratory, Tallulah, La.

TENNESSEE

Clarksville

United States Entomological Laboratory.—Reached from either the Louisville & Nashville or the Tennessee Central Railroad station by taking a car marked "Greenwood Avenue," transferring at the intersection of Madison Street and Greenwood Avenue, and getting off the car on Greenwood Avenue at Crossland Avenue. The laboratory is at 642 Greenwood Avenue and faces Crossland Avenue. Telephone, Clarksville 55.

Direction of investigations in the control of insects injurious to tobacco. A. C. Morgan, associate entomologist, in charge; mail address, Box 346.

Knoxville

United States Entomological Laboratory (cooperation with Tennessee and Kentucky Agricultural Experiment Stations).—The office of this laboratory occupies a room on the fourth floor of the experiment station building at the Tennessee Agricultural Experiment Station, Kingston Pike, Knoxville, about 2 miles from the center of town. Take the Kingston Pike street car at any point on Gay Street and ask

to be put off at the entrance to the experiment station grounds. To call the office by telephone, call Farm 47 on the People's telephone. The entomologist in charge can be located at his home by either telephone 1837 M New or People's telephone or 6889 Old Telephone.

Investigations of sod webworms and the Hessian fly. George G. Ainslie, associate entomologist, in charge; mail address, R. F. D. No. 9.

TEXAS

Brownsville

United States Entomological Sublaboratory (for cooperation see Tallulah, La.).—To reach the laboratory from the railroad station turn right (to the east) along Levee Street and go two blocks to Fourteenth Street. Turn to the left up Fourteenth Street and proceed north to Lincoln Street (about 12 blocks). Turn to the right on Lincoln Street and go one block north to the laboratory, which is on the corner of Lincoln and Sixteenth Streets.

Investigation of the cotton hopper. T. C. Barber, assistant entomologist, in charge; telephone; or address B. R. Coad, United States Entomological Laboratory, Tallulah, La.

Brownwood

United States Entomological Sublaboratory.—Location fronting on the Jim Hogg Boulevard and extending to meanderings of the Pecan Bayou, 250 feet south of the Brownwood water pump station.

Investigations of the more important pecan insects. H. S. Adair, junior entomologist, acting in charge; or address G. F. Mozzette, United States Entomological Laboratory, 509 Young Street, Thomasville, Ga.

Dallas

United States Entomological Laboratory (cooperation with Federal Bureaus of Animal Industry and Chemistry and with Texas Agricultural Experiment Station).—Located at 4529 Reiger Avenue. Take Junius Heights street car from down town, get off at street stop Colson, and walk one block north. Telephone, U 3920.

Direction of investigations of insects injurious to domestic animals. F. C. Bishopp, entomologist, in charge; mail address, Box 208.

Port Lavaca

United States Entomological Sublaboratory (for cooperation see Tallulah, La.).—Located two blocks from the railroad station.

Investigations of the cotton hopper. K. P. Ewing, junior entomologist, in charge; or address B. R. Coad, United States Entomological Laboratory, Tallulah, La.

San Antonio

United States Entomological Laboratory (cooperation with the Texas and Oklahoma Agricultural Experiment Stations and the Federal Bureau of Biological Survey).—Can be reached by street car.

Investigations of the sorghum midge, grasshoppers, the green bug, etc. E. V. Walter, associate entomologist, in charge; mail address, Box 1077.

Sonora

United States Entomological Sublaboratory (for cooperation see Dallas, Tex.).—Reached by train to San Angelo on the Kansas City, Mexico & Orient Railway, coming on the Texas & Pacific Railway via the Kansas City, Mexico &

Orient Railway or on the Atchison, Topeka & Santa Fe Railway. After reaching San Angelo inquire at the San Angeles Hotel or the Landon Hotel for the Lee bus line or the Sonora-Del Rio bus line. Sonora is a 67-mile automobile bus trip from San Angelo. From the Southern Pacific Railroad stop at Del Rio, Tex., inquire at the St. Charles Hotel how and when to go to Sonora by bus. The trip on the automobile bus is about 133 miles. There are no sleeping or eating accommodations at Juno, Tex.

After reaching Sonora inquire at the McDonald Hotel or telephone 119. If Mr. Babcock is not at home telephone 2722, Texas Agricultural Experiment Station, 27 miles from town.

Investigations of goat lice, the screw worm, and the sheep scab mite. O. G. Babcock, assistant entomologist, in charge; or address F. C. Bishopp, United States Entomological Laboratory, Box 208, Dallas, Tex.

Uvalde

United States Entomological Sublaboratory (for cooperation see Dallas, Tex.).—To reach this laboratory from the railroad station it will be necessary to take a bus. From the Southern Pacific Railroad station take the street leading to town south for three-fourths of a mile, then one block west, one block south, and one-half block west. From the San Antonio, Uvalde & Gulf Railroad station it is three blocks east, 1 mile north to Loma Vista Avenue, and one-half block west. From places in the center of town it is one block west to High Street, 1 mile north to Loma Vista Avenue, and one-half block west.

Investigations of the screw worm of cattle and insects affecting poultry. D. C. Parman, assistant entomologist, in charge.

UTAH

Kanab

United States Entomological Laboratory (cooperation with Federal Forest Service).—Located at United States Forest Service headquarters, Kaibab National Forest.

Field headquarters for biological studies and control of the Black Hills beetle in the Kaibab National Forest. W. D. Edmonston, associate entomologist, in charge.

Salt Lake City

United States Entomological Laboratory (cooperation with the Utah, Wyoming, Montana, Colorado, Idaho, Nevada, and Oregon Agricultural Experiment Stations, and with the United States Army Air Service).—Located at 473 Fourth Avenue.

Investigations of the alfalfa weevil and its natural enemies. George I. Reeves, associate entomologist, in charge.

VIRGINIA

Charlottesville

United States Entomological Laboratory (cooperation with Virginia and South Carolina Agricultural Experiment Stations and Federal Bureau of Plant Industry).—Located about 1 mile from town and reached by automobile.

Investigations of the corn ear worm and joint-worms. Maintenance of experimental plots for determination of varietal resistance of corn to ear worm injury. W. J. Phillips, associate entomologist, in charge.

East Falls Church

United States Entomological Laboratory.—Reached by 45-minute trolley ride from the

electric railway station, corner of Twelfth Street and Pennsylvania Avenue NW., Washington, D. C.

Investigations of general forest-insect problems, particularly life-history work and experimental control of insects injurious to forest products. R. A. St. George, assistant entomologist, in charge.

WASHINGTON

Toppenish

United States Entomological Laboratory (co-operation with State College of Washington and Idaho Agricultural Experiment Station).—Located approximately half way between Toppenish and Buena on the paved highway. If the laboratory is called by telephone (Toppenish 208), a car will meet visitors at either of these places.

Investigations of wireworms. M. C. Lane, assistant entomologist, in charge; mail address, Box 448.

United States Entomological Sublaboratory (co-operation with State College of Washington).—Located on the grounds of the dismantled sugar factory, about 1¼ miles from town.

Investigations of the sugar-beet leafhopper. E. W. Davis, junior entomologist, in charge; mail address, Box 448; or address Walter Carter, United States Entomological Laboratory, Box 1100, Twin Falls, Idaho.

Yakima

United States Entomological Laboratory (co-operation with Washington Agricultural Experiment Station).—Located at 605 South Sixteenth Avenue.

Investigations of the more important apple insects. E. J. Newcomer, associate entomologist, in charge.

WEST VIRGINIA

French Creek

United States Entomological Laboratory.—May be reached from the Baltimore & Ohio Railroad station at Adrian, W. Va., or from Buckhannon, W. Va. From Adrian the visitor may travel by automobile over a hard road south 2 miles to the village of French Creek, then south 1 mile over the Bush Run clay road to the laboratory.

From the railroad station at Buckhannon travel is south over the French Creek road, through Adrian, to the village of French Creek, 10 miles, thence via the Bush Run road to the laboratory, which is 1 mile off the main highway, now nearing completion, which connects Charleston, W. Va., with Clarksburg, Pittsburgh, and eastern cities.

Investigations of nut insects. Fred E. Brooks, associate entomologist, in charge.

Mineral Wells

United States Entomological Laboratory.—Located at Kanawha Farms, a short ride from Parkersburg, W. Va., on the Baltimore & Ohio Railroad.

Investigations in bioclimatics. A. D. Hopkins, senior entomologist, in charge.

WISCONSIN

Columbus

United States Entomological Sublaboratory (for cooperation see Madison, Wis.).—Directions

for reaching the laboratory may be obtained at the cannery. It is occupied only in summer.

Biological and control studies of the pea aphid. J. E. Dudley, associate entomologist, in charge; address United States Entomological Laboratory, 1532 University Avenue, Madison, Wis.

Madison

United States Entomological Laboratory (cooperation with Wisconsin, Indiana, New York, New Jersey, and Maryland Agricultural Experiment Stations, and the National Cannery Association).—Located at 1532 University Avenue, on the campus of the University of Wisconsin.

Biological and control studies of the pea aphid, the onion maggot, and the striped cucumber beetle. J. E. Dudley, associate entomologist, in charge.

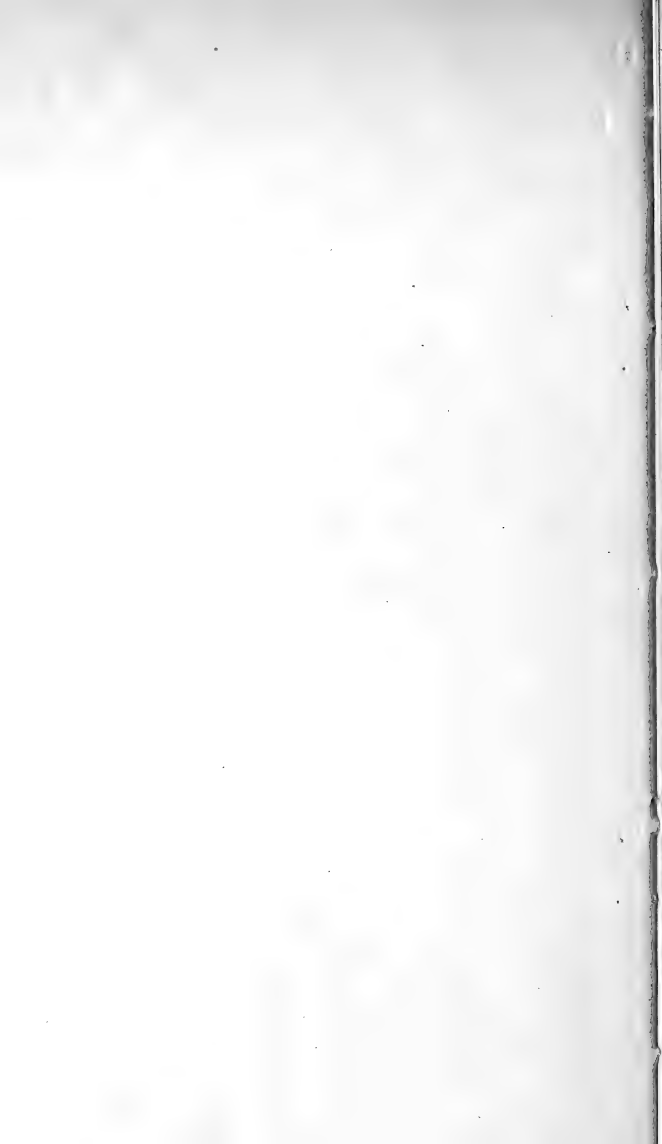
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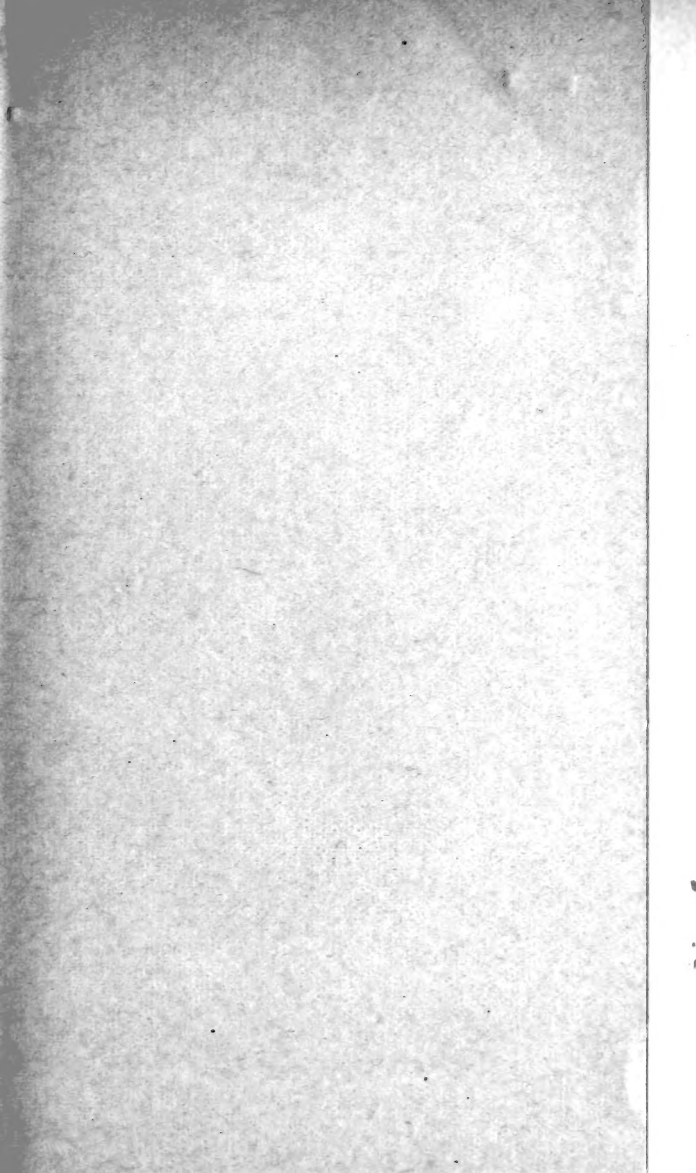
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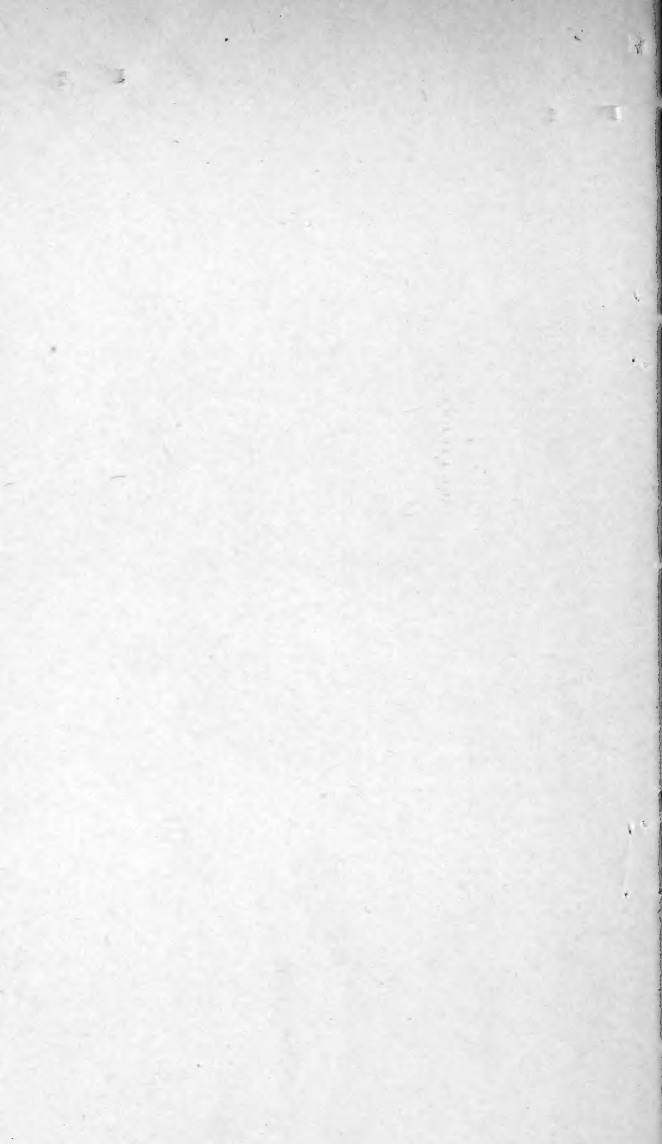
United States Intermountain Bee-Culture Laboratory (cooperation with the University of Wyoming).—Located on the campus of the university.

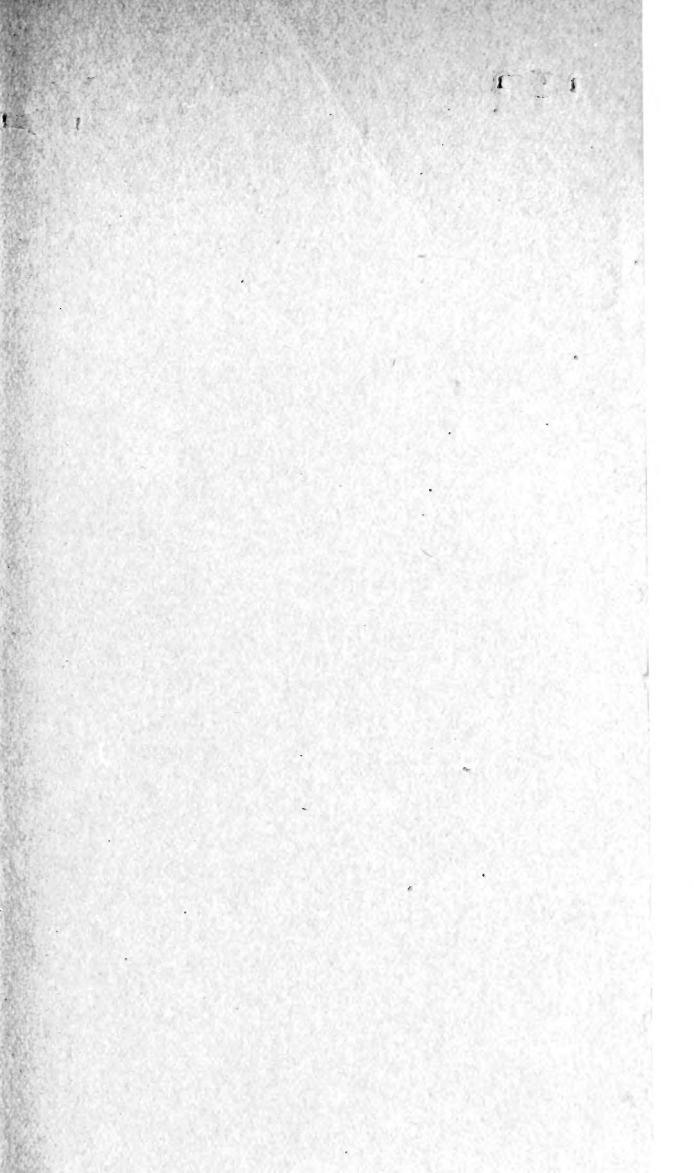
Research on intermountain methods of bee-keeping. A. P. Sturtevant, associate apiculturist, in charge.











Moore

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