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United States Department of Agriculture,

DIVISION OF PUBLICATIONS—Circular 16.

JOS. A. ARNOLD, Editor and Chief.

WASHINGTON, D. C., *February 23, 1912.*

PUBLICATIONS OF THE BUREAU OF ENTOMOLOGY.

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

REPORTS.

Report of the Entomologist for the year 1908.

Same, 1909.

Same, 1910.

Same, 1911.

BULLETINS (OLD SERIES).

[In applying for these bulletins the name of the bureau as well as the number of the bulletin should be given, as "Bureau of Entomology, Bulletin, O. S., No. 21."]

Bul. 21 (Revised). Report of Trip to Australia to Investigate the Natural Enemies of the Fluted Scale.

22. Reports of Observations and Experiments in the Practical Work of the Division, Made under the Direction of the Entomologist, 1890.

23. Reports of Observations and Experiments in Practical Work of the Division, Made under the Direction of the Entomologist, 1891.

24. The Bollworm of Cotton: A Report of Progress in a Supplementary Investigation of this Insect.

25. Destructive Locusts: A Popular Consideration of a Few of the More Injurious Locusts (or "Grasshoppers") of the United States, Together with the Best Means of Destroying Them.

27. Reports on the Damage by Destructive Locusts During 1901.

29. Report on the Bollworm of Cotton.

32. Reports of Observations and Experiments in the Practical Work of the Division, Made Under the Direction of the Entomologist, 1894.

BULLETINS (NEW SERIES).

[In applying for these bulletins the name of the bureau as well as the number of the bulletin should be given, as "Bureau of Entomology, Bulletin, N. S., No. 3."]

Bul. 3. The San Jose Scale: Its Occurrences in the United States, with a Full Account of Its Life History and the Remedies to be Used Against it.

4. The Principal Household Insects of the United States.

13. Recent Laws Against Injurious Insects in North America, Together with Laws Relative to Foul Brood, 1898.

18. Some Miscellaneous Results of the Work of the Division of Entomology.
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- Bul. 22. Some Miscellaneous Results of the Work of the Division of Entomology.
- 26. Proceedings of the Twelfth Annual Meeting of the Association of Economic Entomologists.
- 27. Some Insects Injurious to the Violet, Rose, and Other Ornamental Plants.
- 28. Insect Enemies of Spruce in the Northeast.
- 29. The Fall Army Worm and Variegated Cutworm.
- 31. Proceedings of the Thirteenth Annual Meeting of the Association of Economic Entomologists.
- 32. Insect Enemies of the Pine in the Black Hills Forest Reserve. An Account of Results of Special Investigations, with Recommendations for Preventing Losses.
- 33. Some Insects Injurious to Vegetable Crops.
- 34. The Principal Insects Liable to be Distributed on Nursery Stock.
- 36. An Index to Bulletins Nos. 1-30 (new series) (1896-1901) of the Division of Entomology.
- 37. Proceedings of the Fourteenth Annual Meeting of the Association of Economic Entomologists.
- 38. Some Miscellaneous Results of the Work of the Division of Entomology.
- 43. A Brief Account of the Principal Insect Enemies of the Sugar Beet.
- 44. Some Miscellaneous Results of the Work of the Division of Entomology.
- 46. Proceedings of the Sixteenth Annual Meeting of the Association of Economic Entomologists.
- 49. Report on the Habits of the Kelep, or Guatemalan Cotton-boll-weevil Ant.
- 52. Proceedings of the Seventeenth Annual Meeting of the Association of Economic Entomologists.
- 53. Catalogue of the Exhibit of Economic Entomology at the Lewis and Clark Centennial Exposition, Portland, Oreg., 1905.
- 54. Some Miscellaneous Results of the Work of the Bureau of Entomology.
- 55. The Rearing of Queen Bees.
- 56. The Black Hills Beetle, with Further Notes on its Distribution, Life History, and Methods of Control.
- 58. Some Insects Injurious to Forests.
 Same, Part 3.—Additional Data on the Locust Borer.
 Same, Part 4.—The Southern Pine Sawyer.
 Same, Part 5.—Insect Depredations in North American Forests and Practical Methods of Prevention and Control.
- 59. Proliferation as a Factor in the Natural Control of the Mexican Cotton Boll Weevil.
- 60. Proceedings of the Eighteenth Annual Meeting of the Association of Economic Entomologists.
- 61. The Laws in Force Against Injurious Insects and Foul Brood in the United States.
- 62. The San Jose or Chinese Scale.
- 63. Papers on the Cotton Boll Weevil and Related and Associated Insects.
 Same, Part 1.—Hibernation and Development of the Cotton Boll Weevil.
 Same, Part 2.—Notes on the Biology of Certain Weevils Related to the Cotton Boll Weevil.
 Same, Part 3.—An Ant Enemy of the Cotton Boll Weevil.

Same, Part 5.—Notes on the Pepper Weevil.

Same, Supplement.—Contents and Index.

Bul. 64. Some Miscellaneous Results of the Work of the Bureau of Entomology.

Part 2.—Notes on the Economic Importance of Sowbugs.

Same, Part 3.—Notes on "Punkies."

Same, Part 4.—An Injurious North American Species of Apion, with Notes on Related Forms.

Same, Part 5.—Insects Injurious to the Loco Weed.

Same, Part 6.—The Greenhouse Thrips.

Same, Part 7.—New Breeding Records of the Coffee-bean Weevil.

Same, Part 9.—Notes on a Colorado Ant.

Same, Supplement.—Contents and Index.

65. The Tobacco Thrips, a New and Destructive Enemy of Shade-grown Tobacco.

66. Some Insects Injurious to Truck Crops. Part 1.—The Asparagus Miner. Notes on the Asparagus Beetles.

Same, Part 4.—The Leafhoppers of the Sugar Beet, and Their Relation to the Curly-leaf Condition.

Same, Part 5.—The Semitropical Army Worm.

Same, Part 6.—The Hop Flea-beetle.

Same, Supplement.—Contents and Index.

68. Papers on Deciduous Fruit Insects and Insecticides. Part 1.—The Pear Thrips.

Same, Part 4.—The Lesser Peach Borer.

Same, Part 9.—The Peach-tree Barkbeetle.

Same, Supplement.—Contents and Index.

69. The Chinch Bug.

70. Report of the Meeting of Inspectors of Apiaries, San Antonio, Tex., November 12, 1906.

71. The Periodical Cicada.

72. Information Concerning the North American Fever Tick, with Notes on Other Species.

73. Studies of Parasites of the Cotton Boll Weevil.

74. Some Factors in the Natural Control of the Mexican Cotton Boll Weevil.

75. Miscellaneous Papers on Apiculture.

Same, Part 1.—Production and Care of Extracted Honey. Methods of Honey Testing for Bee Keepers.

Same, Part 2.—Wax Moths and American Foul Brood.

Same, Part 3.—Bee Diseases in Massachusetts.

Same, Part 4.—The Relation of the Etiology (Cause) of Bee Diseases to the Treatment.

Same, Part 6.—The Status of Apiculture in the United States.

76. Fumigation for the Citrus White Fly, as Adapted to Florida Conditions.

77. Hibernation of the Mexican Cotton Boll Weevil.

78. Economic Loss to the People of the United States through Insects that Carry Disease.

79. Fumigation Investigations in California.

80. Papers on Deciduous Fruit Insects and Insecticides. Part 1.—The Codling Moth in the Ozarks.

Same, Part 4.—The Pear Thrips and Its Control.

Same, Part 7.—The One-spray Method in the Control of the Codling Moth and the Plum Curculio.

- Same, Part 8.—Tests of Sprays against the European Fruit Lecanium and the European Pear Scale.
- Same, Supplement.—Contents and Index.
- Bul. 81. A List of Works on North American Entomology.
82. Some Insects Injurious to Truck Crops. Part 1.—The Colorado Potato Beetle in Virginia in 1908.
- Same, Part 2.—The Parsnip Leaf-miner. The Parsley Stalk Weevil. The Celery Caterpillar.
- Same, Part 3.—The Lima-bean Pod-borer. The Yellow-necked Flea-beetle.
- Same, Part 4.—The Life History and Control of the Hop Flea-beetle.
- Same, Part 5.—Biologic and Economic Notes on the Yellow-bear Caterpillar.
- Same, Part 6.—Notes on the Cucumber Beetles. Biologic Notes on Species of *Diabrotica* in Southern Texas.
83. Practical Information on the Scolytid Beetles. Part 1.—Barkbeetles of the Genus *Dendroctonus*.
84. Fumigation of Apples for the San Jose Scale.
85. Papers on Cereal and Forage Insects. Part 1.—The Lesser Clover-leaf Weevil.
- Same, Part 8.—The Cowpea Curculio.
- Same, Supplement.—Contents and Index.
86. Plant-bugs Injurious to Cotton Bolls.
87. Report on the Field Work Against the Gipsy Moth and the Brown-tail Moth.
88. Preventive and Remedial Work Against Mosquitoes.
89. The Grape Root-worm, with Especial Reference to Investigations in the Erie Grape Belt from 1907 to 1909.
90. Hydrocyanic-acid Gas Fumigation in California. Part 1.—Fumigation of Citrus Trees.
- Same, Part 2.—The Value of Sodium Cyanid for Fumigation Purposes.
- Same, Part 3.—Chemistry of Fumigation with Hydrocyanic-acid Gas.
92. White Flies Injurious to Citrus in Florida.
93. The Sugar-cane Insects of Hawaii.
94. Insects Injurious to Forests and Forest Products. Part 1.—Damage to Chestnut Telephone and Telegraph Poles by Wood-boring Insects.
95. Papers on Cereal and Forage Insects. Part 1.—The Timothy Stem-borer.
- Same, Part 3.—Chinch Bug Investigations West of the Mississippi River.
96. Papers on Insects Affecting Stored Products. Part 1.—The Mexican Grain Weevil. The Siamese Grain Weevil.
- Same, Part 3.—The Lesser Grain-borer. The Larger Grain-borer.
97. Papers on Deciduous Fruit Insects and Insecticides. Part 1.—Spraying Experiments Against the Grape Leafhopper in the Lake Erie Valley.
- Same, Part 2.—Life History of the Codling Moth and Its Control on Pear in California.
- Same, Part 3.—Vineyard Spraying Experiments Against the Rose Chafer in the Lake Erie Valley.
- Same, Part 4.—The California Peach Borer.
- Same, Part 5.—Notes on the Peach and Plum Slug.
99. Papers on Insects Injurious to Citrus and Other Subtropical Fruits. Part 1.—The Orange Thrips.

- Bul. 101. *Calosoma Sycophanta*: Its Life History, Behavior, and Successful Colonization in New England.
104. The Fig Moth.
105. The Rocky Mountain Spotted Fever Tick, with Special Reference to the Problem of Its Control in the Bitter Root Valley in Montana.
109. Papers on Insects Affecting Vegetables. Part 1.—The Southern Beet Webworm.
- Same, Part 2.—The Hawaiian Beet Webworm.

BULLETINS (TECHNICAL SERIES).

[In applying for these bulletins the name of the bureau as well as the number of the bulletin should be given, as "Bureau of Entomology, Bulletin, Tech. Ser., No. 3."]

- Bul. 3. Revision of the *Nematinæ* of North America, a Subfamily of Leaf-feeding Hymenoptera of the Family Tenthredinidæ.
10. The Social Organization and Breeding Habits of the Cotton-protecting Kelep of Guatemala.
12. Miscellaneous Papers. Part 1.—Catalogue of Recently Described Coccidæ.
- Same, Part 2.—Habits and Life Histories of Some Flies of the Family Tabanidæ.
- Same, Part 3.—A Contribution to Our Knowledge of the Thysanoptera of California.
- Same, Part 4.—New Genera and Species of Aphelininæ, with a Revised Table of Genera.
- Same, Part 5.—The More Important Aleyrodidæ Infesting Economic Plants, with Description of a New Species Infesting the Orange.
- Same, Part 6.—A Record of Results from Rearings and Dissections of Tachinidæ.
- Same, Part 7.—The Orange Thrips.
- Same, Part 8.—Biological Studies on Three Species of Aphididæ.
- Same, Part 9.—A New Genus of Aleyrodidæ, with Remarks on *Aleyrodes nubifera* Berger, and *Aleyrodes citri* Riley and Howard.
13. A Revision of the Tyroglyphidæ of the United States.
15. A Revision of the Ixodoidea, or Ticks, of the United States.
16. Papers on Coccidæ or Scale Insects. Part 1.—The National Collection of Coccidæ.
- Same, Part 2.—New Species of Diaspine Scale Insects.
- Same, Part 3.—Catalogue of Recently Described Coccidæ—II.
- Same, Part 4.—Catalogue of Recently Described Coccidæ—III.
17. Contributions Toward a Monograph of Scolytid Beetles. Part 1.—Genus *Dendroctonus*. [With bibliography.]
19. Technical Results from the Gipsy Moth Parasite Laboratory. Part 1.—The Parasites Reared or Supposed to have been Reared from the Eggs of the Gipsy Moth.
- Same, Part 2.—Descriptions of Certain Chalcidoid Parasites.
- Same, Part 3.—Investigations into the Habits of Certain Sarcophagidæ.
20. Technical Papers on Miscellaneous Forest Insects. Part 1.—Contributions Toward a Monograph of the Bark-weevils of the Genus *Pissodes*.
- Same, Part 2.—The Genotypes of the Sawflies and Woodwasps, or the Superfamily Tenthredinoidea.

Same, Part 3.—A Revision of the Powder-post Beetles of the Family Lyctidæ of the United States and Europe.

Same, Part 4.—Studies in the Sawfly Genus *Hoplocampa*.

- Bul. 21. Synopsis, Catalogue, and Bibliography of North American Thysanoptera, with Descriptions of New Species.
22. The Structure of Certain Dipterous Larvæ with Particular Reference to those in the Human Body.
23. Miscellaneous Papers. Part 1.—Some New California and Georgia Thysanoptera.

CIRCULARS.

[In applying for these circulars the name of the bureau as well as the number of the circular should be given, as "Bureau of Entomology, Circular No. 2."]

- Circ. 2. Hop Plant-louse and Remedies to be Used Against it.
4. The Army Worm.
5. The Carpet Beetle, or "Buffalo Moth."
6. The Mexican Cotton-boll Weevil. Spanish edition.
7. The Pear-tree Psylla.
8. The Imported Elm Leaf-beetle.
9. Cankerworms.
12. The Hessian Fly.
14. The Mexican Cotton-boll Weevil. Spanish edition.
16. The Larger Corn Stalk-borer.
18. The Mexican Cotton-boll Weevil. Spanish edition.
20. The Woolly Aphis of the Apple.
21. The Strawberry Weevil.
23. The Buffalo Tree-hopper.
24. The Two-lined Chestnut Borer.
28. The Box-elder Plant-bug.
29. The Fruit-tree Bark-beetle.
31. The Striped Cucumber Beetle.
32. The Larger Apple-tree Borer.
34. House Ants.
36. The True Clothes Moths.
37. The Use of Hydrocyanic-acid Gas for Fumigating Greenhouses and Cold Frames.
38. The Squash-vine Borer.
39. The Common Squash Bug.
43. The Pea Aphis.
46. Hydrocyanic-acid Gas Against Household Insects.
48. The House Centipede.
49. The Silver Fish.
50. The White Ant.
53. The Yellow-winged Locust.
54. The Peach-tree Borer.
56. The Most Important Step in the Cultural System of Controlling the Boll Weevil.
57. The Greenhouse White Fly.
59. The Corn Root-worms.
60. The Imported Cabbage Worm.
61. Black Check in Western Hemlock.
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- Circ. 63. Root-maggots and How to Control Them.
64. The Cottony Maple Scale.
66. The Joint-worm.
68. The Tobacco Thrips and Remedies to Prevent "White Veins" in Wrapper Tobacco.
69. Some Insects Affecting the Production of Red Clover Seed.
70. The Hessian Fly.
72. Key to the Known Larvæ of the Mosquitoes of the United States.
73. The Plum Curculio.
75. Requirements to be Complied with by Nurserymen or Others who Make Interstate Shipments of Nursery Stock.
77. Harvest Mites, or "Chiggers."
79. Brood Diseases of Bees.
80. The Melon Aphis.
81. The Aphides Affecting the Apple.
83. The Locust Borer and Methods for Its Control.
84. The Grasshopper Problem and Alfalfa Culture.
87. The Colorado Potato Beetle.
88. The Terrapin Scale.
92. Mites and Lice on Poultry.
94. The Cause of American Foul Brood.
95. The Most Important Step in the Control of the Boll Weevil. Same. French Edition.
96. The Catalpa Sphinx.
97. The Bagworm.
98. The Apple-tree Tent Caterpillar.
99. The Nut Weevils.
100. Index to Circulars 1 to 100.
101. The Apple Maggot or "Railroad Worm."
102. The Asparagus Beetles.
103. The Harlequin Cabbage Bug.
104. The Common Red Spider.
105. The Rose Slugs.
106. The Wheat Straw-worm.
107. What Can be Done in Destroying the Cotton Boll Weevil During the Winter.
108. House Fleas.
109. The Leopard Moth.
111. Preparations for Winter Fumigation for the Citrus White Fly.
112. Control of the Mediterranean Flour Moth by Hydrocyanic-acid Gas Fumigation.
113. The Chinch Bug.
114. The Euonymus Scale.
115. The Horn Fly.
116. The Larger Corn Stalk-borer.
118. A Predaceous Mite Proves Noxious to Man.
119. The Clover Root-borer.
120. Control of the Brown-rot and Plum Curculio on Peaches.
121. The Oyster-shell Scale and the Scurfy Scale.
123. Methods of Controlling Tobacco Insects.
124. The San Jose Scale and Its Control.
125. Insects Which Kill Forest Trees.
126. Insect Injuries to the Wood of Living Trees.

Circ. 128. Insect Injuries to Forest Products.

129. Insects in Their Relation to the Reduction of Future Supplies of Timber, and General Principles of Control.
130. The Oak Pruner.
131. How to Control the Pear Thrips.
133. The Alfalfa Caterpillar.
134. Damage to Telephone and Telegraph Poles by Wood-boring Insects.
135. The Asparagus Miner.
136. The Distribution of the Rocky Mountain Spotted-fever Tick.
137. The Alfalfa Weevil.
138. The Occurrence of Bee Diseases in the United States.
139. Damage to Sugar Cane in Louisiana by the Sugar-cane Borer.
140. An Annotated Bibliography of the Mexican Cotton Boll Weevil.
141. The Mango Weevil.
142. The Indian Meal Moth and "Weevil-cut" Peanuts.
143. Insect Damage to Standing Timber in the National Parks.
144. The Dying Hickory Trees: Cause and Remedy.
146. The Movement of the Cotton Boll Weevil in 1911.

MISCELLANEOUS.

[In applying for these publications the name of the bureau and the full title of the pamphlet should be given.]

Bibliography of the More Important Contributions to American Economic Entomology. Part 5.—The More Important Writings of Government and State Entomologists and of Other Contributors to the Literature of American Economic Entomology. L-Z.

Same. Part 6.—The More Important Writings Published between June 30, 1888, and December 30, 1896.

Same. Part 7.—The More Important Writings Published Between December 31, 1896, and January 1, 1900.

Same. Part 8.—The More Important Writings Published Between December 31, 1899, and January 1, 1905.

Report upon Cotton Insects.

Catalogue of the Exhibit of Economic Entomology at the World's Industrial and Cotton Centennial Exposition, New Orleans, 1884-85.

The Plum Plant-louse.

A Destructive Borer Enemy of Birch Trees.

A Partial List of the Coccidæ in Ohio.

National Control of Introduced Insect Pests.

Report of Committee on Nomenclature.

The Horn Fly.

Some Observations on the Spined Soldier Bug.

Jarring for the Curculio on an Extensive Scale in Georgia, with a List of the Insects Caught.

The Ox Bot in the United States.

The Corn Root-aphis and Its Attendant Ant.

Further Notes on the San Jose Scale.

Report on the Mexican Cotton-boll weevil in Texas.

A New Coccid on Birch.

The San Jose Scale on Dried Fruit.

Insect Enemies of the White Pine.

Insects Affecting the Cotton Plant.

The Southern Grain Louse.
 The Tobacco Stalk Weevil.
 The Chestnut Weevils, with Notes on Other Nut-feeding Species.
 Insect Photography.
 State and Territorial Laws Relative to Foul Brood.
 Practical Information on the Dendroctonus Enemies of North American Forests.
 The Western Pine Beetle. The Southwestern Pine Beetle. The Roundheaded Pine Beetle.
 The Southern Pine Beetle.
 The Mountain Pine Beetle. The Black Hills Beetle. The Jeffrey Pine Beetle.
 The Redwinged Pine Beetle. The Lodgepole Pine Beetle. The Allegheny Spruce Beetle. The European Spruce Beetle.
 The Black Turpentine Beetle. The Red Turpentine Beetle.
 The Arizona Pine Beetle. The Smaller Mexican Pine Beetle. The Larger Mexican Pine Beetle. The Colorado Pine Beetle.
 The Eastern Spruce Beetle. The Engelmann Spruce Beetle. The Alaska Spruce Beetle. The Sitka Spruce Beetle.
 The Eastern Larch Beetle. The Douglas Fir Beetle.

FARMERS' BULLETINS.

[The Farmers' Bulletins are a series of popular treatises issued by the Department of Agriculture. The following list includes only numbers contributed by the Bureau of Entomology and should be applied for by number, as "Farmers' Bulletin No. 99."]

- F. B. 99. Three Insect Enemies of Shade Trees.
 120. Insects Affecting Tobacco.
 127. Important Insecticides.
 155. How Insects Affect Health in Rural Districts.
 172. Scale Insects and Mites on Citrus Trees.
 178. Insects Injurious in Cranberry Culture.
 196. Usefulness of the American Toad.
 209. Controlling the Boll Weevil in Cotton Seed and at Gineries.
 223. Miscellaneous Cotton Insects in Texas.
 264. The Brown-tail Moth and How to Control It.
 275. The Gipsy Moth and How to Control It.
 283. Spraying for Apple Diseases and the Codling Moth in the Ozarks.
 284. Insect and Fungous Enemies of the Grape East of the Rocky Mountains.
 290. The Cotton Bollworm.
 344. The Boll Weevil Problem, with Special Reference to Means of Reducing Damage.
 440. Spraying Peaches for the Control of Brown-rot, Scab, and Curculio.
 442. The Treatment of Bee Diseases.
 444. Remedies and Preventives Against Mosquitoes.
 447. Bees.
 450. Some Facts About Malaria.
 453. Danger of General Spread of the Gipsy and Brown-tail Moths Through Imported Nursery Stock.
 459. House Flies.
 476. The Dying of Pine in the Southern States: Cause, Extent, and Remedy.

SEPARATE REPRINTS FROM THE YEARBOOK.

[In applying for these publications the number of the separate should be given, as "Yearbook Separate 196."]

- Ybk. Sep. 196. Smyrna Fig Culture in the United States.
248. Experimental Work with Fungous Diseases of Grasshoppers.
355. Insect Injuries to Forest Products.
360. The Annual Loss Occasioned by Destructive Insects in the United States.
386. The Principal Insect Enemies of the Peach.
400. The Codling Moth or Apple Worm.
425. Some Recent Studies of the Mexican Cotton Boll Weevil.
472. The Principal Injurious Insects of the Year 1907.
480. Information about Spraying for Orchard Insects.
531. Some of the More Important Ticks of the United States.
537. Insect Enemies of Tobacco in the United States.
542. Injuries to Forests and Forest Products by Roundheaded Borers.

Approved:

JAMES WILSON,

Secretary of Agriculture.

[Cir. 16]