LIBRARY OF THE
UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

no. 66 - 99

NATURAL HISTORY
SURVEY

The Literature of Arthropods Associated with Soybeans

III. A BIBLIOGRAPHY OF THE BEAN LEAF BEETLES

Cerotoma trifurcata (Forster) and *C. ruficornis* (Olivier)
(Coleoptera: Chrysomelidae)

M. P. NICHOLS • M. KOGAN • G. P. WALDBAUER

Biological Notes No. 85

ILLINOIS NATURAL HISTORY SURVEY
Urbana, Illinois – February, 1974

STATE OF ILLINOIS
Department of Registration and Education
Natural History Survey Division

The Literature of Arthropods Associated with Soybeans

III. A BIBLIOGRAPHY OF THE BEAN LEAF BEETLES

Cerotoma trifurcata (Forster) and *C. ruficornis* (Olivier)
(Coleoptera: Chrysomelidae)

TWO SPECIES of the genus *Cerotoma* Chevrolat, 1837,¹ are important agricultural pests and have become significant elements of the arthropod fauna associated with soybeans in the New World. *C. trifurcata* (Forster, 1771)² is the only species of the genus known to attack soybeans in the continental United States, while *C. ruficornis* (Olivier, 1791)³ occurs primarily south of the United States.

Both species are well defined taxonomically, and despite considerable variation in their color and pattern the synonymy is not extensive. The primary synonyms of *C. trifurcata* are *C. caminea* (Fabricius, 1801),⁴ which appears frequently in the literature, and *C. fibulata* (Germar, 1824)⁵. Barber (1945)⁶ lists *C. denticornis* (Fabricius, 1792)⁷ and *C. sexpunctatus*

(Horn, 1872)⁸ as the synonyms of *C. ruficornis*. Herzog (1968)⁹ made a detailed study of the color variations of *C. trifurcata*.

The distribution of each species is known only in general terms. *C. trifurcata* is found from southern Canada to the Gulf states, extending from the Atlantic coast westward to South Dakota in the north and to Arizona in the south. It is also found in Puerto Rico. *C. ruficornis* is widely distributed in the West Indies and, on the mainland, occurs in Florida and Texas and from Mexico to northern Venezuela.

Bean leaf beetles damage several growth stages of soybeans, with the amount of damage varying from region to region according to the phenology of the beetles and their host plants. The larvae feed on the

¹ See entry 97 in the bibliography.

² See entry 121 in the bibliography.

³ See entry 256 in the bibliography.

⁴ See entry 114 in the bibliography.

⁵ See entry 130 in the bibliography.

⁶ See entry 32 in the bibliography.

⁷ See entry 113 in the bibliography.

⁸ See entry 161 in the bibliography.

⁹ See entry 154 in the bibliography.

This paper is published by authority of the State of Illinois, IRS Ch. 127, Par. 58.12. M. P. Nichols is a Research Associate, International Programs and Studies, University of Illinois. Dr. M. Kogan is an Associate Entomologist at the Illinois Natural History Survey and Associate Professor at the University of Illinois College of Agriculture. Dr. G. P. Waldbauer is a Professor of Entomology and of Agricultural Entomology at the University of Illinois.

This paper is a contribution of the Illinois Soybean Entomology Team with support from the Illinois Natural History Survey, the University of Illinois International Soybean Program (INTSOY), the University of Illinois Departments of Entomology and Horticulture, the Illinois Agricultural Experiment Station and the U.S. Department of Agriculture through the regional project S-74, the U.S. Agency for International Development, and National Science Foundation Grant GB-34718, Soybean Sub-project.

Illinois Soybean Entomology Team:

E. J. ARMBRUST — Biology, Ecology, and Control
J. K. BOUSEMAN — Taxonomy
B. J. FORD — Information Storage and Retrieval
G. L. GODFREY — Taxonomy
E. R. JAYCOX — Pollination
M. KOGAN — Host Selection and Nutrition
W. H. LUCKMANN — Pest Management
M. P. NICHOLS — Information Storage and Retrieval
P. W. PRICE — Community Ecology
S. J. ROBERTS — Biology and Control
W. G. RUESINK — Ecology, Systems Analysis
D. K. SELL — Population Genetics
L. J. STANNARD — Taxonomy
G. P. WALDBAUER — Bionomics

subterranean parts and adults feed on the foliage and sometimes on the green pods. The information outlined below is based largely on accounts of the behavior of *C. trifurcata*. However, it is likely that the behavior of *C. ruficornis* differs only in detail.

C. trifurcata has two or three complete generations per year throughout its geographic range. Thus, an abundance of adults may coincide with three stages of plant growth. In the Midwest, overwintered adults may invade soybean fields soon after germination and may destroy large numbers of seedlings. Replanting occasionally has been necessary. Adults of the first generation are usually present during the period of strong vegetative growth. They feed almost exclusively on the leaves, and economic damage due to feeding *per se* results only when populations are extremely high. However, *C. trifurcata* also transmits the bean pod mottle virus. The effect of this virus on yield is not clear, but there is evidence that when multiple infections occur it may have a synergistic relationship with the soybean mosaic virus. *C. ruficornis* is known to transmit the cowpea mosaic virus. Adults of the last generation may accumulate in late maturing fields and attack green pods. In such cases the yield is directly affected.

Intercrop relationships are an important factor to be considered in pest-management programs involving the bean leaf beetles. Isely (1942)¹⁰ reported that in Arkansas enormous populations of adult *C. trifurcata* developed on soybeans. Snapbeans for the fall market were planted in midsummer and were still green when the early-planted soybeans were losing their leaves and nearing maturity. The smaller acreages of snapbeans were then suddenly flooded with large numbers of beetles emigrating from the soybean fields.

At least four additional species of *Cerotoma* are known to be associated with soybeans or other grain legumes in South America. *C. facialis* Erickson, 1847,¹¹ and *C. salvini* Baly, 1866,¹² are known from Panama, Colombia, and Peru; *C. [Andrector] ruficollis* (Fabricius, 1801)¹³ and *C. unicornis* (Germar, 1824)¹⁴ are known from Brazil. Published information on these species consists of little more than the original descriptions and listings in faunistic surveys and systematic catalogues. The pertinent literature on the Brazilian species up to December 1962 may be found in Silva et al. (1967)¹⁵.

This bibliography follows closely the format and style of the two previous publications in this series.¹⁶ Sources of the entries listed were primarily *Biological Abstracts*, *The Review of Applied Entomology Series A*, *Bio-Research Index*, *Biological and Agricultural Index*, *Index to the Literature of American Economic Entomology*, and references cited in articles and inquiries to researchers. All entries except No. 121 were examined. The references are listed alphabetically by author and numbered consecutively. The numbers are arranged in a table (see pages 8 and 9) according to subject and period of publication. A reference may be listed under more than one subject. References which apply to *C. trifurcata* are tabulated by number in lightface type. Those which apply to *C. ruficornis* follow and are in boldface type. References which refer to both species will appear twice under a heading.

Interested researchers are urged to consult the USDA *Cooperative Economic Insect Report* and the USDA *Insect Pest Survey Bulletin* for further information concerning *C. trifurcata*.

SIRIC (Soybean Insect Research and Information Center, Illinois Natural History Survey and University of Illinois at Urbana-Champaign) has developed a series of computer programs which make possible more detailed searches of the literature according to subject matter. All citations in this bibliography are stored on tape, and can be retrieved through a series of key words which define categories considerably more refined than those listed in the table on pages 8 and 9. The computerized information system greatly increases the usefulness of the printed bibliographies, and the two together are an important part of the effort of the Illinois Soybean Entomology Team to search out, compile, and organize for ready access the ever-increasing information on soybean entomology for the benefit of all professionals working in this area.

Abbreviations and complete titles of the sources which appear in the bibliographic entries are to be found in a listing at the end of the paper.

We are grateful to Dr. Donald C. Herzog, Department of Entomology, Louisiana State University, for making his bibliography on *Cerotoma* available to us. Mrs. Jo Ann Auble typed the introduction and Mr. Raymond Kotek typed the bibliography and did portions of the bibliographic search. Mr. O. F. Glissendorf edited the manuscript and Mr. Lloyd LeMere designed the cover which shows a photograph by Mr. Wilmer Zehr. Their collaboration is gratefully acknowledged.

¹⁰ See entry 174 in the bibliography.

¹¹ Erickson, G. F. 1847. *Conspicui insectorum Coleopterorum quae in Republica Peruana observata sunt*. Arch. Naturgesch. 13(1): 67-185.

¹² Baly, G. F. 1866. New genera and species of *Gallerucinae*. Trans. Entomol. Soc. London (Ser. 3): 2:471-478.

¹³ See entry 114 in the bibliography.

¹⁴ See entry 130 in the bibliography.

¹⁵ Silva, A. et al. 1967-1968. *Quarto catalogo dos insetos que vivem nas plantas do Brasil seus parasitos e predadores*. Ministerio da Agricultura, Rio de Janeiro, Brazil, 2 vols.

¹⁶ Nichols, M. P., and M. Kogan. 1972. The literature of arthropods associated with soybeans. I. A bibliography of the Mexican bean beetle, *Epilachna varivestris* Mulsant (Coleoptera: Coccinellidae). Ill. Natur. Hist. Surv. Biol. Notes 77. 20 p.

DeWitt, N. B., and G. L. Godfrey. 1972. The literature of arthropods associated with soybeans. II. A bibliography of the southern green stink bug, *Nezara viridula* (Linnaeus) (Homiptera: Pentatomidae). Ill. Natur. Hist. Surv. Biol. Notes 78. 23 p.

BIBLIOGRAPHY

1. ANONYMOUS. 1908. Insects injurious to truck crops. U.S. Dep. Agr. Yearb. 1908:570-574.
2. _____. 1935. Lima beans. Ala. Agr. Exp. Sta. Leaflet. 14. 4 p.
3. _____. 1943. Notes on insect pests. In: Annual report of the Director for the fiscal year ending June 30, 1943. Del. Agr. Exp. Sta. Bull. 244:22-23.
4. _____. 1947. Root crops and legumes in the Caribbean. Caribb. Res. Coun. Crop Inq. Ser. No. 4. 128 p. illus. maps.
5. _____. 1952. Beans have pests like other crops. Soybean Dig. 12(10):26.
6. _____. 1953. Entomology. Tenn. Agr. Exp. Sta. Annu. Rep. 66:33-34.
7. _____. 1953. You can control all known pests—by starting in time. Soybean Dig. 13(9):10-11. illus. refs.
8. _____. 1955. Control soybean insects. Va. Polytech. Inst. Agr. Ext. Serv. Circ. 648. 4 p. illus.
9. _____. 1957. Insect pests of soybeans and their control. Soybean Dig. 17(10):16-18, 20. illus. refs.
10. _____. 1960. Control of insect pests. Soybean Dig. 20(8):14-16. illus.
11. _____. 1960. These are some pests that damage soybeans. Recommended measures for their control. Soybean Dig. 20(8):16-19. illus. refs.
12. _____. 1961. Corn earworm was important pest in 1960. Soybean Dig. 21(7):16. maps.
13. _____. 1967. Soybeans, great crop but with problems. Mo. Agr. Exp. Sta. Bull. 869:10-11. illus.
14. _____. 1970. Soybean virus disease vectors. Miss. Agr. Forest. Exp. Sta. Annu. Rep. 83:33.
15. _____. 1971. Soybean virus-insect studies. Miss. Agr. Forest. Exp. Sta. Annu. Rep. 84:35.
16. ALLEN, W. C., M. L. BOBB, J. M. GRAYSON, J. E. ROBERTS, W. H. ROBINSON, and J. A. WEEHHAAS. 1972. 1972 Virginia insect control guide. Va. Polytech. Inst. Ext. Div. Contr. Ser. 141. 118 p. illus. maps.
17. ANDERSON, C. W. 1956/1957. Virus diseases of cucurbits and other vegetables in central Florida. Fla. Agr. Exp. Sta. Annu. Rep. 1956/1957:125-126.
18. _____. 1959. Vigna and crotalaria viruses in Florida. V. Comparative transmission tests with aphids and beetles. Phytopathology 49(2):117-118. refs.
19. ARANGO Y MESTRE, O. 1942. El cultivo del frijol negro. Agronomía (Havana) (n.s.) 2:469-474.
20. BALDUF, W. V. 1923. The insects of the soybean in Ohio. Ohio Agr. Exp. Sta. Bull. 366:147-181. illus. refs.
21. BARBER, H. S. 1945. Note on *Cerotoma* and *Andrector* (Coleoptera, Chrysomelidae). Bull. Brooklyn Entomol. Soc. 40(4):121-122. refs.
22. _____. and J. C. BRIDWELL. 1940. Dejean catalogue names (Coleoptera). Bull. Brooklyn Entomol. Soc. 35(1):1-12. refs.
23. BARNES, G., and B. F. JONES. 1970. Control insects on soybeans. Arkansas Agr. Ext. Serv. Leaflet. 193 (Rev.). 5 p. illus.
24. _____. and W. D. WYLIE. 1956. Insects of southern field peas. Arkansas Agr. Ext. Serv. Leaflet. 231. 6 p.
25. BARNHART, F. 1954. Soybean insects and their control. In: Soybeans. Floyd Barnhart, Caruthersville, Mo. p. 171-196. illus. refs.
26. BARRE, H. W. 1928/1929. Studies of insect pests. S. C. Agr. Exp. Sta. Annu. Rep. 42:57-70. illus.
27. _____. and A. F. CONRADT. 1909. Treatment of plant diseases and injurious insects in South Carolina. S. C. Agr. Exp. Sta. Bull. 141. 52 p. illus.
28. BARRETT, O. W. 1902/1903. Report of O. W. Barrett, Entomologist and Botanist. In: Annual report of the Porto Rico Agricultural Experiment Station for 1903. Annu. Rep. Off. Exp. Stas. 1902/1903:429-450.
29. BECHYNÉ, J. 1956. Reise des Herrn G. Frey in Sudamerika: Galerucidae (Col. Phytophaga). Entomol. Arb. 7(1):241-358. refs.
30. BISSELL, T. L. 1934/1935. Entomology. Ga. Exp. Sta. Annu. Rep. 47:24-30. illus.
31. _____. and M. DUPREE. 1947. Vegetable insect pests. Ga. Exp. Sta. Bull. 254. 21 p. illus.
32. BLACKWELDER, R. E. 1944-1957. Checklist of the Coleopterous insects of Mexico, Central America, the West Indies, and South America. U.S. Nat. Mus. Bull. 185. 1492 p. refs.
33. BLATCHLEY, W. S. 1910. On the Coleoptera known to occur in Indiana. W. B. Burford, Indianapolis. 1386 p. illus. refs.
34. _____. 1924. The Chrysomelidae of Florida. Fla. Entomol. 8(1):1-7.
35. BLICKENSTAFF, C. C., and J. L. HUGGANS. 1962. Soybean insects and related arthropods in Missouri. Mo. Agr. Exp. Sta. Res. Bull. 803. 51 p. illus. refs.
36. BÖVING, A. G. 1930. Description of the larva of *Cerotoma trifurcata* Forster (Coleoptera: Chrysomelidae). Proc. Entomol. Soc. Wash. 32(4):51-59. illus. refs.
37. BOYER, W. P., J. R. BUTTRAM, C. E. WHITE, and H. B. PETTY. 1962. Losses and production costs attributed to insects and other arthropods attacking soybeans. Coop. Econ. Insect Rep. 12(46):1194. illus.
38. BRANNEN, C. O. 1934. Forage, hay, and pasture. In: Summary of research, 1887-1933, Forty-fifth annual report. Arkansas Agr. Exp. Sta. Bull. 297:53-63. illus.
39. BRANNON, L. W. 1936. Derris root sprays effective against bean leaf beetle. U.S. Dep. Agr. Bur. Entomol. Plant Quar. News Let. 3(7):18.
40. _____. 1939. Insecticide treatments against bean leaf beetle not practical. U.S. Dep. Agr. Bur. Entomol. Plant Quar. News Let. 6(10):19.
41. _____. 1940. Derris-pyrethrum-sulfur dust mixture effective against bean leaf beetle and associated insects on beans. Ext. Entomol. 4(4):15.
42. BRETT, C. H. 1946. Insecticidal properties of the indigobush (*Amorpha fruticosa*). J. Agr. Res. 73(3):81-96. illus. refs.
43. BRIMLEY, C. S. 1938. The insects of North Carolina. North Carolina Department of Agriculture, Division of Entomology, Raleigh. 560 p.
44. BRITTON, W. E. 1918. The bean leaf beetle, *Cerotoma trifurcata* Forst. In: Eighteenth report of the State Entomologist of Connecticut for the year 1918. Conn. Agr. Exp. Sta. Bull. 211:327-329. refs.
45. _____. 1920. Check-list of the insects of Connecticut. Conn. State Geol. Natur. Hist. Surv. Bull. 31. 397 p. refs.
46. _____. 1933. Plant pest handbook for Connecticut. I. Insects. Conn. Agr. Exp. Sta. Bull. 344. 182 p. illus.
47. BROWN, H. E., L. JENKINS, P. C. STONE, C. W. WINGO, and R. E. LUSK. 1956. Investigation of the biology and control of field crop insects. Mo. Agr. Exp. Sta. Bull. 676: 62-63. illus.
48. _____. P. C. STONE, L. JENKINS, and L. HASEMAN. 1960. Project 102—Investigations of the biology and control of field crop insects other than corn insects with special emphasis on the Hessian fly, grasshoppers, soil insecticides and primary soybean insects. Mo. Agr. Exp. Sta. Bull. 747:53-54.

49. BRUNER, S. C. 1929/1930. Insectos y enfermedades de las habas de lima. Santiago de las Vegas, Cuba Estac. Exp. Agron. Informe Dep. Entomol. Fitopatol. 1929/1930:11-40. illus. refs.
50. ———. 1935. La maruca y otros insectos de las habas de lima. Santiago de las Vegas, Cuba Estac. Exp. Agron. Bol. 56. 52 p. illus. refs.
51. ———, and B. F. VALDES. 1953. Medios de combatir los principales insectos que atacan a las hortalizas. Santiago de las Vegas, Cuba Estac. Exp. Agron. Circ. 88. 85 p. illus.
52. BURKHOLDER, W. H., and I. M. HAWLEY. 1923. Diseases, and insects and animal pests, of the field bean in New York. Cornell Ext. Bull. 53. 38 p. illus.
53. BURLEIGH, J. G. 1972. Population dynamics and biotic controls of the soybean looper in Louisiana. Environ. Entomol. 1(3):290-294. illus. refs.
54. CHANT, S. R. 1959. Viruses of cowpea, *Vigna unguiculata* L. (Walp.), in Nigeria. Ann. Appl. Biol. 47(3):565-572. illus. refs.
55. ———. 1962. Further studies on the host range and properties of Trinidad cowpea mosaic virus. Ann. Appl. Biol. 50(1):159-162. illus. refs.
56. CHAPUIS, F. 1875. Famille des Phytophages. In: T. Lacordaire and F. Chapuis, Histoire naturelle des insectes. Genera des Coléoptères. La Librairie Encyclopédique de Roret, Paris. Tome 11. 420 p. refs.
- 56a. CHEVROLAT, L. A. A. 1837. See: DEJEAN, P. F. M. A. 1837. Catalogue des Coléoptères de la collection de M. le comte Dejean. p. 403.
- 56b. CHEVROLAT, L. A. A. 1843. See: D'ORBIGNY, C. 1843. Dictionnaire universel d'histoire naturelle. p. 342.
57. CHITTENDEN, F. H. 1892. Notes on the food habits of some species of Chrysomelidae. Proc. Entomol. Soc. Wash. 2(2):261-267.
58. ———. 1897. The bean leaf-beetle. U.S. Dep. Agr. Div. Entomol. Bull. (n.s.) 9:64-71. illus.
59. ———. 1898. Insects injurious to beans and peas. U.S. Dep. Agr. Yearb. 1898:233-260. illus.
60. ———. 1900. Insects and the weather: Observations during the season of 1899. U.S. Dep. Agr. Div. Entomol. Bull. (n.s.) 22:51-64.
61. ———. 1900. Some insects injurious to garden crops. U.S. Dep. Agr. Div. Entomol. Bull. (n.s.) 23. 92 p. illus. refs.
62. ———. 1901. Insects and the weather during the season of 1900. U.S. Dep. Agr. Div. Entomol. Bull. (n.s.) 30:63-75.
63. ———. 1902. Some insects injurious to vegetable crops. U.S. Dep. Agr. Div. Entomol. Bull. (n.s.) 33. 117 p. illus.
64. ———. 1907. Insects injurious to vegetables. Orange Judd Company, New York. 262 p. illus. refs.
65. CHUPP, C., and R. W. LEBY. 1951. The control of diseases and insects affecting vegetable crops. Cornell Ext. Bull. 206 (Rev.). 105 p. illus.
66. CONNER, J. T., Jr. 1948. Vegetable insect control in North Carolina. N. C. Agr. Ext. Serv. Ext. Circ. 313. 19 p. illus.
67. COOK, M. T. 1935. Index of the vectors of virus diseases of plants. J. Agr. Univ. P. R. 19(3):407-420.
68. CORY, E. N. 1914. Insect pests of 1914. Rep. Md. State Hort. Soc. Annu. Meet. 17:102-112. illus. refs.
69. ———, G. S. LANGFORD, and J. J. CHISHOLM, II. 1944. Destructive insects of vegetable crops. Md. Ext. Serv. Bull. 102. 38 p. illus.
70. COTTON, R. T. 1915/1916. Report on tobacco and vegetable insects. P. R. Bd. Commr. Agr. Rep. 5:86-99. illus. refs.
71. ———. 1918. Insectos que atacan las hortalizas en Puerto Rico. Rev. Agr. P. R. 1(4):150-165. illus.
72. ———. 1918. Insects attacking vegetables in Porto Rico. J. Dep. Agr. P. R. 2(4):265-313. illus.
73. CRAIG, W. S., J. L. HUGGANS, L. L. PETERS, and G. W. THOMAS. 1972. 1972 Missouri insect control recommendations for use in 1972 only. University of Missouri Cooperative Extension Service, Columbia. 153 p. illus.
74. CROSBY, C. R., and M. D. LEONARD. 1918. Manual of vegetable garden insects. The MacMillan Company, New York. 391 p. illus. refs.
75. DALE, W. T. 1943. Preliminary studies of the plant viruses of Trinidad. Trop. Agr. 20(12):228-235. illus. refs.
76. ———. 1949. Observations on a virus disease of cowpea in Trinidad. Ann. Appl. Biol. 36(3):327-333. illus. refs.
77. ———. 1953. The transmission of plant viruses by biting insects, with particular reference to cowpea mosaic. Ann. Appl. Biol. 40(2):384-392. illus. refs.
78. DAVIDSON, R. H., and L. M. PEAIRS. 1966. Insect pests of farm, garden, and orchard. John Wiley & Sons, Inc., New York. 6th ed. 675 p. illus. refs.
79. DAVIS, J. J. 1926. Insects of Indiana for 1926. Proc. Indiana Acad. Sci. 36:293-308. illus.
80. ———. 1936. Insects of Indiana for 1936. Proc. Indiana Acad. Sci. 46:230-239. illus.
81. ———. 1944. Current insect problems. Indiana Farmers Guide 100(13):19.
82. ———. 1950. Insects of Indiana for 1950. Proc. Indiana Acad. Sci. 60:178-182.
83. ———. 1951. Insects of Indiana during 1951. Proc. Indiana Acad. Sci. 61:148-151.
84. ———. 1953. Insects of Indiana in 1953. Proc. Indiana Acad. Sci. 63:152-156.
85. ———. 1954. Insects of Indiana in 1954. Proc. Indiana Acad. Sci. 64:121-126.
86. ———. 1955. Insects of Indiana in 1955. Proc. Indiana Acad. Sci. 65:107-110.
87. ———. 1956. Insects of Indiana in 1956. Proc. Indiana Acad. Sci. 66:104-107.
88. DEAN, G. A., R. C. SMITH, and E. G. KELLY. 1945. The fourteenth or 1944 annual insect population summary of Kansas. J. Kans. Entomol. Soc. 18(3):85-99. illus.
89. DEARBORN, F. E. 1938. The arsenates of magnesium as insecticides. (A review of the literature.) U.S. Dep. Agr. Bur. Entomol. Plant Quar. E-451. 42 p. illus. refs.
90. DEBROT, C. E., and C. E. BENITEZ DE ROJAS. 1967. El virus del mosaico del frijol, *Vigna sinensis* Endl., (Cowpea mosaic virus) en Venezuela. Agron. Trop. (Maracay) 17(1):3-15. illus. refs.
91. DEJEAN, P. F. M. A. 1837. Catalogue des Coléoptères de la collection de M. le comte Dejean. Chez Méquignon-Marvis Père et Fils, Paris. 3rd ed. 503 p.
92. DIAZ, A. J. 1972. Estudio y caracterización de un mosaico del frijol de costa (*Vigna sinensis*) en El Salvador. Phytopathology 62(7):754.
93. DILLON, E. S., and L. S. DILLON. 1961. A manual of the common beetles of eastern North America. Row, Peterson & Co., Evanston, Ill. 884 p. illus. refs.
94. DITMAN, L. P., and E. N. CORY. 1948. Liquefied gas aerosols to control bean beetles. J. Econ. Entomol. 41(2):268-275. illus. refs.
95. ———, H. B. OWENS, and F. P. HARRISON. 1957. Experiments with sprays, dust, and aerosols for the home garden. J. Econ. Entomol. 50(3):324-328. illus. refs.

96. ———, C. R. ROSENBERGER, and F. P. HARRISON. 1954. Spraying for control of bean insects. *J. Econ. Entomol.* 47(4):600-603. illus. refs.
97. D'ORIGNY, C. 1843. *Dictionnaire universel d'histoire naturelle*. L. Houssiaux et Cie, Paris. Tome 3. 744 p. refs.
98. DOZIER, H. L. 1918. An annotated list of Gainesville, Florida, Coleoptera. *Entomol. News* 29(8-10):295-298, 331-335, 370-374.
99. ———. 1922. An annotated list of Mississippi Chrysomelidae. *Ohio J. Sci.* 22(4):117-124.
100. DRAKE, C. J., and O. E. TAUBER. 1942/1943. Emergency insect investigations. *Iowa Agr. Exp. Sta. Rep. Agr. Res.* 1942/1943. Part 1. p. 156-158.
101. DUPREE, M. 1970. Control of thrips and the bean leaf beetle on lima beans with systemic insecticides. *J. Ga. Entomol. Soc.* 5(1):48-52. illus. refs.
102. DYSAERT, R. J., and D. W. CHAMBERLAIN. 1960. Studies on transmission of tobacco ringspot virus on soybean and weed suspects. *Plant Dis. Rep.* 44(12):952-954. illus. refs.
103. ECKENRODE, C. J., and L. P. DITMAN. 1963. An evaluation of potato leafhopper damage to lima beans. *J. Econ. Entomol.* 56(5):551-553. illus. refs.
104. EDDY, C. O. 1940. Cryolite as an insecticide. *La. Agr. Exp. Sta. Bull.* 323:3-5.
105. ———. 1941/1942. Cryolite necessary for effective soybean seed production. *La. Agr. Exp. Sta. Annu. Rep.* 1941/1942:74.
106. ———. 1942. Cryolite as an insecticide. No. 2. *La. Agr. Exp. Sta. Bull.* 350:9-11.
107. ———, and W. H. CLARKE. 1929. The Mexican bean beetle, 1927-1928. *S. C. Agr. Exp. Sta. Bull.* 258. 42 p. illus. refs. maps.
108. ———, and L. C. McALISTER, JR. 1927. The Mexican bean beetle. *S. C. Agr. Exp. Sta. Bull.* 236. 38 p. illus. refs.
109. ———, and W. C. NETTLES. 1930. The bean leaf beetle. *S. C. Agr. Exp. Sta. Bull.* 265. 25 p. illus. refs.
110. EDWARDS, W. H. 1930. Insect pests of sweet potato and of cassava in Jamaica. *Jamaica Dep. Agr. Entomol. Bull.* 5. 12 p. illus.
111. ESSIG, E. O. 1926. *Insects of western North America*. The MacMillan Company, New York. 1035 p. illus. refs.
112. EVANS, W. 1968. Fighting the pests that eat soybean profits. *Farm Quart.* 23(2):102-105, 117-120. illus. refs.
113. FABRICIUS, J. C. 1792. *Entomologia systematica*. Impensis Christ. Gottl. Proft., Hafniae. Tom. 1, Pars 2. p. 1-538. refs.
114. ———. 1801. *Systema eleutheratorum*. Impensis Bibliopolii Academici Novi, Kiliae. Tom. 1. 506 p.
115. FALTER, J. 1969. Soybean insect control. *N. C. State Univ. Agr. Ext. Serv. Insect Notes, Grain & Soybeans*, Note No. 1. 6 p. illus.
116. FATTIG, P. W. 1948. The Chrysomelidae or leaf beetles of Georgia. *Emory Univ. Mus. Bull.* 6. 47 p.
117. FENTON, A., *Comp.* 1936. The use of sulphur in the control of truck crop and cane fruit insects and diseases. *Texas Gulf Sulphur Company, Houston, Texas.* 86 p. refs.
118. ———, and S. W. CLARK, *Comps.* 1943. The use of sulphur in the control of truck crop and cane fruit insects and diseases. *Texas Gulf Sulphur Company, Houston, Texas. Rev. ed.* 85 p. illus. refs.
119. FLEUTIAUX, E., and A. SALLÉ. 1889. Liste des Coléoptères de la Guadeloupe et descriptions d'espèces nouvelles. *Ann. Soc. Entomol. Fr. (Ser. 6)* 9:351-484. refs. maps.
120. FOLSOM, J. W. 1936. Additional notes on little-known cotton insects. *J. Econ. Entomol.* 29(6):1066-1068.
121. FORSTER, J. R. 1771. *Novae species insectorum*, Centuria I. London. 100 p.
122. FREITAG, J. H. 1956. Beetle transmission, host range, and properties of squash mosaic virus. *Phytopathology* 46(2):73-81. illus. refs.
123. FRENCH, J. C., and M. P. NOLAN, JR. 1971. Soybean insects and their control. *Ga. Coop. Ext. Serv. Leaflet* 29 (Rev.). 2 p. illus.
124. FRONK, W. D. 1950. Cultural and biological control of the southern corn rootworm in peanuts. *J. Econ. Entomol.* 43(1):22-24. illus. refs.
125. ———. 1962. Vegetable crop insects. In: R. E. Pfadt, *Fundamentals of applied entomology*. The MacMillan Company, New York. p. 346-375. illus. refs. maps.
126. FUNCHES, M. J. 1935. Lima beans. *Ala. Agr. Exp. Sta. Leaflet* 14. 4 p. illus.
127. GAMEZ, R. 1972. Some properties and beetle transmission of bean yellow stipple virus. *Phytopathology* 62(7):759.
128. GARCIA, F. 1908. Injurious insects. *N. Mex. Agr. Exp. Sta. Bull.* 68. 63 p. illus.
129. GEMMINGER, D., and B. DE HAROLD. 1876. *Catalogus Coleopterorum hucusque descriptorum synonymicus et systematicus*. Sumptu Theodor Ackermann, Monachii. Tom. 12. p. 3479-3822. refs.
130. GERMAR, E. F. 1824. *Coleopterorum species novae aut minus cognitae, descriptionibus illustratae*. (Insectorum species novae aut minus cognitae, descriptionibus illustratae.) J. C. Hendelii et Filii, Halae. 624 p.
131. GILBERT, W. W., and C. H. POPENOE. 1919. Diseases and insects of the home garden. *U.S. Dep. Agr. Circ.* 35. 31 p. illus.
132. ———, and ———. 1924. Diseases and insects of garden vegetables. *U.S. Dep. Agr. Farmers Bull.* 1371. 46 p. illus.
133. ———, and ———. 1930. Diseases and insects of garden vegetables. *U.S. Dep. Agr. Farmers Bull.* 1371 (Rev.). 46 p. illus.
134. ———, and ———. 1934. Diseases and insects of garden vegetables. *U.S. Dep. Agr. Farmers Bull.* 1371 (Rev.). 46 p. illus.
135. ———, ———, and D. J. CAFFEY. 1937. Diseases and insects of garden vegetables. *U.S. Dep. Agr. Farmers Bull.* 1371 (Rev.). 58 p. illus.
136. GLICK, P. A. 1939. The distribution of insects, spiders, and mites in the air. *U.S. Dep. Agr. Tech. Bull.* 673. 150 p. illus. refs. maps.
137. GONZALEZ, A. DE J. 1932. Cultivo y utilizacion de la soya como forraje. *Rev. Agr. (Cuba)* 14(3):5-42. illus. refs.
138. GOSSARD, H. A. 1915. Report of committee on entomology for 1914. *Proc. Ohio State Hort. Soc. Annu. Meet.* 48:87-90.
139. GOULD, G. E. 1950. Preliminary tests with systemic insecticides. *Proc. Indiana Acad. Sci.* 60:187-191. illus. refs.
140. GOWDEX, C. C. 1923. The principal agricultural pests of Jamaica. *Jamaica Dep. Agr. Entomol. Bull.* 2. 80 p. illus.
141. GRANOVSKY, A. A., and A. C. HODSON. 1945. Experiments with DDT conducted by state agricultural experiment stations, agricultural colleges, and other non-federal research organizations. *U.S. Dep. Agr. Bur. Entomol. Plant Quar.* E-644t. 4 p.

142. GRAVENHORST, J. L. C. 1807. Vergleichende Uebersicht des Linneischen und einiger neuern zoologischen Systeme, nebst dem eingeschalteten Verzeichnisse der zoologischen Sammlung des Verfassers und Beschreibungen neuer Thierarten, die in derselben vorhanden sind. H. Dieterich, Gottingen. 476 p. refs.
143. GUÉRIN, J. 1953. Coleopteros do Brasil. Universidade de São Paulo, Brasil. 356 p. illus. refs.
144. GUNDLACH, J. 1893. Apuntes para la fauna Puerto-Riqueña, Parte 8. An. Soc. Espan. Hist. Natur. (Ser. 2, Tomo 2) 22:259-344. refs.
145. HARRISON, A. L. 1935. Transmission of bean mosaic. N. Y. State Agr. Exp. Sta. Tech. Bull. 236. 19 p. illus. refs.
146. HASEMAN, L. 1943. Controlling bean leaf damage by beetles. Mo. Agr. Exp. Sta. Circ. 263. 2 p.
147. HAWLEY, I. M. 1922. Insects and other animal pests injurious to field beans in New York. Cornell Univ. Agr. Exp. Sta. Mem. 55:943-1037. illus. refs.
148. HEADLEE, T. J. 1916. Report of the Department of Entomology. N. J. Agr. Exp. Sta. Annu. Rep. 1916:465-519. illus.
149. HENDRICKSON, G. O. 1930. Studies on the insect fauna of Iowa prairies. Iowa State Coll. J. Sci. 4(2):49-179. illus. refs.
150. HENSHAW, S. 1885. List of the Coleoptera of America, north of Mexico. American Entomological Society, Philadelphia. 161 p.
151. HERRICK, G. W. 1902/1903. Report of the Botanist and Entomologist. Miss. Agr. Exp. Sta. Annu. Rep. 16:24-25.
152. ———. 1903/1904. Report of the Botanist and Entomologist. Miss. Agr. Exp. Sta. Annu. Rep. 17:27-34.
153. ———. 1904/1905. Annual report of the Entomologist and Botanist. Miss. Agr. Exp. Sta. Annu. Rep. 18:29-30.
154. HEZZOG, D. C. 1968. Seasonal, locational, and sexual variation in the color pattern of the bean leaf beetle, *Cerotoma trifurcata* Forst., in Louisiana. M. S. Thesis, Louisiana State University, Baton Rouge. 86 p. illus. refs.
155. ———. 1973. Some biological implications of polymorphism in the bean leaf beetle, *Cerotoma trifurcata* (Forster). Ph. D. Diss., Louisiana State University, Baton Rouge. 176 p. illus. refs.
156. HINCKS, W. D. 1950. Some nomenclatorial notes on Chrysomelidae (Col.). No. 2, Galerucinae; Corrections and additions. Ann. Mag. Natur. Hist. (12th Ser.) 3(25):86-58. refs.
157. HINDS, W. E., and B. A. OSTERBERGER. 1931. The soybean caterpillar in Louisiana. J. Econ. Entomol. 24(6):1168-1173. illus.
158. HIXSON, H. 1929. Bean beetle control. Okla. Farmer-Stockman 42:577.
159. HOOKER, C. W. 1912. Report of the Entomologist. P. R. Agr. Exp. Sta. Annu. Rep. 1912:34-38. refs.
160. HOPKINS, A. D. 1893. Catalogue of West Virginia forest and shade tree insects. W. Va. Agr. Exp. Sta. Bull. 32:169-251.
161. HORN, G. H. 1872. Descriptions of some new North American Coleoptera. Trans. Amer. Entomol. Soc. 4:143-152. illus. refs.
162. ———. 1893. The Galerucini of boreal America. Trans. Amer. Entomol. Soc. 20:57-144. refs.
163. ———. 1896. Coleoptera of Baja California. (Supplement II.) Proc. Calif. Acad. Sci. (Ser. 2) 6:367-381. illus. refs.
164. HOUGHTON, C. O. 1903-1906. Report of the Entomologist. VII. List of Delaware Coleoptera, with species taken at light. Del. Agr. Exp. Sta. Annu. Rep. 16-18:91-107.
165. HOWARD, L. O. 1904. Some injurious garden and field insects in tropical North America. U.S. Dep. Agr. Div. Entomol. Bull. 44:84.
166. ———. 1921/1922. Vegetable and truck-crop insect investigations. U.S. Dep. Agr. Bur. Entomol. Rep. Entomol. 1922:16-19.
167. ———. 1922/1923. Vegetable and truck-crop insect investigations. U.S. Dep. Agr. Bur. Entomol. Rep. Entomol. 1923:20-23.
168. ———. 1923/1924. Report of the Entomologist. U.S. Dep. Agr. Bur. Entomol. Rep. Entomol. 1924. 30 p.
169. HUBER, R. T., and J. V. OSMUN. 1966. Insects and other arthropods of economic importance in Indiana during 1966. Proc. Indiana Acad. Sci. 76:291-307. illus.
170. HUGHES, J. H. 1944. List of Chrysomelidae (Coleoptera) known to occur in Ohio. Ohio J. Sci. 44(3):129-142. refs.
171. ILLINOIS COOPERATIVE EXTENSION SERVICE and ILLINOIS NATURAL HISTORY SURVEY. 1970. 1970 suggested insecticide guides. Insect control for field crops. Ill. Coop. Ext. Serv. Circ. 899. 8 p. illus.
172. ISELY, D. 1929. The bean leaf beetle. In: Forty-first annual report of the Arkansas Agricultural Experiment Station. Arkansas Agr. Exp. Sta. Bull. 246:51.
173. ———. 1930. The biology of the bean leaf-beetle. Arkansas Agr. Exp. Sta. Bull. 248. 20 p. illus. refs.
174. ———. 1942. Insect problems resulting from changes in agriculture in Arkansas. J. Econ. Entomol. 35(4):473-477. refs.
175. JACKSON, R. D. 1967. Soybean insect problems. Soybean Dig. 27(11):16-18. illus.
176. JACOBY, M. 1879. Descriptions of new species of phytophagous Coleoptera. Proc. Zool. Soc. London 1879:773-793.
177. ———. 1888. Insecta. Coleoptera. Phytophaga. Biol. Cent.-Amer. 6(1):1-625. refs.
178. ———. 1897. A list of the phytophagous Coleoptera obtained by Mr. H. H. Smith at St. Vincent, Grenada, and the Grenadines, with descriptions of new species: Crioceridae — Galerucidae. Trans. Entomol. Soc. London 1897:249-280. refs.
179. JACQUELIN DUVAL, M. 1857. Insectes. Ordre des Coleopteres, Lin. In: R. de la Sagra, Histoire physique, politique et naturelle de l'île de Cuba. Arthus Bertrand, Paris. p. 1-328. refs.
180. JANSEN, W. P., and R. STAPLES. 1970. Effect of cowpeas and soybeans as source or test plants of cowpea mosaic virus on vector efficiency and retention of infectivity of the bean leaf beetle and the spotted cucumber beetle. Plant Dis. Rep. 54(12):1053-1054. illus. refs.
181. ———, and ———. 1971. Specificity of transmission of cowpea mosaic virus by species within the subfamily Galerucinae, family Chrysomelidae. J. Econ. Entomol. 64(2):365-367. illus. refs.
182. JAKES, H. E. 1951. How to know the beetles. Wm. C. Brown Company, Dubuque, Iowa. 372 p. illus.
183. JENKINS, J. M., JR. 1939. Snap bean production in South Carolina. S. C. Agr. Exp. Sta. Circ. 59. 16 p. illus. refs.
184. JENKINS, L., and V. F. BURK. 1952. Bean beetle control. Mo. Agr. Ext. Serv. Fold. 18. 3 p. illus.
185. JENSEN, R. L. 1968. Potential of varietal resistance for control of insect pests of soybeans. M. S. Thesis, Louisiana State University, Baton Rouge. 72 p. illus. refs.
186. ———. 1971. Evaluation of soybean germ plasm

TABLE OF REFERENCES BY SUBJECT AND PERIOD OF PUBLICATION

SUBJECT \ YEAR	1899 & PRIOR	1900-1909	1910's	1920's	1930's
TAXONOMY	56,97,114,121, 129,130,142,162, 163,194,195,257, 386, 97,113,114,129, 142,144,161,176, 177,179,256,352, 387,390.		211.	197,391. 197,391,392.	36,220.
MORPHOLOGY & PHYSIOLOGY	58,162.				36,367.
GENETICS					
BEHAVIOR, INCLUDING FEEDING AND HOST SELECTION	57.	309.	190,199,310. 190.	311.	109,173,220.
LIFE HISTORY	58,59,389.	152,339.	74,212,255,310.	222,311.	109,173,220,223, 323. 110,407,408.
ECOLOGY	188,400.	60,62.	199,301.	383.	173.
DISTRIBUTION	1,56,58,59,114, 121,129,130,150, 160,162,194,279, 313,329,351,356, 384,385. 91,114,119,129, 161,177,178,179, 351,390.	28,60,61,62,64, 164,355,364,393.	33,44,74,98,148, 212,258.	34,45,99,111,198, 222,383,391, 391,403.	43,109,136,149, 173,223,344.
COLLECTING & SAMPLING TECHNIQUES					
PARASITES & PREDATORS		191.	212,252.	221,405.	109.
ECONOMIC ROLE & DAMAGE	58,59,187,279, 280,284,384,385.	61,63,64,128,151, 165,189,251,285, 165.	44,68,131,138, 159,212,225,226, 258,300,307,308, 333,381,382,388, 70,71,72,296.	20,26,52,79,107, 103,132,147,166, 172,214,222,235, 320,321. 49,140,404.	2,30,38,46,80, 109,120,126,133, 134,135,157,183, 223,236,323,366, 394. 50,110,137,200, 201,202,203,204, 205,312.
DISEASE TRANSMISSION				326.	67,145,331.
PLANT RESISTANCE					
INSECTICIDAL CONTROL METHODS		27,153,158,254, 339,349.	206,353.	167,216,217,266.	39,40,89,117. 50,406.
NONINSECTICIDAL CONTROL METHODS			212.		109.

1940's	1950's	1960's	1970's	SOYBEAN
22. 21,22.	32,156,182,401. 32,143.	93,402. 402.		402. 402.
281. 281.	143.	154,268.	155,305,306,325.	
		154.	155. 340.	
			186.	173,186,220.
208,242,243,270, 322. 262.	25,244,245,246, 247,267,409.	78,224,248.		25,74,78,242,247, 267.
286.	347.	154.	53.	53.
170,209,232,346, 348,394. 21,262.	7,9,32,288,289, 359. 29,32.	11,35,116,224, 253,290,291,292, 293,360,363.	294.	7,9,11,35,44,74, 359,360,363.
			368.	368.
	124,267.	78.		78,109.
3,31,66,69,81,88, 100,146,174,207, 208,209,213,231, 237,240,241,243, 270,271,297,314, 322,327,334,336, 337,338,345,354. 4,19,275,278.	6,8,9,65,82,83,84, 85,86,87,227,239, 244,245,246,247, 259,260,261,263, 288,289,328,335, 343,365,409. 51.	11,12,13,37,112, 125,169,175,193, 224,229,230,238, 248,249,253,274, 287,290,291,292, 293,315,316,319, 330,360.	210,250,269,294, 317.	6,8,9,11,12,13,20, 26,30,37,38,44, 66,69,83,84,85, 86,87,109,147, 157,169,174,175, 193,207,208,210, 212,222,223,224, 226,227,229,230, 235,236,237,238, 239,240,241,247, 249,250,253,259, 260,261,263,269, 271,274,287,317, 321,322,323,328, 330,343,360,365, 394,409. 137,275.
75,215,369. 75,76.	17,18,54,77,122, 332. 54.	90,102,302,318, 370,371,372,373, 374,376,377,379. 55,90,318,374.	14,15,180,181, 192,234,324,325, 375,378,380. 92,127,192.	14,15,180,234, 302,369,370,371, 375,377,379,380.
		185.	186.	185,186.
31,41,42,94,104, 105,106,118,141, 218,219,265,282, 297,298,327,341, 395,396,397. 276,277.	5,9,24,47,95,96, 139,184,295,342, 398,399. 51.	10,48,103,115, 228,272,273,303, 304,330,358,361, 362.	16,23,53,73,101, 123,171,196,233, 264,283,299,306, 350,357.	5,9,10,16,23,47, 48,53,104,105, 106,115,123,196, 218,233,264,272, 273,283,303,304, 327,330,342,350, 357,358.
				212.

- for resistance to the bean leaf beetle, *Cerotoma trifurcata* (Forster), the southern green stink bug, *Nezara viridula* (Linnaeus), and the soybean looper, *Pseudoplusia includens* (Walker). Ph. D. Diss., Louisiana State University, Baton Rouge. 82 p. illus. refs.
187. JOHNSON, W. G. 1897. Notes on some little-known insects of economic importance. U.S. Dep. Agr. Div. Entomol. Bull. (n.s.) 9:83-85.
 188. ———. 1898. Entomological features of 1897. Md. Agr. Exp. Sta. Bull. 57:6-10. illus. refs.
 189. ———. 1900. Notes on insects of economic importance for 1900. U.S. Dep. Agr. Div. Entomol. Bull. (n.s.) 26:80-84.
 190. JONES, T. H. 1915. Insects affecting vegetable crops in Porto Rico. U.S. Dep. Agr. Bull. 192. 11 p. illus. refs.
 191. JUDS, S. D. 1905. The bobwhite and other quails of the United States in their economic relations. U.S. Dep. Agr. Bur. Biol. Surv. Bull. 21. 66 p. illus. refs.
 192. KVICALA, B. A., J. SMRZ, and N. BLANCO. 1970. Some properties of cowpea mosaic virus isolated in Cuba. Phytopathol. Z. 69(3):223-235. illus. refs.
 193. LASTER, M. L. 1962. Insects affecting soybeans in the South. Soybean Dig. 22(9):14-16. illus.
 194. LECONTE, J. L. 1865. On the species of *Galeruca* and allied genera inhabiting North America. Proc. Acad. Natur. Sci. Philadelphia 17:204-222. refs.
 195. ———, and G. H. HORN. 1883. Classification of the Coleoptera of North America. Smithsonian. Misc. Collect. 507. 567 p. illus.
 196. LEDBETTER, R. J., and M. H. BASS. 1971. Soybean insects and their control. Auburn Univ. Coop. Ext. Serv. Circ. E-3. 7 p. illus.
 197. LENG, C. W. 1920. Catalogue of the Coleoptera of America, north of Mexico. John D. Sherman, Jr., Mt. Vernon, N. Y. 470 p. refs.
 198. ———, Ed. 1926. Order Coleoptera. In: M. D. Leonard, Ed., A list of the insects of New York. Cornell Univ. Agr. Exp. Sta. Mem. 101:203-521.
 199. LEONARD, L. T., and C. F. TURNER. 1918. Influence of *Cerotoma trifurcata* on the nitrogen gathering functions of the cowpea. J. Amer. Soc. Agron. 10:256-261. illus. refs.
 200. LEONARD, M. D. 1929/1930. Insect conditions in Porto Rico during the fiscal year ended June 30, 1930. Insect Pest Surv. Bull. 11(1):33-37.
 201. ———. 1929/1930. Report of the Division of Entomology for the fiscal year 1929-30. P. R. Ins. Exp. Sta. (Rio Piedras) Annu. Rep. 1929/1930:110-123. refs.
 202. ———. 1930/1931. Notes from annual report on insect conditions in Porto Rico, July 1, 1930 to June 30, 1931. Insect Pest Surv. Bull. 11(10):682-685.
 203. ———. 1931. Porto Rico—Insect conditions during March and April, 1931. Insect Pest Surv. Bull. 11(3):135-137.
 204. ———. 1932. Insect conditions in Porto Rico during February and March, 1932. Insect Pest Surv. Bull. 12(3):121-123.
 205. ———. 1932. Insect conditions in Puerto Rico during the fiscal year July 1, 1930 thru June 30, 1931. J. Dep. Agr. P. R. 16(2): 121-144.
 206. LEWIS, A. C., W. W. CHASE, and W. F. TURNER. 1919. Spray calendar. Ga. State Bd. Entomol. Bull. 53. 39 p. illus.
 207. LINCOLN, C. 1945. Control garden insects. Arkansas Agr. Ext. Serv. Circ. 438. 15 p. illus.
 208. ———, and F. D. MINER. 1945. Insect pests of grain, hay, and pasture crops. Arkansas Agr. Ext. Serv. Circ. 437. 19 p.
 209. LODING, H. P. 1945. Catalogue of the beetles of Alabama. Ala. Geol. Surv. Monogr. 11. 172 p. refs.
 210. LUCKIANN, W. H. 1971. The insect pests of soybeans. World Farming 13(5):18-19, 22. illus.
 211. LUTZ, F. E. 1918. Field book of insects with special reference to those of northeastern United States, aiming to answer common questions. G. P. Putnam's Sons, New York. 510 p. illus.
 212. MCCONNELL, W. R. 1915. A unique type of insect injury. J. Econ. Entomol. 8(2):261-266. refs.
 213. MACDONALD, P., W. H. PHILLIPS, C. E. PHILLIPS, K. J. KADOW, and L. A. STEARNS. 1941. Home vegetable gardening. Del. Agr. Ext. Serv. Ext. Bull. 34. 52 p. illus.
 214. McHATTON, T. H., E. RAGSDALE, and J. W. FIROR. 1922. Vegetable gardening. Ga. State Coll. Agr. Ext. Div. Bull. 257. 40 p. illus.
 215. MCLEAN, D. M. 1941. Studies on mosaic of cowpeas, *Vigna sinensis*. Phytopathology 31(5):420-430. illus. refs.
 216. MARCOVITCH, S. 1924. New insecticides for the Mexican bean beetle and other insects. Tenn. Agr. Exp. Sta. Bull. 131. 19 p. illus. refs.
 217. ———. 1925. Non-arsenicals for chewing insects. J. Econ. Entomol. 18(1):122-128.
 218. ———, and W. W. STANLEY. 1942. Fluorine compounds useful in the control of insects. Tenn. Agr. Exp. Sta. Bull. 182. 46 p. illus. refs.
 219. ———, and ———. 1943. Control of Mexican bean beetle and bean leaf beetle. Tenn. Agr. Exp. Sta. Circ. 85. 4 p. illus.
 220. MAULIK, S. 1936. The fauna of British India, including Ceylon and Burma. Coleoptera. Chrysomelidae. (Galerucinae). Taylor and Francis, London. 648 p. illus. refs. maps.
 221. MAY, D. W. 1926. Report of the director. P. R. Agr. Exp. Sta. Rep. 1926:1-10. illus. refs.
 222. METCALF, C. L., and W. P. FLINT. 1928. Destructive and useful insects, their habits and control. McGraw-Hill Book Co., Inc., New York. 1st ed. 918 p. illus. refs.
 223. ———, and ———. 1939. Destructive and useful insects, their habits and control. McGraw-Hill Book Co., Inc., New York. 2nd ed. 981 p. illus. refs.
 224. ———, and ———. 1962. Destructive and useful insects, their habits and control. McGraw-Hill Book Co., Inc., New York. 4th ed. rev. by R. L. Metcalf. 1087 p. illus. refs.
 225. METCALF, Z. P. 1913/1914. Report of the entomologist. N. C. Agr. Exp. Sta. Annu. Rep. 37:17-18.
 226. MEYER, R. W., and J. V. OSMUND. 1970. Insects and other arthropods of economic importance in Indiana during 1970. Proc. Indiana Acad. Sci. 80:286-298. refs.
 227. MILLIRON, H. E. 1958. Economic insect and allied pests of Delaware. Del. Agr. Exp. Sta. Bull. 321. 87 p. illus.
 228. MINER, F. D. 1963. Insecticidal treatment of soybeans for foliage feeders treated in state. Arkansas Farm Res. 12(3):4. illus.
 229. ———. 1966. Soybean insect problems in Arkansas. Proc. N. Cent. Br. Entomol. Soc. Amer. 21:54.
 230. MISSISSIPPI COOPERATIVE EXTENSION SERVICE. 1969. Entomology facts. Other insects of soybeans. Miss. State Univ. Coop. Ext. Serv. Inform. Sheet 226. 2 p. illus.
 231. MONOSMITH, R. O. 1943. The year-round home garden. Miss. Agr. Coll. Ext. Dep. Bull. 128. 32 p. illus.
 232. MONTGOMERY, B. E., and J. M. AMOS. 1941. Contributions to a list of the Coleoptera of the Clark County State Forest. Proc. Indiana Acad. Sci. 50:251-253.

233. MOODY, R., and J. C. BAILEY. 1972. A small cage for insect studies on seedling soybeans. J. Econ. Entomol. 65(5):1501-1502. illus. refs.
234. MOORE, B. J., and H. A. SCOTT. 1971. Properties of a strain of bean pod mottle virus. Phytopathology 61(7):831-833. illus. refs.
235. MORSE, W. J. 1927. Soybeans. Culture and varieties. U.S. Dep. Agr. Farmers Bull. 1520. 33 p. illus. maps.
236. ———, and J. L. CARTER. 1939. Soybeans. Culture and varieties. U.S. Dep. Agr. Farmers Bull. 1520 (Rev.). 39 p. illus.
237. ———, and L. F. WILLIAMS. 1949. Soybeans. Culture and varieties. U.S. Dep. Agr. Farmers Bull. 1520 (Rev.). 38 p. illus.
238. MOTSINGER, R. F., J. L. BAGENT, S. D. HENSLEY, N. L. HORN, and L. D. NEWSOM. 1967. Soybean diseases and insects of Louisiana. La. Coop. Ext. Serv. Publ. 1558. 24 p. illus.
239. MULLETT, R. P. 1955. Insects and pests of field crops. Tenn. Agr. Ext. Serv. Publ. 360. 40 p. illus.
240. MURPHREE, L. C. 1948. Kill those garden bugs. Miss. Agr. Ext. Serv. Circ. 145. 7 p. illus.
241. ———. 1949. Kill those garden bugs. Miss. Agr. Ext. Serv. Circ. 145 (Rev.). 8 p. illus.
242. MYERS, C. V. 1940. Insects inhabiting soybean fields. M. S. Thesis, University of Illinois, Urbana. 69 p. illus. refs.
243. NETTLES, W. C. 1939. Garden and truck crop insects. Clemson Agr. Coll. Ext. Serv. Bull. 102. 32 p. illus.
244. ———. 1950. Garden and truck crop insects. Clemson Agr. Coll. Ext. Serv. Bull. 102 (Rev.). 38 p. illus.
245. ———. 1952. Garden and truck crop insects. Clemson Agr. Coll. Ext. Serv. Bull. 102 (Rev.). 40 p. illus.
246. ———. 1955. Garden and truck crop insects. Clemson Agr. Coll. Ext. Serv. Bull. 102 (Rev.). 44 p. illus.
247. ———. 1958. Soybean insects and their control. Clemson Agr. Coll. Ext. Serv. Circ. 450. 10 p. illus.
248. ———, and F. H. SMITH. 1960. Garden and truck crop insects and diseases. Clemson Agr. Coll. Ext. Serv. Bull. 102 (Rev.). 66 p. illus.
249. ———, and C. A. THOMAS. 1968. Soybean insects and diseases. Clemson Univ. Agr. Ext. Serv. Circ. 504 (Rev.). 25 p. illus.
250. ———, C. A. THOMAS, and F. H. SMITH. 1970. Soybean insects and diseases. How to control them. Clemson Univ. Agr. Ext. Serv. Circ. 504 (Rev.). 25 p. illus.
251. NEWELL, W., and A. H. ROSENFELD. 1909. Some common insects injurious to truck crops. La. State Crop Pest Comm. Circ. 27:87-131. illus.
252. NICE, M. M. 1910. Food of the bobwhite. J. Econ. Entomol. 3(3):295-313. refs.
253. NORMAN, A. G. 1963. The soybean. Genetics, breeding, physiology, nutrition, management. Academic Press, New York. 239 p. illus. refs.
254. NORTON, J. B. S., and T. B. SYMONS. 1907. The principal plant diseases and insects. In: Control of insect pests and diseases of Maryland crops. Md. Agr. Exp. Sta. Bull. 115:175-210. illus.
255. O'KANE, W. C. 1912. Injurious insects. How to recognize and control them. The MacMillan Company, New York. 414 p. illus. refs.
256. OLIVIER, A. G. 1791. Encyclopedie methodique. Histoire naturelle. Insectes. Chez Panckoucke, Paris. Tome 6. 704 p. refs.
257. ———. 1808. Entomologie ou histoire naturelle des insectes, avec leurs caractères génériques et spécifiques, leur description, leur synonymie, et leur figure enluminée. Coléoptères. Chez Desray, Paris. Tome 6. p. 613-1104. illus. refs.
258. ORTON, W. A., and F. H. CHITTENDEN. 1917. Control of diseases and insect enemies of the home vegetable garden. U.S. Dep. Agr. Farmers Bull. 856. 70 p. illus.
259. OSMUN, J. V. 1957. Insects and other arthropods of economic importance in Indiana in 1957. Proc. Indiana Acad. Sci. 67:150-154.
260. ———. 1958. Insects and other arthropods of economic importance in Indiana in 1958. Proc. Indiana Acad. Sci. 68:190-195.
261. ———. 1959. Insects and other arthropods of economic importance in Indiana in 1959. Proc. Indiana Acad. Sci. 69:167-174.
262. OSORIO, J. M. 1946. Notas y recomendaciones sobre los insectos que atacan a las plantas hortícolas en Cuba. El crisomelido de los frijoles. — (*Ceratomya ruficornis* (Oliv.): Coleoptera, Chrysomelidae). Control de Plagas 8(10-11):157, 163.
263. PACKARD, C. M. 1951. Insect pests of soybeans and their control. Soybean Dig. 11(4):14-18. illus.
264. PALMER, J. H., C. N. NOLAN, C. L. PARKS, F. H. SMITH, M. C. MCKENZIE, and C. A. THOMAS. 1972. Produce more high quality soybeans. Clemson Univ. Agr. Ext. Serv. Circ. 501 (Rev.). 7 p. illus. maps.
265. PARKER, R. L. 1945. Experiments with DDT conducted by state agricultural experiment stations, agricultural colleges, and other non-federal research organizations. U.S. Dep. Agr. Bur. Entomol. Plant Quar. E-644r. 2 p.
266. PARKS, T. H., and A. L. PIERSTORFF. 1929. The control of garden insects and diseases. Ohio State Univ. Agr. Coll. Ext. Serv. Bull. 76. 48 p. illus.
267. PEABES, L. M., and R. H. DAVIDSON. 1956. Insect pests of farm, garden, and orchard. John Wiley & Sons, Inc., New York. 5th ed. 661 p. illus. refs.
268. PETERSON, A. 1960. Larvae of insects. An introduction to nearctic species. Part II. Coleoptera, Diptera, Neuroptera, Siphonaptera, Mecoptera, Trichoptera. Edwards Bros., Ann Arbor, Mich. 4th ed. 416 p. illus. refs.
269. PETERSON, A. G., and J. C. LOFGREN. 1971. Observations on soybean insects in Minnesota. Proc. N. Cent. Br. Entomol. Soc. Amer. 26(1-2):82.
270. PETTY, H. B. 1943. Bean leaf beetle. Ill. Veg. Growers Bull. June, 1943:10-11.
271. ———. 1966. Soybean insect problems in Illinois. Proc. N. Cent. Br. Entomol. Soc. Amer. 21:52-54.
272. ———. 1967. How to control soybean insects. Farm Tech. 23(1):42a-47a. illus.
273. ———. 1967. How to control soybean insects. Soybean Dig. 27(4):42a-47a. illus.
274. ———, and T. L. WAINSCOTT. 1961. Soybean insects. Successful Farming 59(5):48-51. illus.
275. PLANK, H. K. 1944. Insect pests of food crops. P. R. Fed. Exp. Sta. Rep. 1944:26-27.
276. ———. 1944. Insecticidal properties of mamey and other plants in Puerto Rico. J. Econ. Entomol. 37(6):737-739. illus. refs.
277. ———. 1945. Plant toxicological studies. P. R. Fed. Exp. Sta. Rep. 1945:22-25. refs.
278. ———, and P. S. ROBLES. 1947. Miscellaneous insects. P. R. Fed. Exp. Sta. Rep. 1947:58-60.
279. POPEOE, E. A. 1876. A list of Kansas Coleoptera. Trans. Kans. Acad. Sci. 5:21-40.
280. ———. 1889. Some insects injurious to the bean. Kans. Agr. Exp. Sta. Annu. Rep. 2:206-212. illus. refs.

281. POWELL, E. F. 1941. Relationships within the family Chrysomelidae (Coleoptera) as indicated by the male genitalia of certain species. *Amer. Midland Natur.* 25:148-195. illus. refs.
282. PRICE, W. A. 1940. The Mexican bean beetle. *Ky. Agr. Ext. Div. Circ.* 257 (Rev.). 4 p. illus.
283. PURDUE UNIVERSITY COOPERATIVE EXTENSION SERVICE. 1971. Common soybean insects of Indiana. *Purdue Univ. Coop. Ext. Serv. Dep. Entomol. Publ.* E-85. 2 p. illus.
284. QUAINANCE, A. L. 1899. Some insects of the year in Georgia. *U.S. Dep. Agr. Div. Entomol. Bull.* (n.s.) 20:56-60.
285. ———. 1900. Insect notes. *Ga. Exp. Sta. Annu. Rep.* 13:361-371. illus.
286. RAINWATER, C. F. 1941. Insects and spiders found in Spanish moss, gin trash, and woods trash, and on wild cotton. *U.S. Dep. Agr. Bur. Entomol. Plans Quar.* E-528. 20 p.
287. RATCLIFFE, R. H., T. L. BISSELL, and W. E. BICKLEY. 1960. Observations on soybean insects in Maryland. *J. Econ. Entomol.* 53(1):131-133. illus. refs.
288. REED, L. B., and S. P. DOOLITTLE. 1956. Insects and diseases of vegetables in the home garden. *U.S. Dep. Agr. Home Gard. Bull.* 46 (Rev.). 48 p. illus.
289. ———, and ———. 1959. Insects and diseases of vegetables in the home garden. *U.S. Dep. Agr. Home Gard. Bull.* 46 (Rev.). 48 p. illus.
290. ———, and ———. 1961. Insects and diseases of vegetables in the home garden. *U.S. Dep. Agr. Home Gard. Bull.* 46 (Rev.). 48 p. illus.
291. ———, and ———. 1963. Insects and diseases of vegetables in the home garden. *U.S. Dep. Agr. Home Gard. Bull.* 46 (Rev.). 48 p. illus.
292. ———, and R. E. WEBB. 1967. Insects and diseases of vegetables in the home garden. *U.S. Dep. Agr. Home Gard. Bull.* 46 (Rev.). 50 p. illus.
293. ———, and ———. 1968. Insects and diseases of vegetables in the home garden. *U.S. Dep. Agr. Home Gard. Bull.* 46 (Rev.). 50 p. illus.
294. ———, and ———. 1971. Insects and diseases of vegetables in the home garden. *U.S. Dep. Agr. Home Gard. Bull.* 46 (Rev.). 50 p. illus.
295. RITCHER, P. O., and G. D. JONES. 1952. Vegetable insect control in North Carolina. *N. C. Agr. Ext. Serv. Ext. Circ.* 313 (Rev.). 23 p. illus.
296. RITCHIE, A. H. 1916/1917. Annual report of the entomologist. *Jamaica Dep. Agr. Annu. Rep.* 1916/1917:28-34.
297. ROARK, R. C. 1943. A review of the insecticidal uses of rotenone and rotenoids from derris, lonchocarpus (cube and timbo), tephrosia, and related plants. Part VI: Coleoptera. *U.S. Dep. Agr. Bur. Entomol. Plant Quar.* E-603. 170 p. refs.
298. ———. 1945. A list of arthropods, arranged according to order, family, and genus, and their susceptibility to rotenone and the rotenoids. *U.S. Dep. Agr. Bur. Entomol. Plant Quar.* E-656. 27 p.
299. ROBERTS, J. E., and J. C. SMITH. 1972. Insect control recommendations. *Control soybean insects.* *Va. Polytech. Inst. Ext. Div. Contr. Ser.* 137. 4 p.
300. ROSENFELD, A. H. 1910. Insects notably injurious in Louisiana during 1908 and 1909. *J. Econ. Entomol.* 3(2):212-217.
301. ———. 1911. Insects and spiders in Spanish moss. *J. Econ. Entomol.* 4(4):398-409. illus.
302. ROSS, J. P. 1963. Transmission of bean pod mottle virus in soybeans by beetles. *Plant Dis. Rep.* 47(12):1049-1050. refs.
303. ROWELL, J. O. 1965. Control soybean insects. *Va. Polytech. Inst. Agr. Ext. Serv. Circ.* 648 (Rev.). [4 p.] illus.
304. ———, and G. M. BOUSH. 1963. Control soybean insects. *Va. Polytech. Inst. Agr. Ext. Serv. Circ.* 648 (Rev.). 4 p. illus.
305. RUPPEL, R. F. 1971. An asymmetrical gynandromorph of *Cerotoma facialis* (Coleoptera: Galerucidae). *Mich. Entomol.* 4(1): 1-2. illus. refs.
306. SADAR, M. H., S. S. KUAN, and G. G. GUILBAULT. 1970. Trace analysis of pesticides using cholinesterase from human serum, rat liver, electric eel, bean leaf beetle, and white fringe beetle. *Anal. Chem.* 42(14):1770-1774. illus. refs.
307. SANBORN, C. E. 1912. Garden and truck crop insect pests. *Okl. Agr. Exp. Sta. Bull.* 100. 76 p. illus.
308. ———. 1916. Garden and truck crop insect pests. *Okl. Agr. Ext. Div. Circ.* 41. 76 p. illus.
309. SANBORN, E. D. 1902. Insects injurious to staple crops. *John Wiley & Sons, New York.* 1st ed. 295 p. illus. refs.
310. ———. 1912. Insect pests of farm, garden and orchard. *John Wiley & Sons, New York.* 684 p. illus. refs.
311. ———, and L. M. PEAIRS. 1921. Insect pests of farm, garden and orchard. *John Wiley & Sons, Inc., New York.* 2nd ed. 707 p. illus. refs.
312. SAN JUAN PLANT QUARANTINE OFFICE. 1934. Insect conditions in Puerto Rico during October 1933—January 1934. *Insect Pest Surv. Bull.* 14(1):23-29.
313. SCHMELTER, H. 1878. Coleoptera of the neighborhood of New York. *Bull. Brooklyn Entomol. Soc.* 1(7):55.
314. SCHUSTER, G. L. 1943. Notes on insect pests. *In: Annual report of the director for the fiscal year ending June 30, 1943.* *Del. Agr. Exp. Sta. Bull.* 244:22-23.
315. SCOTT, H. E., and C. H. BRETT. 1965. Vegetable insects of North Carolina. *N. C. Agr. Ext. Serv. Ext. Circ.* 313 (Rev.). 26 p. illus.
316. ———, and ———. 1968. Vegetable insects of North Carolina. *N. C. Agr. Ext. Serv. Ext. Circ.* 313 (Rev.). 24 p. illus.
317. SCOTT, W. O., and S. R. ALDRICH. 1970. Various soybean crop ailments. *In: Modern soybean production. The Farm Quarterly, Cincinnati.* p. 126-149. illus.
318. SHEPHERD, R. J., and R. W. FULTON. 1962. Identity of a seed-borne virus of cowpea. *Phytopathology* 52(6):489-493. illus. refs.
319. SHERBAKOFF, C. D., and W. W. STANLEY. 1943. The more important diseases and insect pests of crops in Tennessee. *Tenn. Agr. Exp. Sta. Bull.* 186. 142 p. illus.
320. SHERMAN, F. 1925/1926. Insect pests. *S. C. Agr. Exp. Sta. Annu. Rep.* 39:31-41. illus. maps.
321. ———. 1927/1928. Studies of insect pests. *S. C. Agr. Exp. Sta. Annu. Rep.* 41:43-55. illus.
322. SHROPSHIRE, L. H. 1941. Insect control for garden crops. *Ill. Agr. Exp. Sta. Circ.* 514. 54 p. illus.
323. ———, and C. C. COMPTON. 1935. Saving garden crops from insect injury. *Ill. Agr. Exp. Sta. Circ.* 437. 55 p. illus.
324. SLACK, S. A., and J. P. FULTON. 1971. Some plant virus-beetle vector relations. *Virology* 43(3):728-729. illus. refs.
325. ———, and H. A. SCOTT. 1971. Hemolymph as a reservoir for the cowpea strain of southern bean mosaic virus in the bean leaf beetle. *Phytopathology* 61(5):538-540. illus. refs.
326. SMITH, C. E. 1924. Transmission of cowpea mosaic by the bean leaf-beetle. *Science* (n.s.) 60(1551):268.

327. SMITH, C. F. 1946. Controlling soybean insects. *Res. Farming* 4(3):7, 9. illus.
328. SMITH, H. E., and G. BARNES. 1953. Diseases and insects of soybeans. *Arkansas Agr. Ext. Serv. Leaflet* 193. [8 p.]
329. SMITH, J. B. 1899. Insects of New Jersey. N. J. State Bd. Agr. Annu. Rep. 27 (Suppl.). 755 p. illus. maps.
330. SMITH, J. C. 1969. Soybean insect control by in-furrow systemic and foliar spray treatments. *Soybean Dig.* 29(10):16-18. illus.
331. SMITH, K. M. 1931. Virus diseases of plants and their relationship with insect vectors. *Biol. Rev. (Cambridge)* 6(3):302-344. refs.
332. ———. 1958. Transmission of plant viruses by arthropods. *Annu. Rev. Entomol.* 3:469-482. refs.
333. SMITH, L. B. 1917. Control of some garden insects. *Va. Truck Exp. Sta. Bull.* 23:487-506. illus.
334. SMITH, R. C., and G. A. DEAN. 1948. The seventeenth or 1947 annual insect population summary of Kansas. *J. Kans. Entomol. Soc.* 21(1):15-35. illus.
335. ———, and ———. 1950. The eighteenth or 1948 annual insect population summary of Kansas. *J. Kans. Entomol. Soc.* 23(1):1-16. illus.
336. ———, ———, and E. G. KELLY. 1946. The fifteenth or 1945 annual insect population summary of Kansas. *J. Kans. Entomol. Soc.* 19(2):37-52. illus.
337. ———, and E. G. KELLY. 1944. The thirteenth or 1943 annual insect population summary of Kansas. *J. Kans. Entomol. Soc.* 17(3):81-98. illus.
338. ———, ———, G. A. DEAN, H. R. BRYSON, and R. L. PARKER. 1943. Common insects of Kansas. *Kans. State Bd. Agr. Rep.* June, 1943. 440 p. illus. refs.
339. SMITH, R. I. 1908. Some insect enemies of garden crops. *N. C. Agr. Exp. Sta. Bull.* 197. 64 p. illus.
340. SMITH, S. G. 1972. The chromosomes of some Chrysomelid Coleoptera: Diabroticids. *In: C. D. Darlington and K. R. Lewis, Eds., Chromosomes today.* Longman Group Ltd., London. Vol. 3. p. 197-207. illus. refs. maps.
341. STANLEY, W. W., and S. MARCOVITCH. 1947. Control of insects attacking beans. *Tenn. Agr. Exp. Sta. Circ.* 97. 4 p. illus.
342. STARKS, K. J., and R. THURSTON. 1955. Control of bean leaf beetle on soybeans. *Ky. Agr. Exp. Sta. Annu. Rep.* 68:74.
343. STATEN, R. D., and R. J. HODGES. 1958. Soybean production in Texas. *Tex. Agr. Exp. Sta. Bull.* 919. 14 p. illus. refs. maps.
344. STEARNS, L. A. 1939. Important insects of the year. *In: Annual report of the director for the fiscal year ending June 30, 1939.* Del. Agr. Exp. Sta. Bull. 220: 22-24.
345. ———. 1943. Notes on insect pests. *In: Annual report of the director for the fiscal year ending June 30, 1943.* Del. Agr. Exp. Sta. Bull. 244:22-23.
346. ———. 1947. Insects of the year. *In: Annual report of the director for the fiscal year ending June 30, 1946.* Del. Agr. Exp. Sta. Bull. 263:27-28.
347. ———. 1958. Transient insects in Delaware's apple and peach plantings. *J. Econ. Entomol.* 51(1):81-82. illus. refs.
348. ———, D. MACCREARY, and W. A. CONNELL. 1948. Insects of the year. *In: Annual report of the director for the fiscal year ending June 30, 1947.* Del. Agr. Exp. Sta. Bull. 271:22-23.
349. STEVENS, F. L., and R. S. WOGLUM. 1906. Spraying mixtures and machinery. When and how to spray. *N. C. Agr. Exp. Sta. Bull.* 193:1-33. illus.
350. STOCKDALE, H. J., and H. GUNDERSON. 1972. Summary of Iowa insect pest control recommendations for 1972. *Iowa State Univ. Coop. Ext. Serv. IC-328 (Rev.)*. 18 p.
351. STURM, J. 1843. *Catalog der Kaefer-Sammlung.* Gedruckt auf Kosten des Verfassers, Nürnberg. 386 p. illus. refs.
352. SUFFRIAN, E. 1867. Verzeichniss der von Dr. Bundlach auf der Insel Cuba gesammelten Chrysomelinen. *Arch. Naturgesch.* 33(1): 283-328. refs.
353. TALBERT, T. J. 1917. Control of some of the important garden and truck crop insects. *Mo. Agr. Ext. Serv. Circ.* 15. 24 p. illus.
354. TATE, H. F., and J. N. RONEY. 1944. Control of garden pests. *Ariz. Agr. Ext. Serv. Circ.* 122. 14 p. illus.
355. TITUS, E. S. G., and F. C. PRATT. 1904. Catalogue of the exhibit of economic entomology at the Louisiana Purchase Exposition, St. Louis, Mo., 1904. U.S. Dep. Agr. Div. Entomol. Bull. (n.s.) 47. 155 p. refs.
356. TOWNSEND, C. H. T. 1885. A list of Coleoptera collected in Louisiana, on or south of parallel 30°. *Can. Entomol.* 17(4):66-73.
357. UNIVERSITY OF MARYLAND COOPERATIVE EXTENSION SERVICE. 1972. 1972 pest control recommendations. Field crops. *Md. Coop. Ext. Serv. Ext. Bull.* 237 (Rev.). 23 p.
358. UNIVERSITY OF NEBRASKA EXTENSION ENTOMOLOGISTS. 1966. Insect control guide for small grains, field beans, soybeans, sugar beets. *Nebr. Agr. Ext. Serv. EC-66-1504.* 4 p.
359. USDA. 1958. Cereal and forage insects. *Coop. Econ. Insect Rep.* 8(35):755-760.
360. ———. 1960. Summary of insect conditions in the United States 1959. *Coop. Econ. Insect Rep.* 10(15): 256-278.
361. USDA AGRICULTURAL RESEARCH SERVICE AND FOREST SERVICE. 1967. Suggested guide for the use of insecticides to control insects affecting crops, livestock, households, stored products, forests, and forest products — 1967. *U.S. Dep. Agr. Agr. Handb.* 331. 273 p.
362. ———. 1968. Suggested guide for the use of insecticides to control insects affecting crops, livestock, households, stored products, forests, and forest products — 1968. *U.S. Dep. Agr. Agr. Handb.* 331 (Rev.). 273 p.
363. USDA AGRICULTURAL RESEARCH SERVICE — PLANT PEST CONTROL DIVISION. 1968. Insects affecting soybeans. *Coop. Econ. Insect Rep.* 18(29):668.
364. USDA BUREAU OF ENTOMOLOGY. 1908. The principal injurious insects of the year. *U.S. Dep. Agr. Yearb. Agr.* 1908:567-580.
365. VANCE, A. M. 1955. Pests that may attack your soybeans. *Soybean Dig.* 15(8):14-15. illus.
366. VINSON, C. G. 1937. Garden beans. *Mo. Agr. Exp. Sta. Circ.* 195. 11 p. illus.
367. WADE, J. S. 1935. A contribution to a bibliography of the described immature stages of North American Coleoptera. *U.S. Dep. Agr. Bur. Entomol. Plant Quar. E-358.* 114 p. refs.
368. WALDBAUER, G. P., and M. KOGAN. 1973. Sampling for bean leaf beetle eggs: Extraction from the soil and location in relation to soybean plants. *Environ. Entomol.* 2(3):441-446. illus. refs.
369. WALTERS, H. J. 1947. Relation of insects to the bud blight disease of soybeans in Illinois. *M. S. Thesis, University of Illinois, Urbana.* 34 p. illus. refs.
370. ———. 1964. Bean leaf beetles transmit virus diseases. *Arkansas Farm Res.* 13(6):6. illus.
371. ———. 1964. Transmission of bean pod mottle virus by bean leaf beetles. *Phytopathology* 54(2):240. refs.

372. ———. 1964. Transmission of southern bean mosaic virus by the bean leaf beetle. *Plant Dis. Rep.* 48(12): 935. illus. refs.
373. ———. 1965. Transmission of the cowpea strain of southern bean mosaic virus by bean leaf beetles. *Phytopathology* 55(10):1081.
374. ———. 1969. Beetle transmission of plant viruses. *Advan. Virus Res.* 15:339-363. illus. refs.
375. ———. 1970. Bean pod mottle virus disease of soybeans. *Arkansas Farm Res.* 19(2):8. illus.
376. ———, and O. W. BARNETT, JR. 1964. Bean leaf beetle transmission of Arkansas cowpea mosaic virus. *Phytopathology* 54(8):911.
377. ———, and H. L. DODD. 1969. Identification and beetle transmission of an isolate of cowpea chlorotic mottle virus from *Desmodium*. *Phytopathology* 59(8): 1055.
378. ———, and D. G. HENRY. 1970. Bean leaf beetle as a vector of the cowpea strain of southern bean mosaic virus. *Phytopathology* 60(1):177-178. illus. refs.
379. ———, and F. N. LEE. 1969. Transmission of bean pod mottle virus from *Desmodium paniculatum* to soybean by the bean leaf beetle. *Plant Dis. Rep.* 53(6):411. illus. refs.
380. ———, ———, and K. E. JACKSON. 1972. Overwintering of bean pod mottle virus in bean leaf beetles. *Phytopathology* 62(8):808.
381. WATSON, J. R. 1917. Florida truck and garden insects. *Fla. Agr. Exp. Sta. Bull.* 134:33-127. illus.
382. ———. 1919. Florida truck and garden insects. *Fla. Agr. Exp. Sta. Bull.* 151:111-211. illus.
383. ———. 1922. Some beetles new to Florida. *Fla. Entomol.* 5(4):67-68.
384. WEBSTER, F. M. 1887. Report of the season's observations, and especially upon corn insects. *Rep. U.S. Commr. Agr.* 1887:147-154. illus. refs.
385. ———. 1894. Insects of the year. *Insect Life* 7(2):202-207.
386. ———. 1895. On the probable origin, development and diffusion of North American species of the genus *Diabrotica*. *J. N. Y. Entomol. Soc.* 3(4):158-166.
387. ———. 1896. The probable origin and diffusion of North American species of the genus *Diabrotica*. — II. *J. N. Y. Entomol. Soc.* 4(2):67-68.
388. ———. 1915. Importance of observations on apparently unimportant insects. *Can. Entomol.* 47(3): 69-73.
389. WEED, H. E. 1892. Notes from the Mississippi Station. *Insect Life* 5:110-111.
390. WEISE, J. 1885. Beitrag zur Chrysomeliden und Coccinelliden-Fauna Portorico's. *Arch. Naturgesch.* 51(1): 144-168. refs.
391. ———. 1924. Chrysomelidae: 13. Galerucinae. *In*: W. Junk, *Coleopterorum catalogus*. W. Junk, Berlin. *Pars.* 78. 225 p. refs.
392. ———. 1929. Westindische Chrysomeliden und Coccinelliden. *In*: *Ergebnisse einer zoologischen Forschungreise nach Westindien von Prof. W. Kuken-thal und Dr. R. Hartmeyer. Zool. Jahrb. Abt. Syst. Okol. Geogr. Tiere (Suppl.)* 16(1):11-34. refs.
393. WELDEN, G. P. 1908. Entomological notes from Maryland. *J. Econ. Entomol.* 1(2):145-148.
394. WESTCOTT, C. 1946. The gardener's bug book. The American Garden Guild, Inc., and Doubleday & Company, Inc., New York. 590 p. illus.
395. WHITE, W. H. 1943/1944. Truck crop and garden insect investigations. *U.S. Dep. Agr. Rep. Chf. Bur. Entomol. Plant Quar.* 1944:13-15.
396. ———, and S. P. DOOLITTLE. 1944. A victory gardener's handbook on insects and diseases. *U.S. Dep. Agr. Misc. Publ.* 525. 30 p. illus.
397. ———, and ———. 1946. A vegetable gardener's handbook on insects and diseases. *U.S. Dep. Agr. Misc. Publ.* 605. 30 p. illus.
398. ———, and ———. 1951. Vegetable gardeners' handbook on insects and diseases. *U.S. Dep. Agr. Misc. Publ.* 605 (Rev.). 30 p. illus.
399. ———, and ———. 1953. Vegetable gardeners' handbook on insects and diseases. *U.S. Dep. Agr. Home Gard. Bull.* 23. 30 p. illus.
400. WICKHAM, H. F. 1897. The Coleoptera of Canada. XIX. The Chrysomelidae of Ontario and Quebec — (continued). *Tribe IX. — Galerucini. Can. Entomol.* 29(1):7-12. illus.
401. WILCOX, J. A. 1954. Leaf beetles of Ohio (Chrysomelidae: Coleoptera). *Ohio Biol. Surv. Bull.* 43:353-506. illus. refs. maps.
402. ———. 1965. A synopsis of the North American Galerucinae (Coleoptera: Chrysomelidae). *N.Y. State Mus. Sci. Serv. Bull.* 400. 226 p. illus. refs.
403. WOLCOTT, G. N. 1923. "Insectae Portoricensis." A preliminary annotated check-list of the insects of Porto Rico, with descriptions of some new species. *J. Dep. Agr. P. R.* 7(1):5-313. refs.
404. ———. 1924. *Entomologia economica Puertorriqueña*. P. R. Estac. Exp. Ins. Bol. 32. 176 p. illus. refs.
405. ———. 1924. The food of Porto Rican lizards. *J. Dep. Agr. P. R.* 7(4):5-37. refs.
406. ———. 1932. Insect conditions in Porto Rico during February, 1932. *Insect Pest Surv. Bull.* 12(2):76.
407. ———. 1933. An economic entomology of the West Indies. The Entomological Society of Puerto Rico. San Juan. 688 p. illus. refs.
408. ———. 1936. "Insectae Borinquenses." A revision of "Insectae Portoricensis," a preliminary annotated check-list of the insects of Porto Rico, with descriptions of some new species," and "First supplement to Insectae Portoricensis." *J. Agr. Univ. P. R.* 20(1):1-627. illus. refs.
409. WRIGHT, J. M. and J. W. APPLE. 1950. How to know the common vegetable insects. *Ill. Agr. Ext. Serv. Circ.* 671. 38 p. illus.

PERIODICAL ABBREVIATIONS

- Advan. Virus Res. — Advances in Virus Research.
Agron. Trop. (Maracay) — Agronomia Tropical (Maracay).
Ala. Agr. Exp. Sta. Leaflet. — Alabama Agricultural Experiment Station Leaflet.
Ala. Geol. Surv. Monogr. — Alabama Geological Survey Monograph.
Amer. Midland Natur. — American Midland Naturalist.
An. Soc. Espan. Hist. Natur. — Anales de la Sociedad Española de Historia Natural.
Anal. Chem. — Analytical Chemistry.
Ann. Appl. Biol. — Annals of Applied Biology.
Ann. Mag. Natur. Hist. — Annals and Magazine of Natural History.
Ann. Soc. Entomol. Fr. — Annales de la Société Entomologique de France.
Annu. Rep. Off. Exp. Stas. — Annual Report of the Office of Experiment Stations.
Annu. Rev. Entomol. — Annual Review of Entomology.
Arch. Naturgesch. — Archiv für Naturgeschichte.
Ariz. Agr. Ext. Serv. Circ. — Arizona Agricultural Extension Service Circular.
Arkansas Agr. Exp. Sta. Bull. — Arkansas Agricultural Experiment Station Bulletin.

- Arkansas Agr. Ext. Serv. Circ.—Arkansas Agricultural Extension Service Circular.
- Arkansas Agr. Ext. Serv. Leaf.—Arkansas Agricultural Extension Service Leaflet.
- Arkansas Farm Res.—Arkansas Farm Research.
- Auburn Univ. Coop. Ext. Serv. Circ.—Auburn University Cooperative Extension Service Circular.
- Biol. Cent.-Amer.—Biologia Centrali-Americana.
- Biol. Rev. (Cambridge)—Biological Reviews and Biological Proceedings, Cambridge Philosophical Society.
- Bull. Brooklyn Entomol. Soc.—Bulletin of the Brooklyn Entomological Society.
- Can. Entomol.—Canadian Entomologist.
- Caribb. Res. Coun. Crop Inq. Ser.—Caribbean Research Council, Crop Inquiry Series.
- Clemson Agr. Coll. Ext. Serv. Bull.—Clemson Agricultural College Extension Service Bulletin.
- Clemson Agr. Coll. Ext. Serv. Circ.—Clemson Agricultural College Extension Service Circular.
- Clemson Univ. Agr. Ext. Serv. Circ.—Clemson University Agricultural Extension Service Circular.
- Conn. Agr. Exp. Sta. Bull.—Connecticut Agricultural Experiment Station Bulletin.
- Conn. State Geol. Natur. Hist. Surv. Bull.—Connecticut State Geological and Natural History Survey Bulletin.
- Coop. Econ. Insect Rep.—Cooperative Economic Insect Report.
- Cornell Ext. Bull.—Cornell Extension Bulletin.
- Cornell Univ. Agr. Exp. Sta. Mem.—Cornell University Agricultural Experiment Station Memoir.
- Del. Agr. Exp. Sta. Annu. Rep.—Delaware Agricultural Experiment Station Annual Report.
- Del. Agr. Exp. Sta. Bull.—Delaware Agricultural Experiment Station Bulletin.
- Del. Agr. Ext. Serv. Ext. Bull.—Delaware Agricultural Extension Service Extension Bulletin.
- Emory Univ. Mus. Bull.—Emory University Museum Bulletin.
- Entomol. Arb.—Entomologische Arbeiten.
- Entomol. News—Entomological News.
- Environ. Entomol.—Environmental Entomology.
- Ext. Entomol.—The Extension Entomologist (USDA).
- Farm Quart.—The Farm Quarterly.
- Farm Tech.—Farm Technology.
- Fla. Agr. Exp. Sta. Annu. Rep.—Florida Agricultural Experiment Station Annual Report.
- Fla. Agr. Exp. Sta. Bull.—Florida Agricultural Experiment Station Bulletin.
- Fla. Entomol.—Florida Entomologist.
- Ga. Coop. Ext. Serv. Leaf.—Georgia Cooperative Extension Service Leaflet.
- Ga. Exp. Sta. Annu. Rep.—Georgia Experiment Station Annual Report.
- Ga. Exp. Sta. Bull.—Georgia Experiment Station Bulletin.
- Ga. State Bd. Entomol. Bull.—Georgia State Board of Entomology Bulletin.
- Ga. State Coll. Agr. Ext. Div. Bull.—Georgia State College of Agriculture Extension Division Bulletin.
- Ill. Agr. Exp. Sta. Circ.—Illinois Agricultural Experiment Station Circular.
- Ill. Agr. Ext. Serv. Circ.—Illinois Agricultural Extension Service Circular.
- Ill. Coop. Ext. Serv. Circ.—Illinois Cooperative Extension Service Circular.
- Ill. Veg. Growers Bull.—Illinois Vegetable Growers Bulletin.
- Insect Pest Surv. Bull.—Insect Pest Survey Bulletin (USDA).
- Iowa Agr. Exp. Sta. Rep. Agr. Res.—Iowa Agricultural Experiment Station Report on Agricultural Research.
- Iowa State Coll. J. Sci.—Iowa State College Journal of Science.
- Iowa State Univ. Coop. Ext. Serv.—Iowa State University Cooperative Extension Service.
- J. Agr. Res.—Journal of Agricultural Research.
- J. Agr. Univ. P. R.—Journal of Agriculture of the University of Puerto Rico.
- J. Amer. Soc. Agron.—Journal of the American Society of Agronomy.
- J. Dep. Agr. P.R.—Journal of the Department of Agriculture of Porto Rico.
- J. Econ. Entomol.—Journal of Economic Entomology.
- J. Ga. Entomol. Soc.—Journal of the Georgia Entomological Society.
- J. Kans. Entomol. Soc.—Journal of the Kansas Entomological Society.
- J. N. Y. Entomol. Soc.—Journal of the New York Entomological Society.
- Jamaica Dep. Agr. Annu. Rep.—Annual Report of the Jamaica Department of Agriculture.
- Jamaica Dep. Agr. Entomol. Bull.—Department of Agriculture, Jamaica, Entomological Bulletin.
- Kans. Agr. Exp. Sta. Annu. Rep.—Annual Report of the Kansas Agricultural Experiment Station.
- Kans. State Bd. Agr. Rep.—Report of the Kansas State Board of Agriculture.
- Ky. Agr. Exp. Sta. Annu. Rep.—Kentucky Agricultural Experiment Station Annual Report.
- Ky. Agr. Ext. Div. Circ.—Kentucky Agricultural Extension Division Circular.
- La. Agr. Exp. Sta. Annu. Rep.—Louisiana Agricultural Experiment Station Annual Report.
- La. Agr. Exp. Sta. Bull.—Louisiana Agricultural Experiment Station Bulletin.
- La. Coop. Ext. Serv. Publ.—Louisiana Cooperative Extension Service Publication.
- La. State Crop Pest Comm. Circ.—Louisiana State Crop Pest Commission Circular.
- Md. Agr. Exp. Sta. Bull.—Maryland Agricultural Experiment Station Bulletin.
- Md. Coop. Ext. Serv. Ext. Bull.—Maryland Cooperative Extension Service Extension Bulletin.
- Md. Ext. Serv. Bull.—Maryland Extension Service Bulletin.
- Mich. Entomol.—Michigan Entomologist.
- Miss. Agr. Coll. Ext. Dep. Bull.—Mississippi Agricultural College Extension Department Bulletin.
- Miss. Agr. Coll. Ext. Dep. Circ.—Mississippi Agricultural College Extension Department Circular.
- Miss. Agr. Exp. Sta. Annu. Rep.—Mississippi Agricultural Experiment Station Annual Report.
- Miss. Agr. Ext. Serv. Circ.—Mississippi Agricultural Extension Service Circular.
- Miss. Agr. Forest. Exp. Sta. Annu. Rep.—Mississippi Agricultural and Forestry Experiment Station Annual Report.
- Miss. State Univ. Coop. Ext. Serv. Inform. Sheet—Mississippi State University Cooperative Extension Service Information Sheet.
- Mo. Agr. Exp. Sta. Bull.—Missouri Agricultural Experiment Station Bulletin.
- Mo. Agr. Exp. Sta. Circ.—Missouri Agricultural Experiment Station Circular.
- Mo. Agr. Exp. Sta. Res. Bull.—Missouri Agricultural Experiment Station Research Bulletin.
- Mo. Agr. Ext. Serv. Circ.—Missouri Agricultural Extension Service Circular.
- Mo. Agr. Ext. Serv. Fold.—Missouri Agricultural Extension Service Folder.
- N. C. Agr. Exp. Sta. Annu. Rep.—North Carolina Agricultural Experiment Station Annual Report.
- N. C. Agr. Exp. Sta. Bull.—North Carolina Agricultural Experiment Station Bulletin.
- N. C. Agr. Ext. Serv. Ext. Circ.—North Carolina Agricultural Extension Service Extension Circular.
- N. C. State Univ. Agr. Ext. Serv. Insect Notes—North Carolina State University, Agricultural Extension Service, Insect Notes.
- N. J. Agr. Exp. Sta. Annu. Rep.—New Jersey Agricultural Experiment Station Annual Report.
- N. J. State Bd. Agr. Annu. Rep.—New Jersey State Board of Agriculture Annual Report.
- N. Mex. Agr. Exp. Sta. Bull.—New Mexico Agricultural Experiment Station Bulletin.
- N. Y. State Agr. Exp. Sta. Tech. Bull.—New York State Agricultural Experiment Station Technical Bulletin.

- N. Y. State Mus. Sci. Serv. Bull. — New York State Museum and Science Service Bulletin.
- Nebr. Agr. Ext. Serv. — Nebraska Agricultural Extension Service.
- Ohio Agr. Exp. Sta. Bull. — Ohio Agricultural Experiment Sta. Bulletin.
- Ohio Biol. Surv. Bull. — Ohio Biological Survey Bulletin.
- Ohio J. Sci. — Ohio Journal of Science.
- Ohio State Univ. Agr. Coll. Ext. Serv. Bull. — Ohio State University Agricultural College Extension Service Bulletin.
- Okla. Agr. Exp. Sta. Bull. — Oklahoma Agricultural Experiment Station Bulletin.
- Okla. Agr. Ext. Div. Circ. — Oklahoma Agricultural Extension Division Circular.
- Okla. Farmer-Stockman — Oklahoma Farmer-Stockman.
- P. R. Agr. Exp. Sta. Annu. Rep. — Annual Report of the Puerto Rico Agricultural Experiment Station.
- P. R. Agr. Exp. Sta. Rep. — Report of the Porto Rico Agricultural Experiment Station.
- P. R. Bd. Commr. Agr. Rep. — Report of the Board of Commissioners of Agriculture of Porto Rico.
- P. R. Estac. Exp. Ins. Bol. — Puerto Rico Estacion Experimental Insular Boletín.
- P. R. Fed. Exp. Sta. Rep. — Report of the Federal Experiment Station in Puerto Rico.
- P. R. Ins. Exp. Sta. (Rio Piedras) Annu. Rep. — Porto Rico Insular Experiment Station (Rio Piedras) Annual Report.
- Phytopathol. Z. — Phytopathologische Zeitschrift.
- Plant Dis. Rep. — Plant Disease Reporter.
- Proc. Acad. Natur. Sci. Philadelphia — Proceedings of the Academy of Natural Sciences of Philadelphia.
- Proc. Calif. Acad. Sci. — Proceedings of the California Academy of Science.
- Proc. Entomol. Soc. Wash. — Proceedings of the Entomological Society of Washington.
- Proc. Indiana Acad. Sci. — Proceedings of the Indiana Academy of Science.
- Proc. N. Cent. Br. Entomol. Soc. Amer. — Proceedings of the North Central Branch of the Entomological Society of America.
- Proc. Ohio State Hort. Soc. Annu. Meet. — Proceedings of the Ohio State Horticultural Society Annual Meeting.
- Proc. Zool. Soc. London — Proceedings of the Zoological Society of London.
- Purdue Univ. Coop. Ext. Serv. Dep. Entomol. Publ. — Purdue University Cooperative Extension Service, Department of Entomology Publication.
- Rep. Md. State Hort. Soc. Annu. Meet. — Report of the Maryland State Horticultural Society Annual Meeting.
- Rep. U. S. Commr. Agr. — Report of the United States Commissioner of Agriculture.
- Res. Farming — Research and Farming.
- Rev. Agr. (Cuba) — Revista de Agricultura (Cuba).
- Rev. Agr. P. R. — Revista de Agricultura de Puerto Rico.
- S. C. Agr. Exp. Sta. Annu. Rep. — South Carolina Agricultural Experiment Station Annual Report.
- S. C. Agr. Exp. Sta. Bull. — South Carolina Agricultural Experiment Station Bulletin.
- S. C. Agr. Exp. Sta. Circ. — South Carolina Agricultural Experiment Station Circular.
- Santiago de las Vegas, Cuba Estac. Exp. Agron. Bol. — Santiago de las Vegas, Cuba, Estacion Experimental Agronomica Boletín.
- Santiago de las Vegas, Cuba Estac. Exp. Agron. Circ. — Santiago de las Vegas, Cuba, Estacion Experimental Agronomica Circular.
- Santiago de las Vegas, Cuba Estac. Exp. Agron. Informe Dep. Entomol. Fitopatol. — Santiago de las Vegas, Cuba, Estacion Experimental Agronomica, Informe del Departamento de Entomologia y Fitopatologia.
- Smithson. Misc. Collect. — Smithsonian Miscellaneous Collection.
- Soybean Dig. — Soybean Digest.
- Tenn. Agr. Exp. Sta. Annu. Rep. — Tennessee Agricultural Experiment Station Annual Report.
- Tenn. Agr. Exp. Sta. Bull. — Tennessee Agricultural Experiment Station Bulletin.
- Tenn. Agr. Exp. Sta. Circ. — Tennessee Agricultural Experiment Station Circular.
- Tenn. Agr. Ext. Serv. Publ. — Tennessee Agricultural Extension Service Publication.
- Tex. Agr. Exp. Sta. Bull. — Texas Agricultural Experiment Station Bulletin.
- Trans. Amer. Entomol. Soc. — Transactions of the American Entomological Society.
- Trans. Entomol. Soc. London — Transactions of the Entomological Society of London.
- Trans. Kans. Acad. Sci. — Transactions of the Kansas Academy of Science.
- Trop. Agr. — Tropical Agriculture.
- U.S. Dep. Agr. Agr. Handb. — United States Department of Agriculture, Agriculture Handbook.
- U.S. Dep. Agr. Bull. — United States Department of Agriculture Bulletin.
- U.S. Dep. Agr. Bur. Biol. Surv. Bull. — United States Department of Agriculture, Bureau of Biological Survey Bulletin.
- U.S. Dep. Agr. Bur. Entomol. Plant Quar. E. — United States Department of Agriculture, Bureau of Entomology and Plant Quarantine, E Series.
- U.S. Dep. Agr. Bur. Entomol. Plant Quar. News Let. — United States Department of Agriculture, Bureau of Entomology and Plant Quarantine News Letter.
- U.S. Dep. Agr. Bur. Entomol. Rep. Entomol. — United States Department of Agriculture, Bureau of Entomology, Report of the Entomologist.
- U.S. Dep. Agr. Dep. Circ. — United States Department of Agriculture, Department Circular.
- U.S. Dep. Agr. Div. Entomol. Bull. (n.s.) — United States Department of Agriculture, Division of Entomology Bulletin (New series).
- U.S. Dep. Agr. Farmers Bull. — United States Department of Agriculture Farmers' Bulletin.
- U.S. Dep. Agr. Home Gard. Bull. — United States Department of Agriculture Home and Garden Bulletin.
- U.S. Dep. Agr. Misc. Publ. — United States Department of Agriculture, Miscellaneous Publication.
- U.S. Dep. Agr. Rep. Chf. Bur. Entomol. Plant Quar. — United States Department of Agriculture, Report of the Chief of the Bureau of Entomology and Plant Quarantine.
- U.S. Dep. Agr. Tech. Bull. — United States Department of Agriculture Technical Bulletin.
- U.S. Dep. Agr. Yearb. — United States Department of Agriculture Yearbook.
- U.S. Dep. Agr. Yearb. Agr. — United States Department of Agriculture, Yearbook of Agriculture.
- U.S. Nat. Mus. Bull. — United States National Museum Bulletin.
- Va. Polytech. Inst. Agr. Ext. Serv. Circ. — Virginia Polytechnic Institute Agricultural Extension Service Circular.
- Va. Polytech. Inst. Ext. Div. Contr. Ser. — Virginia Polytechnic Institute Extension Division Control Series.
- Va. Truck Exp. Sta. Bull. — Virginia Truck Experiment Station Bulletin.
- W. Va. Agr. Exp. Sta. Bull. — West Virginia Agricultural Experiment Station Bulletin.
- Zool. Jahrb. Abt. Syst. Okol. Geogr. Tiere — Zoologische Jahrbücher Abteilung für systematik Ökologie und Geographie der Tiere.