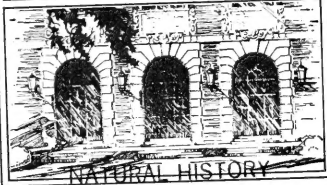




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NATURAL HISTORY
SURVEY

The Literature of Arthropods Associated with Soybeans

III. A BIBLIOGRAPHY OF THE
BEAN LEAF BEETLES

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

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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.

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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* (Gernar, 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.

¹⁰ See entry 174 in the bibliography.

¹¹ Erickson, G. F. 1847. *Conspicua 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.

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.

¹⁶ Nichols, M. P., and M. Kogan. 1972. The literature of arthropods associated with soybeans. I. A bibliography of the Mexican bean beetle, *Epilachna varivestis* Mulsant (Coleoptera: Coccinellidae). III. Natur. Hist. Surv. Biol. Notes 77. 29 p.

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281. 281.	143.	154,268.	155,305,306,325.	
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208,242,243,270, 322. 262.	25,244,245,246, 247,267,409.	78,224,248.		25,74,78,242,247, 267.
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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.
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		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.
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PERIODICAL ABBREVIATIONS

- Advan. Virus Res.* — Advances in Virus Research.
- Agron. Trop. (Maracay)* — Agronomia Tropical (Maracay).
- Ala. Agr. Exp. Sta. Leafl.* — 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. Leaflet.—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. Leaflet.—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.







