

Historic, archived document

Do not assume content reflects current scientific knowledge, policies, or practices.



H 420
R 31
ARS-33
115



ARS 33-115
APRIL 1967

A SELECTED BIBLIOGRAPHY
OF
INSECT-VASCULAR PLANT ASSOCIATIONAL STUDIES

Agricultural Research Service
U.S. DEPARTMENT OF AGRICULTURE

CONTENTS

	Page
Acknowledgments	3
Introduction	3
Bibliography	6
Section I--Insect assemblages on plants	6
Section II--Principal works of Charles Robertson	21
Section III--General references to phytophagous insects	22
Section IV--Phytophagous food habits of insect orders	26
Index to plant genera and common names	32

Prepared by Entomology Research Division
Agricultural Research Service
United States Department of Agriculture

A SELECTED BIBLIOGRAPHY OF INSECT-VASCULAR PLANT ASSOCIATIONAL STUDIES

By John M. Kingsolver, Entomology Research Division,
Agricultural Research Service, U.S. Department of Agriculture,
and Milton W. Sanderson, Illinois Natural History Survey

Acknowledgments

We owe a special debt to R. A. Evers, Botanist and Curator of the Herbarium, Illinois Natural History Survey, for reading the manuscript of the mimeo edition and for consulting with us on many problems of mutual concern. To the late A. G. Vestal, the eminent plant ecologist at the University of Illinois, we are grateful for his cooperation throughout the initial project. We express our appreciation to the following colleagues for their criticism and suggestions: H. B. Cunningham, G. C. Decker, R. H. Foote, H. B. Mills, H. H. Ross, and L. J. Stannard; and to Mrs. Ruth Warrick, former Librarian, Illinois Natural History Survey, we are indebted for her interest and for her painstaking effort in seeking many titles and checking their accuracy.

We are grateful to the following entomologists who responded so generously to our original version of this list: D. Anderson, N. L. Anderson, R. L. Blicke, W. J. Brown, C. K. Dorsey, S. W. Frost, R. W. Hodges, W. R. Horsfall, W. W. Judd, R. H. Painter, and R. E. Woodruff. Other entomologists who contributed additions, suggestions, or reprints are: W. H. Anderson, D. F. Bray, B. D. Burks, H. W. Capps, P. A. Dahm, H. A. Denmark, P. B. Dowden, D. E. Hardy, E. W. King, G. F. Knowlton, J. T. Medlar, H. H. Neunzig, L. L. Pechuman, J. E. Porter, R. L. Rabb, H. Ruckes, Jr., G. W. Simpson, W. A. Stephen, G. C. Steyskal, J. W. Thieret, A. N. Tissot, P. Vaurie, and D. A. Young.

Introduction

Despite the tremendous economic losses caused by phytophagous insects and the vital importance of insect-plant relationships to agricultural sciences, nowhere in the North American literature is there a comprehensive compilation by plant families of principal works that treat insect associates of vascular plants according to single species or genera. Our efforts to find reliable plant-host-association information for several beetle families disclosed this lack of available bibliographies as well as some inconsistencies in the method of reporting plant-insect relationships.

In the course of studies in our individual specialties, we found many references that provided us with useful information and ideas. We have compiled them in this report under various categories, believing that they will quickly provide for others an initial source for which we originally searched.

Many of these references were published in 1962 in "A Selected Bibliography of Insect-Vascular Plant Associations in the United States and Canada" (Mimeo F-4, Section of Faunistic Surveys and Insect Identification, Illinois Natural History Survey), with Sanderson as senior author.

Copies of the Mimeo F-4 were sent to more than 100 workers in the United States and Canada, whom we considered to have special interests in insect-plant relationships, with a request for any additional references we had not included and for any suggestions or criticisms that they might have regarding the paper.

Many of their suggestions, incorporated with the original version, have resulted in the present publication, which we hope will stimulate the unearthing of additional unpublished theses on the subject and will focus attention not only on the work that has already been accomplished

but also on areas that are in need of exploration. The bibliography has been further revised with the addition of an index to plant genera and common names and the inclusion of selected additional titles from other parts of the world.

In our scrutiny of the literature, we were constantly confronted with inconsistencies in the methods of reporting host data and uncertainties in reporting the degree of association of the insect with its host plant. We feel that the ideal report should state as fully as possible the relationships of each insect species in all of its stages with each stage of the plant species. It should also recognize that insect associations range from that of simply a resting site to one in which the insect is an obligatory associate of a single plant species. Many so-called host records signify only that the insect was collected on the plant, and may or may not indicate an actual breeding association. However, indefinite records of this nature should not be hastily discarded until the status of the association can be ascertained, because such records may offer the only clues to the true relationship between the organisms.

We found no reports which possessed all of the ideal characteristics, although some approached closely (Balduf, 1959 (p. 18); Judd, 1961 (p. 7)). Many reports gave only a list of the insects that had been collected on the plant and omitted any explanation of the true insect-plant relationship. Some gave the life histories of a few insects with a list of other insects taken on the plant.

An excellent example of a desired type of study is the above-mentioned report by Judd, in which he correlates the occurrence of insects during the growth of skunk cabbage (*Symplocarpus foetidus*). His paper demonstrates that knowledge of the mechanisms by which insects are attracted to plants, or are held there, is an essential and intimate component of one's understanding of plant-insect relationships.

The importance of accurate identification of plant species or smaller units is obvious when it is recognized that generalizations concerning insect-host relationships should be based on precise identification. Generic identifications of plants often are insufficient. Likewise, the entomological investigator should work with the smallest taxonomic unit possible.

Associations, if they are to have validity in the future, may require that documented inflorescence-bearing plant samples with associated insects be permanently preserved for future reference, should taxonomic refinements or misidentifications suggest restudy.

Several basic botanical references for the United States and Canada which we found useful are:

American Joint Committee on Horticultural Nomenclature.

1942. Standardized plant names. Ed. 2, prepared by Kelsey, H. P., and W. A. Dayton, editors. 675 pp. J. Horace McFarland Co., Harrisburg, Pa.

Anderson, Kling L.

1961. Common names of a selected list of plants. Kans. Agr. Expt. Sta. Tech. Bul. 117, 59 pp.

Fernald, M. L.

1950. Gray's manual of botany. Ed. 8. 1632 pp. Amer. Book Co., New York [etc.]

Gleason, H. A.

1952. The new Britton and Brown illustrated flora of the Northeastern United States and adjacent Canada. 3 v. New York Bot. Gardens.

Hitchcock, A. S.

1951. Manual of grasses of the United States. Ed. 2, rev. by Agnes Chase. U.S. Dept. Agr. Misc. Pub. 200, 1051 pp.

Hitchcock, C. L., Arthur Cronquist, Marion Ownbey, and J. W. Thompson.

1955. Vascular plants of the Pacific Northwest. Wash. [State] Univ. Pubs. Biol., v. 17, pts. 3-5. Univ. Wash. Press, Seattle.

Kearney, T. H., and R. H. Peebles.

1942. Flowering plants and ferns of Arizona. U.S. Dept. Agr. Misc. Pub. 423, 1069 pp.

Munz, Philip, and D. D. Keck.

1959. A California flora. Rancho Santa Ana Botanic Garden. 1681 pp. Univ. Calif. Press, Berkeley.

Rydberg, P. A.

1954. Flora of the Rocky Mountains... Ed. 2, rev. 1144 pp. The Author, New York.

Sargent, Charles S.

1947. *The Silva of North America*. 14 v. Peter Smith, New York.

Small, John K.

1933. *Manual of the southeastern flora*. 1554 pp. Univ. North Carolina Press, Chapel Hill.

The compilation is limited to vascular plants, including the pteridophytes. As many original papers as possible were examined to check the accuracy of citation and determine content suitability. Generally, references to vertebrate and noninsect assemblages were omitted except as they were included in the general plant and insect association. The authors strongly suggest that for the convenience of cataloging, the specific Latin names should be included in the titles of published papers.

The increase of activity in the past 10 years in biological control of undesirable plants has emphasized the critical need for studies in this field. For this reason, titles from outside the United States and Canada are included if they are particularly comprehensive or if they fill a gap in the knowledge of the insects associated with a family of plants. It is impossible to include every such reference, but many papers useful to those working with phytophagous insects are included.

The present paper comprises four sections, each having a specific purpose.

Section I is the main body of references to insect assemblages with a plant species or genus, arranged in alphabetical order by plant family and by plant genus or species. We have attempted to limit our bibliography in this section to several categories: (1) References to reports of associations from a single locality, (2) reports which cover the entire range of the plant, (3) native plants in or out of cultivation, (4) uncultivated introduced plants which attract our native insects, and (5) some introduced plants in cultivation. A paper restricted to a single order of insects was included if this was the only reference to associations of insects with the plant species. References were omitted which treated only injurious insects of specific introduced plants unless these were the only treatments available for the particular plants. Other references were omitted which primarily concerned identification and control of insects associated with specific cultivated plants. Whenever we experienced doubt regarding the applicability of some references, we included them. Special attention is directed to the work of Kaltenbach (1874) cited in Section III. This work is arranged by plant families, and, although restricted to European insects, it has one of the most complete listings of plant-feeding insects we have seen. It may offer clues to the food habits of the American members of insect genera common to both continents. A comparable work for forest insects of Southern Asia is that of Bhasin et al (1954-61). (See Section III.)

Section II is a special section devoted to the principal works of Charles Robertson. Both botanist and entomologist, he wrote prolifically between 1886 and 1933 on the subject of interrelations of insects and flowers. His *Flowers and Insects* (1929), arranged in alphabetical order by plant families, summarized his personal observations between 1899 and 1929; his principal earlier references were included. Section I would have been unduly enlarged had we included the Robertson references under each plant family, thus our decision to give these references a special category. Many other references of Robertson not included here treat phenology, evolution of entomophilous flowers, and anthecology. They can be found in *Ecology*, *Scientific Monthly*, *Psyche*, and *American Naturalist*.

Section III contains a list of general references to phytophagous insects. Some individual reports contain many sections treating specific plant-insect associations, such as the work by Packard (1890) on shade tree insects, Craighead (1950) on eastern forests, and the companion work by Keen (1958) on western forests. Others are valuable sources of more general associational data involving plant associates such as prairies (Hendrickson 1930, 1931; Vestal 1913), hammocks (Dozier 1920), and swamps. The works of Brues (1946) and Frost (1959) are basic ones that include general treatments of phytophagous insects; they contain extensive bibliographies.

Section IV includes principal references to the phytophagous food habits of several insect orders. Peterson's excellent manuals of insect larval forms (1948, 1951--cited in Section III) include extensive food-plant lists of the insect orders treated. The list of references in Section IV is by no means complete, but it will give the worker a basis for further bibliographical searching, especially at the insect-family level.

We have purposely omitted many available references to the food habits of families, sub-families, or genera of insects, because this is in the area of the specialist in each insect order. We likewise have omitted many references to insect-flower relationships and to insect galls, because these again are specialized studies in themselves and should be brought together in separate lists. Special sections in volumes of the Zoological Record list titles in these fields.

BIBLIOGRAPHY

Section I.--Insect Assemblages on Plants

PTERIDOPHYTA

- Swezey, O. H. 1922. Insects attacking ferns in the Hawaiian Islands. Hawaii. Ent. Soc. Proc. 5: 57-65.
- Meikle, A. A. 1937. The insects associated with bracken. Agr. Ed. Assoc. [England], Agr. Prog. 14: 58-60.

SPERMATOPHYTA

ACERACEAE

- Acer*. Guignon, J. 1911. Le genre *Acer*. Liste des insectes et phytophages, tant leur oeuvres qu'exotiques, signales sur les divers erables, sur leur bois mort ou vivant. Feuille Jeunes Nat. 41: 47-48.
- Acer*. Zimmer, J. F. 1909. List of insects affecting the maple. Ohio Nat. 10: 36-38.

AMARANTHACEAE

- Amaranthus reflexus*. Stegmaier, Carl. [Date not known.] Insects of rough pigweed. (Unpublished thesis, Kansas State Univ.)

ANACARDIACEAE

- Mangifera indica*. Moznette, G. F. 1922. Insects injurious to the mango in Florida and how to combat them. U.S. Dept. Agr. Farmers' Bul. 1257, 22 pp.
- Pistacia*. Davatchi, G. A. 1958. Etude biologique de la faune entomologique des *Pistachia* sauvages et cultives. Rev. de Path. Veg. 37 (1): 3-166, 128 figs.
- Rhus toxicodendron*. Howden, H. F., A. T. Howden, and P. O. Ritcher. 1951. Insects feeding on poison oak. Coleop. Bul. 5 (2): 17-19.
- Rhus*. Krombein, Karl V. 1960. Biological notes on some Hymenoptera that nest in sumac pith. Ent. News 71 (2/3): 29-36, 63-69.
- Rhus*. Steyskal, G. 1951. Insects feeding on plants of the *Toxicodendron* section of the genus *Rhus* (poison oak, ivy or sumac). Coleop. Bul. 5 (5/6): 75-77.

APOCYNACEAE

- Apocynum androsaemifolium*. Weiss, H. B. 1921. Notes on the insects of the spreading dogbane, *Apocynum androsaemifolium* L., with a description of a new dogbane midge by Dr. E. P. Felt. Canad. Ent. 53 (7): 146-152.

AQUIFOLIACEAE

- Ilex decidua*. Ross, H. H. 1953. Polyphyletic origin of the leafhopper fauna of *Ilex decidua*. Ill. State Acad. Sci. Trans. 46: 186-192.
- Ilex*. Breakey, E. P. 1959. Holly insects and suggestions for their control. Wash. Agr. Expt. Sta. Cir. 358, 3 pp.
- Ilex*. Hamilton, C. C. 1957. Holly pests in the east. Natl. Hort. Mag. 36 (1): 91-102.
- Ilex*. Swenson, K. G. 1957. English holly insects in the Pacific Northwest. Natl. Hort. Mag. 36 (1): 103-105.

ARACEAE

- Dracunculus*. Meeuse, B. J. D., and M. H. Hatch, 1960. Beetle pollination in *Dracunculus* and *Sauromatum*. Coleop. Bul. 14: 70-74.
- Pistia stratiotes*. Paulian, R., and C. Delamare-Deboutteville. 1946. Les insectes de *Pistia stratiotes* en Cote d'Ivoire. Soc. Ent. de France Bul. (1945) 50: 135-139, 2 figs.
- Sauromatum*. See *Dracunculus*.
- Symplocarpus foetidus*. Judd, W. 1961. Insects and other invertebrates associated with flowering skunk cabbage, *Symplocarpus foetidus* (L.) Nutt., at Fanshawe Lake, Ontario. Canad. Ent. 93 (4): 241-249.

ASCLEPIADACEAE

- Asclepias pulchra* & *syriaca*. Weiss, H. B., and E. L. Dickerson. 1921. Notes on milkweed insects in New Jersey. N.Y. Ent. Soc. Jour. 29: 123-145.
- Asclepias syriaca*. Judd, W. W. 1955. Mites (Anoetidae), fungi (*Empusa* spp.) and pollinia of milkweed (*Asclepias syriaca*) transported by calyptrate flies. Canad. Ent. 87 (8): 366-369.

BERBERIDACEAE

- Podophyllum peltatum*. Judd, W. W. 1954. Four species of leaf-tying moths and their dipterous and hymenopterous parasites reared from mayapple, *Podophyllum peltatum*. Amer. Micros. Soc. Trans. 73 (4): 401-404.
- Berberidaceae. Goury, G., and J. Guignon. 1904. Les insectes parasites des Berberidees. Feuille Jeunes Nat. 34: 238-243, 253-255.

BETULACEAE

- Betula*. Daviault, L. 1935-38. Contribution a l'etude des insectes du bouleau. Canad. Nature 62 (1935): 201-214, 237-256, 282-297, 315-330, 39 figs.; 63 (1936): 5-17, 49-60, 78-91, 147-157, 194-199, 12 figs.; 64 (1937): 5-18. (Reprinted in 1939: Montreal Univ. Inst. Zool. Contrib. No. 1, 136 pp., 52 figs.)
- Betula*. Dimmock, A. K. 1885. The insects of *Betula* in North America. Psyche 4: 271-286.
- Betula*. Varty, I. W. 1963. A survey of the sucking insects of birches in the Maritime Provinces. Canad. Ent. 95 (10): 1097-1106.

BIGNONIACEAE

- Catalpa*. Paclt, J. 1952. Pests of the genus *Catalpa*. Biol. Jaarb. 19: 60-73, 4 figs.

BROMELIACEAE

- Tillandsia usneoides*. Rosenfeld, A. H. 1911. Insects and spiders in Spanish moss. Jour. Econ. Ent. 4: 398-409.
- Bromeliaceae. Picado, C. 1913. Les Bromeliacees epiphytes. Considerees comme milieu biologique. Bul. Sci. de la France et Belg. 47: 215-360.
- Bromeliaceae. Scott, Hugh. 1912. A contribution to the knowledge of the fauna of Bromeliaceae. Including descriptions of new insects by W. L. Distant and R. Shelford. Ann. and Mag. Nat. Hist. 10 (8): 424-438.

BUXACEAE

- Buxus*. Weiss, Freeman, and L. G. Baumhofer. 1940. Culture, diseases and pests of the box tree. U.S. Dept. Agr. Farmers' Bul. 1855, 17 pp.

CACTACEAE

- Cereus giganteus*. Hubbard, H. G., and E. A. Schwarz. 1899. Insect fauna of the giant cactus of Arizona; letters from the Southwest. Psyche 8 (suppl. 1): 1-14.
- Opuntia*. Buller, M. 1965. Ecology of the pricklypear cactus, *Opuntia*, in El Paso County, Colorado, with reference to insect relationships. (Unpublished M.A. thesis, Colorado Col., Colorado Springs.)
- Opuntia*. Hamlin, J. C. 1926. Biological notes on important *Opuntia* insects of the United States. Pan-Pacific Ent. 2 (3): 97-105.
- Opuntia*. Hamlin, J. C. 1932. An inquiry into the stability and restriction of feeding habits of certain cactus insects. Ent. Soc. Amer. Ann. 25 (1): 89-120.

Cactaceae. Hunter, W. D., F. C. Pratt, and J. D. Mitchell. 1912. The principal cactus insects of the United States. U.S. Bur. Ent. Bul. 113, 71 pp.

Cactaceae. Ryckman, R. E., and C. T. Ames. 1953. Insects reared from cacti in Arizona (Dermaptera, Coleoptera, Diptera). Pan-Pacific Ent. 29 (3): 163-164.

CAMPANULACEAE

Campanulaceae. Swezey, O. H. 1919. Insects occurring on plants of Lobelioideae in the Hawaiian Islands. Hawaii. Ent. Soc. Proc. 4 (1): 9-12.

CAPPARIDACEAE

Capparidaceae. Goury, G., and J. Guignon. 1908. Insectes parasites des Capparidees. Feuille Jeunes Nat. 38: 118-119.

CAPRIFOLIACEAE

Lonicera xylosteum. Antessanty, G. 1903. Quelques insectes du *Lonicera xylosteum*. Lavallois-Perret, Ann. Assoc. Nat. 1903: 27-29.

CELASTRACEAE

Euonymus. Guignon, J. 1911. Le genre *Euonymus*. Liste des especes europeenes et exotiques (principales); leurs parasites; insectes et champignons inferieurs. Feuille Jeunes Nat. 41: 70-73.

CHENOPODIACEAE

Beta vulgaris. Bruner, L. 1891. Report on Nebraska insects; beet insects. U.S. Bur. Ent. Bul. 23 (o.s.): 11-18.

Beta. Hawley, I. M. 1925. The more important insects injurious to the sugar-beet in Utah. Utah Agr. Expt. Sta. Cir. 54, 45 pp.

Beta. Stirret, G. M. 1935. A contribution to the knowledge of sugar beet insects in Ontario. A historical review and preliminary survey of the insects associated with sugar-beets. Sci. Agr. 16: 180-196.

CISTACEAE

Cistaceae. Goury, G., and J. Guignon. 1908-9. Insectes parasites des Cistinees. Feuille Jeunes Nat. 38 (1908): 139-140, 145-151, 207-208, 230-233, 251; 39 (1909): 21-25, 44-46, 63-65, 82-85, 95-101, 114-115, 128-139, 188-192.

COMPOSITAE

Ambrosia trifida. Hack, Lewis. 1934. Insects of the giant ragweed (*Ambrosia trifida* Linn.). (Unpublished M.S. thesis, University of Kansas, Lawrence.)

Argyroxiphium. Swezey, O. H. 1928. Insect fauna of the silversword and greensword. Hawaii. Ent. Soc. Proc. 7 (1): 183-185.

Artemisia californica. Sweet, Helen E. 1930. An ecological study of the animal life associated with *Artemisia californica* Less. at Claremont, California. Jour. Ent. and Zool. 22: 57-151.

Artemisia tridentata. Fronk, W. D., A. A. Beetle, and D. G. Fullerton. 1964. Dipterous galls on the *Artemisia tridentata* complex and insects associated with them. Ent. Soc. Amer. Ann. 57 (5): 575-577.

Aster novae-angliae. Loben Sels, E. 1934. Some observations on *Phalacrus politus* and other inhabitants of the heads of the New England aster. N.Y. Ent. Soc. Jour. 42: 319-327.

Aster. Batra, L. R. 1964. Insect-fungus blister galls of *Solidago* and *Aster*. Kans. Ent. Soc. Jour. 37: 227-234.

Baccharis pilularis. Tilden, James W. 1951. The insect associates of *Baccharis pilularis* De Candolle. Microentomology 16 (1): 149-185.

Baccharis. Smith, M. A. 1926. Some ecological relationships of *Baccharis*. Jour. Ent. and Zool. 18 (3): 59-60.

Bidens pilosa. Needham, J. G. 1946. An insect community lives in flower heads. Natl. Geog. 90 (3): 340-356.

- Bidens pilosa*. Needham, J. G. 1948. Ecological notes on the insect population of the flower heads of *Bidens pilosa*. Ecol. Monog. 18: 431-446.
- Centaurea*. Niblett, M. 1955. Some insect inhabitants of the knapweeds (*Centaurea* spp.). London Nat. (1954) 34: 7-10.
- Cirsium horridulum*. Rosewall, O. W. 1922. Insects of the yellow thistle. Ent. News 33: 176-180.
- Cirsium undulatum*. Pendleton, R. C., and A. W. Grundmann. 1954. Use of p³² in tracing some insect-plant relationships of the thistle, *Cirsium undulatum*. Ecology 35 (2): 187-191.
- Dubautia montana*. Davis, C. J. 1953. New host and insect records from the island of Hawaii. Hawaii. Ent. Soc. Proc. 15: 85-86.
- Helianthus*. Breland, O. P. 1939. Additional notes on sunflower insects. Ent. Soc. Amer. Ann. 32 (4): 719-726.
- Helianthus*. Cockerell, T. D. A. 1914. Bees visiting *Helianthus*. Canad. Ent. 46 (12): 409-415.
- Helianthus*. Cockerell, T. D. A. 1915. Sunflower insects. Canad. Ent. 47 (9): 280-282.
- Helianthus*. Cockerell, T. D. A. 1916. Sunflower insects in California and South Africa. Canad. Ent. 48 (3): 76-79.
- Helianthus*. Cockerell, T. D. A. 1917. Some sunflower insects. Jour. Econ. Ent. 10 (6): 561-562.
- Helianthus*. Cockerell, T. D. A. 1917. Sunflower insects in Virginia and Connecticut. Canad. Ent. 49 (6): 212.
- Helianthus*. Satterthwait, A. F. 1948. Important sunflower insects and their insect enemies. Jour. Econ. Ent. 41 (5): 725-731.
- Helianthus*. Seiss, C. F. 1897. Hemiptera on sunflowers. Ent. News 8: 67.
- Helianthus*. Walker, F. H. 1936. Observations on sunflower insects in Kansas. Kans. Ent. Soc. Jour. 9 (1): 16-25.
- Helianthus*. Westdal, P. H., and C. F. Barrett. 1955. Insect pests of sunflowers in Manitoba. Canada Dept. Agr. Pub. 944, 8 pp.
- Lactuca*. Shaw, E. L. 1930. Insects from *Lactuca* stems. N.Y. Ent. Soc. Jour. 38: 463-468.
- Senecio jacobaea*. Cameron, E. 1935. A study of the natural control of ragwort (*Senecio jacobaea* L.). Jour. Ecol. 23 (2): 265-322.
- Senecio*. Frick, K. E. 1964. Some endemic insects that feed upon introduced tansy ragwort (*Senecio jacobaea*) in western United States. Ent. Soc. Amer. Ann. 57 (6): 707-710.
- Solidago*. See *Aster*. Batra, 1964.
- Solidago*. Brodie, W. 1892. Canadian galls and their occupants. *Eurosta solidaginus* Fitch. Canad. Ent. 24: 137-139.
- Solidago*. Farr, T. 1948. Insects of *Solidago* spp. (Unpublished, M.S. thesis, Michigan State Col. of Agr. and Appl. Sci., East Lansing.)
- Solidago*. Harrington, W. H. 1895. Occupants of the galls of *Eurosta solidaginus* Fitch. Canad. Ent. 27: 197-198.
- Solidago*. Judd, W. W. 1953. Insects reared from goldenrod galls caused by *Eurosta solidaginus* Fitch (Diptera: Trypetidae) in southern Ontario. Canad. Ent. 85 (8): 294-296.
- Solidago*. McClure, H. E. 1940. Hostess golden rod. Nature Notes 7: 263-267.
- Solidago*. Milne, L. J. 1940. Autecology of the golden rod gall fly. Ecology 21: 101-105, 1 fig.
- Solidago*. Ping, Chi. 1915. Some inhabitants of the roundgall of goldenrod. Jour. Ent. and Zool. 7: 161-179.
- Taraxacum*. Hardtl, H. 1953. Untersuchungen über die Fauna der *Taraxacum*-Arten. Beitr. Z. Ent. 3: 69-95.
- Vernonia baldwini* v. *interior*. Schwitzgebel, R. B., and D. A. Wilbur. 1942. Coleoptera associated with ironweed, *Vernonia interior* Small, in Kansas. Kans. Ent. Soc. Jour. 15 (2): 37-44.
- Vernonia baldwini* v. *interior*. Schwitzgebel, R. B., and D. A. Wilbur. 1942. Lepidoptera, Hemiptera and Homoptera associated with ironweed, *Vernonia interior* Small, in Kansas. Kans. Acad. Sci. Trans. 45: 195-202.
- Vernonia baldwini* v. *interior*. Schwitzgebel, R. B., and D. A. Wilbur. 1943. Diptera associated with ironweed, *Vernonia interior*, in Kansas. Kans. Ent. Soc. Jour. 16 (1): 4-13.

CONVOLVULACEAE

- Convolvulus americanus* & *arvensis*. Smith, Roger C. 1938. A preliminary report on the insects attacking bindweed, with special reference to Kansas. Kans. Acad. Sci. Trans. 41: 183-191.

- Cuscuta*. Pierce, W. D. 1939. The dodder and its insects. South. Calif. Acad. Sci. Bul. 38: 43-53.
Ipomoea batatas. Edwards, W. H. 1930. Insect pests of sweet potato and of cassava in Jamaica. Ent. Bul. 5, 12 pp.

CRUCIFERAE

- Brassica napus*. Hossfeld, R. 1963. Synecological comparison of the fauna of winter and summer rape fields; a contribution to agrarian ecology. Ztschr. f. Angew. Ent. 52 (3): 209-254.
Lepidium montanum v. *alyssoides*. Romney, V. E. 1946. The insect community found on a perennial peppergrass in southern New Mexico and southwestern Texas. Ecology 27 (3): 258-262.
Cruciferae. Bonnemaïson, L. 1965. Insect pests of crucifers and their control. Ann. Rev. Ent. 10: 233-256.
Cruciferae. Goury, G., and J. Guignon. 1906-7. Les insectes parasites des Cruciferes. Feuille Jeunes Nat. 36 (1906): 65-69, 97-99, 113-117, 125-132, 144-148, 158-161, 176-177, 193-200; 37 (1907): 14-17, 28-32, 44-46, 96-98, 112-117, 142-143, 160-162, 177-184, 209-213.
Cruciferae. Hering, P. E. 1932. The insect fauna of the mustard family (Cruciferae). (Unpublished Ph.D. thesis, Cornell Univ., Ithaca.)

CUCURBITACEAE

- Cucurbitaceae. Fronk, W. D., and J. A. Slater. 1956. Insect fauna of cucurbit flowers. Kans. Ent. Soc. Jour. 29 (4): 141-145.

CUPRESSACEAE

- Juniperus virginiana* & *communis*. Marcovitch, S. 1915. The biology of the juniper berry insects, with descriptions of new species. Ent. Soc. Amer. Ann. 8 (2): 163-181.

CYPERACEAE

- Cyperus esculentus*. Satterthwait, A. F. 1942. Weevils affecting Chufa (*Cyperus esculentus*). Ent. News 53: 37-43.
Cyperus papyrus. Thornton, I. W. B. 1957. Faunal succession in umbels of *Cyperus papyrus* L. on the upper White Nile. Roy. Ent. Soc., London, Proc. Ser. A: Gen. Ent. 32 (7/9): 119-131.
Cyperus papyrus. Weber, N. A. 1942. A biocoenose of papyrus heads (*Cyperus papyrus*). Ecology 23: 115-119.
Cyperaceae. Poinar, G. O., Jr. 1964. Observations on nutgrass insects in Hawaii with notes on the host range of *Bactra truculenta* Meyrick and *Athesapenta cyperi* Marshall. Hawaii. Ent. Soc. Proc. 18 (3): 417-423.

DROSERACEAE

- Droseraceae. Goury, G., and J. Guignon. 1914. Insectes parasites des Droseracees et des Frankeniacees. Feuille Jeunes Nat. 44: 81-83.

ELEAGNACEAE

- Hippophae rhamnoides*. Theobald, F. V. 1919. Insects of the sea buckthorn. Entomologist [London] 52: 169-171.

ERICACEAE

- Chamaedaphne calyculata*. Judd, W. W. 1960. Studies of the Byron Bog in southwestern Ontario. XI. Seasonal distribution of adult insects in the *Chamaedaphnetum calyculatae* association. Canad. Ent. 92 (4): 241-251.
Gaylussacia. Phipps, C. R. 1930. Blueberry and huckleberry insects. Maine Agr. Expt. Sta. Bul. 356, pp. 107-232.
Rhododendron. English, L. L., and G. F. Turnipseed. 1940. Insect pests of azaleas and camellias and their control. Ala. Agr. Expt. Sta. Cir. 84. 18 pp.

- Rhododendron*. Smith, F. F. 1942. Relationship of insects to the spread of azalea flower spot. U.S. Dept. Agr. Tech. Bul. 798, 43 pp.
- Vaccinium*. Darlington, E. P. 1952. Notes on the blueberry Lepidoptera of New Jersey. Amer. Ent. Soc. Trans. 78: 33-57.
- Vaccinium*. Franklin, H. J. 1928. Cape Cod cranberry insects. Mass. Agr. Expt. Sta. Bul. 239, 67 pp.
- Vaccinium*. Neilsen, W. T. A. 1955. Sawflies collected from low-bush blueberry fields in New Brunswick. Canad. Ent. 87: 356-357.
- Vaccinium*. See *Gaylussacia*. Phipps, 1930.
- Vaccinium*. Woods, W. C. 1915. Blueberry insects in Maine. Maine Agr. Expt. Sta. Bul. 244, pp. 249-288.

EUPHORBIACEAE

- Euphorbia albomarginata*. Krombein, Karl V. 1961. Some insect visitors of mat euphorbia in southeastern Arizona (Hymenoptera, Diptera). Ent. News 72 (3): 80-83.
- Manihot utilisima*. See CONVOLVULACEAE, *Ipomea*. Edwards, 1930.

FAGACEAE

- Fagus grandifolia*. Harrington, W. H. 1896. Some beetles occurring upon beech. Ent. Soc. Ontario, Am. Rpt. 27: 69-75.
- Quercus palustris* & *rubra*. Bray, D. F., and C. A. Triplehorn. 1953. Survey of the insect fauna of red and pin oaks in Delaware. Del. Agr. Expt. Sta. Bul. (Tech.) 128, pp. 143-185.
- Quercus*. Brezner, J. 1960. Biology, ecology and taxonomy of insects infesting acorns. Mo. Agr. Expt. Sta. Res. Bul. 726, 40 pp.
- Quercus*. Brooks, F. E. 1910. Snout beetles that injure nuts. W. Va. Agr. Expt. Sta. Bul. 128, pp. 145-185.
- Quercus*. Dorsey, C. K., and J. G. Leach. 1956. The bionomics of certain insects associated with oak wilt with particular reference to the Nitidulidae. Jour. Econ. Ent. 49 (2): 219-230.
- Quercus*. Murtfeldt, M. E. 1894. Acorn insects, primary and secondary. Insect Life 6: 318-324.
- Quercus*. Patton, W. H. 1897. Acorn insects. Ent. News 8 (4): 76-77.
- Quercus*. See PINACEAE, *Pinus*. Savely, 1939.
- Quercus*. Winston, Paul W. 1956. The acorn microsere, with special reference to arthropods. Ecology 37 (1): 120-132.

FRANKENIACEAE

- Frankeniaceae. See DROSERACEAE. Goury, G., and J. Guignon, 1914.

FUMARIACEAE

- Fumariaceae. See PAPAVERACEAE. Goury and Guignon, 1905.

GRAMINEAE

- Bouteloua eriopoda*. Watts, J. G. 1963. Insects associated with black grama grass, *Bouteloua eriopoda*. Ent. Soc. Amer. Ann. 56 (3): 374-379.
- Elymus canadensis*. Webster, F. M. 1903. Some insect inhabitants of the stems of *Elymus canadensis*. U.S. Bur. Ent. Bul. 40: 92-93.
- Eragrostis variabilis*. Bridwell, J. C. 1920. The insect fauna of the Hawaiian bunch grasses (*Eragrostis variabilis* and allies). Hawaii. Ent. Soc. Proc. 4 (2): 278-283.
- Euchlaena mexicana*. See *Zea mays*. Painter, 1955.
- Festuca novae-zelandiae*. Kelsey, J. M. 1957. Insects attacking tussock. New Zeal. Jour. Sci. and Technical. 38 (6): 638-643.
- Oryza*. Douglas, W. A., and J. W. Ingram. 1942. Rice field insects. U.S. Dept. Agr. Cir. 632, 32 pp.
- Panicum torridum*. Swezey, O. H. 1923. Insect fauna of *Panicum torridum*, a native grass in Hawaii. Hawaii. Ent. Soc. Proc. 7 (1): 179-182.

- Poa caespitosa* & *colensoi*. See *Festuca*. Kelsey, 1957.
- Saccharum officinarum*. Bodkin, G. E. 1913. Insects injurious to sugar cane in British Guiana, and their natural enemies. Brit. Guiana Bd. Agr. Jour. 7 (1): 29-32.
- Saccharum officinarum*. Box, H. E. 1953. List of sugar cane insects, a synonymic catalogue of the sugar-cane insects and mites of the world, and of their insect parasites and predators, arranged systematically. 101 pp. Commonwealth Inst. Ent., London.
- Saccharum officinarum*. Holloway, T. E., and U. C. Loftin. 1919. Insects attacking sugar cane in the United States. Jour. Econ. Ent. 12: 448-450.
- Saccharum officinarum*. Holloway, T. E. 1930. Sugar cane insects of North America and the West Indies (excluding Cuba). A bibliography and list of known parasites, insect predators and diseases. Internatl. Soc. Sugar Cane Technol., Cong. Soerabaia (1929) 3: 184-216.
- Saccharum officinarum*. Kirkaldy, G. W. 1909. A bibliography of sugar cane entomology. Hawaii Sugar Planters' Assoc. Expt. Sta., Bul. Ent. Ser. 8: 1-73.
- Saccharum officinarum*. Pemberton, C. E. 1963. Important Pacific insect pests of sugar cane. Pacific Sci. 17 (2): 251-252.
- Saccharum officinarum*. Van Dine, D. L. 1913. Insects injurious to sugar cane in Porto Rico and their natural enemies. Brit. Guiana Bd. Agr. Jour. 6 (4): 199-203.
- Saccharum officinarum*. Wade, J. S. 1951. A selected bibliography of the insects of the world associated with sugar cane, their predators and parasites. Internatl. Soc. Sugar Cane Technol. Mem. 1, 113 pp.
- Saccharum officinarum*. Williams, F. X. 1931. Handbook of the insects and other invertebrates of Hawaiian sugar cane fields. 400 pp. Hawaii Sugar Planters' Assoc., Honolulu.
- Secale*. Manson, D. C. M. 1959. Insects and mites associated with rye-grass. New Zeal. Jour. Agr. Res. 2 (1): 169-173.
- Sorghum sudanense*. Newell, Wilmon. 1915. Insect enemies of Sudan grass. Tex. Agr. Expt. Sta. Cir. 7, 18 pp.
- Sorghum*. Hayes, W. P. 1922. A preliminary list of insects of the sorghum field. Kans. Acad. Sci. Trans. 30: 235-240.
- Spartina pectinata*. Hendrickson, G. O. 1931. Subterranean insects of marsh grass (*Spartina michauxiana*). Canad. Ent. 63 (5): 109-110.
- Triticum* spp. Painter, Reginald H., Harry R. Bryson, and Donald A. Wilbur. 1954. Insects and mites that attack wheat in Kansas. Kans. Agr. Expt. Sta. Bul. 367, 47 pp.
- Uniola paniculata*. Schwarz, E. A. 1890. On the insects found on *Uniola paniculata* in southeastern Florida. Ent. Soc. Wash. Proc. 1 (2): 104-107.
- Uniola paniculata*. Wagner, R. 1964. The ecology of *Uniola paniculata* L. in the dune-strand habitat of North Carolina. Ecol. Monog. 34 (1): 81-96.
- Zea mays*. Everly, R. T. 1938-40. Spiders and insects found associated with sweetcorn with notes on the food and habits of some species. Ohio Jour. Sci. 38 (3): 136-148; 38 (6): 311-315; 39 (1): 48-56; 40 (3): 143-146.
- Zea mays*. Forbes, S. A. 1905. A monograph of insect injuries to Indian corn. Part II. Ill. Ent. Rpt. 23, 273 pp.
- Zea mays*. Forbes, S. A. 1909. The general entomological ecology of the Indian corn plant. Amer. Nat. 43: 286-301.
- Zea mays*. Neiswander, C. R. 1931. The sources of American corn insects. Ohio Agr. Expt. Sta. Bul. 473, 98 pp.
- Zea mays*. Painter, R. H. 1955. Insects on corn and teosinte in Guatemala. Jour. Econ. Ent. 48 (1): 36-42.
- Gramineae. Felt, E. P. 1894. On certain grass-eating insects. A synopsis of the species of of the Ithaca fauna. N.Y. [State] Agr. Expt. Sta. Bul. 64, pp. 45-102.

IRIDACEAE

- Gladiolus tristis*. Kelsheimer, E. G. 1956. Insects and other pests of gladiolus. Fla. Agr. Expt. Sta. Cir. S-91, 24 pp.
- Iris versicolor*. Needham, James G. 1900. The fruiting of the blue flag (*Iris versicolor* L.). Amer. Nat. 34: 361-386.
- Iris*. Van de Water, L. 1955. Insect pests and diseases of iris and daylily. Plants and Gard. 11 (1): 57-62.

JUGLANDACEAE

- Carya glabra*. Blackman, M. W., and H. H. Stage. 1924. On the succession of insects living in the bark and wood of dying, dead and decaying hickory. N.Y. State Col. Forestry, Syracuse Univ., Tech. Pub. 17 (v. 24, No. 22): 3-35.
- Carya illinoensis*. Mozzette, G. F., T. L. Bissell, H. S. Adair. 1931. Insects of the pecan and how to combat them. U.S. Dept. Agr. Farmers' Bul. 1654, 59 pp.
- Carya illinoensis*. Mozzette, G. F., C. B. Nickels, W. C. Pierce, et al. 1940. Insects and diseases of the pecan and their control. U.S. Dept. Agr. Farmers' Bul. 1829, 70 pp.
- Carya illinoensis*. Phillips, A. M., J. R. Large, and J. R. Cole. 1960. Insects and diseases of the pecan in Florida. Fla. Agr. Expt. Sta. Bul. 619, 84 pp.
- Juglans*. Barrett, R. E. 1932. An annotated list of the insects and arachnids affecting the various species of walnuts or members of the genus *Juglans*. Calif. Univ., Pubs., Ent. 5: 275-309.
- Juglans*. Michelbacher, A. E., and J. C. Ortega. 1958. A technical study of insects and related pests attacking walnuts. Calif. Agr. Expt. Sta. Bul. 764, 86 pp.

LAURACEAE

- Persea americana*. McKenzie, H. L. 1935. Biology and control of avocado insects and mites. Calif. Agr. Expt. Sta. Bul. 592, 48 pp.
- Persea americana*. Mozzette, G. F. 1919. Annotated list of the injurious and beneficial insects of the avocado in Florida. Fla. Buggist 3 (3): 45-58.
- Persea americana*. Wolfenbarger, D. O. 1958. Insect pests of the avocado and their control. Fla. Agr. Expt. Sta. Bul. 605, 51 pp.

LEGUMINOSAE

- Acacia decurrens* & *koaia*. Davis, C. J. 1953. New host and insect records from the island of Hawaii. Hawaii. Ent. Soc. Proc. 15: 85-86.
- Acacia*. Bytinski-Salz, H. 1954. Insects associated with desert acacias in Israel. Res. Coun. Israel Bul. 4 (3): 284-292.
- Acacia*. Froggatt, W. W. 1902. Insects of the wattle trees. Agr. Gaz. N. S. Wales 13: 701-720, 3 pl. (Misc. Pub. 581).
- Acacia*. Ossowski, L. L. J., and G. B. Wortman. 1959. An annotated list of wattle insects and spiders of southern Africa. Natal Univ. Col., Pietermaritzburg, Wattle Res. Inst. Rept. 12: 32-49.
- Amorpha fruticosa*. Brandhorst, Carl. T. 1961. The microcommunity associated with *Amorpha fruticosa* L. Gall of *Walshia amorphella* Clemens. Ent. Soc. Amer., No. Cent. Br. Proc. 16: 13-14.
- Amorpha fruticosa*. Brandhorst, C. T. 1962. The microcommunity associated with the gall of *Walshia amorphella* (Lepidoptera: Cosmopterygidae) on *Amorpha fruticosa*. Ent. Soc. Amer. Ann. 55: 476-479.
- Astragalus* and *Oxytropis*. Chittenden, F. H. 1908. Insects injurious to the loco weed. U.S. Bur. Ent. Bul. 64 (5): 33-42.
- Baptisia tinctoria*. Frost, S. W. 1945. Insects feeding on indigo, *Baptisia*. N.Y. Ent. Soc. Jour. 53: 219-225.
- Baptisia*. Frost, S. W. 1946. Additional notes on *Baptisia* insects. N.Y. Ent. Soc. Jour. 54: 16.
- Cercis canadensis*. Parker, R. L. 1939. Insects which attack the redbud. Kans. State Hort. Soc. Bien. Rpt. (1938-39) 45: 239-242.
- Dalbergia sissoo*. Beeson, C. F. C. 1938. A guide to the insects of *Dalbergia sissoo*. Ind. For. Rec. (n.s.) Ent. 4: 1-42.
- Dorycnium suffruticosum*. Suire, J. 1961. Biocenose du *Dorycnium suffruticosum* VIII. Montpellier École Natl. de Agr. Ann. 30 (4): 23-49, 2 pl.
- Dorycnium*. Suire, J. 1949-50. Faune entomologique de quelques plantes spontanées de la région de Montpellier. I-Les insectes des *Dorycnium*. Entomologiste 5 (1949): 177-186; 6 (1950): 4-13, 10 fig.
- Glycine max*. Balduf, W. V. 1923. The insects of the soybean in Ohio. Ohio Agr. Expt. Sta. Bul. 366, pp. 147-181.
- Glycine max*. Myers, C. V. 1940. Insects inhabiting soybean fields. (Unpublished M.S. thesis, Univ. of Illinois, Urbana.) 69 pp.

- Lotus corniculatus*. Neunzig, H. H., and G. G. Gyrisco. 1955. Some insects injurious to birds-foot trefoil in New York. Jour. Econ. Ent. 48 (4): 447-450.
- Lupinus polyphyllus*. Rockwood, L. P. 1951. Notes on insects associated with *Lupinus polyphyllus* Lindl. in the Pacific Northwest. Pan-Pacific Ent. 27 (4): 149-156.
- Medicago sativa*. Dean, George A. 1916. Insects injurious to alfalfa. Kans. Agr. Expt. Sta. Bul. 5, 36 pp.
- Melilotus alba*. Stewart, M. A. 1930. The insect visitants and inhabitants of *Melilotus alba*. N.Y. Ent. Soc. Jour. 38: 43-46.
- Oxytropis*. See *Astragalus*, Chittenden, 1908.
- Robinia pseudoacacia*. Schwarz, E. A. 1891. Coleoptera on black locust (*Robinia pseudoacacia*). Ent. Soc. Wash. Proc. 2 (1): 73-76.
- Trifolium pratense*. Niemczyk, H. D., and G. E. Guyer. 1961. A survey of insects infesting red clover heads. Ent. Soc. Amer., No. Cent. Br. Proc. 16: 47-48.
- Trifolium*. Webster, F. M. 1882. Clover insects. Amer. Nat. 16: 746.
- Vigna sinensis*. Bissell, T. L. 1938. The host plants and parasites of the cowpea curculio and other legume infesting weevils. Jour. Econ. Ent. 31 (4): 534-536.
- Vigna sinensis*. Bissell, T. L. 1940. Curculionidae, Bruchidae, Lepidoptera and their parasites infesting the seed pods of cowpea and various wild plants. Jour. Econ. Ent. 33 (6): 844-847.
- Leguminosae. Guppy, J. C. 1958. Insect surveys of clovers, alfalfa, and birdsfoot trefoil in Eastern Ontario. Canad. Ent. 90 (9): 523-531.
- Leguminosae. Wheeler, W. M. 1942. Studies of neotropical antplants and their ants. Mus. Comp. Zool. Bul. v. 90, No. 1, 262 pp.

LEMNACEAE

- Lemna minor*. Scotland, M. B. 1934. The animals of the *Lemna* association. Ecology 15: 290-294.
- Lemna minor*. Scotland, M. B. 1940. Review and summary of studies of insects associated with *Lemna minor*. N.Y. Ent. Soc. Jour. 48: 319-333.
- Lemna*. Scotland, M. B. 1939. The lemna fly and some of its parasites. Ent. Soc. Amer. Ann. 32 (4): 713-718.

LILIACEAE

- Dasylyrion wheeleri*. Hubbard, H. G. 1901. Letters from the southwest. Insect fauna of *Dasylyrion wheeleri*. Ent. Soc. Wash. Proc. 4 (4): 381-382.
- Hemerocallis*. See IRIDACEAE, *Iris*. Van de Water, 1955.
- Lilium martagon*. Hesse, E. 1928-31. Insektenfrass an *Lilium martagon* L. Ztschr. f. Wiss. Insektenbiol. 23 (1928): 204-205; 25 (1930): 88-90; 26 (1931): 77-79.
- Trillium grandiflorum*. Judd, W. W. 1952. *Cacoecia melaleucana* Walker (Tortricidae) and its hymenopterous parasites reared from *Trillium grandiflorum*. (Michx.) Salisb. Amer. Micros. Soc. Trans. 71 (2): 125-128.
- Tulipa*. Shibata, Kikuo. 1962. Insects associated with the leaves of tulip. Kontyu (Insect) 30: 213-215.
- Yucca filamentosa*. 1892. Townsend, C. H. T. Insects frequenting *Yucca* blooms. Zoe 3 (2): 113-115.
- Yucca*. Riley, C. V. 1893. Further notes on yucca insects and yucca pollination. Biol. Soc. Wash. Proc. 8: 41-54.

LORANTHACEAE

- Phoradendron flavescens*. Tucker, E. S. 1922. Studies of insects associated with the American mistletoe. Kans. Acad. Sci. Trans. 30: 143-170.
- Phoradendron flavescens*. Schwarz, E. A. 1901. On the insect fauna of the mistletoe. Ent. Soc. Wash. Proc. 4 (4): 392-394.
- Viscum album*. Schumacher, F. 1917. Ueber die insekten der Mistel, *Viscum album* L. Deut. Ent. Ztschr. 1917: 340-343.
- Loranthaceae. Gill, Lake S., and F. G. Hawksworth. 1961. The mistletoes, a literature review. U.S. Dept. Agr. Tech. Bul. 1242, 87 pp.

MAGNOLIACEAE

Magnoliaceae. Heiser, C. B. 1962. Some observations on pollination and compatibility in *Magnolia*. Ind. Acad. Sci. Proc. 72: 259-266.

MALVACEAE

- Gossypium thurberiae*. Pierce, W. D., and A. W. Morrill. 1914. Notes on the entomology of the Arizona wild cotton. Ent. Soc. Wash. Proc. 16 (1): 14-23.
- Gossypium tomentosum*. Swezey, O. H. 1935. Insect fauna of *Gossypium tomentosum*. Hawaii. Ent. Soc. Proc. 9: 96-98.
- Gossypium*. Folsom, J. W. 1936. Notes on little-known cotton insects. Jour. Econ. Ent. 29 (2): 282-285.
- Gossypium*. Gaines, J. C. 1959. Cotton Insects. Tex. A&M Col. Ext. Bul. 933, 16 pp.
- Gossypium*. Hargreaves, H. 1948. List of recorded cotton insects of the world. 50 pp. Commonwealth Inst. Ent., London.
- Gossypium*. Little, V. A., and D. F. Martin. 1942. Cotton insects of the United States. 130 pp. Burgess Pub. Co., Minneapolis.
- Gossypium*. Okumura, George T. 1961. Identification of lepidopterous larvae attacking cotton. Calif. Dept. Agr. Spec. Pub. 282: 3-80.
- Gossypium*. Smith, G. L. 1942. California cotton insects. Calif. Agr. Expt. Sta. Bul. 660, 50 pp.
- Gossypium*. Telford, A. D. 1957. Arizona cotton insects. Ariz. Agr. Expt. Sta. Bul. 286, 60 pp.
- Gossypium*. Whitcomb, W. H., and K. Bell. 1964. Predaceous insects, spiders and mites of Arkansas cotton fields. Ark. Agr. Expt. Sta. Bul. 690, 84 pp., 20 figs.
- Hibiscus moscheutos*. Weiss, H. B., and E. L. Dickerson. 1919. Insects of the swamp rose-mallow, *Hibiscus moscheutos* L., in New Jersey. N.Y. Ent. Soc. Jour. 27: 39-68.

MORACEAE

- Cannabis sativa*. Goidanich, A. 1928. Contributi alla conoscenza dell'entomofauna della Canapa. Lab. Ent. Ist. Sup. Agrar. Bologna Bol. 1: 37-64.
- Ficus*. Condit, I. J. and J. Enderud. 1956. A bibliography of the fig. Hilgardia v. 25, 663 pp.
- Ficus*. Froggatt, W. W. 1900. Insects living in figs, with some account of caprification. Agr. Gaz. N. S. Wales 11 (6): 447-456. (Misc. Pub. 388).
- Humulus*. Hawley, I. M. 1918. Insects injurious to the hop in New York; with special reference to the hop grub and the hop redbug. N.Y. (Cornell) Agr. Expt. Sta. Mem. 15: 147-224.
- Morus*. Chen, Kan-fan. 1931. A preliminary list of the mulberry-tree insects of Chekiang Province, China. [Chekiang, China] Bur. Ent. and Phytopath. Tech. Bul. [Hangchow] 3, 6 pp. [In English and Chinese.]

MYRICACEAE

- Myrica faya*. Krauss, N. L. H. 1964. Insects associated with firebush (*Myrica faya* Aiton). Hawaii. Ent. Soc. Proc. 18 (3): 405-411.

MYRTACEAE

- Eucalyptus*. Scaramuzza, L. C. 1951. Insectos observados en *Eucalyptus* spp. Hist. Nat. Soc. Felipe Poey, Bol. 2: 86-89.

NYCTAGINACEAE

- Mirabilis nyctaginea*. Balduf, W. V. 1962. The *Mirabilis*-insect community in Illinois. Ill. State Acad. Sci. Trans. 65 (1): 42-47.
- Mirabilis nyctaginea*. Wester, Clifford. 1956. Comparative bionomics of two species of *Heliodines* on *Mirabilis*. Ent. Soc. Wash. Proc. 58 (1): 43-46.
- Mirabilis nyctaginea*. Wester, Clifford. 1956. Notes on the bionomics of *Onychobaris subtonsa* Leconte on *Mirabilis*. Ent. Soc. Wash. Proc. 58 (2): 105-108.
- Mirabilis nyctaginea*. Wester, Clifford. 1956. Notes on the bionomics of the natural enemies of the insects on *Mirabilis*. Ent. Soc. Wash. Proc. 58 (5): 283-286.

NYMPHAEACEAE

- Nymphaea*. Wilson, G. F. 1928. Some pests of waterlilies. Roy. Hort. Soc. Jour., Ser. 2, 53: 81-91.
- Nymphaeaceae. Goury, G. and J. Guignon. 1905. Les insectes parasites des Nymphaeaceae. Feuille Jeunes Nat. 35: 37-39.

ONAGRACEAE

- Oenothera biennis*. Dickerson, E. L. and H. B. Weiss. 1920. The insects of the evening primroses in New Jersey. N.Y. Ent. Soc. Jour. 28: 32-74.
- Oenothera biennis*. Weiss, H. B. 1922. The evening primrose in relation to insects. Canad. Ent. 54 (9): 193-195.
- Oenothera*. Linsley, E. G., J. W. MacSwain, and P. H. Raven. 1964. Comparative behavior of bees and Onagraceae. III. *Oenothera* bees of the Mojave Desert, California. Calif. Univ., Pubs., Ent. 33 (2): 59-98, 3 pl.

ORCHIDACEAE

- Orchidaceae. Bingham, A. J. 1958. A simplified pest control system. Amer. Orchid Soc. Bul. 27 (10): 670-671.
- Orchidaceae. Carter, Walter. 1944. Some insects and related pests of orchids. Pacific Orchid Soc. Bul. 3 (4): (Reference not seen.)
- Orchidaceae. Darwin, Charles. 1862. On the various contrivances by which British and foreign orchids are fertilized by insects. 360 pp. John Murray, London.
- Orchidaceae. Darwin, Charles. 1869. Notes on the fertilization of orchids. Ann. Mag. Nat. Hist., Ser. 4, 4 (21): 141-158.
- Orchidaceae. Darwin, Charles. 1877. The various contrivances by which orchids are fertilized by insects. Ed. 2, rev. 300 pp. D. Appleton & Co., New York.
- Orchidaceae. Jefferson, R. N., and F. S. Morishita. 1956. Orchid pests and their control. Amer. Orchid Soc. Bul. 25 (2): 107-116.
- Orchidaceae. Nishida, T., and W. W. Boyle. 1957. Insect and mite pests of orchids. Hawaii Farm Sci. [Hawaii Agr. Expt. Sta.] 6 (2): 7-8.
- Orchidaceae. Pring, G. H. 1944. Some orchid insect pests. Mo. Bot. Gard. Bul. 32: 103-111.
- Orchidaceae. Pritchard, A. E. 1959. Orchid pests and their control. Pp. 459-475, in C. L. Withner, The Orchids. Ronald Press, New York.
- Orchidaceae. Swezey, O. H. 1945. Insects associated with orchids. Hawaii. Ent. Soc. Proc. 12 (2): 343-403.
- Orchidaceae. Weiss, Harry B. 1917. Some unusual orchid insects (Hem., Lep., Dip., Col.). Ent. News 28 (1): 24-29.

PALMAE

- Cocos nucifera*. Banks, C. S. 1906. The principal insects attacking the coconut palm. Part II. Philippine. Jour. Sci. 1 (3): 211-228, 10 pl.
- Cocos nucifera*. Menon, K. P. V., and K. M. Pandalai. 1958. Pests [of the Coconut Palm]. Ch. 14, i.e., pp. 250-292, in Indian Central Coconut Committee, Ernakulam-S. India, The coconut palm--a monograph.
- Cocos nucifera*. Urich, F. W., and P. L. Guppy. 1911. Preliminary notes on some insects affecting the coconut palm. Trinidad and Tobago Dept. Agr. Cir. 5: 7-24, 3 pl.
- Phoenix*. Stickney, F. S., D. F. Barnes, and P. Simmons. 1950. Date palm insects in the United States. U.S. Dept. Agr. Cir. 846, 57 pp., 16 fig.
- Palmae. Lepesme, P. 1947. Les insectes des palmiers. 903 pp. Lechevalier, Paris.

PANDANACEAE

- Freycinetia arborea*. Swezey, O. H. 1936. The insect fauna of Ieie (*Freycinetia arborea*) in Hawaii. Hawaii. Ent. Soc. Proc. 9 (2): 191-208.

PAPAVERACEAE

- Papaveraceae. Goury, G., and J. Guignon. 1905. Insectes parasites des Papaveraceae et des Fumariaceae. Feuille Jeunes Nat. 35: 105-109, 119-122.

PINACEAE

- Abies*. Fichter, Edson. 1939. An ecological study of Wyoming spruce-fir forest arthropods with special reference to stratification. Ecol. Monog. 9 (2): 183-215.
- Larix laricina*. Blackman, M. W., and H. H. Stage. 1918. Notes on insects bred from the bark and wood of the American larch *Larix laricina* (DuRoi) Koch. N.Y. State Col. Forestry, Syracuse Univ., Tech. Pub. 10 (v. 18, No. 4): 11-115.
- Larix laricina*. Swaine, J. M. 1911. Some insects of the larch. Ent. Soc. Ontario, Ann. Rpt. 41: 81-88.
- Picea excelsa*. See Pinaceae. Taylor, 1928.
- Picea*. See *Abies*. Fichter, 1939.
- Picea*. Brown, A. W. A. 1941. Foliage insects of spruce in Canada. Canada Dept. Agr. Tech. Bul. 31, 29 pp.
- Pinus banksiana*. Butcher, J. W., and A. C. Hodson. 1949. Biological and ecological studies on some lepidopterous bud and shoot insects of jack pine (Lepidoptera, Olethreutidae). Canad. Ent. 81 (7): 161-173.
- Pinus echinata & taeda*. Yearian, W. C., and L. O. Warren. 1964. Insects of pine cones in Arkansas. Kans. Ent. Soc. Jour. 37: 259-264.
- Pinus edulis*. Little, E. L. 1943. Common insects on pinyon (*Pinus edulis*) N. Y. Ent. Soc. Jour. 51 (4): 239-252.
- Pinus ponderosa v. jeffreyi*. Lange, W. H. 1937. An annotated list of the insects, mostly Coleoptera, associated with Jeffrey pine in Lassen National Forest, California. Pan-Pacific Ent. 13 (4): 172-175.
- Pinus resinosa & strobus*. Thomas, J. B. 1955. Notes on insects and other arthropods in red and white pine logging slash. Canad. Ent. 87 (8): 338-344.
- Pinus strobus*. See Pinaceae. Taylor, 1928.
- Pinus sylvestris*. See Pinaceae. Taylor, 1928.
- Pinus virginiana*. Howden, H. F., and G. B. Vogt. 1951. Insect communities of standing dead pine (*Pinus virginiana* Mill.) Ent. Soc. Amer. Ann. 44 (4): 581-595.
- Pinus*. Freeman, T. H. 1960. Needle-mining Lepidoptera of pine in North America. Canad. Ent. v. 92, Suppl. 160, 51 pp.
- Pinus*. Ramsey, Helen. 1941. Fauna of pine bark. Elisha Mitchell Sci. Soc. Jour. 57: 91-97.
- Pinus*. Savely, H. E. 1939. Ecological relations of certain animals in dead pine and oak logs. Ecol. Monog. 9 (3): 323-385.
- Pinus*. Struble, G. R. 1930. The biology of certain Coleoptera associated with bark beetles in western yellow pines. Calif. Univ., Pubs., Ent. 5: 105-134.
- Pinus*. Thatcher, Robert C. 1960. Bark beetles affecting southern pines; a review of current knowledge. U.S. Forest Service, So. Forest Expt. Sta. Occas. Paper 180, 25 pp.
- Pinus*. Tragardh, I. 1928. Investigations of the fauna of a dying tree. Fourth Internatl. Cong. Ent., Trans. 2: 773-780.
- Pseudotsuga menziesii*. Bedard, W. D. 1938. An annotated list of the insect fauna of Douglas Fir (*Pseudotsuga mucronata* Rafinesque) in the northern Rocky Mountain Region. Canad. Ent. 70 (9): 188-197.
- Sequoia* and *Sequoiadendron*. DeLeon, Donald. 1952. Insects associated with *Sequoia sempervirens* and *Sequoia gigantea* in California. Pan-Pacific Ent. 28 (2): 75-91.
- Pinaceae. Miller, J. M. 1914. Insect damage to the cones and seeds of Pacific coast conifers. U.S. Dept. Agr. Bul. 95, 7 pp.
- Pinaceae. Ross, D. A. 1958. A list of cone and seed insects of interior British Columbia. Ent. Soc. Brit. Columbia, Proc. 55: 30-31.
- Pinaceae. Taylor, R. L. 1928. The arthropod fauna of coniferous leaders weeviled by *Pissodes strobi* (Peck). Psyche 35: 217-225.

POLYGALACEAE

- Polygalaceae. Goury, G., and J. Guignon. 1913. Insectes parasites des Polygalees. Feuille Jeunes Nat. 43: 57-60.

POLYGONACEAE

- Coccoloba wifera*. Woodruff, R. E. 1959. Preliminary report on insects found on seagrape. Fla. State Plant Bd. 8 pp. (Mimeo.)

PONTEDERIACEAE

- Pontederia cordata*. Hazen, T. E. 1917. The trimorphism and insect visitors of *Pontederia*. Torrey Bot. Club Mem. 17: 459-484.

POTAMOGETONACEAE

- Potamogeton*. Berg, C. O. 1949. Limnological relations of insects to plants of the genus *Potamogeton*. Amer. Micros. Soc. Trans. 68 (4): 279-291.

PRIMULACEAE

- Primulus*. Christy, M. 1922. The pollination of the British Primulas. Linn. Soc. London, Jour., Bot. 46: 105-139.
- Primulus*. Poulton, E. B. 1923. Notes on insects visiting the common primrose. Ent. Soc., London, Proc. 1922-23: (lxxxiv-lxxxvi).

RANUNCULACEAE

- Caltha palustris*. Judd, W. W. 1964. Insects associated with flowering marsh marigold, *Caltha palustris* L., at London, Ontario. Canad. Ent. 96 (11): 1472-1476.
- Ranunculus*. Linsley, E. G., and J. W. MacSwain. 1959. Ethology of some *Ranunculus* insects with emphasis on competition for pollen. Calif. Univ., Pubs., Ent. 16 (1): 1-45.
- Ranunculaceae. Goury, G., and J. Guignon. 1904. Les insectes des Renonculacees. Feuille Jeunes Nat. 34: 88-91, 112-118, 134-142.

RESEDACEAE

- Resedaceae. Goury, G., and J. Guignon. 1913. Insectes parasites des Resedacees. Feuille Jeunes Nat. 43: 24-28.

RHAMNACEAE

- Ceanothus*. Banks, N. 1912. At the *Ceanothus* in Virginia. Ent. News 23: 102-110.

ROSACEAE

- Crataegus*. Wellhouse, W. H. 1922. The insect fauna of the genus *Crataegus*. N.Y. (Cornell) Agr. Expt. Sta. Mem. 56, pp. 1041-1136.
- Fragaria*. Brooks, A. N., and E. G. Kelsheimer. 1961. Insects and diseases affecting strawberries. Fla. Agr. Expt. Sta. Bul. 629, 35 pp.
- Malus*. Cleveland, M. L., and D. W. Hamilton. 1958. The insect fauna of apple trees in southern Indiana, 1956 and 1957. Ind. Acad. Sci. Proc. 68: 205-217.
- Malus*. Masee, A. M. 1962. Apple orchard fauna. So. London Ent. and Nat. Hist. Soc. Proc. and Trans. 1961: 62-72.
- Malus*. Phillips, E. F. 1933. Insects collected on apple blossoms in western New York. Jour. Agr. Res. 46: 851-862.
- Malus*. Smith, G. A. 1960. The apple tree community. 96 pp. Channel Press, Great Neck, N.Y.
- Prunus*. Madsen, H. F., and L. B. McNelly. 1961. Important pests of apricots. Calif. Agr. Expt. Sta. Bul. 783, 40 pp.
- Pyrus communis*. Golfari, L. 1937. Contributi alla conoscenza dell'entomofauna del pero. (*Pyrus communis* L.). Bologna Univ., Ist. Ent. Bol. 9: 206-249.
- Pyrus communis*. Madsen, H. F., and M. M. Barnes. 1959. Pests of pear in California. Calif. Agr. Expt. Sta. Cir. 478, 40 pp.
- Rosa*. Balduf, W. V. 1959. Obligatory and facultative insects in rose hips. Ill. Biol. Monog. 26, 194 pp.
- Rosa*. See VIOLACEAE. Chittenden, 1901.
- Rubus* and *Spiraea*. Blackman, M. W. 1918. On the insect visitors to the blossom of wild blackberry and wild spiraea--a study in seasonal distribution. N.Y. State Col. Forestry, Syracuse Univ., Tech. Pub. 10 (v. 18, No. 4): 119-144.
- Rubus*. Chamberlain, G. C., and W. L. Putnam. 1955. Diseases and insect pests of the raspberry in Canada. Canada Dept. Agr. Pub. 880, rev., 34 pp.
- Rubus*. Dicker, G. H. L. 1939. Insects associated with cultivated forms of *Rubus*. Soc. Brit. Ent. Trans. 6: 115-136.

- Rubus*. Tillyard, R. J. 1927. Insect control of noxious weeds: Joint scheme initiated against blackberry and other species. New Zeal. Dept. Agr., New Zeal. Jour. Agr. 7: 1-7. (Reference not seen.)
- Rubus*. Webster, F. M. 1892. Insects affecting the blackberry and raspberry. Ohio Agr. Expt. Sta. Bul., Ser. 2, 5 (8): 151-217.
- Rosaceae. Coulon, L. 1911. Tableau des insectes du rosier. Soc. des Sci. Nat. d'Elbeuf Bul. 29: 37-68.
- Rosaceae. Hardouin, R. 1943. Le peuplement entomologique du rosier. 383 p., illus. Paris.

RUBIACEAE

- Cephalanthus occidentalis*. Needham, J. G. 1903. Button-Bush insects. Psyche 10: 22-31.
- Coffea*. Roba, R. 1935. Catalogue systematique des insectes du cafeier (*Coffea* sp.). Ann. de Gembloux 1935 (Aug.-Sept.): 299-379.

RUTACEAE

- Citrus*. Griffiths, J. T., and W. L. Thompson. 1957. Insects and mites found on Florida citrus. Fla. Agr. Expt. Sta. Bul. 591, 96 pp.
- Citrus*. Hubbard, H. G. 1885. Insects of the orange. 227 pp. U.S. Govt. Printing Office, Washington.
- Citrus*. Muma, M. H., A. G. Selhime, and H. A. Denmark. 1961. An annotated list of predators and parasites associated with insects and mites on Florida *Citrus*. Fla. Agr. Expt. Sta. Bul. 634, 39 pp.
- Citrus*. Quayle, Henry J. 1938. Insects of citrus and other subtropical fruits. 583 pp. Comstock Pub. Co., Ithaca, N.Y.
- Citrus*. Watson, J. R. 1918. Insects of a citrus grove. Fla. Agr. Expt. Sta. Bul. 148, pp. 165-267.
- Rutaceae. Bodenheimer, F. S. 1951. Citrus entomology in the Middle East, with special references to Egypt, Iran, Irak, Palestine, Syria, Turkey. 663 pp. 's-Gravenhage, Junk.

SALICACEAE

- Populus*. Young, Robert A. 1906. Insects affecting the poplar. Columbus Hort. Soc. Proc. 1906: 68-82. (Reference not seen.)
- Salix*. Walsh, B. D. 1864. On the insects Coleopterous, Hymenopterous, and Dipterous inhabiting the galls of certain species of willow. Ent. Soc. Phila. Proc. 3: 543-641.

SAPINDACEAE

- Litchi chinensis*. Dekle, G. W. 1954. Some lychee insects of Florida. Fla. State Hort. Soc. Proc. 57: 226-228.

SARRACENIACEAE

- Sarracenia flava*. Goodnight, C. J. 1940. Insects taken by the southern pitcher plant. Ill. State Acad. Sci. Trans. 33: 213.
- Sarracenia purpurea*. Judd, W. W. 1959. Studies of the Byron Bog in southwestern Ontario X. Inquilines and victims of the pitcher-plant, *Sarracenia purpurea* L. Canad. Ent. 91: 171-180.
- Sarracenia*. Hubbard, H. G. 1896. Insects of the pitcher plant. Ent. Soc. Wash. Proc. 3: 314-316.
- Sarracenia*. Jones, F. M. 1921. Pitcher plants and their moths. The influence of insect-trapping plants on their insect associates. Amer. Mus. Nat. Hist. Jour. 21 (3): 297-316.
- Sarracenia*. Wray, D. L., and C. S. Brimley. 1943. The insect inquilines and victims of pitcher plants in North Carolina. Ent. Soc. Amer. Ann. 36 (1): 128-137.

SCROPHULARIACEAE

- Linaria vulgaris*. Smith, J. M. 1959. Notes on insects, especially *Gymnaetron* spp., associated with toadflax, *Linaria vulgaris* Mill. in North America. Canad. Ent. 91 (2): 116-121.
- Scrophularia lanceolata*. Berry, E. W. 1903. Insect visitors of *Scrophularia leoporella* Bicknell. Torrey 3: 8-9.
- Scrophularia*. Cockerell, T. D. A. 1903. Insect visitors of *Scrophularia*. Torrey 3: 40.
- Verbascum thapsus*. McAtee, W. L. 1924. Mullein rosettes as winter shelters for insects. Jour. Econ. Ent. 17: 414-415.

SOLANACEAE

- Nicotiana*. Fox, C. J. S., and G. M. Stirrett. 1952. Annotated catalogue of insect and other invertebrate pests of tobacco in Canada. Ent. Soc. Ontario, Ann. Rpt. 83: 48-54.
- Nicotiana*. Nettles, W. C., and J. M. Lewis. 1954. Tobacco insects and diseases. Clemson Agr., Col. S.C., Ext. Serv. Bul. 109, 54 pp.
- Nicotiana*. Rabb, R. L., F. E. Guthrie, H. E. Scott, and C. F. Smith. 1955. Tobacco insects of North Carolina and their natural enemies. N.C. Agr. Expt. Sta. Bul. 394, 32 pp.
- Solanum carolinense*. Sommes, M. P. 1916. Some insects of *Solanum carolinense* L. and their economic relations. Jour. Econ. Ent. 9: 39-44.
- Solanum*. Torres, B. A. 1950. Insectes perjudiciales y utiles al cultivo de la papa en la Argentina. Argentina Min. de Agr., Dir. de Ganad., Inst. Sanid. Veg., Ser. B, 4 (17): 1-37.

STERCULIACEAE

- Brachychiton populneum*. Froggatt, W. W. 1905. The insects of the kurrajong (*Brachychiton populneum*). Agr. Gaz. N. S. Wales 16: 226-234. (Misc. Pub. 826).

THEACEAE

- Camellia*. See ERICACEAE, *Rhododendron*. English and Turnipseed, 1940.

TILIACEAE

- Tilia americana*. Gibson, Arthur. 1903. Basswood, or linden, insects. Ent. Soc. Ontario, Ann. Rpt. 34: 50-61.
- Tilia americana*. Townsend, C. H. T. 1886. Coleoptera found in dead trunks of *Tilia americana* L. in October. Canad. Ent. 18: 65-68.

TYPHACEAE

- Typha angustifolia* & *latifolia*. Judd, W. W. 1952. The white veined dagger, *Simyra henrici* Grt. (Phalaenidae), and its parasites reared from cat-tail, *Typha* spp. Nova Scotian Inst. Sci. Proc. and Trans. 23 (2): 115-119.
- Typha latifolia*. Judd, W. W. 1954. *Dicymolomia julianalis* Walker (Lepidoptera: Pyralididae) and its ichneumonid parasite, *Cremastus gracilipes* Cushman, reared from *Typha latifolia* at London, Ontario. Ent. News 65: 73-75.
- Typha*. Claasen, P. W. 1921. *Typha* insects: their ecological relationships. N.Y. (Cornell) Agr. Expt. Sta. Mem. 47: 457-531.
- Typha*. Cole, A. C. 1931. *Typha* insects and their parasites. Ent. News 42 (1): 6-11; 42 (2): 35-39.

ULMACEAE

- Celtis occidentalis*. Hicks, S. D. 1960. Entomological interest in a rare grove of hackberry at Carleton Place, Ontario. Canad. Field Nat. 74 (4): 174-175.
- Ulmus americana*. Pechuman, L. L. 1937. An annotated list of insects found in the bark and wood of *Ulmus americana* L. in New York state. Brooklyn Ent. Soc. Bul. 32 (1): 8-21.
- Ulmus*. Hoffman, C. H. 1940. Additions to annotated list of insects reared from elm bark and wood. Brooklyn Ent. Soc. Bul. 35 (2): 54-63.
- Ulmus*. Hoffman, C. H. 1942. Annotated list of elm insects in the U.S. U.S. Dept. Agr. Misc. Pub. 466, 20 pp.

UMBELLIFERAE

- Apium*. Knowlton, G. F., and E. H. Kardos. 1951. Celery field insects of Utah. Utah Agr. Expt. Sta. Mimeo. Ser., No. 376, 8 pp.
- Apium*. Knowlton, G. F., and W. J. Hanson. 1953. Celery field insects of Utah, Part II. Utah Agr. Expt. Sta. Mimeo. Ser., No. 399, 10 pp.
- Apium*. Knowlton, G. F. 1955. Celery and potato field insects of Utah, Part III. Utah Agr. Expt. Sta. Mimeo. Ser., No. 416, 17 pp.
- Apium*. Wilson, J. W., and N. C. Hayslip. 1951. Insects attacking celery in Florida. Fla. Agr. Expt. Sta. Bul. 486, 37 pp.
- Umbelliferae. Clarke, J. F. G. 1952. Host relationships of moths of the genera *Depressaria* and *Agonopterix*, with descriptions of new species. Smithsn. Inst. Misc. Collect. 117 (7): 1-20.

URTICACEAE

- Pipturus albidus*. Swezey, O. H. 1912. Insects associated with "Mamake" (*Pipturus albidus*), a native Hawaiian tree. Hawaii. Ent. Soc. Proc. 2 (4): 153-163.
- Pipturus*. Swezey, O. H. 1923. The leaf-miners of *Pipturus* (Lepidoptera). Hawaii. Ent. Soc. Proc. 5: 293-296.

VERBENACEAE

- Lantana camara*. Oosthuizen, M. J. 1964. The biological control of *Lantana camara* L. Ent. Soc. So. Africa Jour. 27 (1): 3-16.
- Lantana*. Krauss, N. L. H. 1953. Notes on insects associated with *Lantana* in Cuba. Hawaii. Ent. Soc. Proc. 15 (1): 123-125.
- Lantana*. Perkins, R. C. L. and O. H. Swezey. 1924. The introduction into Hawaii of insects that attack *Lantana*. Hawaii. Sugar Planters' Assoc. Expt. Sta., Ent. Ser. Bul. 16, 83 pp.
- Lantana*. Rao, R. S. Y. R. 1920. *Lantana* insects in India. India Dept. Agr. Mem., Ent. Ser. 5 (6): 239-314.

VIOLACEAE

- Viola*. Chittenden, F. H. 1901. Some insects injurious to the violet, rose, and other ornamental plants. U.S. Bur. Ent. Bul. 27, 114 pp.
- Violaceae. Goury F., and J. Guignon. 1912. Insectes parasites des Violariees. Feuille Jeunes Nat. 42: 30-34, 40-43.

VITACEAE

- Vitis arizonica*. Schwarz, E. A. 1899. "*Vitis arizonica* insects." (in notes at meeting of the Society). Ent. Soc. Wash. Proc. 4 (4): 397.
- Vitis*. Gentner, L. G. 1925. Some important grape insects. Mich. Agr. Expt. Sta. Spec. Bul. 148, 19 pp.

Section II.--Principal Works of Charles Robertson

1886. Notes on the mode of pollination of *Asclepias*. Bot. Gaz. 9 (10): 262-269.
1887. Insect relations of certain Asclepiads. I, II. Bot. Gaz. 12 (9): 207-216; 12 (10): 244-250.
1889. Flowers and insects. I-III. Bot. Gaz. 14 (5): 120-126; 14 (7): 172-178; 14 (12): 297-304.
1890. Flowers and insects. IV, V. Bot. Gaz. 15 (4): 79-84; 15 (8): 199-204.
1890. Flowers and insects-Umbelliferae. Acad. Sci. St. Louis, Trans. 5: 449-460.
1891. Flowers and insects. VI. Bot. Gaz. 16: 65-71.
1891. Flowers and insects, Asclepiadaceae to Scrophulariaceae. Acad. Sci. St. Louis, Trans. 5: 569-598.
1892. Flowers and insects. VII-IX. Bot. Gaz. 17 (3): 65-71; 17: 173-179; 17 (9): 269-276.
1892. Flowers and insects-Labiatae. Acad. Sci. St. Louis, Trans. 6: 101-131.
1893. Flowers and insects. X, XI. Bot. Gaz. 18: 47-54; 18: 267-274.
1894. Flowers and insects. XII. Bot. Gaz. 19: 103-112.
1894. Flowers and insects-Rosaceae and Compositae. Acad. Sci. St. Louis, Trans. 6: 435-480.
1895. Flowers and insects. XIII, XIV. Bot. Gaz. 20: 104-110; 20: 139-149.
1896. Flowers and insects. XV-XVII. Bot. Gaz. 21: 72-81; 21: 154-165; 21: 266-274.
1896. Flowers and insects. Acad. Sci. St. Louis, Trans. 7: 151-179.
1898. Flowers and insects. XVIII. Bot. Gaz. 25: 229-245.
1899. Flowers and insects. XIX. Bot. Gaz. 28: 27-45.
1927. Florida flowers and insects. Acad. Sci. St. Louis, Trans. 25: 277-324.
1928. Flowers and insects. XXV. Ecology 9 (4): 505-526.
1929. Flowers and insects. XXVI. 221 pp. Sci. Press Printing Co., Lancaster, Pa.

Section III.--General References to Phytophagous Insects

ANDERSON, R. F.

1960. Forest and shade tree entomology. 428 pp. John Wiley, New York.

BALACHOWSKY, A, and L. MEANIL.

1935-36. Les insectes nuisibles aux plantes cultivees. 2 vols. 1921 pp. Paris.

BEESON, C. F. C.

1919-22. The food plants of Indian forest insects. *Indian Forester* 45(1919): 49-56, 139-153, 312-323, 488-495; 47(1921): 21-25, 247-252; 48(1922): 494-500.

BEESON, C. F. C.

1941. The ecology and control of the forest insects of India and the neighboring countries. 1007 pp. Vasant, Dehra Dun.

BHASIN, G. D., M. L. ROONWAL, B. SINGH, and R. N. MATHUR.

1954-61. A list of insect pests of forest plants in India and the adjacent countries, arranged alphabetically according to plant genera and species, for the use of forest officers. *Forest Res. Inst., Indian Forest Bul. Ent. (n.s.)* v. 171-- Parts 1 and 2. (1) [1954], 93 pp.; Part 3. (2) [1958], 126 pp.; Part 4. (3) [1960], 45 pp.; Part 5. (4) [1960], 165 pp.; Part 6. (5) [1960], 91 pp.; Part 7. (6) [1960], 148 pp.; Part 8. (7) [1960], 130 pp.; Part 9. (8) [1961], 88 pp.; Part 10. (9) [1961], 116 pp.

BRANDHORST, C. G.

1943. A study of the relationship existing between certain insects and some native western Kansas forbs and weedy plants. *Kans. Acad. Sci. Trans.* 46: 164-175.

BROWN, W. J.

1959. Taxonomic problems with closely related species. *Ann. Rev. Ent.* 4: 77-98.

BRUES, C. T.

1924. The specificity of food plants in the evolution of phytophagous insects. *Amer. Nat.* 58: 127-144.

BRUES, C. T.

1936. Aberrant feeding behavior among insects and its bearing on the development of specialized food habits. *Quart. Rev. Biol.* 11: 305-319.

BRUES, C. T.

1946. *Insect dietary.* 466 pp. Harvard University Press.

CLEMENTS, F. E., and F. L. LONG.

1923. *Experimental pollination: An outline of the ecology of flowers and insects.* Carnegie Inst. Wash. Pub. 336, 274 pp.

COSENS, A.

1913. A contribution to the morphology and biology of insect galls. *Canad. Inst. Toronto, Trans.* (1912) 9: 297-387.

CRAIGHEAD, F. C.

1950. *Insect enemies of eastern forests.* U.S. Dept. Agr. Misc. Pub. 657, 679 pp.

CROSBY, C. R., and M. D. LEONARD.

1918. *Manual of vegetable-garden insects.* 391 pp. The Macmillan Co., New York.

CUMBER, R. A.

1958-60. The insect complex of sown pastures in the North Island. *New Zeal. Jour. Agr. Res.--* Part I. The general picture revealed by summer sweep-sampling. v. 1 (1958): 719-749; Part II. Hemiptera. v. 2 (1959): 1-25; Part III. Diptera. v. 2 (1959): 741-762; Part IV. Coleoptera. v. 2 (1959): 763-772; Part V. Hymenoptera. v. 2 (1959): 874-897; Part VI. Pscoptera and Neuroptera. v. 2 (1959): 898-902; Part VII. Thysanoptera. v. 2 (1959): 1123-1130; Part VIII. Orthoptera. v. 2 (1959): 1131-1136; Part IX. Lepidoptera. v. 3 (1960): 24-33.

DETHIER, V. G.

1937. Gustation and olfaction in Lepidopterous larvae. *Biol. Bul.* 72: 7-23.

DETHIER, V. G.

1941. Chemical factors determining the choice of food plants by *Papilio* larvae. *Amer. Nat.* 75: 61-73.

DETHIER, V. G.

1947. *Chemical insect attractants and repellents.* 289 pp. The Blakiston Co., Philadelphia.

- DOANE, R. W., E. C. VAN DYKE, W. J. CHAMBERLIN, and H. E. BURKE.
1936. Forest insects. 463 pp. McGraw-Hill, New York.
- DOZIER, H. L.
1920. An ecological study of hammock and piney woods insects in Florida. Ent. Soc. Amer. Ann. 13 (4): 325-380.
- ESSIG, E. O.
1958. Insects and mites of western North America. 1050 pp. The Macmillan Co., New York.
- FELT, E. P.
1903. Insects affecting forest trees. J. B. Lyon Co., Albany, N.Y. 479-534.
- FELT, E. P.
1905. Insects affecting park and woodland trees. N.Y. State Mus. Mem. 8, 2 vols. (877 pp.).
- FELT, E. P.
1909. Injurious and other insects. N.Y. State Mus. Bul. 134, pp. 5-159. (Rpt. State Entomologist (1908), v. 24.
- FELT, E. P.
1918. Key to American insect galls. N.Y. State Mus. Bul. 200, 310 pp.
- FELT, E. P.
1924. Manual of tree and shrub insects. 382 pp. The Macmillan Co., New York.
- FELT, E. P.
1936. The relations of insects and plants in gall production. Ent. Soc. Amer. Ann. 29 (4): 694-700.
- FELT, E. P.
1940. Plant galls and gall makers. 364 pp. Ithaca, N.Y.
- FENTON, F. A.
1952. Field crop insects. 405 pp. The Macmillan Co., New York.
- FITCH, A.
1855-72. Noxious, beneficial and other insects of the State of New York, N.Y. State Agr. Soc. Trans.-- Part 1. v. 14 (1855): 705-880; Part 2. v. 15 (1856): 409-559; Part 3. v. 16 (1857): 315-319, 321-490; Part 4. v. 17 (1858): 687-753; Part 5. v. 18 (1859): 781-854; Part 6. v. 20 (1861): 745-868; Part 7. v. 21 (1862): 813-859; Part 8. v. 22 (1863): 657-691; Part 9. v. 23 (1864): 778-823; Part 10. v. 24 (1865): 433-461; Part 11. v. 26 (1867): 487-543; Part 12. v. 27 (1868): 889-932; Part 13. v. 29 (1870): 495-566; Part 14. v. 30 (1872): 355-381.
- FROST, S. W.
1942. General Entomology. 524 pp. McGraw-Hill, New York. (Especially Chapters 15, 18 & 19)
- FROST, S. W.
1954. The numerical relationships between phytophagous insects and their hosts. Sci. Monthly 79(1): 10-12.
- GRINFEL'D, E. K.
1962. Proiskhozhdenie antofilii u nasekomykh [Origin of anthophily in insects.] Leningrad, Izdatel'stvo Leningradskogo Universiteta, 1962. 185 pp.
- GUNDERSON, A., and G. T. HASTINGS.
1944. The interdependence of plant and animal evolution. Sci. Monthly 59: 63-72.
- HATCH, H.
1938. A bibliographic catalogue of the injurious arachnids and insects of Washington. Wash. State Univ. Pubs. Biol. 1 (4): 163-223.
- HAYES, W. P.
1927. Prairie insects. Ecology 8 (2): 238-250.
- HEFLEY, H. M.
1937. The relations of some native insects to introduced food plants. Jour. Anim. Ecol. 6 (1): 138-144.
- HENDRICKSON, G. O.
1930. Studies on the insect fauna of Iowa prairies. Iowa State Col. Jour. Sci. 4 (2): 49-179.
- HENDRICKSON, G. O.
1931. Further studies on the insect fauna of Iowa praries. Iowa State Col. Jour. Sci. 5 (4): 195-209.

- HERRICK, G. W.
1935. Insect enemies of shade trees. 417 pp. Comstock, Ithaca, N.Y.
- HORI, M.
1937. [Notes on the original host plants of injurious insects in Sakhalin.] Kontyu (Insect) 11: 233-237. (In Japanese with Latin names.)
- HOUSER, J. S.
1918. Destructive insects affecting Ohio shade and forest trees. Ohio Agr. Expt. Sta. Bul. 332, pp. 161-487.
- KALTENBACH, J. H.
1874. Die Pflanzenfeinde aus der Klasse insekten. 846 pp. J. Hoffmann, Stuttgart.
- KEEN, F. P.
1952. Insect enemies of western forests. U.S. Dept. Agr. Mis. Pub. 273, 280 pp.
- KEEN, F. P.
1958. Cone and seed insects of western forest trees. U.S. Dept. Agr. Tech. Bul. 1169, 168 pp.
- KNOLL, F.
1922-23. Insekten und Blumen. Experimentelle arbeiten zur verteilung unserer kenntnisse über die wechselbeziehungen zwischen pflanzen und tierern. Zool.-Bot. Gessell. Wien, Abhandl. (1921)12: 1-117; (1922)12: 123-377.
- LOVELL, J. H.
1914. Conspicuous flowers rarely visited by insects. Jour. Anim. Behavior 4 (3): 147-175.
- MCGAHA, Y. J.
1952. The limnological relations of insects to certain aquatic flowering plants. Amer. Micros. Soc. Trans. 71 (4): 355-381.
- MACNAY, C. G. and I. S. CREELMAN.
1958. List of insects and mites affecting tree fruits in Canada. Canada Sci. Serv., Ent. Div. Res. Notes, Ent. E-12, 38 pp.
- MACQUART, J.
1854-56. Les plantes herbacees d'Europe et leurs insectes. 3 vols. Lille.
- MANI, M. S.
1964. Ecology of plant galls. 434 pp. W. Junk, The Hague.
- MARCOVITCH, S.
1917. Insects attacking weeds in Minnesota. Minn. State Ent. Rpt. (1915-16) 16: 135-152.
- METCALF, C. L., and W. P. FLINT.
1939. Destructive and useful insects, their habits and control. 981 pp. McGraw-Hill, New York.
- MILNE, L. J.
1940. Autecology of the golden-rod gall fly. Ecology 21: 101-105.
- NEEDHAM, J. G., S. W. FROST, and B. H. TOTHILL.
1928. Leaf-mining insects. 351 pp. Williams & Wilkins, Baltimore.
- OSBORN, H., and D. J. KNOLL.
1939. Meadow and pasture insects. 288 pp. Educator's Press.
- PACKARD, A. S.
1890. Insects injurious to forest and shade trees. U.S. Ent Comm. Rpt. 5, 955 pp.
- PAINTER, R. H.
1951. Insect resistance in crop plants. 520 pp. The Macmillan Co., New York.
- PETERSON, A.
1948. Larvae of insects. Part I. Lepidoptera and plant-infesting Hymenoptera. 315 pp. Edwards Bros., Columbus, Ohio.
- PETERSON, A.
1951. Larvae of Insects. Part II. Coleoptera, Diptera, Neuroptera, Siphonaptera, Mecoptera, Trichoptera. 416 pp. Edwards Bros., Columbus, Ohio.
- RILEY, C. V.
1892. Some interrelations of plants and insects. Biol. Soc. Wash. Proc. 7: 81-104.
- ROBERTSON, CHARLES.
1929. Flowers and insects. 221 pp. Science Press Printing Co., Lancaster, Pa. (Also, many other papers--see Vestal, 1935.)

- SANDERSON, E. D.
1921. Insect pests of farm, garden and orchard. Ed. 2, rev. 707 pp. John Wiley & Sons, New York.
- SCHEDL, K. E.
1960. Insectes nuisibles aux fruits et aux graines. 133 pp. Pub. Natl. Agron. Congo, Belge, Ser. Sci. No. 82 (Reference not seen.)
- SHACKLEFORD, N. W.
1929. Animal communities of an Illinois prairie. Ecology 10: 126-154.
- SLINGERLAND, M. V., and C. R. CROSBY.
1914. Manual of fruit insects. 503 pp. The Macmillan Co., New York.
- SMITH, V. G.
1928. Animal communities of a deciduous forest succession. Ecology 9: 479-500.
- SWEETMAN, H. L.
1928. Notes on insects inhabiting the roots of weeds. Ent. Soc. Amer. Ann. 21 (4): 594-600.
- SWEETMAN, H. L.
1958. The principles of biological control; interrelation of hosts and pests and utilization in regulation of animal and plant populations. 560 pp. W. C. Brown Co., Dubuque, Iowa.
- SWEZEY, O. H.
1932. Some observations on forest insects at the Nauhi nursery and vicinity on Hawaii. Hawaii. Ent. Soc. Proc. 8: 179-190.
- SWEZEY, O. H.
1940. A survey of the insect pests of cultivated plants in Guam. Hawaii. Planters' Rec. 44 (3): 151-182.
- SWEZEY, O. H.
1954. Forest entomology in Hawaii. An annotated check-list of the insect faunas of the various components of the Hawaiian forests. Bishop Mus. Spec. Pub. 44, 266 pp., 32 figs.
- TILLYARD, R. J.
1927. Insect control of noxious weeds. New Zeal. Dept. Agr., New Zeal. Jour. Agr. 7: 1-7.
- TRELEASE, W.
1881. Bibliographic record. Psyche 3: 248-258; 280-289.
- VAN EMDEN, H. F.
1965. The role of uncultivated land in the biology of crop pests and beneficial insects. Sci. Hort. [Wye, Kent] 17: 121-136.
- VESTAL, A. G.
1913. An associational study of Illinois sand prairie. Ill. State Lab. Nat. Hist. Bul. 10. 96 pp.
- VESTAL, A. G.
1935. Bibliography of the ecology of Illinois, Part 1. Ill. State Acad. Sci. Trans. 27 (2): 163-261.
- WARD, L. F.
1880. The relation between insects and plants, and the consensus in animal and vegetable life. Amer. Ent., Ser. 2, 3: 63-67, 87-91.
- WEESE, A. O.
1924. Animal ecology of an Illinois elm-maple forest. Ill. Biol. Monog. 9: 7-93.
- WEISS, H. B.
1924. Insect food habits and vegetation. Ohio Jour. Sci. 24: 100-206.
- WEISS, H. B., and E. WEST.
1924. Insects and plants of a dry woods in the pine barrens of New Jersey. Ecology 5(3): 241-253.
- WEISS, H. B., and E. WEST.
1925. The insects and plants of a strip of New Jersey coast. Psyche 32 (4/5): 231-243.
- WESTCOTT, CYNTHIA.
1956. The gardener's bug book. 579 pp. Doubleday, New York.

Section IV.--Phytophagous Food Habits of Insect Orders

COLEOPTERA

- BARGAGLI, PIERO.
1883-87. Rassegna biologica di Rincofori Europei. Soc. Ent. Bol. Ital. v. XVI, XVII, XVIII, XIX. Firenze.
- BEUTENMULLER, W. M.
1890. On the food habits of North American Rhynchophora. Canad. Ent. 22 (10): 200-203.
- BLATCHLEY, W. S.
1910. An illustrated descriptive catalogue of the Coleoptera, or beetles, (exclusive of the Rhynchophora), known to occur in Indiana. 1386 pp. Indianapolis.
- BLATCHLEY, W. S. and C. W. LENG.
1916. Rhynchophora or weevils of North Eastern America. 682 pp. Nature Pub. Co., Indianapolis.
- CHAMBERLIN, W. J.
1942. The bark and timber beetles of North America. 513 pp. Oreg. State Col., Corvallis.
- CHAMBERLIN, W. J.
1958. The Scolytoidea of the Northwest. 205 pp. Oreg. State Col., Corvallis.
- FROST, S. W.
1924. The leaf-mining habit in the Coleoptera. Ent. Soc. Amer. Ann. 17 (4): 457-467.
- GLOVER, T.
1869. The food and habits of beetles. [U.S.] Commr. Agr. Rpt. 1868: 78-117.
- LINSLEY, E. G.
1961-64. The Cerambycidae of North America. Calif. Univ., Pubs., Ent.--Part I. v. 18 (1961) 97 pp.; Part II. v. 19 (1962), 102 pp.; Part III. v. 20 (1962), 188 pp.; Part IV. v. 21 (1963), 165 pp.; Part V. v. 22 (1964), 197 pp. [Other parts in preparation.]
- LUGGER, OTTO.
1884. Food plants of beetles bred in Maryland. Psyche 4: 203-204.
- PETERSON, A.
1951. See Section III.
- PIERCE, W. D.
1907. On the biologies of the Rhynchophora of North America. In Rpt. Zoologist, Nebr. State Bd. Agr. Ann. Rpt. 1906-7: 245-319.
- PLUMB, G. H.
1950. The adult feeding habit of some conifer-infesting weevils. Canad. Ent. 82 (3): 53-57.
- SATTERTHWAITE, A. F.
1931. Key to the known pupae of the genus *Calendra*, with host plant and distribution notes. Ent. Soc. Amer. Ann. 24: 143-172.
- SWAINE, J. M.
1918. Canadian barkbeetles, Part 2. Canada Dept. Agr. Bul. 14, 143 pp.
- TUTTLE, D. M.
1952. Studies in the bionomics of Curculionidae. (Unpublished Ph.D. thesis, Univ. of Illinois, Urbana.) 235 pp.
- WEISS, H. B.
1922. A summary of the food habits of North American Coleoptera. Amer. Nat. 56: 159-165.
- WHELAN, D. B.
1936. Coleoptera of an original prairie area in eastern Nebraska. Kans. Ent. Soc. Jour. 9 (4): 111-115.
- WOLCOTT, A. B., and B. E. MONTGOMERY.
1933. An ecological study of the coleopterous fauna of a tamarack swamp. Amer. Midland Nat. 14 (2): 113-168.

DIPTERA

- CURRAN, C. H.
1934. The families and genera of North American Diptera. 512 pp. Ballou, N.Y.
- FROST, S. W.
1923. A study of the leaf-mining Diptera of North American. N.Y. (Cornell) Agr. Expt. Sta. Mem. 78, 228 pp.

- GREEN, C. T.
1917. A contribution to the biology of North American Diptera. Ent. Soc. Wash. Proc. 19: 146-161.
- HENNING, W.
1952. Diptera. Zweifluger. In Sorauer, P., Handbuch der Pflanzenkrankheiten, Aufl. 5, Bd. 5, Lfg. 1, 166 pp.
- JUDD, W. W.
1953. Insects reared from goldenrod galls caused by *Eurosta solidaginus* Fitch (Diptera: Trypetidae) in southern Ontario. Canad. Ent. 85 (8): 294-296.
- MONTGOMERY, B. E.
1957. The anthophilous insects of Indiana. 2. A preliminary list of the Diptera collected from blossoms. Ind. Acad. Sci. Proc. 67: 160-170.
- PAINTER, R. H.
1935. The biology of some dipterous gall makers from Texas. Kans. Ent. Soc. Jour. 8 (3): 81-97.
- PETERSON, A.
1951. See SECTION III.
- PRITCHARD, A. E.
1953. Gall midges of California. Calif. Insect Survey Bul. 2 (2): 125-150.
- STEYSKAL, C.
(1949) 1951. The dipterous fauna of tree trunks. Mich. Acad. Sci., Arts, and Letters, Papers 35: 121-134.
- TOWNSEND, C. H. T.
1893. A general summary of the known larval food habits of the acalyptrate Muscidae. Canad. Ent. 25 (1): 10-16.

HEMIPTERA

- BALL, E. D.
1932. The food plants of the leafhoppers. Ent. Soc. Amer. Ann. 25 (3): 497-501.
- BEIRNE, B. P.
1956. Leafhoppers (Homoptera: Cicadellidae) of Canada and Alaska. Canad. Ent. v. 88, Supp. 2, 180 pp.
- BLATCHLEY, W. S.
1926. Heteroptera, or true bugs of eastern North America, with special reference to the faunas of Indiana and Florida. 1116 pp. Indianapolis.
- BRITTON, W. E.
1923. The Hemiptera, or sucking insects of Connecticut. Guide to the insects of Connecticut. Conn. State Geol. and Nat. Hist. Survey, Bul. 4, 807 pp.
- BUTLER, E. A.
1923. A biology of the British Hemiptera-Heteroptera. 682 pp. Witherby, London.
- DOERING, K. C.
1942. Host plant records of Cercopidae in North America, north of Mexico. (Homoptera). Kans. Ent. Soc. Jour. 15 (2/3): 65-92.
- DRAKE, C. J., and F. A. RUHOFF
1965. Lacebugs of the world, a catalog (Hemiptera: Tingidae). U.S. Natl. Mus. Bul. 243. 634 p.
- FERRIS, G. F.
1937-55. Atlas of the scale insects of North America. 7 Vols. Stanford Univ. Press.
- HOTTES, C., and T. FRISON.
1931. The plant lice, or Aphididae, of Illinois. Ill. Nat. Hist. Survey Bul. 19 (3): 121-447.
- KIRKALDY, G. W.
1909. Catalogue of the Hemiptera (Heteroptera) with biological and anatomical references, lists of foodplants and parasites, etc. 392 pp. F. L. Dames, Berlin.
- KNIGHT, H. H.
1927. Notes on the distribution and host plants of some North American Miridae (Hemiptera). Canad. Ent. 59: 34-44.
- KNIGHT, H.
1941. The plant bugs, or Miridae, of Illinois. Ill. Nat. Hist. Surv. Bul. 22 (1): 1-234.

- MCKENZIE, H. L.
1956. The armored scale insects of California. Calif. Insects Survey Bul. 5, 209 pp.
- MEDLAR, J. T.
1942. The leafhoppers of Minnesota. Minn. Agr. Expt. Sta. Tech. Bul. 155, 196 pp.
- METCALF, Z. P.
1942. Bibliography of Homoptera. Vol. 1. Authors' list A-Z. 886 pp.; Vol. 2. Journals and topical index. 186 pp.
- OSBORN, HERBERT.
1912. Leafhoppers affecting cereals, grasses, and forage crops. U.S. Bur. Ent. Bul. 108, 123 pp.
- PALMER, M. A.
1932. Aphids of the Rocky Mountain region. 452 pp. Thomas Say Found., Denver.
- PATCH, E. M.
1938. Food plant catalogue of the aphids of the world, including the Phylloxeridae. Maine Agr. Expt. Sta. Bul. 393, 431 pp.
- POOS, F. W., and N. H. WHEELER.
1943. Studies on host plants of the leafhoppers of the genus *Empoasca*. U.S. Dept. Agr. Tech. Bul. 850, 51 pp.
- RIDDICK, ELOISE.
1955. A list of Florida plants and the scale-insects which infest them. Fla. State Plant Bd. Bul. 7, 78 pp.
- TUTHILL, L. D.
1943. The psyllids of America north of Mexico. Iowa State Col. Ext. Serv. Jour. Sci. 17 (4): 443-660.
- WEISS, H. B.
1921. A summary of the food habits of North American Hemiptera. Brooklyn Ent. Soc. Bul. 16 (5): 116-118.

HYMENOPTERA

- FROST, S. W.
1925. The leaf-mining habit in the Hymenoptera. Ent. Soc. Amer. Ann. 18 (3): 319-414.
- FYE, R. E., & J. T. MEDLAR.
1954. Spring emergence and floral hosts of Wisconsin bumblebees. Wis. Acad. Sci., Arts, Letters, Trans. 43: 75-82.
- KINSEY, A. C.
1929. The gall wasp genus *Cynips*. A study of the origin of species. Indiana Univ. Studies 16 (84, 85, 86): 1-577.
- KROMBEIN, K., et al.
1958. Hymenoptera of America north of Mexico--synoptic catalog. First supplement. U.S. Dept. Agr. Monog. 2 (suppl.), 305 pp.
- LINSLEY, E. G., J. W. MACSWAIN, AND P. H. RAVEN.
1964. Comparative behavior of bees and Onagraceae. III. *Oenothera* bees of the Mojave Desert, California. Calif. Univ., Pubs., Ent. 33 (2): 59-98, 3 pl.
- LORENZ, H. & M. KRAUS.
1957. Larvalsystematik der Blattwespen (Tenthredinoidea u. Megalodontoidea). 339 pp. Akad. Verlag, Berlin.
- LOVELL, H.
1913. The origin of the oligotropic habit among bees (Hymen.). Ent. News 24: 104-112.
- MCCRACKEN, I., AND D. EGBERT.
1922. California gall-making Cynipidae. Stanford Univ., Pubs., Univ. Serv., Biol. Sci. 3 (1): 1-75.
- MACGILLIVRAY, A. D.
1914. The immature stages of the Tenthredinoidea. Ent. Soc. Ontario, Ann. Rpt. 44: 54-75.
- MIDDLEKAUF, W. W.
1960. The siricid wood wasps of California. Calif. Insect Survey Bul. 6 (4): 59-77.
- MITCHELL, T. B.
1962. Bees of the Eastern United States, Vol. II. N.C. Agr. Expt. Sta. Tech. Bul. 152, 557 pp.

MIYAMOTO'S.

1962. Outline of flower relationships of Japanese bees. *Acta Hymenop.* 1 (4): 393-455.

MUESEBECK, C. F. W., KARL V. KROMBEIN, HENRY K. TOWNES, et al.

1951. Hymenoptera of America north of Mexico--Synoptic catalog. U.S. Dept. Agr. Monog. 2, 1420 pp.

NEILSEN, W. T. A.

1955. Sawflies collected from low-bush blueberry fields in New Brunswick. *Canad. Ent.* 87: 356-357.

PEARSON, J. F. W.

1933. Studies on the ecological relations of bees in the Chicago region. *Ecol. Monog.* 3 (3): 373-441.

PETERSON, A.

1948. See SECTION III.

VIERECK, H. L., et al.

1916. Guide to the insects of Connecticut. Part III. The Hymenoptera, or wasp-like insects of Connecticut. *Conn. State Geol. and Nat. Hist. Survey Bul.* 22, 824 pp.

WELD, L. H.

1957. Cynipid galls of the Pacific slope. 80 pp. Ann Arbor, Mich.

WELD, L. H.

1959. Cynipid Galls of the Eastern United States. 124 pp. Ann Arbor, Mich.

WHEELER, W. M., AND P. J. DARLINGTON, JR.

1930. Ant-tree notes from Rio Frio, Colombia. *Psyche* 37: 107-117, 1 pl.

YUASA, HACHIRO.

1922. A classification of the larvae of the Tenthredinoidea. *Ill. Biol. Monog.* 7 (4): 325-490.

LEPIDOPTERA

ALLAN, P. B. M.

1949. Larval foodplants. A vade-mecum for the field lepidopterist. 126 pp. Watkins and Doncaster, London.

BEUTENMULLER, W. M.

1890. Catalogue of Lepidoptera found within fifty miles of New York City with their food plants. *N.Y. Acad. Sci. Ann.* 5: 199-230.

BOX, H. E.

1935. The food plants of American *Diatraea* species. 11 pp. Govt. Printing Office. Trinidad.

BRAUN, A.

1963. The genus *Bucculatrix* in America north of Mexico (Microlepidoptera). *Amer. Ent. Soc. Mem.* 18, 208 pp.

BRUES, C. T.

1920. The selection of food plants, with special references to Lepidopterous larvae. *Amer. Nat.* 54: 313-332.

CHAMBERS, V. T.

1878. Tineina and their food plants. *U.S. Geol. and Geog. Surv. Bul.* 4: 107-123.

CLARK, A. H., AND L. F. CLARK.

1951. The butterflies of Virginia. [U.S.] *Smithsn. Inst. Misc. Collect.* 116 (7), 239 pp.

CLARKE, J. F. G.

1941. Revision of the North American moths of the family Oecophoridae, with descriptions of new genera and species. *U.S. Natl. Mus. Proc.* 90: 33-286.

CLARKE, J. F. G.

1952. Host relationships of moths of the genera *Depressaria* and *Agonopterix*, with descriptions of new species. [U.S.] *Smithsn. Inst. Misc. Collect.* 117 (7), 20 pp.

COMSTOCK, J. A.

1927. Butterflies of California. 334 pp. Comstock, Los Angeles. (Also many papers in *South. Calif. Acad. Sci. Bul.*: 1927, et seq.)

CRUMB, S. E.

1956. The larvae of the Phalaenidae. *U.S. Dept. Agr. Tech. Bul.* 1135, 356 pp.

DARLINGTON, E. P.

1952. Notes on the blueberry Lepidoptera of New Jersey. *Amer. Ent. Soc. Trans.* 78: 33-57.

- DAVENPORT, D., AND V. G. DETHIER.
1937. Bibliography of the described life histories of the Rhopalocera of America north of Mexico. Ent. Amer. 17 (4): 155-194.
- DAVIS, D. R.
1964. Bagworm moths of the western hemisphere, U.S. Natl. Mus. Bul. 244, 233 pp.
- EDWARDS, H.
1889. Bibliographical catalogue of the described transformations of North American Lepidoptera. U.S. Natl. Mus. Bul. 35, 147 pp.
- EHRlich, R., AND H. EHRlich.
1961. How to know the butterflies. 262 pp. Wm. C. Brown Co., Dubuque, Iowa.
- ENGELHARDT, G. P.
1946. The North American clear-wing moths of the family Aegeriidae. U.S. Natl. Mus. Bul. 190, 222 pp.
- FLETCHER, T. B.
1921. Life-histories of Indian insects, Microlepidoptera. India Dept. Agr. Mem., Ent. Ser., 6 (1/9), 217 pp.
- FORBES, W. T. M.
1920-60. The Lepidoptera of New York and neighboring States. N.Y. (Cornell) Agr. Expt. Sta. Mem.-- [Part I.] Primitive forms, Microlepidoptera, Pyraloids, Bombyces. v. 68 (1920), 729 pp.; Part II. Geometridae, Sphingidae, Notodontidae, Lymantriidae. v. 274 (1948), 263 pp.; Part III. Noctuidae. v. 329 (1954), 433 pp.; Part IV. Agaristidae through Nymphalidae, including butterflies. v. 371 (1960), 188 p.
- FREEMAN, T. N.
1958. The Archipinae of North America (Tortricidae). Canad. Ent. v. 90, Suppl. 7, 89 pp.
- FREEMAN, T. N.
1960. Needle-mining Lepidoptera of pine in North America. Canad. Ent. v. 92, Suppl. 16, 51 pp.
- HEINRICH, C.
1939. The cactus-feeding Phycitinae; a contribution toward a revision of the American pyralidoid moths of the family Phycitidae. U.S. Natl. Mus. Proc. 86: 331-413.
- HEINRICH, C.
1956. American moths of the subfamily Phycitinae. U.S. Natl. Mus. Bul. 206, 579 pp.
- KEIFER, H. H.
1935-37. California microlepidoptera. Calif. Dept. Agr., Monthly Bul.-- VII. 24 (1935): 195-218; IX. 25 (1936): 235-259; XI. 26 (1937): 177-203.
- KLOTS, A. B.
1951. A field guide to the butterflies. 349 pp. Houghton Mifflin, Boston.
- MCGUFFIN, W. C.
1958. Larvae of the Nearctic Larentiinae (Geometridae). Canad. Ent. v. 90, Suppl. 8, 104 pp.
- MCGUGAN, B. M.
1958. Forest Lepidoptera of Canada. Vol. I. Papilionidae to Arctiidae. Canada Dept. Agr., Sci. Serv., Div. Forest Biol. Pub. 1034, 76 pp.
- MACKAY, M. R.
1959. Larvae of the North American Olethreutidae. Canad. Ent. v. 91, Suppl. 10, 338 pp.
- PETERSON, A.
1948. See SECTION III.
- POWELL, J. A.
1964. Biological and taxonomic studies on Tortricine moths, with reference to the species in California. Calif. Univ., Pubs., Ent. v. 32, 317 pp.
- PRENTICE, R. M.
1962. Forest Lepidoptera of Canada. Vol. II. Nycteolidae, Noctuidae, Notodontidae, Liparidae. Canada Dept. Forestry, Forest Ent. and Path. Br. Bul. 128: 75-281.
- PRENTICE, R. M.
1963. Forest Lepidoptera of Canada. Vol. III. Lasiocampidae, Drepanidae, Thyatiridae, Geometridae. Canada Dept. Forestry, Forest Ent. and Path. Br. Pub. 1031: 281-543.
- SCHUTZE, K. T.
1931. Die Biologie der Kleinschmetterlinge. Handbuch der microlepidopteren Raupenkalender. Verlag Internatl. Ent., Frankfurt. 233 pp.

SCUDDER, S. H.

1889. Classified list of food plants of American Butterflies. *Psyche* 5: 274-278.

TILDEN, J. W.

1950-59. Microlepidoptera associated with *Baccharis pilularis*. *Wasmann Jour. Biol.*--
I. Pterophoridae. v. 8 (1950): 81-88; II. Tortricidae, Phaloniidae, Gelechiidae. v. 9
(1951): 239-254; III. Aegeriidae, Coleophoridae. v. 12 (1954): 43-52; IV. Gracillariidae,
Lyonetiidae, Oinophilidae. v. 17 (1959): 43-54.

TODD, E. L.

1959. The fruit-piercing moths of the genus *Gordonota* Hubner (Lepidoptera, Noctuidae).
U.S. Dept. Agr. Tech. Bul. 1201, 52 pp.

ORTHOPTERA

ANDERSON, N. L., AND J. C. WRIGHT.

1952. Grasshopper investigations on Montana rangelands. *Mont. Agr. Expt. Sta. Tech. Bul.*
486, 46 pp.

BALL, E. D.

1936. Food plants of some Arizona grasshoppers. *Jour. Econ. Ent.* 29 (4): 679-684.

BALL, E. D., E. R. TINKHAM, R. FLOCK, AND C. T. VORHIES.

1942. The grasshoppers and other Orthoptera of Arizona. *Ariz. Agr. Expt. Sta. Tech. Bul.*
93: 255-373.

BROCKS, A. R.

1958. Acridoidea of southern Alberta, Saskatchewan and Manitoba. *Canad. Ent.* v. 90, Suppl.
9, 92 pp.

CANTRALL, I. J.

1943. The ecology of the Orthoptera and Dermaptera of the George Reserve, Michigan.
Mich. Univ. Mus. Zool. Misc. Pub. 54, 182 pp.

CRIDDLE, N.

1933. Studies in the biology of North American Acrididae development and habits. *World's*
Grain Exhib. and Conf., Canada, Proc. 2: 474-494.

FOX, HENRY.

1914. Notes on Orthoptera and habitats in the vicinity of Lafayette, Indiana. *Ind. Acad. Sci.*
Proc. 1914: 287-321.

GANGWERE, S. K.

1961. A monograph on food selection in Orthoptera. *Amer. Ent. Soc. Trans.* 87 (2/3):
67-230.

ISELY, F. B.

1938. The relations of Texas Acrididae to plants and soils. *Ecol. Monog.* 8: 551-604.

ROTH, L. M., AND E. R. WILLIS.

1960. The biotic associations of cockroaches. [U.S.] *Smithsn. Inst. Misc. Collect.* 141
(Pub. 4422), 470 pp.

SOMES, M. P.

1914. The Acridiidae of Minnesota. *Minn. Agr. Expt. Sta. Tech. Bul.* 141: 7-100.

THYSANOPTERA

BAILEY, F.

1957. The thrips of California Part I: Suborder Terebrantia. *Calif. Insect Survey Bul.* 4 (5):
143-220.

KNOWLTON, G. F., AND W. L. THOMAS.

1933. Food plants and distribution of some Utah Thysanoptera. *Canad. Ent.* 65: 114-117.

MORGAN, A. C.

1913. New genera and species of Thysanoptera, with notes on distribution and food plants.
U.S. Natl. Mus. Proc. 46, 55 pp.

STANNARD, L. J.

(in press). The thrips (Thysanoptera) of Illinois. *Illinois Natural History Survey Bulletin.*

PRIESNER, HERMANN.

1964. Bestimmungsbucher zur bodenfauna Europas: Ordnung Thysanoptera. 242 pp.
Akademie-Verlag, Berlin.

PRIESNER, HERMANN.

1960. A monograph of the Thysanoptera of the Egyptian deserts. Publications de l'institut du desert d'Egypte. No. 13. El Mataria-Le Caire (R.A.U.). 549 pp.

WATSON, J. R.

1923. Synopsis and catalog of the Thysanoptera of North America. Fla. Agr. Expt. Sta. Tech. Bul. 168, 100 pp.

INDEX TO PLANT GENERA AND COMMON NAMES

Page	Page	Page	Page
<i>Abies</i>17	<i>Catalpa</i>7	<i>Fagus</i>11	<i>Lactuca</i>9
<i>Acacia</i>13	Cattail20	Ferns6	<i>Lantana</i>21
<i>Acer</i>6	<i>Ceanothus</i>18	<i>Festuca</i>11	Larch17
Alfalfa14	Celery.....20	<i>Ficus</i>15	<i>Larix</i>17
<i>Amaranthus</i>6	<i>Celtis</i>20	Fig15	<i>Lemna</i>14
<i>Ambrosia</i>8	<i>Centaurea</i>9	Fir17	<i>Lepidium</i>10
<i>Amorpha</i>13	<i>Cephalanthus</i>19	Fir, Douglas-.....17	Lettuce, wild.....9
<i>Apium</i>20	<i>Cercis</i>13	Firebush15	<i>Lilium</i>14
<i>Apocynum</i>6	<i>Cereus</i>7	<i>Fragaria</i>18	Lily.....14
Apple18	<i>Chamaedaphne</i>10	<i>Freycinetia</i>16	<i>Linaria</i>19
Apricot18	Chufa10	<i>Gaylussacia</i>10	Linden20
<i>Argyroxiphium</i>8	<i>Cirsium</i>9	<i>Gladiolus</i>12	<i>Litchi</i>19
<i>Artemisia</i>8	<i>Citrus</i>19	<i>Glycine</i>13	Locoweed.....13
<i>Asclepias</i>7	Clover.....14	Goldenrod.....9	Locust14
<i>Aster</i>8	<i>Coccoloba</i>17	<i>Gossypium</i>15	<i>Lonicera</i>8
<i>Astragalus</i>13	Coconut16	Gramagrass11	<i>Lotus</i>14
Avocado13	<i>Cocos</i>16	Grape21	<i>Lupinus</i>14
Azalea 10, 11	<i>Coffea</i>19	Grass 11, 12	Lychee19
	Coffee.....19	Greensword8	
<i>Baccharis</i>8	<i>Convolvulus</i>9	Hackberry.....20	<i>Magnolia</i>15
<i>Baptisia</i>13	Corn12	<i>Helianthus</i>9	<i>Malus</i>18
Basswood.....20	Cotton.....15	<i>Hemerocallis</i>14	<i>Mangifera</i>6
Beech11	Cowpea.....14	<i>Hibiscus</i>15	Mango6
Beet8	Cranberry11	Hickory.....13	<i>Manihot</i>11
<i>Beta</i>8	<i>Crataegus</i>18	<i>Hippophae</i>10	Maple6
<i>Betula</i>7	Cucurbits10	Holly.....6	Marijuana15
<i>Bidens</i> 8, 9	<i>Cuscuta</i>10	Hop15	Marsh grass12
Bindweed9	<i>Cyperus</i>10	Huckleberry10	Marsh marigold18
Blackberry18, 19	<i>Dalbergia</i>13	<i>Humulus</i>15	Mayapple7
Blueberry10	<i>Dasyllirion</i>14	Ieie16	<i>Medicago</i>14
Blueflag12	Datepalm16	<i>Ilex</i>6	<i>Melilotus</i>14
<i>Bouteloua</i>11	Daylily12, 14	<i>Indigo</i>13	Milkweed7
Boxtree.....7	Dodder10	<i>Ipomea</i>10	<i>Mirabilis</i>15
<i>Brachychiton</i>20	Dogbane6	<i>Iris</i>12	Mistletoe14
Bracken6	<i>Dorycnium</i>13	Ironweed.....9	<i>Morus</i>15
<i>Brassica</i>10	<i>Dracunculus</i>7	<i>Juglans</i>13	Mulberry15
Bunchgrass11	<i>Dubautia</i>9	<i>Juniper berry</i>10	Mullein19
Buttonbush.....18	Elm20	<i>Juniperus</i>10	<i>Myrica</i>15
<i>Buxus</i>7	<i>Elymus</i>11		<i>Nicotiana</i>20
Cactus 7, 8	<i>Eragrostis</i>11		Nutgrass.....10
<i>Caltha</i>18	<i>Eucalyptus</i>15		<i>Nymphaea</i>16
<i>Camellia</i>20	<i>Euchlaena</i>11		Oak.....11
<i>Cannabis</i>15	<i>Euonymus</i>8		<i>Oenothera</i>16
<i>Carya</i>13	<i>Euphorbia</i>11	Knapweed9	<i>Opuntia</i>7
Cassava10, 11		Kurrajong.....20	

	Page		Page		Page		Page
Orange	19	Potato	20	Seagrape	17	Tobacco	20
Orchid	16	Primrose	18	<i>Secale</i>	12	Trefoil	14
<i>Oryza</i>	11	Primrose, evening	16	<i>Senecio</i>	9	<i>Trifolium</i>	14
<i>Oxytropis</i>	14	<i>Primulus</i>	18	<i>Sequoia</i>	17	<i>Trillium</i>	14
Palm	16	<i>Pseudotsuga</i>	17	<i>Sequoiadendron</i>	17	<i>Triticum</i>	12
<i>Panicum</i>	11	<i>Pyrus</i>	18	Silversword	8	Tulip	14
<i>Papyrus</i>	10	<i>Quercus</i>	11	Skunk Cabbage	7	Tussock	11
Pear	18	Ragweed	8	<i>Solanum</i>	20	<i>Typha</i>	20
Pecan	13	Ragwort	9	<i>Solidago</i>	9	<i>Ulmus</i>	20
Peppergrass	10	<i>Ranunculus</i>	18	<i>Sorghum</i>	12	<i>Uniola</i>	12
<i>Persea</i>	13	Rape	10	Spanish-Moss	7	<i>Vaccinium</i>	11
<i>Phoenix</i>	16	Raspberry	18, 19	<i>Spartina</i>	12	<i>Verbascum</i>	19
<i>Phoradendron</i>	14	Redbud	13	<i>Spirea</i>	18	<i>Vernonia</i>	9
<i>Picea</i>	17	Rhododendron	10, 11	Spruce	17	<i>Vigna</i>	14
Pigweed	6	<i>Rhus</i>	6	Strawberry	18	<i>Viola</i>	21
Pine	17	Rice	11	Sudan Grass	12	Violet	21
<i>Pinus</i>	17	<i>Robinia</i>	14	Sugarcane	12	<i>Viscum</i>	14
Pinyon	17	<i>Rosa</i>	18	Sumac	6	<i>Vitis</i>	21
<i>Pipturus</i>	21	Rose	18	Sunflower	9	Waterlily	16
<i>Pistacia</i>	6	Rosemallow	15	Sweetpotato	10	Wattle tree	13
<i>Pistia</i>	7	<i>Rubus</i>	18, 19	<i>Symplocarpus</i>	7	Walnut	13
Pitcher plant	19	Ryegrass	12	Tamarack	17	Wheat	12
<i>Poa</i>	12	<i>Saccharum</i>	12	<i>Taraxacum</i>	9	Willow	19
<i>Podophyllum</i>	7	<i>Salix</i>	19	Teosinte	12	<i>Yucca</i>	14
Poison Ivy	6	<i>Sarracenia</i>	19	Thistle	9	<i>Zea</i>	12
<i>Pontederia</i>	18	<i>Sauromatum</i>	7	<i>Tilia</i>	20		
Poplar	19	<i>Scrophularia</i>	19	<i>Tillandsia</i>	7		
Poppy	16	Sea-buckthorn	10	Toadflax	19		
<i>Populus</i>	19						
<i>Potamogeton</i>	18						

UNITED STATES DEPARTMENT OF AGRICULTURE
Agricultural Research Service
Beltsville, Maryland 20705

Postage and Fees Paid
U.S. Department of Agriculture

Official Business

U. S. DEPT. OF AGR. LIBRARY
BELTSVILLE BR.
LIBRARIAN
10-24-55 PLANT INDUSTRY STA.
33 BELTSVILLE, MD.