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Selected Bibliography of the Clearwing Borers (Sesiidae) of the United States and Canada

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SUMMARY

The larvae of Sesiidae bore in trunks, bark, stems, or roots of forest trees, shade and ornamental trees, fruit trees, vines, and other crops. Often they do considerable damage. Over the years much has been published on the clear-wing borers; this bibliography attempts to cover the major works. The compilation is in alphabetical order by author and indexed to species to aid those interested in the literature concerning particular species.

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Members of the family Sesiidae are generally referred to as clearwing borers because most bear a striking resemblance to bees and wasps and because the larvae bore in trunks, bark, stems, or roots of trees, shrubs, vines, and other plants.

Many species, because of the extensive damage they do by mining and tunneling, are important pests. Species in the genera *Paranthrene Hubner, Podosesia Moschler, Synanthedon Hubner,* and *Sesia* Fab. are particularly known for causing defects and degrade in timber species, mortality in shelterbelt and ornamental plantings, and cull in nurseries. If not controlled, *Synanthedon exitiosa* (Say) and *S. pictipes* (G. & R.) can destroy entire orchards of fruit trees. Several species in the genera *Vitacea* Engelhardt, *Melittia* Hubner, and *Pennsetia* Dehne cause serious losses to various crops.

Over the years, considerable material has been printed on the clearwing borers. Holloway, Childers, and Gentry (311) recently published a bibliography on *Synanthedon pictipes* and *S. exitiosa* containing 163 references. Duckworth and Eichlin (193) included numerous references in their recent paper on classification.

The selective compilation presented here is an outgrowth of research on the *Podosesia* borers in ash and *Paranthrene* borers in oaks and cottonwood. We made an attempt to include the major papers on Sesiidae, but some undoubtedly were missed. Although numerous short papers and notes were included, many were intentionally omitted.

The initial sources of references were our files and the various entomological, forestry, and agricultural periodicals. Other important sources were Biological Abstracts, Forestry Abstracts, Review of Applied Entomology, and the National Agricultural Library's reference service.

The bibliography is in alphabetical order by authors. An index to species and their synonyms is provided to aid those interested in pursuing the literature on particular species. The scientific names and the generic and specific combinations given with the citations are as they were presented in the particular reference. Refer to the species index for the current usage. The currently recognized valid species as presented by Duckworth and Eichlin (193) were used except that a new species later described by Purrington and Nielson (452) and one described by Duckworth and Eichlin (194) are included.

This bibliography is intended for use by entomologists, foresters, horticulturists, pest control operators, and others who wish to refer to the literature on the clearwing borers in the family Sesiidae.

Anyone beginning a study of the Sesiidae should see the papers by Beutenmuller, Duckworth and Eichlin, Edwards, Engelhardt, MacKay, and Riley.

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