

families argidae cimbicidae diprionidae pdf

PDF | On Jan 1, 2006, David R. Smith and others published Introduccion a los Himenopteros basales (Symphyta); familia Xyelidae, Superfamilia Tenthredinoidea, familia Argidae, familia Cimbicidae ...

(PDF) Introduccion a los Himenopteros basales (Symphyta

Sawflies are a group insects related to wasps that get their common name from the saw-like appearance of the ovipositor, which females use to cut slits in stems or leaves to lay their eggs. ... with 6 families (Argidae, Blasticotomidae, Cimbicidae, Diprionidae, Pergidae, Tenthredinidae) and about 7,000 species ... Download Article as PDF ...

Sawflies â€“ Master Gardener Program

348 WESTENDORFF, M. & TAEGER, A.: Chromosomes in the families Argidae, Cimbicidae, Cephidae
Material and methods Females and larvae were collected in Brandenburg and Thuringia (Germany) between

New data on chromosomes of sawflies in the families

families*, with most of the 8,000 species worldwide in the family Tenthredinidae (about 5,500). The rest ...
â€¢ Tenthredinoidea, with 6 families (Argidae, Blasticotomidae, Cimbicidae, Diprionidae, Pergidae, Tenthredinidae) and about 7,000 species

Sawflies - For Your Information

1 Families listed alphabetically, with case and drawer number(s), followed by page numbers from A Catalog of ... Diprionidae 111-1 29-38 ... Dryinidae 112-3 1240-1250 Encyrtidae 111-11 890-967 FAMILY ARGIDAE Arge spiculata 111-1 Neoptilia malvacearum 111-1 Ptenus magnus 111-1 Ptenus modestius 111-1 Ptenus parvus 111-1

Michael E. Douglas 1 Families listed alphabetically, with

The Tenthredinoidea are the dominant superfamily of sawflies within the Symphyta, containing some 7000 species worldwide, primarily in the family Tenthredinidae. All known larvae are phytophagous, and a number are considered pests.. The included extant families share the distinctive features of a medially narrowed pronotum, paired protibial spurs, and the loss of the transverse mesonotal groove.

Tenthredinoidea - Wikipedia

Details of Insect Taxonomic Groups Examples of beneficial species occur in almost every insect order, and considerable information on morphology and habits has been assembled. Therefore, the principal groups of insect parasitoids and predators provide details that refer to the entire class Insecta. These details are available at <taxnames.htm>.

Order: Hymenoptera Families - Faculty Support Site

exception is the family Argidae, where only 50% are known to feed on woody plants. Each family appears to have specialized on either conifers or broadleaf hardwoods. Of the tree-feeding sawflies, the pergids, argids, ... Argidae, Cimbicidae, and Diprionidae belong exclusively to this feeding guild. However, ...

19 Sawfly Life History Life History Patterns of North

Introduction. Pine sawfly larvae, Neodiprion spp., are the most common defoliating insects of pine trees, Pinus spp., in Florida. Sawfly infestations can cause growth loss and mortality, especially when followed by

secondary attack by bark and wood-boring beetles (Coleoptera: Buprestidae, Cerambycidae, Scolytidae,).

EENY317/IN592: Pine Sawflies, Neodiprion spp. (Insecta

Systematics of Two Feeding Morphs of *Schizocerella pilicornis* (Hymenoptera: Argidae) and Recognition of Two Species ... which includes the Argidae, most sub-families contain a single feeding type (Schmidt and Smith 2006). All described members of the Argidae ... Diprionidae Siricidae

SYSTEMATICS Systematics of Two Feeding Morphs of

The Pergidae is a moderately sized family with 441 described species (Schmidt & Smith 2016) and, after the Tenthredinidae and Argidae, the third largest family of *â€˜Symphytaâ€™*TM. The family has a *â€˜Gondwananâ€™*TM distribution with most species occurring in Australia and South America.

Identification of sawflies and horntails (Hymenoptera

Of the other families, the Blasticotomidae and Megalodontidae are Palearctic; the Xyelidae, Pamphilidae, Diprionidae, Cimbicidae, and Cephidae are Holarctic, while the Siricidae are mainly Holarctic with some tropical species. The parasitic Orussidae are found worldwide, mostly in tropical and subtropical regions.

Sawfly - Wikipedia

Family Argidae - Argid Sawflies. *Atomacera decepta* - Hibiscus Sawfly. ... Family Cimbicidae - Cimbicid Sawflies. *Abia* - Cimbicid Sawfly. *Cimbex americana* - Elm Sawfly. Family Crabronidae. *Ectemnius* sp. ... Family Diprionidae - Conifer Sawflies. *Diprion similis* - Introduced Pine Sawfly.

Bug Life Cycles Â» Hymenoptera â€“ Ants, Bees and Wasps

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The family consists of a single genus, *Acordulecera*. Cimbicid sawflies (Cimbicidae) are large, robust insects easily recognized by their club-shaped antennae. The most common North American species is the elm sawfly (*Cimbex americana*), a dark blue insect about 2.5 cm (1 inch) long.

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