

INSECTS ASSOCIATED WITH  
*POLYGONUM* (POLYGONACEAE)  
IN NORTH CENTRAL FLORIDA. II. INSECTS  
OTHER THAN LEPIDOPTERA<sup>1</sup>

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ABSTRACT

Ten species of foliage feeding or stem boring insects were reared from 2 central Florida species of *Polygonum*, *P. punctatum* Elliot and *P. densiflorum* Meissner. These include 2 Homoptera, 5 Coleoptera, 2 Diptera, and 1 Hymenoptera. Eleven Hymenoptera parasites reared from Lepidoptera previously reported on *Polygonum* are listed along with miscellaneous other insects swept from *Polygonum*.

*Polygonum punctatum* Elliot and *P. densiflorum* Meissner are semi-aquatic weeds in the Southeastern United States. Since these species are occasional pests in Florida, an ecological study was conducted to identify the plants' natural enemies. Lepidoptera reared from both *Polygonum* species were reported earlier (Heppner and Habeck 1976). This sequel lists 9 insect species other than Lepidoptera that we also reared. Notes are also given on 11 species of Hymenoptera parasites reared from previously listed Lepidoptera and on 3 species of miscellaneous insects swept or hand collected from both *Polygonum* species.

Plant samples were field collected for rearing of associated insects as described previously (Heppner and Habeck 1976). The two *Polygonum* species were also swept for insects; these are listed in Section 2 of this report. Parasites reared from Lepidoptera are reported in Section 3. Voucher specimens of all species are deposited in the Florida State Collection of Arthropods, Gainesville, Florida. In the list, localities where many collections were made are partly abbreviated as follows: Gainesville, Bivens Arm (Bivens Arm Lake, 3 miles SW of Gainesville), and Payne's Prairie (5 miles S of Gainesville). All sites were in Alachua County unless otherwise indicated.

1. Insects reared from *Polygonum*

HOMOPTERA

Aphididae:

*Hyalomyzus tissoti* Nielsson & Habeck. Numerous nymphs and adults on *P. punctatum* 14 Mar 74 (Bivens Arm) and 30 Oct 74 (Santa Fe River, 8 miles S. Fort White, Columbia Co.).

Psyllidae:

*Aphalara persicaria* Caldwell. Adults on 23 Aug. 72 (Gainesville). *P. punctatum* leaves curled and distorted when this psyllid is present.

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## COLEOPTERA

## Chrysomelidae:

*Disonycha conjugata* (Fabricius). Reared from *P. densiflorum* with adults on 8 and 24 Nov 72, 2 Apr 74 (Bivens Arm). Adults and larvae feed on the leaves.

*Disonycha pennsylvanica* (Illiger). Reared from *P. punctatum*, 13 and 27 Oct 72, adults 2 Apr 74 and 19 Nov 74 (Bivens Arm); adult on *P. densiflorum*, 8 Nov 72 (Bivens Arm). Adults and larvae are leaf feeders.

## Curculionidae:

*Lixus merula* Suffr. Reared from *P. punctatum*, adults 23 Aug 72 (Gainesville); from *P. densiflorum*, adult 9 Oct 73 (Bivens Arm). Larvae are stem borers.

*Lixus punctinatus* LeConte. Reared from *P. punctatum*, adults Nov 72 (Gainesville), 29 Sept 73 (Bivens Arm). Larvae are stem borers.

*Rhinoncus longulus* LeConte. Reared from *P. punctatum*, adults 23 Aug 72 and 27 Oct 72 (Gainesville), 2 Apr 74, 6 May 74, 22 May 74, 27 May 74, 30 May 74 and 3 Jun 74 (Bivens Arm); 4 Dec 74 (Santa Fe River, 8 miles S. Fort White, Columbia Co.); reared from *P. densiflorum*, adults 2 Apr 74, 8 Nov 72 (Bivens Arm), 24 Nov 74 (Payne's Prairie). Larvae of this species bore in the nodes of host stems, thus, competing with the node-boring larvae of the gelechiid moth, "*Aristotelia*" *absconditella* (Walker).

## DIPTERA

## Stratiomyidae

*Nothomyia calopus* Loew. Reared from *P. densiflorum*, adult 3 Oct 74 (Bivens Arm). Rare in Florida.

## Chloropidae:

*Elachiptera (Elachiptera) willistoni* Sabrosky. Reared from *P. punctatum*, adults 30 Mar 74, 18 May 74, 3 and 4 Dec 72 (Bivens Arm); 27 Oct 72 (Santa Fe River, High Springs, Alachua County). Larvae mine the leaves and form black puparia on the surfaces of leaves.

## HYMENOPTERA

## Tenthredinidae:

*Ametastegia articulata* (Klug). Reared from *P. punctatum*, adults 10 Mar 74, 13 Mar 74 (Bivens Arm). Larvae feed externally on the leaves.

2. Insects swept from *Polygonum* (P = *P. punctatum*; D = *P. densiflorum*)

## DERMAPTERA

Forficulidae      *Doru aculeatum* (Scudder)      P

## HOMOPTERA

Cicadellidae      *Gyponana (Gyponana) sp.*      P

Membracidae      *Platycotis vittata* (Fabricius)      P

Cercopidae      *Lepyronia sp.*      P

## HEMIPTERA

Anthocoridae      *Orius insidiosus* (Say)      P

*Calliodis temnostethoides* (Reuter)      D

Phymatidae      *Phymata fasciata* (Gray)      P,D

Lygaeidae      *Pachybrachius albocinctus* Barber      P

Pentatomidae      *Euschistus ictericus* (Linnaeus)      P,D

*Euschistus tristigmus* (Say)      P

*Euschistus sp.*      P

*Mormidea sp.*      P

## THYSANOPTERA

Phlaeothripidae	<i>Leptothrips macroocellatus</i> Watson	P
	<i>Diceratothrips</i> sp.	P

## COLEOPTERA

Cantharidae	<i>Chauliognathus marginatus</i> Fabricius	P
Coccinellidae	<i>Coleomegilla maculata fuscilabris</i> Mulsant	D
Curculionidae	<i>Pelenomus impressiventris</i> Blatchley	P
	<i>Sibariops confusa</i> (Bohr)	D
	<i>Tyloderma rufescens</i> Casey	D
Anthribidae	<i>Trigonorhinus sticticus</i> (Boh.)	D

## DIPTERA

Cecidomyiidae	<i>Clinodiplosis</i> sp.	P
	<i>Lestodiplosis</i> sp.	P

## HYMENOPTERA

Braconidae	<i>Apanteles thurberiae</i> Muesebeck	P
	<i>Bracon</i> sp. near <i>mellitor</i> (Say)	P
	<i>Vipio rugator</i> (Say)	P
Eulophidae	<i>Euderus</i> sp.	P
	<i>Tetrastichus</i> sp.	P
	<i>Elachertus</i> sp.	P
	<i>Eulophus</i> sp.	P
Encyrtidae	? <i>Syrphophagus</i> sp.	P
Pteromalidae	<i>Heteroschema rugosopunctata</i> (Ashmead)	P

3. Parasites reared from *Polygonum*-associated Lepidoptera [A = "*Aristotelia*" *absconditella* (Walker); C = *Chionodes discoocellella* (Chambers); both Gelechiidae]

Braconidae	<i>Apanteles rufocoxalis</i> Riley	A
	<i>Apanteles</i> sp. near <i>forbesi</i> Viereck	C
	<i>Bracon furtivus</i> (Fyles)	A
	<i>Chelonus spinosus</i> McComb	A
	<i>Macrocentrus delicatus</i> Cresson	A
	<i>Orgilus</i> n. sp.	A
Eupelmidae	<i>Eupelmus</i> sp.	A
Eurytomidae	<i>Eurytoma</i> sp.	A
Mymaridae	<i>Gonatocerus</i> sp.	A
	<i>Polynema</i> ? sp.	C
Bethylidae	<i>Goniozus</i> sp.	A

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#### LITERATURE CITED

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