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## Feeding Records of True Bugs (Hemiptera: Heteroptera) From Wisconsin

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## FEEDING RECORDS OF TRUE BUGS (HEMIPTERA: HETEROPTERA) FROM WISCONSIN

Andrew H. Williams<sup>1</sup>

### ABSTRACT

Basic to our understanding of any animal and its habitat requirements is knowing what it eats. Reported here are observations of feeding by 49 species of true bugs (Hemiptera: Heteroptera) encountered in Wisconsin over 1992-2002.

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Knowing what an animal eats is basic to our understanding of that animal and its habitat requirements. From 1992 through 2002, I accumulated many observations of insects feeding in Wisconsin. Presented here are data from 49 species and subspecies in 11 families including Alydidae, Berytidae, Coreidae, Cydnidae, Lygaeidae, Miridae, Nabidae, Pentatomidae, Reduviidae, Rhopalidae and Scutelleridae.

The data are presented in two tables: Table 1 includes records of feeding on plants, Table 2 includes records of feeding on insects. Some species appear in both tables. *Alydus eurinus* (Say) (Alydidae) and *Slaterobius insignis* (Uhler) (Lygaeidae) were associated with carrion. Unless otherwise noted, all insects listed are adults, all insects were collected in prairies and savannas, and all insects and plants were determined by me. Plant nomenclature follows Gleason and Cronquist (1991). Voucher specimens are deposited in the Insect Research Collection of the Entomology Department at the University of Wisconsin - Madison.

### ACKNOWLEDGMENTS

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- Williams, A. H. 2000. Wisconsin Cydnidae (Hemiptera: Heteroptera). *Great Lakes Entomol.* 33:161-164.

Table 1. Observations of Heteroptera feeding on plants. Bugs were adults unless otherwise indicated. Repeated insertion of mouthparts into flower openings was assumed to be feeding on nectar (N). An immobile bug with its mouthparts inserted into plant tissue was assumed to be feeding on seeds (S), developing seeds (DS), ripe seeds (RS), ripe seeds of the previous year (PYS), leaves, stems, flowers or fruits. Seeds fed upon were attached to plants. Stems fed upon were in or just below inflorescences.

Bug Species	Plant Species	Plant Family	Plant Structure and Notes
<b>Alydidae</b>			
<i>Alydus conspersus</i> Montandon	<i>Solidago speciosa</i>	Asteraceae	N
	<i>Amorpha canescens</i>	Fabaceae	S
	<i>Astragalus canadensis</i>		DS
	<i>Dalea candida</i>		DS
	<i>Dalea purpurea</i>		S
	<i>Desmodium canadense</i>		S
	<i>Lespedeza capitata</i>		DS
	<i>Lupinus perennis</i>		DS
	<i>Ceanothus herbaceus</i>	Rhamnaceae	DS
<i>Alydus eurinus</i> (Say)	<i>Eryngium yuccifolium</i>	Apiaceae	N
	<i>Aster oolentangiensis</i>	Asteraceae	N
	<i>Eupatorium sessilifolium</i>		N
	<i>Chamaecrista fasciculata</i>	Caesalpiaceae	DS
	<i>Senna hebecarpa</i>		DS
	<i>Amorpha canescens</i>		DS
	<i>Astragalus canadensis</i>	Fabaceae	DS
	<i>Baptisia lactea</i>		RS, with
	<i>Dalea candida</i>		<i>Megalotomus quinquespinosus</i>
	<i>Dalea purpurea</i>		DS
	<i>Desmodium canadense</i>		DS
	<i>Desmodium illinoense</i>		DS
	<i>Lathyrus venosus</i>		DS
	<i>Lespedeza capitata</i>		RS
			DS, RS, PYS

Table 1. Continued

Bug Species	Plant Species	Plant Family	Plant Structure and Notes
<i>Alydus pilosulus</i> Herrich-Schaeffer	<i>Lupinus perennis</i>		DS
	<i>Strophostyles helvola</i>		RS
	<i>Ceanothus herbaceous</i>	Rhamnaceae	S
<i>Alydus pilosulus</i> Herrich-Schaeffer	<i>Dalea purpurea</i>	Fabaceae	S
	<i>Lupinus perennis</i>		DS
<i>Megalotomus quinquespinosus</i> (Say)	<i>Apocynum cannabinum</i>	Apocynaceae	N
	<i>Senna hebecarpa</i>	Caesalpinaceae	DS
	<i>Amorpha canescens</i>	Fabaceae	DS
	<i>Baptisia lactea</i>		RS, with <i>Alydus eurinus</i>
	<i>Dalea candida</i>		DS
	<i>Desmodium canadense</i>		S
	<i>Desmodium illinoense</i>		S, also at night
	<i>Lespedeza capitata</i>		DS
	<i>Lupinus perennis</i>		DS
	<i>Ceanothus americanus</i>	Rhamnaceae	DS
<i>Protenor belfragei</i> Haglund	<i>Elymus canadensis</i>	Poaceae	DS
<b>Berytidae</b> <i>Jalysus wichhami</i> Van Duzee	<i>Gaura biennis</i>	Onagraceae	flowers
	<i>Oenothera biennis</i>		flowers
<b>Coreidae</b> <i>Anasa armigera</i> (Say)	<i>Cornus racemosa</i>	Cornaceae	N
	<i>Echinocystis lobata</i>	Curcubitaceae	stems

Table 1. Continued

Bug Species	Plant Species	Plant Family	Plant Structure and Notes
<i>Catorhintha mendica</i> Stal	<i>Pastinaca sativa</i>	Apiaceae	N
	<i>Apocynum cannabinum</i>	Apocynaceae	N
	<i>Asclepias syriaca</i>	Asclepiadaceae	N
	<i>Asclepias viridiflora</i>		N
	<i>Mirabilis nyctaginea</i>	Nyctaginaceae	S, nymphs, reared
<i>Chariesterus antennator</i> (Fabricius)	<i>Asclepias tuberosa</i>	Asclepiadaceae	N
<i>Euthochtha galeator</i> (Fabricius)	<i>Achillea millefolium</i>	Asteraceae	stems
	<i>Ambrosia psilostachya</i>		stems
	<i>Ambrosia trifida</i>		stems, adults & nymphs, reared
	<i>Centaurea maculosa</i>		stems
	<i>Cirsium arvense</i>		stems, nymphs, reared
	<i>Cirsium discolor</i>		stems
	<i>Coreopsis palmata</i>		stems
	<i>Echinacea pallida</i>		stems
	<i>Ratibida pinnata</i>		stems
	<i>Solidago gigantea</i>		leaf midveins
	<i>Astragalus canadensis</i>	Fabaceae	developing pods (?DS)
	<i>Oenothera biennis</i>	Onagraceae	stems, nymphs, reared; developing pods (?DS)
	<i>Oenothera clelandii</i>		floral tubes, adults & nymphs
	<i>Geum laciniatum</i>	Rosaceae	stems, leaf midveins
<i>Merocoris distinctus</i> Dallas	<i>Zizia aurea</i>	Apiaceae	N
	<i>Apocynum androsaemifolium</i>	Apocynaceae	stems
	<i>Apocynum cannabinum</i>		N
	<i>Asclepias amplexicaulis</i>	Asclepiadaceae	flowers

Table 1. Continued

Bug Species	Plant Species	Plant Family	Plant Structure and Notes
	<i>Asclepias viridiflora</i>		N
	<i>Achillea millefolium</i>	Asteraceae	N
	<i>Lupinus perennis</i>	Fabaceae	flowers
	<i>Ptelea trifoliata</i>	Rutaceae	N
<i>Piezogaster calcarator</i> (Fabricius)	<i>Coreopsis tripteris</i>	Asteraceae	stems
	<i>Erigeron annuus</i>		stems
	<i>Eupatorium purpureum</i>		stems
	<i>Ratibida pinnata</i>		stems
	<i>Solidago canadensis</i>		stems
	<i>Desmodium canadense</i>	Fabaceae	DS, nymphs, reared
	<i>Desmodium glutinosum</i>		stems, adults & nymphs, reared;
			nymphs green & red, resembling pods
<b>Cydnidae<sup>1</sup></b>			
<i>Corimelaena obscura</i> McPherson & Sailer	<i>Cryptotaenia canadensis</i>	Apiaceae	flowers, DS, in woods
	<i>Osmorhiza longistylis</i>		DS, in woods
<b>Lygaeidae</b>			
<i>Kleidocerys resedae</i> (Panzer)	<i>Oenothera biennis</i>	Onagraceae	PYS
<i>Ligyrocorys diffusus</i> (Uhler)	<i>Ratibida pinnata</i>	Asteraceae	RS
<i>Lygaeus turcicus</i> Fabricius	<i>Heliopsis helianthoides</i>	Asteraceae	N
	<i>Solidago canadensis</i>		N
<i>Neacoryphus bicrucis</i> (Say)	<i>Rhus glabra</i>	Anacardiaceae	N

Table 1. Continued

Bug Species	Plant Species	Plant Family	Plant Structure and Notes
<i>Neortholomus scolopax</i> (Say)	<i>Monarda fistulosa</i> <i>Oenothera biennis</i>	Lamiaceae Onagraceae	RS, nymphs, reared PYS, nymphs, reared; DS, adults & nymphs
<b>Miridae</b>	<i>Oenothera clelandii</i> <i>Potentilla arguta</i>	Rosaceae	PYS, nymphs, reared RS, adults & nymphs, reared
<i>Adelphocoris lineolatus</i> (Goeze)	<i>Pastinaca sativa</i> <i>Achillea millefolium</i> <i>Echinacea pallida</i>	Apiaceae Asteraceae	N N N
	<i>Asclepias ovalifolia</i> <i>Dalea villosa</i> <i>Lupinus perennis</i>	Asclepiadaceae Fabaceae	N DS DS
<i>Coquillettia mimetica</i> Osborn <sup>2</sup>	<i>Helianthus pauciflorus</i>	Asteraceae	N
<i>Hadronema militare</i> Uhler	<i>Lupinus perennis</i>	Fabaceae	leaves
<i>Lygus lineolaris</i> (Palisot de Beauvois)	<i>Apocynum cannabinum</i> <i>Lithospermum carolinense</i>	Apocynaceae Boraginaceae	N leaf midveins
<i>Metriorrhynchomiris dislocatus</i> (Say)	<i>Tradescantia ohioensis</i> <i>Lupinus perennis</i> <i>Smilacina stellata</i>	Commelinaceae Fabaceae Liliaceae	stems, flower buds stems, developing pods leaves
<i>Orthops scutellatus</i> Uhler	<i>Zizia aurea</i>	Apiaceae	N



Table 1. Continued

Bug Species	Plant Species	Plant Family	Plant Structure and Notes
<i>Poecilopapsus lineatus</i> (Fabricius)	<i>Rhus glabra</i>	Anacardiaceae	leaves
	<i>Cirsium arvense</i>	Asteraceae	leaves
	<i>Cirsium vulgare</i>		leaves
	<i>Eupatorium maculatum</i>		leaves
	<i>Eupatorium perfoliatum</i>		leaves
	<i>Eupatorium rugosum</i>		leaves
	<i>Ratibida pinnata</i>		leaves
	<i>Rudbeckia hirta</i>		leaves
	<i>Silphium perfoliatum</i>		leaves
	<i>Vernonia fasciculata</i>		leaves
	<i>Hackelia virginiana</i>	Boraginaceae	leaves
	<i>Lespedeza capitata</i>	Fabaceae	leaves
	<i>Monarda fistulosa</i>	Lamiaceae	leaves
	<i>Nepeta cataria</i>		leaves
	<i>Stachys</i> sp.		leaves
	<i>Solanum dulcamara</i>	Solanaceae	leaves
	<i>Parietaria pensylvanica</i>	Urticaceae	leaves
<i>Verbena hastata</i>	Verbenaceae	leaves	
<b>Nabidae</b>			
<i>Nabucula subcoleoptrata</i> Kirby	<i>Amorpha canescens</i>	Fabaceae	N
	<i>Asclepias syriaca</i>	Asclepiadaceae	N
	<i>Pycnanthemum virginianum</i>	Lamiaceae	N
<b>Pentatomidae</b>			
<i>Acrosternum hilare</i> (Say)	<i>Gleditia triacanthos</i>	Caesalpiaceae	DS, nymphs, reared
	<i>Senna hebecarpa</i>		DS, nymphs, reared
	<i>Astragalus canadensis</i>	Fabaceae	DS, adults & nymphs, reared
	<i>Verbena hastata</i>	Verbenaceae	DS

Table 1. Continued

Bug Species	Plant Species	Plant Family	Plant Structure and Notes
<i>Apoecilus bracteatus</i> (Fitch) <sup>3</sup>	<i>Asclepias incarnata</i>	Asclepiadaceae	N
<i>Chlorochroa persimilis</i> Horvath	<i>Froelichia floridana</i>	Amaranthaceae	stems or seeds, nymphs, reared
	<i>Cirsium discolor</i>	Asteraceae	DS
	<i>Opuntia humifusa</i>	Cactaceae	adults & nymphs on ripe fruits, reared
	<i>Lupinus perennis</i>	Fabaceae	DS, nymphs, reared
<i>Coenus delius</i> (Say)	<i>Asclepias verticillata</i>	Asclepiadaceae	S
	<i>Onosmodium molle</i>	Boraginaceae	stems
	<i>Amorpha canescens</i>	Fabaceae	DS
	<i>Lespedeza capitata</i>		DS
	<i>Poa compressa</i>	Poaceae	S, nymphs, reared
<i>Cosmopepla bimaculata</i> (Thomas)	<i>Oxypolis rigidior</i>	Apiaceae	DS
	<i>Scrophularia lanceolata</i>	Scrophulariaceae	S, nymphs, reared
	<i>Veronicastrum virginicum</i>		DS
	<i>Thalictrum dasycarpum</i>	Ranunculaceae	RS, nymphs, reared
<i>Euschistus ictericus</i> (Linnaeus)	<i>Asclepias incarnata</i>	Asclepiadaceae	N
<i>Euschistus servus euschistoides</i> (Vollenhoven)	<i>Froelichia floridana</i>	Amaranthaceae	stems
	<i>Oxypolis rigidior</i>	Apiaceae	N
	<i>Apocynum androsaemifolium</i>	Apocynaceae	stems, flowers
	<i>Asclepias tuberosa</i>	Asclepiadaceae	N
	<i>Cirsium discolor</i>	Asteraceae	DS, also at night
	<i>Lactuca canadensis</i> <i>Onosmodium molle</i>	Boraginaceae	DS, RS stems

Table 1. Continued

Bug Species	Plant Species	Plant Family	Plant Structure and Notes
	<i>Senna hebecarpa</i>	Caesalpinjiaceae	stems, DS
	<i>Amorpha canescens</i>	Fabaceae	DS
	<i>Dalea purpurea</i>		DS, nymphs, reared
	<i>Desmodium canadense</i>		DS
	<i>Monarda punctata</i>	Lamiaceae	N
	<i>Panicum virgatum</i>	Poaceae	S
	<i>Paspalum setaceum</i>		stems
	<i>Ranunculus hispidus</i>	Ranunculaceae	DS
	<i>Agrimonia</i> sp.	Rosaceae	DS
<i>Euschistus tristigmus luridus</i> Dallas	<i>Lactuca canadensis</i>	Asteraceae	DS
	<i>Onosmodium molle</i>	Boraginaceae	stems
	<i>Cornus racemosa</i>	Cornaceae	N
<i>Euschistus variolarius</i> (Palisot de Beauvois)	<i>Asclepias incarnata</i>	Asclepiadaceae	DS, nymphs, reared
	<i>Asclepias syriaca</i>		stems at fresh oviposition sites of the weevil <i>Rhyssomatus lineaticollis</i> (Say)
	<i>Asclepias verticillata</i>		N
	<i>Cirsium discolor</i>	Asteraceae	DS
	<i>Onosmodium molle</i>	Boraginaceae	stems
	<i>Euphorbia corollata</i>	Euphorbiaceae	DS
	<i>Amorpha canescens</i>	Fabaceae	DS
	<i>Dalea candida</i>		DS, adults & nymphs, reared
	<i>Dalea villosa</i>		RS
	<i>Desmodium canadense</i>		DS
	<i>Lespedeza capitata</i>		DS
	<i>Anemone canadensis</i>		DS
	<i>Agrimonia</i> sp.	Ranunculaceae	DS
		Rosaceae	DS

Table 1. Continued

Bug Species	Plant Species	Plant Family	Plant Structure and Notes
<i>Holcostethus limbolarius</i> (Stal)	<i>Verbascum thapsus</i> <i>Verbena stricta</i>	Scrophulariaceae Verbenaceae	leaf midveins N
<i>Mormidea lugens</i> (Fabricius)	<i>Conyza canadensis</i>	Asteraceae	DS
<i>Podisus maculiventris</i> (Sax)	<i>Panicum virgatum</i>	Poaceae	S
<i>Stiretrus anchorago</i> (Fabricius)	<i>Solidago canadensis</i>	Asteraceae	N
<i>Trichopepla atricornis</i> Stal	<i>Solidago gigantea</i> <i>Zizia aptera</i> <i>Zizia aurea</i>	Asteraceae Apiaceae	N DS DS
<b>Reduviidae</b> <i>Sinea diadema</i> (Fabricius)	<i>Asclepias verticillata</i>	Asclepiadaceae	N
<b>Rhopalidae</b> <i>Liorhyssus hyalinus</i> (Fabricius)	<i>Lactuca canadensis</i>	Asteraceae	DS, nymphs, reared
<b>Scutelleridae</b> <i>Eurygaster alternata</i> (Say)	<i>Koeleria pyramidata</i>	Poaceae	probing in and about flowers

Table 1. Continued

Bug Species	Plant Species	Plant Family	Plant Structure and Notes
<i>Homaemus aeneifrons</i> (Say)	<i>Monarda fistulosa</i> <i>Oenothera biennis</i>	Lamiaceae Onagraceae	DS DS
<i>Homaemus bijugis</i> Uhler	<i>Panicum virgatum</i> <i>Paspalum setaceum</i> <i>Poa compressa</i> <i>Stipa spartea</i>	Poaceae	DS S S S

<sup>1</sup> See too Williams (2000).

<sup>2</sup> Determined by T. J. Henry.

<sup>3</sup> Determined by J. E. McPherson.

Table 2. Observations of Heteroptera feeding on insects. All were adults unless otherwise noted. Killing of prey, denoted (P), was rarely observed.

Feeding Bug	Insect Fed Upon	Insect Order and Family
<b>Nabidae</b>		
<i>Nabacuta subcoleoptrata</i> Kirby	<i>Longitarsus subrufus</i> LeConte <sup>1</sup> <i>Philaenus spumarius</i> (Linnaeus), nymph <i>Athysanus argentarius</i> Metcalf <sup>2</sup>	Coleoptera, Chrysomelidae Hemiptera, Cercopidae Hemiptera, Cicadellidae
<b>Pentatomidae</b>		
<i>Podisus maculiventris</i> (Say)	<i>Cispeps fulvicollis</i> (Hubner)	Lepidoptera, Arctiidae
<i>Podisus placidus</i> Uhler	<i>Blepharida rhois</i> (Forster), larva	Coleoptera, Chrysomelidae
<b>Reduviidae</b>		
<i>Acholla multispinosa</i> (DeGeer)	<i>Lasioglossum rohweri</i> (Ellis) <sup>3</sup>	Hymenoptera, Halictidae
<i>Phymata americana americana</i> Melin	<i>Diabrotica barberi</i> Smith & Lawrence <i>Diabrotica cristata</i> (Harris) <i>Epicauta pennsylvanica</i> (DeGeer) <i>Aedes</i> sp. <sup>4</sup> <i>Stratiomys badia</i> Walker <i>Eristalis bardus</i> (Say) <i>Eristalis tenax</i> (Linnaeus) <i>Tabanus quinquevittatus</i> Wiedemann <i>Archytas apicifer</i> (Walker) P <i>Apis mellifera</i> Linnaeus P <i>Bombus bimaculatus</i> Cresson <sup>5,6</sup> <i>Bombus impatiens</i> Cresson <sup>5,6</sup> <i>Formica montana</i> Wheeler <sup>7</sup> <i>Halictus ligatus</i> Say <sup>3</sup> <i>Lasioglossum rohweri</i> (Ellis) <sup>3</sup>	Coleoptera, Chrysomelidae Coleoptera, Chrysomelidae Coleoptera, Meloidae Diptera, Culicidae Diptera, Stratiomyidae Diptera, Syrphidae Diptera, Syrphidae Diptera, Tabanidae Diptera, Tachinidae Hymenoptera, Apidae Hymenoptera, Apidae Hymenoptera, Formicidae Hymenoptera, Halictidae Hymenoptera, Halictidae

Table 2. Continued.

Feeding Bug	Insect Fed Upon	Insect Order and Family
	<i>Dolichovespula arenaria</i> (Fabricius)	Hymenoptera, Vespidae
	<i>Cisnopeps fulvicollis</i> (Hubner)	Lepidoptera, Arctiidae
	<i>Euphyes vestris</i> (Boisduval) <sup>8</sup>	Lepidoptera, Hesperidae
	<i>Anographa falcifera</i> (Kirby) <sup>8</sup>	Lepidoptera, Noctuidae
	<i>Feltia jaculifera</i> (Guenee) <sup>8</sup>	Lepidoptera, Noctuidae
	<i>Lacinipolia meditata</i> (Grote) <sup>8</sup>	Lepidoptera, Noctuidae
	<i>Xestia smithii</i> (Snellen) <sup>8</sup>	Lepidoptera, Noctuidae
	<i>Boloria bellona</i> (Fabricius)	Lepidoptera, Nymphalidae
	<i>Nymphalis milberti</i> (Godart)	Lepidoptera, Nymphalidae
	<i>Colias philodice</i> Godart <sup>8</sup>	Lepidoptera, Pieridae
	<i>Panorpa helena</i> Byers	Mecoptera, Panorpidae
<i>Sinea diadema</i> (Fabricius)	<i>Chaetognathus pennsylvanicus</i> (DeGeer)	Coleoptera, Cantharidae
	<i>Diabrotica barberi</i> Smith & Lawrence	Coleoptera, Chrysomelidae
	<i>Longitarsus subrufus</i> LeConte <sup>9</sup>	Coleoptera, Chrysomelidae
	<i>Harmonia axyridis</i> (Pallas)	Coleoptera, Coccinellidae
	<i>Adelphocoris lineolatus</i> (Goeze)	Hemiptera, Miridae
	<i>Pristocera armifera</i> (Say) <sup>10</sup>	Hymenoptera, Bethyilidae

<sup>1</sup> Determined by E. G. Riley.  
<sup>2</sup> Determined by C. H. Dietrich.  
<sup>3</sup> Determined by M. S. Arduser.  
<sup>4</sup> Determined by P. J. Pellitteri.  
<sup>5</sup> Determined by R. W. Husband.  
<sup>6</sup> Determined by W. E. LaBerge.  
<sup>7</sup> Determined by J. C. Trager.  
<sup>8</sup> Determined by L. A. Ferge.  
<sup>9</sup> Fed upon by fourth and fifth instar nymphs as well as by adults.  
<sup>10</sup> Determined by S. J. Krauth.