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**AN ANNOTATED LIST OF THE MIRIDAE OF  
WEST VIRGINIA (HEMIPTERA-HETEROPTERA)**

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AN ANNOTATED LIST OF THE MIRIDAE OF  
WEST VIRGINIA (HEMIPTERA-HETEROPTERA)

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ABSTRACT

A list of 247 mirids, or plant bugs, of West Virginia is presented, based on collections from 1977 to 1981, supplemented by a review of the literature and examination of collections. Most of the species represent new state records; only 19 species were listed from West Virginia in Carvalho's (1957-60) world catalogue of the Miridae. County distribution and seasonal range are provided for all species collected during the survey. Observed host plants for mirids in West Virginia are recorded.

West Virginia, with its diversity of habitats — many of the specialized ones little spoiled by man's activities — can be expected to have a rich insect fauna. Although the state is small (24,181 sq. mi.), its irregular outline reaches north to the latitude of Staten Island, N.Y.; south to 60 miles below Richmond, Va.; west to 40

miles west of Cleveland, Ohio; and east to 50 miles east of Buffalo, N.Y. (Strausbaugh and Core 1970). The state lies wholly within the

southern Appalachians, an area designated the Southern Appalachian Highlands (Blauch 1975). This region has a rich endemic biota [see Holt (1969) for a review of invertebrates and (1970) for review of plants] and is an important center of animal and plant distribution.

The number of insect species occurring in West Virginia should equal or surpass that of many eastern states, but with the exception of butterflies (Drees and Butler 1978), mosquitoes (Amrine and Butler 1980), horse and deer flies (Drees et al. 1980), Plecoptera (Tarter and Kirchner 1980) and other aquatic insects studied by D.C. Tarter and colleagues, most groups have received little attention. As Woodruff (1973) pointed out, West Virginia often appears as a void on insect distribution maps. The species composition and distribution of the largest family of Hemiptera-Heteroptera, the Miridae or plant bugs, is no exception; only 19 species are recorded from West Virginia in Carvalho's (1957-60) catalogue of the world fauna.

Many entomologists deprecate the assembling of local faunal lists. Slater and Schaefer (1963) cite the abuses and provincialisms that are common in local studies: Lists of local insects often are based on limited collecting, usually little effort is made to examine extant collections for additional records, frequently the identifications are inaccurate, and records based on misidentifications are perpetuated in the literature and are difficult to correct. Even if one has time to restudy specimens to make corrections, voucher material may be lacking.

The study of local faunas, however, remains one of the best means of documenting changes in geographic range and of detecting exotic species. Publication of local lists, based on intensive collecting and accurate determinations, not only aids students of the local fauna and systematists making revisionary studies, but may be of value in a broader sense when biogeographic analysis of

### Early Collecting of West Virginia Miridae

One of the first substantial collections of mirids from the state was made by Otto Heidemann, the first hemipterist employed by the U.S. Department of Agriculture at the U.S. National Museum. In 1898 the USDA's Bureau of Entomology named him as an entomological assistant and specialist in Hemiptera. By 1907 he had gained the respect of such hemipterists as Bergroth, Reuter, and Uhler, and he was appointed Honorary Custodian of Hemiptera (Howard et al. 1916). Heidemann worked at a time when entomologists belonging to local societies would gather at some member's home to drink beer and exchange ideas (Howard 1909). Excursions to collect insects locally were also popular. Amateurs and professionals alike would journey by train or trolley for a day or weekend of collecting; interesting captures usually were exhibited at meetings.

Heidemann collected in West Virginia at Berkeley Springs, Morgan Co., a popular resort near Washington, as early as 1885. Some of his observations were incorporated into a paper on host plants of some mirids in the Washington vicinity (Heidemann 1892), one of the earliest articles treating host relationships of North American plant bugs (Wheeler and Henry 1975). Heidemann also collected at Harpers Ferry, Jefferson Co., near Washington, D.C., and at Aurora in Preston Co., during an apparent several-week stay in August 1904. Cornell University purchased Heidemann's collection (Mallis 1971), and many of his West Virginia Miridae are in the Cornell insect collection.

A.D. Hopkins, the first forest entomologist in the United States and a West Virginia native, collected a few mirids, which are housed in the University of West Virginia insect collection. A small collection of plant bugs was made during the summer of 1930 by the well-known Cornell biologist and entomologist J.G. Needham. He collected at Millwood and Ripley in Jackson Co.; nearly all his specimens are labeled as taken in "lighthouse."

### THIS STUDY

Our intensive studies on the Miridae of West Virginia started with a short collecting trip in mid-April 1977 by Mason and



## WEST VIRGINIA

FIGURE 1. Map showing the 55 counties of West Virginia.

Wheeler. Since then, Mason has collected nearly throughout the season. Wheeler made 14 additional trips to the state to collect mirids, mainly with Mason, from June 1977 to August 1980. They were joined on 4 occasions by Henry, who also made or confirmed all species identifications.

Although records are available for all 55 counties of West Virginia (Fig. 1), we collected extensively only in the northeastern counties of the Eastern Panhandle, in the Cranberry Glades in Pocahontas Co., and in the shale barrens in Grant Co. We also made several trips to Greenbrier Co., and to Tucker Co. to collect in the area of Blackwater Falls State Park, the Canaan Valley, and

Dolly Sods. We obtained host records by tapping branches of woody plants over a small tray and aspirating all dislodged specimens. We sampled both native plants and ornamentals growing in cemeteries and parks and on college campuses. General sweeping of herbaceous vegetation and hand collecting from specific plants provided a few additional records.

Our collecting was supplemented by records obtained from the insect collections of West Virginia University, Morgantown (WVU), and the West Virginia Department of Agriculture, Charleston (WVDA). Of particular interest were specimens collected by Linda Butler, Professor of Entomology, WVU, in the southwestern counties. We also used records of collections made by WVU graduate students J.W. Begley and Pamela Custer, and by J.D. Hacker in surveys for the WVDA. The collection at the U.S. National Museum of Natural History, Washington, D.C. (USNM), was scanned for West Virginia records, and the Cornell University collection was examined for West Virginia Miridae taken by Otto Heidemann.

#### HABITAT AND HOST ASSOCIATIONS

*Cranberry Glades Botanical Area.* — As described by Core (1955), this unique habitat of about 750 acres lies at 3,400 feet in a high mountain valley of southwestern Pocahontas Co. Biologically, the most interesting area is the open bog or peatland, which is surrounded by alder thickets and a bog forest (Fig. 2). These glades, or "muskegs," are the southernmost sphagnum bogs in the United States. During the Pleistocene glaciations, the Cranberry Glades served as a refugium for a northern biota. Several species of birds and mammals are known to have their southern breeding limits in the area, and several plant species also reach their southernmost limits in the Glades.

During our 4 trips to the Cranberry Glades, we collected 2 species whose distributions are primarily northern. A disjunct population of *Mecomma gilvipes* was found along a trail above the open bogs. Nymphs and adults were common near ground level among grasses and *Ranunculus* spp. Another species characteristic of more northern regions is *Phytocoris junceus*, which was taken at the Visitor Center.



FIGURE 2. Aerial view of open bogs (glades) and bog forest, Cranberry Glades Botanical Area, Pocahontas County, West Virginia.

The thickets of alder, *Alnus rugosa*, surrounding the bogs yielded *Diaphnocoris provancheri*, *Lygocoris alni*, *Pilophorus brunneus*, *Psallus alnicola*, and *P. fuscatus*. Native red spruce, *Picea rubens*, harbored large numbers of *Orthotylus pennsylvanicus*, *Phytocoris buenoi*, *Pilophorus piceicola*, and *Psallus piceicola*.

Few interesting mirids were found in the open bogs except for the ant mimic *Sericophanes heidemanni*, of which a large population (averaging about 1/sweep with a standard insect net) was associated with the sedge *Carex rostrata* (Fig. 3). Early instars were



FIGURE 3. *Carex rostrata*, a sedge dominating much of an open bog in the Cranberry Glades Botanical Area. Red spruce, an alder thicket, and mountains are visible in the background.

hidden among sphagnum at the base of sedges; later instars were observed on sedge stems, where they were difficult to distinguish from the ant *Dolichoderus taschenbergi* Mayr var. *aterrimus* Wheeler. In sweep-net samples, macropterous males of *S. heidemanni* outnumbered brachypterous females by 3 or 4:1. This mirid has been reported only from much drier habitats, e.g., pasture land (Knight 1941).

*Shale Barrens.* — “Exposed bare slopes composed of fragments of shale and siltstone” (Keener 1970) occur in the southern Appalachians. These shaly outcrops of steep, southern exposure are generally referred to as “shale barrens.” According to Keener, they are either of post-Pleistocene origin, or they may have persisted as a specialized ecological niche throughout the Pleistocene. Because of their rich endemic flora the shale barrens are important in the study of phytophagous insects.

One of the most interesting mirids found in the shale barrens near Petersburg, Grant Co., was a striking orange-red species of *Polymerus* associated with *Phlox subulata*. Henry (1979) described this new species as *P. wheeleri*, based solely on specimens from the Grant Co. barrens. An interesting species of *Lopidea* found developing on phlox was *L. phlogis*, a mirid previously known only from the type-locality, Raleigh, North Carolina (Knight 1965). Other mirids that we collected only in the shale barrens near Petersburg were *Labopidicola allii*, a specialist on garlic and onion (*Allium* spp.) (Henry 1982), and *Melanotrichus catulus*, which appeared to be associated with composites of the genus *Antennaria*.

*Other Interesting Distributions and Hosts.* — In addition to the northern species found in the Cranberry Glades, we have some of the most southern records available for *Orthotylus necopinus*, a birch-feeding mirid collected at Olson Bog, and *Platylygus luridus*, found developing on *Pinus pungens* on Dolly Sods. Another interesting record, the southernmost for the eastern U.S., was *Lygus nubilis*, collected on *Clematis virginiana* in Kanawah Co.

Several mirids known mainly from states to the south also were collected. West Virginia records for *Keltonia sulphurea*, *Lepidosallus miniatus*, *Oncerometopus nitens*, and *Neocapsus cuneatus* are among the most northern for those species.

Four seldom-collected species were common at higher elevations of the central region, particularly in Tucker Co. Nymphs and adults of *Taedia heidemannii* were abundant on a shrubby St. Johnswort, *Hypericum densiflorum*, in Olson Bog and Blackwater Falls State Park. At the latter site, a new species of *Neurocolpus* (to be described by Henry) was common on *Viburnum cassinoides*. Characteristic mirids of the Canaan Valley were *Plagiognathus fuscus* on pipestem, *Spiraea alba*, and *P. brevirostris* on meadowrue, *Thalictrum polygamum*. Meadowrue appears to be the first host record for *P. brevirostris*. The West Virginia record for the recently described *Saileria irrorata* is the only one except for Monticello, Indiana, the type-locality (Henry 1976), and Gainesville, Florida (Henry 1980).

## LIST OF WEST VIRGINIA MIRIDAE

We record 247 species of plant bugs from West Virginia, including 3 species listed for the state by Carvalho (1957-60) but not taken during our survey. The 19 species Carvalho recorded from West Virginia are marked with an asterisk. Carvalho did not include the isometopines or jumping tree bugs, now considered a subfamily of the Miridae, but West Virginia material was included in the original descriptions of *Corticoris pulchellus* and *Myiomma cixiiforme*. Nearly all remaining species represent new state records, although a few common mirids like the ubiquitous tarnished plant bug, *Lygus lineolaris*, probably have been mentioned from the state in economic literature.

We use a higher classification similar to that employed in the recent list of Georgia Miridae (Henry and Smith 1979). It combines the more traditional scheme of Knight (1941) with certain modifications proposed by Schuh (1976). The reader should keep in mind that mirid higher classification is undergoing revision and that the placement and recognition of several subfamilies and tribes is in dispute.

For each species (except the 3 listed in the Carvalho catalogue but not confirmed by us), we give the West Virginia distribution (alphabetically by county) and seasonal range (earliest and latest collection dates of adults). Host plants observed in West Virginia also are listed, but we do not cite hosts recorded in the literature. In general, "hosts" are plants on which we observed nymphs, or those that have been well documented as host plants of particular mirids; slightly less rigid definitions of hosts were allowed for predacious species, especially those of the large genera *Deraeocoris* and *Phytocoris*. Authors and common names for West Virginia hosts are given in Appendix 1. For a few species, taxonomic and other comments are included under "Remarks." Voucher specimens of nearly all species are found in the insect collection of the Pennsylvania Department of Agriculture, Harrisburg, and the personal collection of T.L. Mason. Additional material is in the collections of USNM, WVU, and WVDA, and a few species are represented in the Cornell University collection.

## SUBFAMILY ISOMETOPINAE

## Tribe Diphlebini

*Diphleps unica* Bergroth

Distribution. — Greenbrier

Seasonal Range. — 16 July

WV Host. — *Acer pseudoplatanus*

## Tribe Isometopini

*Corticoris pulchellus* (Heidemann)

Distribution. — Preston

Seasonal Range. — 8 Aug.

Remarks. — The only known West Virginia record is Aurora, Preston Co., the one Heidemann (1908) used in his original description of this species.

*Corticoris signatus* (Heidemann)

Distribution. — Mineral, Wood

Seasonal Range. — 10 June to 14

July

WV Host. — *Malus* sp. (crabapple)*Myiomma cixiiforme* (Uhler)

Distribution. — Grant, Mineral

Seasonal Range. — 10 June to 10

July

WV Host. — *Quercus coccinea*

## SUBFAMILY PHYLINAE

## Tribe Phylini

*Amblytylus nasutus* (Kirschbaum)

Distribution. — Berkeley, Grant, Jefferson, Mineral, Monongalia

Seasonal Range. — 30 May to 10 June

WV Host. — grasses

*Atractotomus magnicornis* (Fallén)

Distribution. — Berkeley, Harrison, Jefferson, Randolph

Seasonal Range. — 27 May to 3 July

WV Host. — *Picea abies**Campylomma verbasci* (Meyer)

Distribution. — Berkeley

Seasonal Range. — 25 Aug.

WV Host. — *Verbascum thapsus**Chlamydatus associatus* (Uhler)

Distribution. — Grant

Seasonal Range. — 4 June

*Criocoris saliens* (Reuter)

Distribution. — Berkeley, Jefferson, Mineral, Preston

Seasonal Range. — 30 May to 25 June

WV Hosts. — *Galium aparine*, *G. mollugo*

*Keltonia sulphurea* (Reuter)

Distribution. — Wood

Seasonal Range. — 22 Aug.

*Lepidopsallus claricornis* Knight

Distribution. — Jefferson

Seasonal Range. — 15-16 May

WV Host. — *Pinus virginiana**Lepidopsallus miniatus* Knight

Distribution. — Jefferson

Seasonal Range. — 17 May

WV Host. — *Quercus alba**Lepidopsallus rostratus* Knight

Distribution. — Berkeley, Grant, Hampshire

Seasonal Range. — 31 May to 4 July

WV Hosts. — *Pinus mugo*, *P. virginiana*

*Lepidopsallus rubidus* (Uhler)

Distribution. — Tucker

Seasonal Range. — 12 Aug.

WV Host. — *Salix* sp.

*Lopus decolor* (Fallén)

Distribution. — Monongalia, Preston

Seasonal Range. — 2 July to 3 Aug.

*Megalocoleus molliculus* (Fallén)

Distribution. — Braxton, Gilmer, Greenbrier, Preston, Ritchie, Tucker

Seasonal Range. — 4 June to 12 Aug.

WV Host. — *Achillea millefolium*

*Microphylellus modestus* Reuter

Distribution. — Kanawha, Mineral, Pendleton

Seasonal Range. — 31 May to 23 June

WV Host. — *Quercus stellata*

*Microphylellus tsugae* Knight

Distribution. — Brooke, Monongalia, Ohio, Pocahontas, Tucker

Seasonal Range. — 9-25 June

WV Host. — *Tsuga canadensis*

*Microphylellus tumicifrons* Knight

Distribution. — Harrison, Kanawha, Jefferson, Pocahontas, Preston

Seasonal Range. — 1 June to 15 July

WV Hosts. — *Picea abies*, *P. glauca*

*Plagiognathus albatus* (Van Duzee)

Distribution. — Nicholas, Upshur

Seasonal Range. — 24 June

WV Host. — *Platanus occidentalis*

*Plagiognathus annulatus* Uhler

Distribution. — Greenbrier, Kanawha, Mineral, Randolph, Upshur

Seasonal Range. — 7 June to 18 July

*Plagiognathus atricornis* Knight

Distribution. — Braxton

Seasonal Range. — 23 June

WV Host. — *Betula nigra*

*Plagiognathus blatchleyi* Reuter

Distribution. — Jefferson

Seasonal Range. — 23 Aug.

*Plagiognathus brevirostris* Knight

Distribution. — Greenbrier, Tucker

Seasonal Range. — 26 June to 17 July

WV Host. — *Thalictrum polygamum*

*Plagiognathus carneolus* Knight

Distribution. — Jefferson, Kanawha, Ritchie

Seasonal Range. — 22 April to 15 May

WV Host. — *Pinus virginiana*

*Plagiognathus cornicola* Knight

Distribution. — Greenbrier, Hancock, Jefferson, Nicholas

Seasonal Range. — 1-25 June

WV Hosts. — *Cornus amomum*,

*C. florida*, *C. racemosa*, *C. sericea*

*Plagiognathus cuneatus* Knight

Distribution. — Monongalia, Randolph, Ritchie, Wetzel

Seasonal Range. — 18 June to 8 Aug.

*Plagiognathus delicatus* (Uhler)

Distribution. — Berkeley

Seasonal Range. — 2 June

WV Host. — *Gleditsia triacanthos*

*Plagiognathus dispar* Knight

Distribution. — Mineral, Monongalia, Ohio, Pocahontas, Preston

Seasonal Range. — 9-25 June

WV Hosts. — *Carya* sp., *Fagus grandifolia*, *Juglans nigra*

*Plagiognathus* sp. near *flavicornis* Knight

Distribution. — Mineral

Seasonal Range. — 10 June

*Plagiognathus fulvidus* Knight

Distribution. — Fayette

Seasonal Range. — 10 July

*Plagiognathus fuscus* (Provancher)

Distribution. — Tucker

Seasonal Range. — 17 July to 12 Aug.

WV Host. — *Spiraea alba*

*Plagiognathus laricicola* Knight

Distribution. — Brooke, Ohio

Seasonal Range. — 25 June

WV Host. — *Larix* sp.

*Plagiognathus obscurus* Uhler

Distribution. — Jefferson, Tucker

Seasonal Range. — 2-23 Aug.

*Plagiognathus politus* Uhler

Distribution. — Berkeley, Braxton, Grant, Gilmer, Greenbrier, Jefferson, Kanawha, Mineral, Monongalia, Nicholas, Preston, Randolph, Ritchie, Tucker, Upshur

Seasonal Range. — 10 June to 3 Sept.

WV Hosts. — *Achillea millefolium*, *Carduus acanthoides*, *Chrysanthemum leucanthemum*, *Echium vulgare*, *Oenothera biennis*, *Verbascum thapsus*

*Plagiognathus punctatipes* Knight

Distribution. — Berkeley, Greenbrier, Hampshire, Pocahontas

Seasonal Range. — 31 May to 25 June

WV Host. — *Physocarpus opulifolius*

*Plagiognathus rosicola* Knight

Distribution. — Putman

Seasonal Range. — 29 June

WV Host. — *Rosa* sp.

*Plagiognathus similis* Knight

Distribution. — Braxton, Kanawha

Seasonal Range. — 23 June

WV Host. — *Betula nigra*

*Plagiognathus suffuscipennis* Knight

Distribution. — Greenbrier, Harrison, Kanawha, Pendleton, Randolph

Seasonal Range. — 9-25 June

WV Hosts. — *Picea abies*, *P. glauca*

*Plagiognathus tinctus* Knight

Distribution. — Clayton

Seasonal Range. — 23 June

WV Host. — *Salix* sp.

*Plagiognathus vitellinus* (Scholtz)

Distribution. — Berkeley, Hampshire, Jefferson, Preston

Seasonal Range. — 27 May to 12 June

WV Hosts. — *Picea abies*, *Pseudotsuga menziesii*

*Plesiodesma sericeum* (Heidemann)

Distribution. — Kanawha

Seasonal Range. — 23 June

WV Host. — *Tilia americana**Psallus alnicola* Douglas & Scott

Distribution. — Pocahontas

Seasonal Range. — 15-30 July

WV Host. — *Alnus rugosa*

*Psallus fuscatus* Knight

Distribution. — Pocahontas

Seasonal Range. — 15 July

WV Host. — *Alnus rugosa*

*Psallus piceicola* Knight

Distribution. — Hancock, Harrison, Jefferson, Pendleton, Pocahontas, Preston

Seasonal Range. — 10 June to 16 Sept.

WV Host. — *Picea abies*, *P. glauca*, *P. rubens*

*Psallus strobicola* Knight

Distribution. — Greenbrier, Hampshire, Pendleton

Seasonal Range. — 31 May to 25 June

WV Host. — *Pinus strobus*

*Reuteroscopus ornatus* (Reuter)

Distribution. — Jefferson, Kanawha, Monongalia, Morgan, Preston, Wayne, Wood

Seasonal Range. — 11 June to 7 Sept.

*Rhinocapsus vanduzeei* Uhler

Distribution. — Greenbrier, Hardy

Seasonal Range. — 25 June to 3 July

WV Host. — *Rhododendron* sp. (azalea)

*Spanagonicus albofasciatus* (Reuter)

Distribution. — Berkeley

Seasonal Range. — 25-27 Aug.

## SUBFAMILY ORTHOTYLINAE

## Tribe Ceratocapsini

*Ceratocapsus barbatus* Knight

Distribution. — Berkeley, Grant

Seasonal Range. — 26 June to 20 July

WV Hosts. — *Pinus sylvestris*, *P. virginiana**Ceratocapsus complicatus* Knight

Distribution. — Ritchie

Seasonal Range. — 3 Sept.

WV Host. — *Carya ovata**Ceratocapsus fasciatus* (Uhler)

Distribution. — Morgan

Seasonal Range. — 11-20 Aug.

*Ceratocapsus fuscus* Knight

Distribution. — Jackson, Marion

Seasonal Range. — 28 June to 16 Aug.

*Ceratocapsus incisus* Knight

Distribution. — Greenbrier, Nicholas, Preston

Seasonal Range. — 24 June to 17 Aug.

WV Hosts. — *Carpinus caroliniana*, *Fagus grandifolia**\*Ceratocapsus luteus* Knight

Distribution. — Hancock, Preston, Wood

Seasonal Range. — 9-22 Aug.

WV Host. — *Pinus sylvestris**Ceratocapsus modestus* (Uhler)

Distribution. — Berkeley, Morgan, Preston

Seasonal Range. — 6 July to 20 Aug.

WV Hosts. — *Quercus alba*, *Vitis* sp.*Ceratocapsus nigellus* Knight

Distribution. — Kanawha, Ritchie

Seasonal Range. — 13 June to 8 July

WV Host. — *Carya ovata**Ceratocapsus pumilus* (Uhler)

Distribution. — Jefferson, Monongalia, Preston, Tucker

Seasonal Range. — 3 July to 16 Aug.

WV Hosts. — *Alnus serrulata*, *Cotoneaster* sp.*Ceratocapsus* sp. near *quadriscipulus* Knight

Distribution. — Morgan, Ritchie

Seasonal Range. — 20 Aug. to 11 Sept.

*Ceratocapsus rubricornis* Knight

Distribution. — Monongalia, Wood

Seasonal Range. — 3-18 Aug.

WV Hosts. — *Quercus palustris*, *Q. phellos**Ceratocapsus setosus* Reuter

Distribution. — Hancock, Wood

Seasonal Range. — 9-22 Aug.

*\*Ceratocapsus uniformis* Knight

Distribution. — Jackson, Jefferson

Seasonal Range. — 12 July to 6 Aug.

WV Host. — *Juglans nigra**Ceratocapsus vicinus* Knight

Distribution. — Tucker

Seasonal Range. — 12 Aug.

## Tribe Halticini

*Halticus bractatus* (Say)

Distribution. — Berkeley, Hardy,  
Jefferson, Lewis, Monongalia,  
Preston

Seasonal Range. — 9 June to 15  
Sept.

WV Host. — *Glycine max*

*Halticus intermedius* Uhler

Distribution. — Upshur  
Seasonal Range. — 18 July

## Tribe Orthotylini

*Diaphnocoris chlorionis* (Say)

Distribution. — Berkeley, Gilmer  
Seasonal Range. — 31 May to 2 June  
WV Host. — *Gleditsia triacanthos*

*Diaphnocoris provancheri* (Burque)

Distribution. — Greenbrier, Jeffer-  
son, Monongalia, Nicholas, Ohio,  
Pocahontas, Preston, Tucker  
Seasonal Range. — 24 June to 26  
Sept.

WV Hosts. — *Alnus rugosa*, *Fagus*  
*grandifolia*, *Fraxinus* sp., *Juglans*  
*nigra*, *Quercus palustris*, *Q. prinus*,  
*Q. rubra*

Remarks. — Kelton (1980a syn-  
onymized *D. pellucida* (Uhler  
under *D. provancheri*. West  
Virginia specimens having pale,  
second antennal segments previous-  
ly would have been referred to  
*pellucida*; they were collected main-  
ly from hosts other than *Alnus*.

*\*Heterocordylus malinus* Reuter

Distribution. — Greenbrier,  
Kanawha, Monongalia, Pocahon-  
tas

Seasonal Range. — 25 May to 25  
June

WV Host. — *Crataegus punctata*

*Ilacora malina* (Uhler)

Distribution. — Berkeley, Kanawha,  
Lincoln, Pocahontas  
Seasonal Range. — 1-23 June

WV Hosts. — *Ambrosia trifida*,  
*Helianthus* sp.

*Ilacora stalii* Reuter

Distribution. — Kanawha, Monon-  
galia, Morgan, Summers, Wood  
Seasonal Range. — 27 Apr. to 1  
Sept.

WV Host. — *Helianthus* sp.

*Labopidicola allii* (Knight)

Distribution. — Grant  
Seasonal Range. — 29 May to 4 June  
WV Host. — *Allium* sp.

*Lopidea confluenta* (Say)

Distribution. — Jackson, McDowell,  
Monongalia, Preston, Ritchie  
Seasonal Range. — 3 July to 11 Aug.

*Lopidea cuneata* Van Duzee

Distribution. — Mineral  
Seasonal Range. — 10 June

*\*Lopidea davisii* Knight

Distribution. — Tucker  
Seasonal Range. — 2 Aug.  
WV Host. — *Phlox* sp.

*Lopidea heidemanni* Knight

Distribution. — Boone, Braxton,  
Grant, Greenbrier, Jefferson,  
Kanawha, Lincoln, Marion, Mar-  
shall, Mineral, Monongalia, Pres-  
ton, Summers

Seasonal Range. — 10 May to 16  
Aug.

*Lopidea incurva* Knight

Distribution. — Monongalia  
Seasonal Range. — 3 Aug.  
WV Host. — *Gleditsia triacanthos*

- Lopidea instabilis* (Reuter)  
Distribution. — Morgan  
Seasonal Range. — 20 Aug.
- Lopidea marginalis* (Reuter)  
Distribution. — Grant, Ritchie  
Seasonal Range. — 21 June to 17 July
- Lopidea media* (Say)  
Distribution. — Greenbrier, Hancock, Monongalia, Pocahontas, Raleigh, Ritchie, Tucker, Wayne  
Seasonal Range. — 13 June to 13 Sept.  
WV Host. — *Achillea millefolium*
- Lopidea phlogis* Knight  
Distribution. — Grant  
Seasonal Range. — 29 May to 4 June  
WV Host. — *Phlox subulata*
- \**Lopidea reuteri* (Knight)  
Distribution. — Recorded from the state by Carvalho (1958b)
- Lopidea robiniae* (Uhler)  
Distribution. — Berkeley, Greenbrier, Hancock, Hardy, Harrison, Jefferson, Logan, McDowell, Marshall, Monongalia, Morgan, Preston, Tucker  
Seasonal Range. — 12 May to 22 Aug.  
WV Host. — *Robinia pseudoacacia*
- Lopidea salicis* Knight  
Distribution. — Berkeley  
Seasonal Range. — 26 July  
WV Host. — *Salix* sp.
- Lopidea staphyleae* Knight  
Distribution. — Jefferson  
Seasonal Range. — 23 Aug.  
WV Host. — *Staphylea trifolia*
- Mecomma gilvipes* (Stål)  
Distribution. — Pocahontas  
Seasonal Range. — 25 June to 30 July  
WV Hosts. — *Ranunculus* spp., grasses
- Melanotrichus catulus* (Van Duzee)  
Distribution. — Grant  
Seasonal Range. — 28 May to 4 June  
WV Hosts. — *Antennaria* spp.
- Melanotrichus flavosparsus* (Sahlberg)  
Distribution. — Jefferson, Monongalia  
Seasonal Range. — 10 July to 7 Aug.
- Orthocephalus coriaceus* (F.)  
Distribution. — Berkeley, Jefferson, Mineral  
Seasonal Range. — 31 May to 10 June  
WV Hosts. — *Achillea millefolium*, *Potentilla recta*
- Orthotylus modestus* Van Duzee  
Distribution. — Berkeley, Clay, Greenbrier, Hancock, Morgan, Tucker, Upshur  
Seasonal Range. — 23 June to 18 July  
WV Host. — *Salix nigra*
- Orthotylus necopinus* Van Duzee  
Distribution. — Tucker  
Seasonal Range. — 29 June
- Orthotylus pennsylvanicus* Henry  
Distribution. — Hampshire, Harrison, Mineral, Pendleton, Pocahontas, Randolph  
Seasonal Range. — 8-25 June  
WV Hosts. — *Picea abies*, *P. glauca*, *P. rubens*
- Orthotylus ramus* Knight  
Distribution. — Jefferson  
Seasonal Range. — 30 May  
WV Host. — *Carya illinoensis*
- Orthotylus serus* Van Duzee  
Distribution. — Greenbrier, Pocahontas  
Seasonal Range. — 25 June  
WV Host. — *Crataegus* sp.

*Orthotylus submarginatus* (Say)

Distribution. — Berkeley, Marshall,  
Monongalia, Tucker

Seasonal Range. — 26 June to 21  
July

WV Host. — *Robinia pseudoacacia*

*Orthotylus viridis* Van Duzee

Distribution. — Greenbrier

Seasonal Range. — 16 July

WV Host. — *Salix* sp.

*Paraproba capitata* (Van Duzee)

Distribution. — Berkeley, Brooke,  
Greenbrier, Kanawha, Morgan,  
Ritchie

Seasonal Range. — 25 June to 10  
Sept.

WV Hosts. — *Carya* sp. *Juglans*  
*nigra*, *Quercus alba*, *Ulmus*  
*americana*, *U. rubra*

*\*Parthenicus juniperi* (Heidemann)

Distribution. — Grant, Harrison,  
Jefferson, Kanawha, Mineral,  
Pendleton, Wood

Seasonal Range. — 1 June to 9  
Sept.

WV Hosts. — *Juniperus chinensis*, *J.*  
*virginiana*

*Pseudoxenetus regalis* (Uhler)

Distribution. — Berkeley

Seasonal Range. — 27 May

*Pseudoxenetus scutellatus* (Uhler)

Distribution. — Berkeley, Jefferson,  
Monongalia, Morgan, Tucker

Seasonal Range. — 17 May to 15  
July

*Reuteria irrorata* (Say)

Distribution. — Jefferson, Morgan  
Seasonal Range. — 3 July to 20 Aug.

WV Host. — *Ulmus americana*

*Saileria irrorata* Henry

Distribution. — Grant

Seasonal Range. — 13 July

*Semium hirtum* Reuter

Distribution. — Taylor

Seasonal Range. — 3 Aug.

WV Host. — *Euphorbia maculata*

*Sericophanes heidemanni* Poppius

Distribution. — Berkeley, Braxton,  
Hardy, Kanawha, Mason,  
Monongalia, Pendleton, Pocahon-  
tas

Seasonal Range. — 26 May to 10  
Aug.

WV Host. — *Carex rostrata*

*Slaterocoris atritibialis* (Knight)

Distribution. — Monongalia, Pres-  
ton, Ritchie, Tucker

Seasonal Range. — 19 May to 17  
July

*Slaterocoris breviatus* (Knight)

Distribution. — Grant, Preston

Seasonal Range. — 8-13 July

*Slaterocoris stygicus* (Say)

Distribution. — Berkeley, Boone,  
Harrison, Tucker

Seasonal Range. — 1 June to 17 July

WV Host. — *Ambrosia trifida*

## Tribe Pilophorini

*\*Alepia gracilis* (Uhler)

Distribution. — Grant, Greenbrier,  
Hancock, Kanawha, Preston

Seasonal Range. — 23 June to 22  
Aug.

WV Hosts. — *Pinus nigra*, *P. syl-*  
*vestris*, *P. virginiana*

*Pilophorus amoenus* Uhler

Distribution. — Berkeley, Braxton,  
Greenbrier, Monongalia, Morgan,  
Preston

Seasonal Range. — 27 June to 20  
Aug.

WV Hosts. — *Pinus sylvestris*, *P.*  
*virginiana*

*Pilophorus brunneus* Poppius

Distribution. — Hancock, Pocahontas

Seasonal Range. — 25 June to 30 July

WV Hosts. — *Alnus rugosa*, *Salix* sp.

*Pilophorus crassipes* Heidemann

Distribution. — Berkeley, Brooke, Grant, Hancock, Pleasants, Wood

Seasonal Range. — 17 July to 22 Aug.

WV Hosts. — *Pinus sylvestris*, *P. virginiana*

*\*Pilophorus heidemanni* Poppius

Distribution. — Recorded from the state by Carvalho (1958b)

*Pilophorus juniperi* Knight

Distribution. — Greenbrier

Seasonal Range. — 16 July

WV Host. — *Juniperus virginiana*

*Pilophorus laetus* Heidemann

Distribution. — Braxton, Hancock, Morgan, Wood

Seasonal Range. — 30 June to 15 Sept.

WV Hosts. — *Pinus sylvestris*, *P. virginiana*

*Pilophorus piceicola* Knight

Distribution. — Brooke, Greenbrier, Hampshire, Harrison, Jefferson, Kanawha, Nicholas, Pendleton, Pocahontas, Preston, Randolph, Taylor, Tucker

Seasonal Range. — 31 May to 11 Aug.

WV Hosts. — *Picea abies*, *P. glauca*, *P. rubens*

*Pilophorus strobicola* Knight

Distribution. — Greenbrier, Jefferson, Pocahontas, Preston, Tucker, Wood

Seasonal Range. — 25 June to 9 Sept.

WV Host. — *Pinus strobus*

*Pilophorus uhleri* Knight

Distribution. — Preston

Seasonal Range. — 11 Aug.

WV Host. — *Pinus sylvestris*

*Pilophorus walshii* Uhler

Distribution. — Berkeley, Monongalia

Seasonal Range. — 3 Aug.

WV Host. — *Gleditsia triacanthos*

## SUBFAMILY CYLAPINAE

## Tribe Cylapini

*Cylapus tenuicornis* Say

Distribution. — Berkeley, Monongalia

Seasonal Range. — 21 July to 7 Aug.

## Tribe Fulviini

*Fulvius imbecilis* (Say)

Distribution. — Berkeley

Seasonal Range. — 12 July

## SUBFAMILY DERAECORINAE

## Tribe Deraecorini

*Deraecoris albigulus* Knight

Distribution. — Ohio, Preston,  
Tucker

Seasonal Range. — 25 June to 11  
Aug.

WV Hosts. — *Pinus pungens*, *P.*  
*sylvestris*

*Deraecoris aphidiphagus* Knight

Distribution. — Jefferson, Kana-  
wha, McDowell, Mineral

Seasonal Range. — 20 May to 17  
June

WV Host. — *Ulmus americana*

*Deraecoris davisii* Knight

Distribution. — Berkeley, Tucker

Seasonal Range. — 27 May to 29  
June

WV Host. — *Populus tremuloides*

*Deraecoris fasciolus* Knight

Distribution. — Kanawha, Nicholas,  
Tucker

Seasonal Range. — 23 June to 12  
Aug.

WV Host. — *Fagus grandifolia*

*Deraecoris nebulosus* (Uhler)

Distribution. — Berkeley, Jefferson,  
Kanawha, Lewis, Monongalia,  
Ohio, Pocahontas, Preston,  
Tucker

Seasonal Range. — 2 Apr. to 11 Aug.

WV Hosts. — *Alnus rugosa*, *Cas-  
tanea mollissima*, *Juglans nigra*,  
*Quercus palustris*, *Q. prinus*, *Tilia  
americana*

*Deraecoris nigrutulus* Knight

Distribution. — Berkeley, Grant,  
Greenbrier, Hampshire, Jefferson,  
Kanawha, Mineral, Preston,  
Tucker

Seasonal Range. — 26 May to 11  
Aug.

WV Hosts. — *Pinus sylvestris*, *P.*  
*virginiana*

*Deraecoris nitenatus* Knight

Distribution. — Berkeley, Jefferson,  
Lincoln, Ritchie, Tucker

Seasonal Range. — 2 June to 26  
Aug.

WV Hosts. — *Celtis occidentalis*,  
*Juglans nigra*

*Deraecoris nubilis* Knight

Distribution. — Greenbrier, Han-  
cock, Kanawha, Monongalia,  
Morgan, Ohio, Preston, Taylor,  
Tucker, Wetzel

Seasonal Range. — 23 June to 21  
Oct.

WV Hosts. — *Larix* sp., *Pinus stro-  
bus*, *P. sylvestris*

*Deraecoris pinicola* Knight

Distribution. — Preston

Seasonal Range. — 11 Aug.

WV Host. — *Pinus strobus*

*\*Deraecoris poecilus* (McAtee)

Distribution. — Braxton, Lincoln,  
Wood

Seasonal Range. — 26 July to 8 Aug.

WV Hosts. — *Betula nigra*, *B. papy-  
rifera*

*Deraecoris quercicola* Knight

Distribution. — Brooke, Kanawha,  
Pendleton, Wayne

Seasonal Range. — 26 June to 9 Aug.

WV Hosts. — *Carya* sp., *Quercus  
alba*, *Q. ilicifolia*, *Tilia americana*

*Eurychilopterella luridula* Reuter

Distribution. — Jefferson

Seasonal Range. — 23 June

WV Host. — "Predator on *Pseu-  
dococcus comstocki*" (USNM col-  
lection)

*Eustictus grossus* (Uhler)

Distribution. — Berkeley, Grant,  
Morgan

Seasonal Range. — 17 July to 20  
Sept.

WV Host. — *Pinus virginiana*

## Tribe Hyaliadini

*Hyaliodes harti* Knight

Distribution. — Berkeley, Greenbrier, Hancock, Marshall, Monongalia, Preston, Wood

Seasonal Range. — 26 June to 16 Sept.

WV Hosts. — *Cornus* sp., *Juglans nigra*, *Quercus alba*, *Q. rubra*, *Viburnum recognitum*, *Vitis* sp.

*Hyaliodes vitripennis* (Say)

Distribution. — Berkeley, Jackson, Monongalia

Seasonal Range. — 10 July to 14 Aug.

WV Hosts. — *Aesculus* sp., *Vitis* sp.

## SUBAMILY MIRINAE

## Tribe Resthenini

*Oncerometopus nitens* Knight

Distribution. — Lincoln

Seasonal Range. — 26 July

*Prepops fraterculus* (Knight)

Distribution. — Monongalia

Seasonal Range. — 28 July

*\*Prepops fraternus* (Knight)

Distribution. — Mason, Monongalia

Seasonal Range. — 8 July to 28 Aug.

*Prepops insignis* (Say)

Distribution. — Braxton

Seasonal Range. — 8 July

*Prepops insitivus* (Say)

Distribution. — Greenbrier, Kanawha, Monongalia, Pocahontas, Upshur

Seasonal Range. — 29 May to 27 July

*Prepops nigricollis* (Reuter)

Distribution. — Preston

Seasonal Range. — 27 June

## Tribe Mirini

*Adelphocoris lineolatus* (Goeze)

Distribution. — Braxton, Grant, Greenbrier, Hardy, Harrison, Jefferson, Kanawha, Lincoln, McDowell, Mason, Mercer, Mineral, Monongalia, Pendleton, Pocahontas, Preston, Ritchie, Summers

Seasonal Range. — 30 May to 28 Oct.

WV Hosts. — *Coronilla varia*, *Medicago sativa*

*Adelphocoris rapidus* (Say)

Distribution. — Boone, Cabell, Grant, Hardy, Jackson, Jefferson, Kanawha, Marion, Mason, Monongalia, Morgan, Pocahontas, Preston, Summers, Taylor, Tucker

Seasonal Range. — 21 May to 16 Oct.

WV Host. — *Medicago sativa*

*Agnocoris pulverulentus* (Uhler)

Distribution. — Clay, Hancock, Morgan, Ohio

Seasonal Range. — 25 June to 4 July

WV Host. — *Salix nigra*

*Bolteria luteifrons* Knight

Distribution. — Hampshire, Kanawha, Marion, Monongalia, Pocahontas, Raleigh

Seasonal Range. — 13 May to 24 June

WV Hosts. — *Juniperus chinensis*, *J. horizontalis*, *J. virginiana*

*Capsus ater* (L.)

Distribution. — Berkeley, Grant, Greenbrier, Jackson, Jefferson, McDowell, Marion, Mason, Monongalia, Morgan, Pendleton, Pocahontas, Summers, Wetzel

Seasonal Range. — 30 Apr. to 25 June

WV Hosts. — *Hordeum vulgare*, *Medicago sativa*

*Coccobaphes sanguinarus* Uhler

Distribution. — Monongalia

Seasonal Range. — 26 May to 24 Aug.

*Dichroscytus elegans* Heidemann

Distribution. — Grant, Hampshire, Mineral, Ohio, Pendleton, Pocahontas, Preston, Randolph

Seasonal Range. — 31 May to 16 Sept.

WV Hosts. — *Juniperus chinensis*, *J. virginiana*

*\*Dichroscytus repletus* (Heidemann)

Distribution. — Grant, Greenbrier, Hampshire, Jefferson, Kanawha, Mineral, Monongalia, Morgan, Ohio, Preston, Randolph, Tucker

Seasonal Range. — 29 May to 16 Sept.

WV Hosts. — *Juniperus chinensis*, *J. virginiana*, *Thuja occidentalis*

*Dichroscytus suspectus* Reuter

Distribution. — Hampshire, Preston

Seasonal Range. — 31 May to 9 June

WV Hosts. — *Pinus sylvestris*, *P. virginiana*

*Garganus fusiformis* (Say)

Distribution. — Berkeley, Lewis, Monongalia, Preston, Summers, Tucker

Seasonal Range. — 24 June to 12 Oct.

*Lygidea mendax* Reuter

Distribution. — Preston

Seasonal Range. — 25 June

*Lygidea obscura* Reuter

Distribution. — Tucker

Seasonal Range. — 25 June

WV Host. — *Salix* sp.

*Lygidea salicis* Knight

Distribution. — Upshur

Seasonal Range. — 18 July

WV Host. — *Salix* sp.

*Lygidea viburni* Knight

Distribution. — Tucker

Seasonal Range. — 26 June

WV Host. — *Viburnum* sp.

*Lygocoris alni* (Knight)

Distribution. — Pocahontas

Seasonal Range. — 30 July

WV Host. — *Alnus rugosa*

*Lygocoris atrinotatus* (Knight)

Distribution. — Hancock, Monongalia, Nicholas, Pendleton

Seasonal Range. — 25 June to 16 July

WV Host. — *Hydrangea arborescens*

*\*Lygocoris belfragii* (Reuter)

Distribution. — Preston, Tucker

Seasonal Range. — 25 June to 16 Aug.

*Lygocoris caryae* (Knight)

Distribution. — Berkeley, Mineral, Ritchie

Seasonal Range. — 14 May to 10 June

WV Hosts. — *Carya cordiformis*, *C. ovata*

*Lygocoris communis* (Knight)

Distribution. — Pendleton, Pocahontas, Preston, Tucker, Upshur  
 Seasonal Range. — 9 June to 11 Aug.  
 WV Hosts. — *Cornus racemosa*, *Ilex ambigua*, *Salix humilis*

*Lygocoris fagi* Knight

Distribution. — Greenbrier, Kanawha, Nicholas, Preston, Tucker  
 Seasonal Range. — 23 June to 23 Aug.

WV host. — *Fagus grandifolia*

*Lygocoris geneseensis* (Knight)

Distribution. — Mineral, Preston  
 Seasonal Range. — 31 May to 11 Aug.

WV Host. — *Quercus alba*

*Lygocoris hirticulus* (Van Duzee)

Distribution. — Kanawha, Nicholas, Pocahontas, Preston, Tucker, Wetzel

Seasonal Range. — 17 June to 16 Aug.

WV Hosts. — *Acer saccharinum*, *Betula* sp., *Fagus grandifolia*, *Gleditsia triacanthos*, *Hamamelis virginiana*

*\*Lygocoris laureae* (Knight)

Distribution. — Greenbrier, Preston, Tucker

Seasonal Range. — 4 June to 24 Aug.

WV Hosts. — *Kalmia latifolia*, *Rhododendron calendulaceum*, *R. maximum*

*Lygocoris nyssae* (Knight)

Distribution. — Kanawha

Seasonal Range. — 11 June

*Lygocoris omnivagus* (Knight)

Distribution. — Berkeley, Harrison, McDowell, Pocahontas, Preston, Tucker

Seasonal Range. — 2 June to 11 Aug.

WV Hosts. — *Castanea pumila*, *Fagus grandifolia*, *Quercus alba*, *Q. rubra*

*\*Lygocoris pabulinus* (L.)

Distribution. — Grant, Greenbrier, Kanawha, McDowell, Mineral, Pendleton, Preston, Randolph, Tyler

Seasonal Range. — 18 May to 16 Sept.

WV Host. — *Impatiens* sp.

*Lygocoris quercaldae* (Knight)

Distribution. — Berkeley, Hampshire, Jefferson

Seasonal Range. — 17-31 May

WV Host. — *Quercus alba*

*Lygocoris tiliae* (Knight)

Distribution. — Hampshire, McDowell, Pocahontas, Preston  
 Seasonal Range. — 31 May to 11 Aug.

*Lygocoris tinctus* (Knight)

Distribution. — Berkeley

Seasonal Range. — 31 May

WV Host. — *Gleditsia triacanthos*

*Lygocoris viburni* (Knight)

Distribution. — Greenbrier, Tucker  
 Seasonal Range. — 25 June to 17 July

WV Host. — *Viburnum cassinoides*

*Lygocoris vitticollis* (Reuter)

Distribution. — Berkeley, Pocahontas, Preston, Tucker

Seasonal Range. — 2 June to 15 July

WV Host. — *Acer saccharinum*

*Lygus lineolaris* (Palisot de Beauvois)

Distribution. — 29 counties; undoubtedly occurs statewide  
 Seasonal Range. — 4 Apr. to 10 Sept.

WV Host. — *Solidago* sp.

*Lygus nubilus* Van Duzee

Distribution. — Kanawha

Seasonal Range. — 25 Sept.

WV Host. — *Clematis virginiana*

*Lygus plagiatus* Uhler

Distribution. — Mingo, Preston, Summers, Wyoming  
Seasonal Range. — 20 July to 18 Aug.

*Lygus rubroclarus* Knight

Distribution. — Berkeley, Braxton, Mingo, Pocahontas, Randolph, Summers, Tucker  
Seasonal Range. — 14 May to 24 Oct.

WV Hosts. — *Aster* sp., *Hieracium pratense*, *Solidago* sp.

*Lygus vanduzeei* Knight

Distribution. — Boone, Braxton, Fayette, Hardy, Lincoln, Pendleton, Raleigh, Tucker  
Seasonal Range. — 27 Apr. to 8 Sept.

WV Hosts. — *Achillea millefolium*, *Solidago* sp.

*Metriorrhynchomiris dislocatus* (Say)

Distribution. — 18 counties; probably occurs statewide  
Seasonal Range. — 28 May to 19 July

WV Host. — *Trifolium* sp.

*Metriorrhynchomiris fallax* (Reuter)

Distribution. — Hampshire  
Seasonal Range. — 4 June

*Neocapsus cuneatus* (Distant)

Distribution. — Jefferson  
Seasonal Range. — 17 May  
WV Host. — *Quercus alba*

*Neurocolpus jessiae* Knight

Distribution. — Marshall, Monongalia, Summers, Tucker  
Seasonal Range. — 24 June to 21 Aug.  
WV Host. — *Sambucus canadensis*

*Neurocolpus nubilus* (Say)

Distribution. — Jefferson, Monongalia, Nicholas, Pleasants, Preston, Wood  
Seasonal Range. — 1 June to 5 Oct.  
WV Host. — *Rhus glabra*, *Rubus allegheniensis*

*Neurocolpus* n. sp.

Distribution. — Tucker  
Seasonal Range. — 17 June to 12 Aug.

WV Host. — *Viburnum cassinoides*

*Orthops scutellatus* (Uhler)

Distribution. — Jefferson, Tucker  
Seasonal Range. — 1 June to 2 Aug.  
WV Hosts. — *Cicuta maculata*, *Pastinaca sativa*, *Thaspium trifoliatum*

*\*Phytocoris americanus* Carvalho

Distribution. — Grant, Morgan, Nicholas, Tucker  
Seasonal Range. — 24 June to 16 Aug.

WV Host. — *Tsuga canadensis*

*Phytocoris brevisculus* Reuter

Distribution. — Kanawha  
Seasonal Range. — 17 June

*Phytocoris buenoi* Knight

Distribution. — Jefferson, Mercer, Pocahontas, Preston  
Seasonal Range. — 25 June to 11 Aug.

WV Hosts. — *Picea abies*, *P. glauca*, *P. rubens*

*Phytocoris canadensis* Van Duzee

Distribution. — Greenbrier, Jefferson, Lincoln, Tucker, Upshur  
Seasonal Range. — 16 July to 16 Aug.

WV Hosts. — *Acer pseudoplatanus*, *Alnus* sp., *Cornus* sp., *Crataegus* sp., *Hamamelis virginiana*, *Salix* sp.

*Phytocoris confluens* Reuter

Distribution. — Berkeley, Greenbrier, Kanawha, Monongalia, Wood

Seasonal Range. — 23 June to 20 Oct.

WV Hosts. — *Carya* sp., *Castanea mollissima*

*Phytocoris conspersipes* Reuter

Distribution. — Berkeley, Braxton, Clay, Greenbrier, Jackson, Monongalia, Morgan, Pleasants, Wood

Seasonal Range. — 4 July to 17 Sept.

WV Hosts. — *Pinus rigida*, *P. virginiana*

*Phytocoris conspurcatus* Knight

Distribution. — Monongalia

Seasonal Range. — 1 Sept.

*Phytocoris diversus* Knight

Distribution. — Berkeley, Greenbrier, Hancock, Preston, Raleigh

Seasonal Range. — 7 July to 17 Sept.

WV Host. — *Pinus strobus*

*Phytocoris dreisbachi* Knight

Distribution. — Berkeley

Seasonal Range. — 26 May

*Phytocoris erectus* Van Duzee

Distribution. — Hancock, Marion, Pocahontas, Preston

Seasonal Range. — 30 July to 22 Aug.

WV Hosts. — *Alnus rugosa*, *Catalpa* sp., *Ilex ambigua*, *Malus* sp.

*Phytocoris fenestratus* Reuter

Distribution. — Berkeley, Jefferson, Kanawha

Seasonal Range. — 26-29 May

WV Host. — *Pinus virginiana*

*Phytocoris fulvus* Knight

Distribution. — Preston

Seasonal Range. — 13 Aug.

*Phytocoris husseyi* Knight

Distribution. — Morgan, Preston

Seasonal Range. — 11 Aug. to 1 Sept.

WV Host. — *Viburnum* sp.

*Phytocoris infuscatus* Reuter

Distribution. — Kanawha

Seasonal Range. — 23 June

WV Hosts. — *Carya* spp.

*Phytocoris junceus* Knight

Distribution. — Pocahontas, Preston, Randolph, Tucker

Seasonal Range. — 24 June to 13 Aug.

*Phytocoris junipericola* Knight

Distribution. — Berkeley, Greenbrier

Seasonal Range. — 16 July

WV Host. — *Juniperus virginiana*

*Phytocoris minutulus* Reuter

Distribution. — Berkeley

Seasonal Range. — 16-20 July

WV Host. — *Vitis* sp.

*Phytocoris mundus* Reuter

Distribution. — Greenbrier

Seasonal Range. — 16 July

WV Host. — *Pinus sylvestris*

*Phytocoris neglectus* Knight

Distribution. — Berkeley, Fayette, Greenbrier, Jefferson, Monongalia, Wood

Seasonal Range. — 15 July to 22 Sept.

*Phytocoris obtectus* Knight

Distribution. — Preston

Seasonal Range. — 11 Aug.

WV Host. — *Quercus velutina*

*Phytocoris onustus* Van Duzee

Distribution. — Tucker

Seasonal Range. — 12 Aug.

*Phytocoris pinicola* Knight

Distribution. — Pleasants

Seasonal Range. — 20 Aug.

WV Host. — *Pinus virginiana*

*Phytocoris puella* Reuter

Distribution. — Kanawha, Preston, Ritchie

Seasonal Range. — 11 Aug. to 4 Sept.

WV Hosts. — *Quercus alba*, *Q. palustris*

*Phytocoris purvus* Knight

Distribution. — Berkeley, Kanawha

Seasonal Range. — 27 May to 28 June

*Phytocoris salicis* Knight

Distribution. — Berkeley, Kanawha, Nicholas, Pocahontas, Preston, Tucker

Seasonal Range. — 14 June to 11 Aug.

WV Hosts. — *Alnus rugosa*, *Cornus* sp., *Crataegus* sp., *Tilia americana*

*Phytocoris spicatus* Knight

Distribution. — Berkeley, Ritchie

Seasonal Range. — 23 June to 22 Sept.

*Phytocoris tibialis* Reuter

Distribution. — Preston, Tucker, Wood

Seasonal Range. — 11 Aug. to Oct.

*Phytocoris uniformis* Knight

Distribution. — Berkeley, Grant

Seasonal Range. — 4-17 July

WV Host. — *Pinus virginiana*

*Phytocoris venustus* Knight

Distribution. — Kanawha, Monongalia, Tucker Wood

Seasonal Range. — 23 June to 20 Sept.

WV Host. — *Carya* sp.

*\*Pinalitus approximatus* (Stål)

Distribution. — Recorded from the state by Carvalho (1959)

*Platylagus luridus* Reuter

Distribution. — Tucker

Seasonal Range. — 26 June

WV Host. — *Pinus pungens*

*Poecilocapsus lineatus* (F.)

Distribution. — 18 counties; probably occurs statewide

Seasonal Range. — 31 May to 2 Aug.

WV Hosts. — numerous species; for records, see Wheeler and Miller (1981)

*Polymerus basalis* (Reuter)

Distribution. — Berkeley, Hardy, Jefferson, Marion, Mason, Mineral, Monongalia, Wood

Seasonal Range. — 27 May to 28 Aug.

WV Host. — *Chrysanthemum leucanthemum*

*Polymerus fulvipes* Knight

Distribution. — Braxton, Lincoln

Seasonal Range. — 7-27 June

*Polymerus proximus* Knight

Distribution. — Mineral

Seasonal Range. — 31 May

WV Host. — *Galium aparine*

*Polymerus punctipes* Knight

Distribution. — Braxton

Seasonal Range. — 27 May

*Polymerus venaticus* (Uhler)

Distribution. — Braxton, Grant, Monongalia, Summers, Tucker

Seasonal Range. — 1 June to 12 Aug.

WV Host. — *Solidago* sp.

*Polymerus wheeleri* Henry

Distribution. — Grant

Seasonal Range. — 29 May to 4 June

WV Host. — *Phlox subulata*

*\*Stenotus binotatus* (F.)

Distribution. — 16 counties; probably occurs statewide

Seasonal Range. — 30 May to 18 July

WV Hosts. — *Avena sativa*, grasses

*Taedia casta* (McAtee)

Distribution. — Ritchie

Seasonal Range. — 15 July

WV Host. — *Parthenocissus quinquefolia*

*Taedia colon* (Say)

Distribution. — Preston

Seasonal Range. — 18 Aug.

*Taedia gleditsiae* (Knight)

Distribution. — Berkeley

Seasonal Range. — 31 May

WV Host. — *Gleditsia triacanthos**\*Taedia heidemanni* (Reuter)Distribution. — Grant, Monongalia,  
Preston, TuckerSeasonal Range. — 17 July to 22  
Aug.WV Host. — *Hypericum densi-  
florum**Taedia multesignata* (Reuter)

Distribution. — Kanawha

Seasonal Range. — 23 June

*Taedia scrupea* (Say)

Distribution. — Berkeley, Wyoming

Seasonal Range. — 4-18 July

*Tropidosteptes amoenus* ReuterDistribution. — Marshall, Monon-  
galia, Ritchie

Seasonal Range. — 11 July to 3 Sept.

WV Host. — *Fraxinus* sp.*Tropidosteptes cardinalis* UhlerDistribution. — Berkeley, Monon-  
galia

Seasonal Range. — 31 May to 7 June

WV Host. — *Fraxinus americana**Tropidosteptes geminus* (Say)Distribution. — Hancock, Monon-  
galia, SummersSeasonal Range. — 25 May to 25  
JuneWV Host. — *Fraxinus americana**Tropidosteptes palmeri* (Reuter)

Distribution. — Berkeley

Seasonal Range. — 2 June

*Tropidosteptes pubescens* (Knight)

Distribution. — Nicholas

Seasonal Range. — 24 June

WV Host. — *Fraxinus americana*

## Tribe Stenodemini

*\*Collaria milleurii* ProvancherDistribution. — Grant, Monongalia,  
Preston, TuckerSeasonal Range. — 25 June to 12  
Aug.WV Host. — *Panicum* sp.*Collaria oculata* (Reuter)Distribution. — Boone, Fayette,  
Grant, Jefferson, Kanawha,  
Monongalia, Preston, WayneSeasonal Range. — 14 June to 6  
Sept.WV Host. — *Panicum* sp.*Leptopterna dolabrata* (L.)Distribution. — 23 counties; prob-  
ably occurs statewide

Seasonal Range. — 9 May to 5 Aug.

WV Hosts. — grasses

*Megaloceroea recticornis* (Geoffroy)Distribution. — Berkeley, Lewis,  
Morgan, Pocahontas, Tucker  
Seasonal Range. — 31 May to 17  
July

WV Hosts. — grasses

*Stenodema trispinosa* ReuterDistribution. — Clay, Fayette, Kana-  
wha, Monongalia, Morgan, Pres-  
ton, Tucker, WoodSeasonal Range. — 12 May to 20  
Aug.

WV Hosts. — grasses

*Stenodema vicina* (Provancher)

Distribution. — Greenbrier, Monongalia, Morgan, Pendleton, Pocahontas, Preston, Randolph, Tucker

Seasonal Range. — 8 Apr. to 24 Sept.

WV Hosts. — grasses

*Trigonotylus coelestialium* (Kirkaldy)

Distribution. — 13 counties; probably occurs statewide

Seasonal Range. — 29 May to 17 Aug.

WV Hosts. — *Poa pratensis*, other grasses

## Tribe Herdoniini

*Paraxenetus guttulus* (Uhler)

Distribution. — Greenbrier, Jefferson, Monongalia

Seasonal Range. — 16 July to 23 Aug.

WV Hosts. — *Acer pseudoplatanus*, *Staphylea trifolia*, *Viburnum recognitum*

## SUBFAMILY BRYOCORINAE

## Tribe Eccritotarsini

*Monalocoris americanus* Wagner & Slater

Distribution. — Grant, Jefferson, Morgan, Preston, Tucker

Seasonal Range. — 26 May to 20 Aug.

WV Host. — *Dennstaedtia punctilobula*

*Sixeonotus tenebrosus* (Distant)

Distribution. — Berkeley

Seasonal Range. — 2 Sept.

WV Host. — *Nasturtium officinale*

## SUBFAMILY DICYPHINAE

*Dicyphus agilis* (Uhler)

Distribution. — Preston, Randolph, Tucker

Seasonal Range. — 26 June to 9 Aug.

WV Host. — *Rubus odoratus*

Remarks. — This is the species often referred to as *D. cucurbitaceus* (Spinola), which is Neotropical in distribution (Kelton 1980b).

*Dicyphus famelicus* (Uhler)

Distribution. — Pendleton, Tucker

Seasonal Range. — 9-26 June

WV Host. — *Rubus odoratus*

*Dicyphus rhododendri* Dolling

Distribution. — Greenbrier, Pendleton, Tucker

Seasonal Range. — 26 June to 15 July

WV Hosts. — *Rhododendron maximum*, *R. periclymenoides*

*Macrolophus tenuicornis* Blatchley

Distribution. — Pocahontas, Preston

Seasonal Range. — 24 June to 23 Aug.

WV Host. — *Dennstaedtia punctilobula*

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## APPENDIX 1. Host plants of West Virginia Miridae.

Scientific name	Common name
<i>Acer pseudoplatanus</i> L.	sycamore maple
<i>A. saccharinum</i> L.	silver maple
<i>Achillea millefolium</i> L.	yarrow
<i>Aesculus</i> sp.	buckeye
<i>Allium</i> sp.	garlic, onion
<i>Alnus</i> sp.	alder
<i>A. rugosa</i> (DuRoi) Spreng.	speckled alder
<i>A. serrulata</i> (Ait.) Willd.	hazel alder
<i>Ambrosia trifida</i> L.	giant ragweed
<i>Antennaria</i> spp.	pussy-toes
<i>Aster</i> sp.	aster
<i>Avena sativa</i> L.	oats
<i>Betula</i> sp.	birch
<i>B. nigra</i> L.	river birch
<i>B. papyrifera</i> Marsh.	paper birch
<i>Carduus acanthoides</i> L.	plumeless thistle
<i>Carex rostrata</i> Stokes	sedge
<i>Carpinus carolinianum</i> Walt.	American hornbeam
<i>Carya</i> spp.	hickory
<i>C. cordiformis</i> (Wangenh.) K. Koch	bitternut hickory
<i>C. illinoensis</i> (Wangenh.) K. Koch	pecan
<i>C. ovata</i> (Mill.) K. Koch	shagbark hickory
<i>Castanea mollissima</i> Bl.	Chinese chestnut
<i>C. pumila</i> (L.) Mill.	Allegheny chinkapin
<i>Catalpa</i> sp.	catalpa
<i>Celtis occidentalis</i> L.	hackberry
<i>Chrysanthemum leucanthemum</i> L.	oxeye daisy
<i>Cicuta maculata</i> L.	spotted cowbane, water hemlock
<i>Clematis virginiana</i> L.	virgin's bower, woodbine
<i>Cornus</i> sp.	dogwood

Scientific name	Common name
<i>C. amomum</i> Mill.	silky dogwood
<i>C. florida</i> L.	flowering dogwood
<i>C. racemosa</i> Lam.	panicked dogwood
<i>C. sericea</i> L. (= <i>stolonifera</i> Michx.)	red-osier dogwood
<i>Coronilla varia</i> L.	crownvetch
<i>Cotoneaster</i> sp.	cotoneaster
<i>Crataegus</i> spp.	hawthorn
<i>C. punctata</i> Jacq.	dotted hawthorn
<i>Dennstaedtia punctilobula</i> (Michx.) Moore	hayscented fern
<i>Echium vulgare</i> L.	blueweed
<i>Euphorbia maculata</i> L. (= <i>supina</i> Raf.)	prostrate spurge
<i>Fagus grandifolia</i> Ehrh.	American beech
<i>Fraxinus</i> sp.	ash
<i>F. americana</i> L.	white ash
<i>Galium aparine</i> L.	catchweed bedstraw
<i>G. mollugo</i> L.	smooth bedstraw
<i>Gleditsia triacanthos</i> L.	honeylocust
<i>Glycine max</i> (L.) Merr.	soybean
<i>Hamamelis virginiana</i> L.	witch-hazel
<i>Helianthus</i> sp.	sunflower
<i>Hieracium pratense</i> Tausch	yellow hawkweed
<i>Hordeum vulgare</i> L.	barley
<i>Hydrangea arborescens</i> L.	smooth hydrangea
<i>Hypericum densiflorum</i> Pursh	glade St. John's-wort
<i>Ilex ambigua</i> (Michx.) Torr. (= <i>montana</i> Torr. & Gray)	mountain holly
<i>Impatiens</i> sp.	jewelweed, snapweed
<i>Juglans nigra</i> L.	black walnut
<i>Juniperus chinensis</i> L.	Chinese juniper
<i>J. horizontalis</i> Moenchh.	creeping juniper
<i>J. virginiana</i> L.	eastern red-cedar
<i>Kalmia latifolia</i> L.	mountain laurel
<i>Larix</i> sp.	larch
<i>Malus</i> sp.	crabapple
<i>Medicago sativa</i> L.	alfalfa
<i>Nasturtium officinale</i> R. Br.	watercress
<i>Oenothera biennis</i> L.	common evening-primrose
<i>Panicum</i> sp.	panicgrass
<i>Parthenocissus quinquefolia</i> (L.) Planch.	Virginia-creeper
<i>Pastinaca sativa</i> L.	wild parsnip
<i>Phlox</i> sp.	phlox
<i>P. subulata</i> L.	moss pink
<i>Physocarpus opulifolius</i> (L.) Maxim.	ninebark

Scientific name	Common name
<i>Picea abies</i> (L.) Karst.	Norway spruce
<i>P. glauca</i> (Moench.) Voss	white spruce
<i>P. rubens</i> Sarg.	red spruce
<i>Pinus mugo</i> Turra	Swiss mountain pine
<i>P. nigra</i> Arnold	Austrian pine
<i>P. pungens</i> Lamb.	table mountain pine
<i>P. rigida</i> Mill.	pitch pine
<i>P. strobus</i> L.	eastern white pine
<i>P. sylvestris</i> L.	Scotch pine
<i>P. virginiana</i> Mill.	Virginia pine
<i>Platanus occidentalis</i> L.	American sycamore
<i>Poa pratensis</i> L.	Kentucky bluegrass
<i>Populus tremuloides</i> Michx.	quaking aspen
<i>Potentilla recta</i> L.	upright cinquefoil
<i>Pseudotsuga menziesii</i> (Mirbel) Franco	Douglas-fir
<i>Quercus alba</i> L.	white oak
<i>Q. coccinea</i> Muenchh.	scarlet oak
<i>Q. ilicifolia</i> Wangenh.	scrub oak
<i>Q. palustris</i> Muenchh.	pin oak
<i>Q. phellos</i> L.	willow oak
<i>Q. prinus</i> L.	chestnut oak
<i>Q. rubra</i> L.	northern red oak
<i>Q. stellata</i> Wangenh.	post oak
<i>Q. velutina</i> Lam.	black oak
<i>Ranunculus</i> spp.	buttercup
<i>Rhododendron</i> sp.	azalea
<i>R. calendulaceum</i> (Michx.) Torr.	flame azalea
<i>R. maximum</i> L.	rosebay rhododendron
<i>R. periclymenoides</i> (Michx.) Shinn. (= <i>nudiflorum</i> (L.) Torr.)	pinxter flower
<i>Rhus glabra</i> L.	smooth sumac
<i>Robinia pseudoacacia</i> L.	black locust
<i>Rosa</i> sp.	wild rose
<i>Rubus allegheniensis</i> Porter	Allegheny blackberry
<i>R. odoratus</i> L.	purple-flowering raspberry
<i>Salix</i> spp.	willow
<i>Salix humilis</i> Marsh.	gray willow
<i>S. nigra</i> Marsh.	black willow
<i>Sambucus canadensis</i> L.	American elderberry
<i>Solidago</i> spp.	goldenrod
<i>Spiraea alba</i> Du Roi	meadowsweet, pipstem
<i>Staphylea trifolia</i> L.	American bladdernut
<i>Thalictrum polygamum</i> Muhl.	tall meadowrue

Scientific name	Common name
<i>Thaspium trifoliatum</i> (L.) Gray	woodland meadow-parsnip
<i>Thuja occidentalis</i> L.	arbor-vitae
<i>Tilia americana</i> L.	American basswood
<i>Trifolium</i> sp.	clover
<i>Tsuga canadensis</i> (L.) Carr.	eastern hemlock
<i>Ulmus americana</i> L.	American elm
<i>U. rubra</i> Muhl.	slippery elm
<i>Verbascum thapsus</i> L.	mullein
<i>Viburnum</i> sp.	viburnum
<i>V. cassinoides</i> L.	wild raisin, swamp haw
<i>V. recognitum</i> Fernald	smooth arrowwood