

# BUGS OF THE FAMILY MIRIDAE OF THE DISTRICT OF COLUMBIA AND VICINITY

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The Miridae, formerly known as Capsidae, have commonly been called plant-bugs, but it is now known that numerous species among them are predaceous. They are more numerous in species than any other family of Heteroptera and 200 species (counting a single variety to each) and 23 additional varieties have been collected within a 20-25 mile radius of Washington, D. C. This result may be compared with the list of 296 species and 53 additional varieties from a much larger area, the entire State of New York.<sup>1</sup> The District of Columbia list contains 57 species that are not represented in the New York catalogue, and the latter has 153 species that are not in the former. There are 144 species common to the two lists.

For the benefit of those interested in the fauna of Plummer Island, Md., it may be said that 88 species and 8 additional varieties of Miridae have been collected on the island, and 43 other species and 7 varieties in the Great Falls-Little Falls section of the Potomac River valley. When not made clear by the wording of the text, these features of local distribution are indicated by the abbreviations P. I. and V. P. I.

The list includes records of all available specimens in the collections of the United States National Museum, of the United States Biological Survey, the private collections of the authors, and the Otto Heidemann collection in Cornell University. Records from the collection of the University of Helsingfors where there is much material sent to Dr. O. M. Reuter by Heidemann have been transcribed for us by Dr. Hakan Lindberg to whom we are greatly in-

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<sup>1</sup> Mem. 101, Cornell Agr. Exp. Sta., 1928, pp. 110-134.

debted indeed for this assistance. Names of collectors in the following list are given with initials, except in the case of the six most frequently mentioned. These are: H. S. Barber, Otto Heidemann, H. H. Knight, W. L. McAtee, Theodore Pergande, and E. A. Schwarz.

### Subfamily PHYLINAE

#### Genus STHENARUS Fieber

##### STHENARUS MCATEEI Knight

Odenton, Md., July 12, 1914, July 29, 1917, on foliage of wild grape, McAtee.

#### Genus CHLAMYDATUS Curtis

##### CHLAMYDATUS SUAVIS Reuter

Washington, D. C., August 27, 28, September 1, Heidemann; July 25, August 6, 26, 1926, Knight; Beltsville, Md., August 14, 1914, McAtee.

##### CHLAMYDATUS ASSOCIATUS Uhler

Beltsville, Md., July 3, 1926, McAtee.

#### Genus LEUCOPOECILA Reuter

##### LEUCOPOECILA ALBOFASCIATA Reuter

Washington, D. C., June 11, November 11, 1886, Pergande; September 13, 1913, McAtee; Arlington Farm, Va., October, 1921, P. L. Ricker, abundant and destructive at this time; Virginia, October 5, Pergande.

#### Genus PLAGIOGNATHUS Fieber

##### PLAGIOGNATHUS POLITUS var. POLITUS Uhler

Generally distributed and common; season May 18 to October 11; usually on foliage of shrubs and weeds, including *Ambrosia trifida*, but has been taken on flowers of *Ceanothus*, *Yucca*, *Leonurus cardiaca*, and *Cornus amomum*. P. I.

##### PLAGIOGNATHUS POLITUS var. FLAVEOLUS Knight

Fairly common, apparently a fall form, September 4–November 3; has been taken on flowers of *Bidens trichosperma*. P. I.

##### PLAGIOGNATHUS NIGRONITENS Knight

Vienna, Va., July 11, 25, 1926, Knight; Beltsville, Md., July 3, 1926, Knight.

##### PLAGIOGNATHUS TINCTUS Knight

Plummer Island, Md., June 7, 1914, McAtee; Eastern Branch near Bennings, D. C., June 7, 1914; Four-mile Run, Va., May 31, 1914, A. Wetmore; Glencarlyn to mouth of Four-mile Run, Va., June 17, 1914, McAtee.

**PLAGIOGNATHUS FLAVOSCUTELLATUS Knight**

Plummer Island, Md., June 7, 1914, McAtee; July 20, 1926, on willow, Knight.

**PLAGIOGNATHUS ANNULATUS var. CUNEATUS Knight**

Great Falls, Md., June 18, Barber; Plummer Island, Md., June 6, 1905, August 19, 1902, Schwarz and Barber; June 17, 1913, J. D. Hood.

**PLAGIOGNATHUS CARINATUS Knight**

Forest Glen, Md., June 2, 1913, Heideman; Great Falls, Md., May 23, 1915, McAtee; Beltsville, Md., July 3, 1926, on persimmon, Knight.

**PLAGIOGNATHUS SERICEUS Heidemann**

Abundant on flowers of various species of *Tilia* in the parks and streets of Washington, dates May 27 to June 20; has been taken also at Beltsville, Md., June 9, 1915, and at Odenton, Md., June 20, 1913, McAtee.

**PLAGIOGNATHUS NIGROLINEATUS Knight**

Dyke, Va., May 28, 1913, on *Rhus glabra*, McAtee, probably attracted only to flowers; known to breed on *Quercus* in other localities.

**PLAGIOGNATHUS ATRICORNIS Knight**

Glen Echo, Md., July 10; Bladensburg, Md., July 23, 1890, "on black birch"; Forest Glen, Md., July 6, 1913, Heidemann.

**PLAGIOGNATHUS ALBIFACIES Knight**

Fairly common; dates of collection range from July 6 to September 15. P. I.

**PLAGIOGNATHUS BLATCHLEYI var. NUBILUS Knight**

Washington, D. C., June 12, August 7, 1884, September 5, 1890, October 2, 1889; Great Falls, Va., August 10, 1906, Heidemann.

**PLAGIOGNATHUS ALBATUS var. ALBATUS Van Duzee**

Fairly common and well distributed; has been collected as early as May 2 and as late as July 12. P. I.

**PLAGIOGNATHUS ALBATUS var. VITTISCUTIS Knight**

Washington, D. C., July 15, 1894, Heidemann; Branchville to Beltsville, Md., June 4, 1914, E. R. Kalmbach; Great Falls, Md., May 23, 1915; Glencarlynn to mouth of Four-mile Run, Va., June 17, 1914, McAtee.

**PLAGIOGNATHUS SIMILIS var. SIMILIS Knight**

Glencarlyn to mouth of Four-mile Run, Va., June 17, 1914, McAtee;  
Plummer Island, Md., July 20, 1926, Knight.

**PLAGIOGNATHUS SIMILIS var. FURVUS Knight**

Plummer Island, Md., July 20, 1926, Knight.

**PLAGIOGNATHUS ROSICOLA Knight**

Great Falls, Md., July 5, 1905; Plummer Island, Md., on wild  
roses, June 30, 1905, Heidemann.

**PLAGIOGNATHUS FULVIDUS Knight**

Odenton, Md., July 4, 1913, July 12, 1914, McAtee.

**PLAGIOGNATHUS DELICATUS Uhler**

The food plant of this species is honey locust (*Gleditsia triacanthos*)  
upon which it is sometimes common; adults have been collected from  
May 13 to June 21.

**PLAGIOGNATHUS CORNICOLA Knight**

Mount Vernon, Va., June 27, 1915, on *Cornum amomum*; Belts-  
ville, Md., June 23, 1918, McAtee.

**PLAGIOGNATHUS PUNCTATIPES Knight**

Glencarlyn, Va., May 30, 1906, D. H. Clemons; Washington, D. C.,  
July 17, 1907, McAtee.

**PLAGIOGNATHUS DISPAR Knight**

Forest Glen, Md., June 21, 1914, Heidemann; Glen Echo, Md.,  
June 10, 1923, J. R. Malloch.

**PLAGIOGNATHUS CARNEOLUS Knight**

Odenton, Md., May 5, 1918, McAtee; Falls Church, Va., May 13,  
1901, S. A. Rohwer.

**Genus MICROPHYLELLUS Reuter****MICROPHYLELLUS MODESTUS Reuter**

Fairly common May 7 to June 17; frequent on elm where it has  
been observed preying on *Schizoneura americana*; has been taken on  
hickory also, and on flowers of *Tilia americana*. P. I.

**MICROPHYLELLUS LONGIROSTRIS Knight**

Glen Echo, Md., June 17, 1923, McAtee.

## Genus RHINOCAPSUS Uhler

## RHINOCAPSUS VANDUZEEI Uhler

Rock Creek, D. C., June 24, 1906; Glencarlyn, Va., July 1, 1906, D. H. Clemons; Beltsville, Md., June 14, 1914, June 23, 1918, McAtee.

## Genus CRIOCORIS Fieber

## CRIOCORIS SALIENS Reuter

Maryland near Plummer Island, May 18, 1913, May 24, 1914, June 7, 1914; Branchville to Beltsville, Md., June 4, 1914; Maywood, Va., May 21, 1922, McAtee.

## Genus PSALLUS Fieber

## PSALLUS ANCORIFER Fieber

Fairly common and well distributed; has been collected from May 22 to July 11; breeds on clover.

## PSALLUS MORRISONI Knight

Beltsville, Md., July 4, 1915, McAtee; Glen Echo, Md., July 12, 1922, at light, J. R. Malloch; Scott's Run, Va., August 2, 1914, L. O. Jackson.

## PSALLUS CLAVICORNIS Knight

Washington, D. C., March 3, 1880, Pergande.

## Genus LEPIDOPSALLUS Knight

## LEPIDOPSALLUS CLARICORNIS Knight

Washington, D. C., May 20, June 8, 1905, Heidemann; Little Hunting Creek, Va., May 24, 1914, A. Wetmore.

## LEPIDOPSALLUS RUBIDUS Uhler

Washington, D. C., June 23, 1897, July 6, 1893, Heidemann; Great Falls, Va., July 18, 1926, on willow, Knight.

## LEPIDOPSALLUS OLSENI Knight

Branchville to Beltsville, Md., June 4, 1914; Beltsville, Md., June 15, 1913, McAtee.

## Genus REUTEROSCOPIUS Kirkaldy

## REUTEROSCOPIUS ORNATUS Reuter

Abundant and generally distributed; season June 7 to October 11; usually on ragweed (*Ambrosia*); comes to light. P. I.

## REUTEROSCOPIUS SULPHUREUS Reuter

Hyattsville, Md., September 6, 1914, on *Solanum carolinianum*;  
Beltsville, Md., July 3, 1926, McAtee; Washington, D. C., July 3,  
1926, Knight.

## Genus LOPUS Hahn

## LOPUS DECOLOR Fallen

Rock Creek, D. C., June 17, 1902, Heidemann; Beltsville, Md.,  
July 4, 1912; Odenton, Md., July 12, 1914, McAtee; Vienna, Va.,  
July 11, 1926, Knight.

## Subfamily DICYPHINAE

## Genus HYALIODES Reuter

## HYALIODES VITRIPENNIS var. VITRIPENNIS Say

Common, season June 6 to September 27; predacious, occasionally  
bites man; observed preying on *Dactylopius*, on sycamore, August  
21, 1879; is common on mulberry among *Corythucha pallida*. P. I.

## HYALIODES VITRIPENNIS var. DISCOIDALIS Reuter

Common, with the typical variety; records from June 8 to August  
22. P. I.

## Genus DICYPHUS Fieber

## DICYPHUS AGILIS Uhler

Rosslyn, Va., July 7, Heidemann.

## DICYPHUS MINIMUS Uhler

Washington, D. C., May 15, 1899, June 8, 1898, on tobacco,  
Heidemann.

## DICYPHUS FAMELICUS Uhler

Washington, D. C., June 7, 1885, July 4, 1887, Heidemann.

## Genus MACROLOPHUS Fieber

## MACROLOPHUS BREVICORNIS Knight

Washington, D. C., July 2, 1904, Heidemann.

## MACROLOPHUS SEPARATUS Uhler

Bladensburg, Md., July 7, September 11, 1892; Odenton, Md.,  
July 17, 1906; Washington, D. C., August 5, 1885, Heidemann;  
Glencarlyn, Va., September 14, 1918, McAtee.

## Subfamily BRYOCORINAE

## Genus MONALOCORIS Dahlbom

## MONALOCORIS FILICIS Linnaeus

May be collected on ferns almost anywhere; season for adults as now known is May 4 to August 22. P. I.

## Genus PYCNODERES Guerin

## PYCNODERES DILATATUS Reuter

Common; active season May 20 to October 30; sieved December 14, February 23; collected in flowers of *Pontederia*, September 24; frequent on oak sprouts. P. I.

## PYCNODERES OBSCURATUS Knight

Great Falls, Va., June 30, 1914, A. Wetmore; Glen Echo, Md., summer 1922, J. C. Bridwell.

## Genus SIXEONOTUS Reuter

## SIXEONOTUS INSIGNIS Reuter

Fairly common; adults have been collected from June 6 to August 21; food plants include *Chenopodium album*, *Nabalus albus*, and *Mesadenia atriplicifolia*. P. I.

## SIXEONOTUS TENEBROSUS Distant

Washington, D. C., June 8, 1905, June 15, 1891, August 10, 1887, Heidemann.

## Subfamily CYLAPINAE

## Genus CYLAPUS Say

## CYLAPUS TENUICORNIS Say

Rather commonly collected when its haunts are understood; frequents fallen limbs and trunks especially those having velvety fungus growths; adults have been collected from July 4 to September 25, and nymphs from May 3 to August 11. P. I.

## Genus FULVIUS Stal

## FULVIUS BRUNNEUS Provancher

Fairly common in haunts somewhat similar to those of *Cylapus tenuicornis* but on boards or logs more in contact with the ground. Season July 9 to August 30; comes to light. P. I.

**FULVIUS IMBECILIS** Say

Remarks under the preceding species apply; season July 5 to September 17. P. I.

**Genus PERITROPIS** Uhler**PERITROPIS SALDAEFORMIS** Uhler

Bladensburg, Md., July 20, 28, 1890, nymphs and adults on dry branches of trees, Heidemann.

**Subfamily CLIVINEMINAE****Genus BOTHYNOTUS****BOTHYNOTUS MODESTUS** Wirtner

Maryland near Plummer Island, June 17, 1913, J. D. Hood.

**Subfamily DERAEOCORINAE****Genus EUSTICTUS** Reuter**EUSTICTUS FILICORNIS** Walker

Washington, D. C., July 12, 1890; Bladensburg, Md., July 20, 1890, O. Heidemann.

**EUSTICTUS NECOPINUS** Knight

Stubblefield Fall, Va., July 4, 1918, on hickory, McAtee.

**EUSTICTUS SALICICOLA** Knight

Glen Echo, Md., July 23, 1921, J. R. Malloch.

**Genus EURYCHILOPTERELLA** Reuter**EURYCHILOPTERELLA LURIDULA** Reuter

The original material of this species was collected on trees in the Department of Agriculture grounds, on which the nymphs resembling mealybugs were observed, and from which adults were reared. The dates it has been collected in Washington run from June 12 to July 30; specimens are at hand also from Bladensburg, Md., July 10, 1909, Heidemann; and Glen Echo, Md., July 2, 1922, J. R. Malloch.

**Genus DERAEOCORIS** Kirschbaum**DERAEOCORIS NEBULOSUS** Uhler

Fairly common, active season March 25 to November 8; frequent on alder; collected also on hickory and *Ptelea trifoliata*; under bark of sycamore December 6, under birch bark, February 9; comes to light. P. I.



**DERAEOCORIS POECILUS** McAtee

Fairly common; active season March 8 to August 21; occurs on *Alnus rugosa*; collected under bark of birch, maple, and sycamore in winter. P. I.

**DERAEOCORIS HISTRIO** Reuter

District of Columbia, February 21, 1887, November 24, 1886, Pergande; April 17 (Uhler collection).

**DERAEOCORIS NUBILUS** Knight

Virginia, October 5, Pergande.

**DERAEOCORIS FASCIOLUS** var. **CASTUS** Knight

Rock Creek Park, D. C., June 26, 1921; Glen Echo, Md., June 11, 25, July 16, 1922, J. R. Malloch.

**DERAEOCORIS GRANDIS** Uhler

Several specimens have been taken on Plummer Island, Md., at dates ranging from June 4 to July 8, once at light; there is a record also for Beltsville, Md., June 14, 1914, McAtee.

**DERAEOCORIS APHIDIPHAGUS** Knight

Glen Echo, Md., July 15, 1893 (Uhler collection); Plummer Island, Md., June 15, 1902, Heideman; June 4, 1905; Washington, D. C., July 6, 1907, McAtee; Great Falls, Va., July 18, 1926, Knight; Mount Vernon, Va., June 6, 27, 1915, McAtee; Pergande records it as feeding on *Schizoneura americana*.

**DERAEOCORIS QUERCICOLA** Knight

Washington, D. C., July 2, 1907, Heidemann; June 15, 1925, on *Quercus macrocarpa*; Beltsville, Md., June 23, 1918, on *Quercus alba*, McAtee.

**DERAEOCORIS NITENATUS** Knight

Fairly common; dates of collection range from May 25 to September 2. P. I.

**DERAEOCORIS NIGRITULUS** Knight

Common on *Pinus virginiana*; season May 9 to July 12. V. P. I.

**DERAEOCORIS SAYI** Reuter

Plummers Island, Md., July 8, 1907, Schwarz.

Subfamily **ORTHOTYLINAE**Genus **SEMIUM** Reuter**SEMIUM HIRTUM** Reuter

This little species is seen more often than collected, its agility rendering it difficult to capture, and its delicacy of structure results in

most captures being so damaged as not to be worth preserving; the insect is found on the underside of leaves, or on sand beneath the leaves, of species of *Euphorbia* (*Tithymalopsis*); records for specimens at hand are Washington, D. C., July 20, 1894, 1899, August 12, 15, 20, 22, Heidemann; Falls Church, Va.. N. Banks.

**Genus PARTHENICUS Reuter**

**PARTHENICUS JUNIPERI Heidemann**

Fairly common on red cedar; has been taken also on Virginia pine; season for adults June 8 to October 12. P. I.

**Genus HALTICUS Hahn**

**HALTICUS CITRI Ashmead**

Abundant, season May 9 to October 30. P. I.

**Genus STRONGYLOCORIS Blanchard**

**STRONGYLOCORIS STYGICUS Say**

Common; adults have been collected from May 9 to August 8, and nymphs from May 4 to 18. P. I.

**Genus ILNACORA Reuter**

**ILNACORA MALINA Uhler**

Common; May 30 to July 4. P. I.

**ILNACORA STALII Reuter**

Fairly common on giant ragweed (*Ambrosia trifida*), June 16 to August 16. P. I.

**Genus LOPIDEA Uhler**

**LOPIDEA CONFLUENS Say**

Fairly common, May 24 to September 5. P. I.

**LOPIDEA DAVISI Knight**

Washington, D. C., June, 1916, F. H. Chittenden; near Chevy Chase, Md., July 6, 1913, McAtee; Takoma Park, Md., August 15, 1916, on phlox; Glen Echo, Md., August 22, 1922, McAtee; Glen Echo, Md., July 25, 1926, Knight; Plummer Island, Md., June 24, 1906, McAtee.

**LOPIDEA HEIDEMANNI Knight**

Common, May 18 to August; breeds on elm, yarrow, and phlox; has been collected also on asparagus, black walnut, and Virginia pine. P. I.

## LOPIDEA INCURVA Knight

Maryland near Plummer Island, June 22, 1921, nymphs and adults on honey locust, Barber; Washington, D. C., July 12, 19, 1926, on honey locust, Knight.

## LOPIDEA ROBINIAE Uhler

Abundant on black locust (*Robinia pseudacacia*); adults have been collected from June 7 to August 19, and nymphs from June 8 to July 29; occasionally taken on other plants, including scrub pine, grape, yucca, and wild carrot; comes to light. P. I.

## LOPIDEA MEDIA Say

Common May 12 to July 19; on alder (*Alnus rugosa*); a specimen was found sucking a carabid beetle (*Harpalus*). July 19, 1913, R. C. Shannon. P. I.

## LOPIDEA SAYI Knight

New Alexandria, Va., Plummer Island, Md., July 1907, William Palmer; Plummer Id., Md., June 15, 1902, Heidemann; June 29, 1913, R. C. Shannon; July 7, 21, 1907, A. K. Fisher; July 20, 1926, on hornbeam (*Ostrya virginiana*), Knight.

## LOPIDEA STAPIIYLEAE Knight

Collected on Plummer Island, Md., on numerous dates ranging from June 15 to August 9; also at Scott's Run, Va., on August 2, 1914, McAtee; and at Great Falls, Va., June 27, N. Banks.

## LOPIDEA REUTERI Knight

Glencarlynn, Va., July 25, N. Banks.

## LOPIDEA CAESAR Reuter

Glencarlynn, Va., July 1, 1906, D. H. Clemons.

## LOPIDEA INSTABILIS var. INSTABILIS Reuter

Fairly common, June 23 to August 12; on goldenrod. V. P. I.

## LOPIDEA INSTABILIS var. MARGINALIS Reuter

Glen Echo, Md., July 20, Heidemann; Washington, D. C., June 30 to August 6, 1926, Knight.

## Genus MELANOTRICHUS Reuter

## MELANOTRICHUS FLAVOSPARSUS Sahlberg

Abundant on *Chenopodium* spp; May 23 to September 29; comes to light. V. P. I.

## MELANOTRICHUS CATULUS Van Duzee

Washington, D. C., May 16, 1902, Heidemann.

Genus *ORTHOTYLUS* Fieber*ORTHOTYLUS CHLORIONIS* Say

Abundant on honey locust; April 6 to June 10. V. P. I.

*ORTHOTYLUS SUBMARGINATUS* Say

Washington, D. C., June 20, July 10, 28, Forest Glen, Md., June 13, 1914, Heidemann; Plummer Island, Md., July 11, Barber; Odenton, Md., July 4, 1913, McAtee; Vienna, Va., July 11, 1926, Knight; host black locust (*Robinia pseudacacia*).

*ORTHOTYLUS VIRIDIS* Van Duzee

Fairly common, on *Salix nigra*, June 4 to July 26. P. I.

*ORTHOTYLUS MODESTUS* Van Duzee

Fairly common on *Salix nigra*, June 4 to July 4. P. I.

Genus *DIAPHNIDIA* Uhler*DIAPHNIDIA CAPITATA* Van Duzee

Washington, D. C., June 11, 1886; Rock Creek, D. C., June 17, 1893, Heidemann.

*DIAPHNIDIA PELLUCIDA* Uhler

Fairly numerous; season May 31 to July 20; has been collected on black locust, on white oak, and on bur oak (the latter in a park).

*DIAPHNIDIA HEIDEMANNI* Knight

Collected at Washington, D. C., by Heidemann at dates ranging from May 7 to October 15; and at Henson's Creek, Md., July 4, 1887; Heidemann gave the food plant as ash.

Genus *REUTERIA* Puton*REUTERIA IRRORATA* Say

Common, June 30 to August 20; has been collected on elm, chestnut, and hickory; comes to light. P. I.

Genus *CERATOCAPSUS* Reuter*CERATOCAPSUS MCATEEI* Knight

Odenton, Md., July 12, 1914; Laurel, Md., October 11, 1914, McAtee.

*CERATOCAPSUS MODESTUS* Uhler

Common, July 4 to August 3; occurs on hickory, oak, and chestnut; comes to light. P. I.

**CERATOCAPSUS NIGELLUS Knight**

Odenton, Md., July 12, 1914; Veitch, Va., June 17, 1914, on chestnut, McAtee.

**CERATOCAPSUS RUBRICORNIS Knight**

Washington, D. C., July 12, 1891, Heidemann.

**CERATOCAPSUS FASCIATUS Uhler**

Common on hickory; season as shown by collected specimens, June 30 to August 29.

**CERATOCAPSUS SETOSUS Reuter**

Fairly common, on ferns, April 25 to August 30; comes to light. P. I.

**CERATOCAPSUS PUMILUS Uhler**

Fairly common, May 20 to August 20. P. I.

**CERATOCAPSUS FUSCINUS Knight**

Washington, D. C., May 11, 1905, D. H. Clemons; June 22, 1890, July 10, 1898, Heidemann; June 30, 1919, L. L. Buchanan; Glen Echo, Md., July 10, Heidemann; Plummer Island, Md., July 14, 1915, McAtee.

**CERATOCAPSUS VICINUS Knight**

Odenton, Md., July 12, 1914, July 29, 1917, on chestnut, McAtee.

**CERATOCAPSUS DIGITULUS Knight**

Odenton, Md., July 10, 1918; Great Falls, Va., August 21, 1917, McAtee.

**CERATOCAPSUS BARBATUS Knight**

Frequent; season June 14 to August 8; occurs on Virginia pine. V. P. I.

**CERATOCAPSUS UNIFORMIS Knight**

Washington, D. C., July 30, 1907; Plummer Id., Md., July 19, 1914; August 2, 1914; Odenton, Md., July 12, 1914; Mount Vernon, Va., August 1, 1915, McAtee.

**CERATOCAPSUS COMPLICATUS Knight**

Beltsville, Md., August 14, 1914; Odenton, Md., July 29, 1917, on *Vitis*; Scotts Run to Ball's Hill, Va., August 12, 1917, McAtee.

**CERATOCAPSUS QUADRISPICULUS Knight**

Glen Echo, Md., July 23, 1922, J. R. Malloch.

## Genus ALEPIDIELLA

## ALEPIDIELLA HEIDEMANNI Poppius

Washington, D. C., July 18, 1907, McAtee; July 11, 1924, at light, J. R. Malloch; Glen Echo, Md., July 17, 1926, on *Pinus virginiana*, Knight.

## Genus ALEPIDIA Reuter

## ALEPIDIA GRACILIS var. GRACILIS Uhler

Washington, D. C., July 28, 1880, July 4, 1881, Pergande; June 29, 1897, Heidemann; Plummer Id., Md., July 14, 1915, McAtee.

## ALEPIDIA GRACILIS var. SQUAMOSA Knight

Glen Echo, Md., July 17, 25, 1926; Vienna, Va., July 11, 1926; Knight.

## Genus PILOPHORUS Hahn

## PILOPHORUS DEPICTUS Knight

Washington, D. C., July 12, 1909, Heidemann; Beltsville, Md., June 15, 1915, on *Pinus virginiana*, McAtee.

## PILOPHORUS CRASSIPES Heidemann

Common, on *Pinus virginiana*, June 8 to October 4. P. I.

## PILOPHORUS AMOENUS Uhler

The most common species of the genus, occurs on *Pinus virginiana*, June 8 to August 14. V. P. I.

## PILOPHORUS LAETUS Van Duzee

Common; season of collection June 15 to September 3; occurs on Virginia pine. V. P. I.

## PILOPHORUS JUNIPERI Knight

Washington, D. C., July 8, 1925, July 12, 1926, Knight; Plummer Id., Md., July 14, 1915, McAtee; host red cedar (*Juniperus virginiana*).

## PILOPHORUS WALSHI Uhler

Washington, D. C., July 6, 1897; July 15, on *Prunus pissardii*, Heidemann; Washington, D. C., July 8, 1926, breeding on honey locust (*Gleditsia triacanthos*), Knight; Odenton, Md., July 28, 1917, on hickory; Stubblefield Fall, Va., July 4, 1918, on hickory, McAtee.

## PILOPHORUS BRUNNEUS Poppius

Fairly common. June 4 to August 17, occurs on hickory, willow, and alder. P. I.

Genus **SERICOPHANES** Reuter**SERICOPHANES HEIDEMANNI** Poppius

Plummer Island, Md., April 24, 1921, in trap light, Barber.

Subfamily **MIRINAE**Genus **COLLARIA** Provancher**COLLARIA OCVLATA** Reuter

Common, May 19 to October 14. P. I.

Genus **MIRIS** Fabricius**MIRIS DOLABRATUS** Linnaeus

Common, May 6 to July 7. P. I.

Genus **TRIGONOTYLUS** Fieber**TRIGONOTYLUS RUFICORNIS** Geoffroy

Plummer Island, Md., July 26, 1903, Heidemann.

**TRIGONOTYLUS PULCHER** Reuter

Washington, D. C., September 17, 1889, November 3, 1903, Heidemann.

Genus **STENODEMA** Laporte**STENODEMA TRISPINOSUM** Reuter

Common; adults have been collected from April 14 to October 16, and nymphs from June 8 to October 5; comes to light. P. I.

Genus **ONCEROMETOPUS** Reuter**ONCEROMETOPUS NITENS** Knight

Glen Echo, Md., 1922, J. C. Bridwell.

Subfamily **CAPSINAE**Genus **PLATYTYLELLUS** Reuter**PLATYTYLELLUS NIGRICOLLIS** Reuter

Glen Echo, Md., summer 1922, J. C. Bridwell; Virginia near Plummer Island, Md., July 19, 20, 1913, W. D. Appel; Falls Church, Va., August 31, N. Banks.

**PLATYTYLELLUS RUBROVITTATUS** Stal

Washington, D. C., September, 10, 1889, Heidemann.

*PLATYTYLELLUS INSIGNIS* Say

Frequent; dates of collection range from June 20 to August 5. P. I.

*PLATYTYLELLUS FRATERCULUS* Knight

Plummer Island, Md., July 24, 1903, W. V. Warner; July 14, 1915, McAtee; Jacksons Island, Md., June 22, 1902, Barber; Virginia near the District of Columbia, July 19, Pergande.

*PLATYTYLELLUS CIRCUMCINCTUS* Say

Rock Creek, D. C., June 22, 29, 1890, Heidemann; Difficult Run, Va., July 12, 1906, F. Knab; Great Falls, Va., June 20, N. Banks.

*PLATYTYLELLUS INSITIVUS* var. *INSITIVUS* Say

Frequent; season June 2 to July 14. P. I.

*PLATYTYLELLUS INSITIVUS* var. *ANGUSTICOLLIS* Knight

Plummer Island, Md., June 2, 1912, Schwarz and Barber; Glencarlyn, Va., July 1, 1906, F. Knab.

*PLATYTYLELLUS FRATERNUS* var. *FRATERNUS* Knight

Lakeland, Md., June 25, 1906, F. Knab; Maryland near Plummer Island, June 13, 1914, R. C. Shannon; Maywood, Va., June 16, 1921, McAtee.

*PLATYTYLELLUS FRATERNUS* var. *RUBROMARGINATUS* Knight

Grassymead, Va., June 19, 1906, F. Knab.

*PLATYTYLELLUS FRATERNUS* var. *DISCIFER* Knight

Bladensburg, Md., June 26, 1902, Heidemann; Cabin John Bridge, Md., June 26, 1911, E. Shoemaker.

*PLATYTYLELLUS FRATERNUS* var. *REGALIS* Knight

Washington, D. C., May 4, 1884, Heidemann.

Genus *NEOBORUS* Distant*NEOBORUS AMOENUS* var. *AMOENUS* Reuter

Common on ash; adults collected from May 20 to October 12 and nymphs from May 30 to September 5; comes to light. P. I.

*NEOBORUS AMOENUS* var. *SCUTELLARIS* Reuter

With the typical variety and about as common in its season; dates of collection range from May 21 to June 19. P. I.

*NEOBORUS AMOENUS* var. *SIGNATUS* Reuter

With the typical variety but less frequent; season as shown by specimens at hand May 20 to June 5.



*NEOBORUS RUFUSCULUS* Knight

Falls Church, Va., May 13, 1914, A. Wetmore.

*NEOBORUS VITISUTIS* Knight

Plummer Island, Md., June 7, July 19, 1914; Virginia near Plummer Island, Md., June 17, 1913, McAtee; Great Falls, Va., June 13, 1908, Heidemann.

*NEOBORUS GEMINUS* Say

Plummer Island, Md., June 7, 1914, McAtee.

*NEOBORUS CANADENSIS* Van Duzee

Plummer Island, Md., May 24, 1914, McAtee.

Genus *XENOBORUS* Reuter*XENOBORUS CHIONANTHI* var. *CHIONANTHI* Knight

Has frequently been collected at Plummer Island, Md., on its host the fringe tree at dates ranging from June 6 to August 25; also at Great Falls, Va., June 13, 1908; Heidemann; and at Dunn Loring, Va., August 30, 1916, McAtee.

*XENOBORUS CHIONANTHI* var. *NIGRELLUS* Knight

Plummer Island, Md., July 20, 1926, Knight.

*XENOBORUS NEGLECTUS* Knight

Four-mile Run, Va., May 31, 1914, McAtee.

Genus *COCCOBAPHES* Uhler*COCCOBAPHES SANGUINARIUS* Uhler

Piney Branch, D. C., June 12, 1906; Washington, D. C., June, 1906, D. H. Clemons; Bladensburg, Md., June 23, 1916, R. C. Shannon; Beltsville, Md., June 23, 1918, McAtee.

Genus *LYGUS* Hahn*LYGUS PRATENSIS* var. *OBLINEATUS* Say

The most abundant heteropterous insect of the region; has been collected in the active state in every month of the year and can be obtained in dormant or semidormant condition on Virginia pine, in mullen rosettes, and among dry leaves any time in winter; frequents many kinds of flowers and sometimes becomes destructive to cultivated plants; comes to light; sometimes bites man. P. I.

*LYGUS PRATENSIS* var. *STRIGULATUS* Walker

Generally distributed; has been collected on numerous occasions at dates ranging from April 1 to August 22; found hibernating in mullen rosettes. V. P. I.

**LYGUS VANDUZEEI Knight**

Virginia near Plummer Island, Md., June 2, 1916, flowers of *Spiraea aruncus*, McAtee; known to breed on *Solidago*.

**LYGUS RUBICUNDUS Fallen**

Common, April 19 to November 14; breeds on *Salix*. P. I.

**LYGUS CAMPESTRIS Linnaeus**

Washington, D. C., July 20, 1888, June 24, 1888, on *Daucus carota*, Pergande; June 17, Heidemann; Eastern Branch near Benning, D. C., February 23, 1913, under bark of *Pinus virginiana*, McAtee.

**LYGUS PABULINUS Linnaeus**

Common, May 21 to November 3. P. I.

**LYGUS PLAGIATUS Uhler**

Generally distributed but infrequent; dates of collection range from April 22 to October 30; has been taken on giant ragweed. P. I.

**LYGUS APICALIS Fieber**

Generally distributed but infrequent; season May 4 to October 12. P. I.

**LYGUS (NEOLYGUS) GENESEENSIS Knight**

Washington, D. C., June 4, 1887; Forest Glen, Md., May 23, 30, 1915, Heidemann; May 30, 1914, on white ash; Beltsville, Md., May 14, 1914, May 31, 1920, June 23, 1918, on white oak; Odenton, Md., May 20, 1915; Dyke, Va., May 19, 1918, on white oak, McAtee.

**LYGUS (NEOLYGUS) INCONSPICUUS Knight**

Washington, D. C., June 13, 1890; Marshall Hall, Md., June 13, 1891, Heidemann; Beltsville, Md., June 14, 1914, June 23, 1918; Glencarlyn to mouth of Four-mile Run, Va., June 17, 1914, Scotts Run, Va., July 4, 1916, McAtee.

**LYGUS (NEOLYGUS) CARYAE var. SUBFUSCUS Knight**

Beltsville, Md., May 31, 1920, June 23, 1918, McAtee.

**LYGUS (NEOLYGUS) COMMUNIS Knight**

Four-mile Run, Va., May 31, 1914, McAtee.

**LYGUS (NEOLYGUS) QUERCALBAE Knight**

Beltsville, Md., June 23, 1918; May 31, 1920, McAtee.

**LYGUS (NEOLYGUS) JOHNSONI Knight**

Glencarlyn, Va., May 30, 1906, D. H. Clemons.

LYGUS (NEOLYGUS) CLAVIGENITALIS Knight

Beltsville, Md., July 4, 1915, on *Alnus rugosa*, McAtee.

LYGUS (NEOLYGUS) HIRTICULUS Van Duzee

Branchville to Beltsville, Md., June 4, 1914; Beltsville, Md., June 23, 1918, McAtee.

LYGUS (NEOLYGUS) LAUREAE Knight

Beltsville, Md., June 23, 1918, McAtee.

Genus DICHROOSCYTUS Fieber

DICHROOSCYTUS SUSPECTUS Reuter

Petworth, D. C., May 21, 1905, D. H. Clemons; Washington, D. C., May 22, 1895; Rock Creek, D. C., June 10, Heidemann; Branchville to Beltsville, Md., June 4, 1914; Beltsville, Md., June 15, 1914, McAtee.

DICHROOSCYTUS ELEGANS Heidemann

Generally distributed and apparently fairly numerous; season as so far known runs from May 9 to June 18; occurs on red cedar and Virginia pine. P. I.

DICHROOSCYTUS REPLETUS Heidemann

Collected in the District of Columbia, chiefly on red cedar, at various dates from June 7 to July 25, also at Marshall Hall, Md., June 13, 1891, Heidemann; and Cabin John, Md., June 19, 1915, V. A. Roberts.

Genus POLYMERUS Hahn

POLYMERUS BASALIS var. BASALIS Reuter

Almost as abundant as *Lygus pratensis* var. *oblineatus*; active season, April 3 to October 23; taken from mullen rosettes, Maryland near Plummer Island, January 18, 1914; breeds on ragweed and frequents various flowers; comes to light. V. P. I.

POLYMERUS BASALIS var. FUSCATUS Knight

Localities for this form as so far collected, with one exception, are on the Coastal Plain; dates range from June 15 to October 3; has been taken on evening primrose and ragweed; the Piedmont locality is Glen Echo, Md., summer 1922, J. C. Bridwell.

POLYMERUS VENATICUS Uhler

Has been encountered in small numbers on numerous occasions; dates of collection range from May 28 to July 1; breeds on golden-rod. V. P. I.

## POLYMERUS TINCTIPES Knight

Great Falls, Md., May 3, 1915, on lichen-covered rocks, J. D. Hood.

## POLYMERUS PUNCTIPES Knight

Branchville to Beltsville, Md., June 4, 1914, McAtee, E. R. Kalmbach; Beltsville, Md., June 9, 1915, McAtee.

## Genus POECILOCAPSUS Reuter

## POECILOCAPSUS LINEATUS Fabricius

Fairly common; adults have been collected from May 9 to June 29 and nymphs from May 9 to July 26. P. I.

## Genus HORCIAS Distant

## HORCIAS DISLOCATUS var. GONIPHORUS Say

Washington, D. C., May 18, 1887, Heidemann.

## Genus STENOTUS Jakowleff

## STENOTUS BINOTATUS Fabricius

Common, season June 3 to July 15; breeds on grasses; comes to light. V. P. I.

## Genus ADELPHOCORIS Reuter

## ADELPHOCORIS RAPIDUS Say

Abundant, almost as much so as *Lygus pratensis* var. *oblineatus*; adults have been collected from May 18 to October 11 and nymphs from May 19 to August 10; comes to light. P. I.

## Genus GARGANUS Stal

## GARGANUS FUSIFORMIS Say

Common, June 7 to October 13. P. I.

## Genus PARACALOCORIS Distant

## PARACALOCORIS SCRUEUS var. SCRUEUS Say

Washington, D. C., July 18, 1908, Heidemann; Beltsville, Md., June 14, 1914; June 9, 1915, McAtee; all the forms of this species seem to breed on Virginia Creeper (*Pseodera quinquefolia*).

## PARACALOCORIS SCRUEUS var. PERCURSUS McAtee

Plummer Island, Md., June 7, 1914, McAtee; June 30, 1907, A. K. Fisher; Four-mile Run, Va., May 31, 1914, A. Wetmore.

## PARACALOCORIS SCRUEPUS var. BIDENS McAtee

Plummer Island, Md., June 5, 1903, W. V. Warner; June 8, 1914, at light, Schwarz and R. C. Shannon; Beltsville, Md., June 14, 1914, June 9, 1915, July 1, 1914, July 4, 1915, June 18, 1916, McAtee; July 3, 1926, Knight.

## PARACALOCORIS SCRUEPUS var. ARDENS McAtee

Chain Bridge, Md., June 9, 1905, D. H. Clemons.

## PARACALOCORIS HAWLEYI var. HAWLEYI Knight

Rock Creek, D. C., June 24, 1906, D. H. Clemons; Beltsville, Md., June 9, 1915, June 14, 1914, June 18, 1916, 1918, McAtee; this species also breeds on Virginia Creeper.

## PARACALOCORIS HAWLEYI var. ANCORA Knight

Beltsville, Md., June 14, 1914, June 18, 1916, June 23, 1918, July 4, 1916, McAtee.

## PARACALOCORIS HAWLEYI var. FISSUS McAtee

Beltsville, Md., June 14, 1914; June 18, 1916, McAtee.

## PARACALOCORIS COLON var. COLONUS McAtee

Washington, D. C., July 19, 1926, Knight; Beltsville, Md., July 4, 1915, June 14, 1914, June 23, 1918; Odenton, Md., July 10, 1918, McAtee; another breeder on Virginia Creeper.

## PARACALOCORIS COLON var. CASTUS McAtee

Beltsville, Md., June 14, 1914, June 9, July 4, 1915, McAtee; July 3, 1926, Knight.

## PARACALOCORIS COLON var. AMICULUS McAtee

Beltsville, Md., July 4, 1915; Plummer Island, Md., June 17, 1906, McAtee.

## PARACALOCORIS HEIDEMANNI var. HEIDEMANNI Reuter

Plummer Island, Md., August 5, 1914, R. C. Shannon; July 19, 26, 1914, July 14, 21, 1915, August 9, 16, 1914, McAtee; Occoquan, Va., August 19, 1917, McAtee; Vienna, Va., August 1, 8, 1926, Knight; breeds on *Hypericum prolificum*.

## PARACALOCORIS HEIDEMANNI var. ABLUTUS McAtee

Plummers Island, Md., July 14, 1915, July 19, 26, 1914, McAtee; Great Falls, Va., July 18, 1926, Knight.

**PARACALOCORIS MULTISIGNATUS** Reuter

Washington, D. C., June 7, 1884 (Uhler collection); June 22, 23, 1905; Rock Creek, D. C., June 29, 1890, Heidemann; Beltsville, Md., June 14, 1914, June 23, 1918, July 4, 1915, McAtee; breeds on Virginia Creeper.

**Genus NEUROCOLPUS** Reuter**NEUROCOLPUS NUBILUS** Say

Common, found most often on sumac flowers, but taken also on those of *Tilia americana*, *Ceanothus americanus*, *Clethra alnifolia*, and *Monarda punctata*; June 2 to September 15. P. I.

**Genus PHYTOCORIS** Fallen**PHYTOCORIS MINUTULUS** Reuter

Hyattsville, Md., August 2, 1907, D. H. Clemons; Plummer Island, Md., July 26, 1903, Barber; July 6, 1906, D. H. Clemons; August 27, 1922, J. R. Malloch.

**PHYTOCORIS PURVUS** Knight

Washington, D. C., June 30, 1926, Knight; Plummer Island, Md., June 14, 1912, Barber; August 3, 1915, R. C. Shannon; Jacksons Island, Md., June 23, 1913, Shannon and Barber; Great Falls, Md., June 18, Barber.

**PHYTOCORIS ANTENNALIS** Reuter

This interesting species is encountered only one or two at a time, but has been collected on fairly numerous occasions; dates range from June 20 to September 20. V. P. I.

**PHYTOCORIS FENESTRATUS** Reuter

A striking inhabitant of Virginia pine that has been rather seldom collected; Washington, D. C., June 3 (Uhler collection); May 16, 1902, June 27, 1895, Heidemann; Petworth, D. C., May 21, 1905, D. H. Clemons; Branchville to Beltsville, Md., June 4, 1914; Corner of Conduit and Potomac Roads, Md., May 9, 18, 1913, McAtee.

**PHYTOCORIS FUMATUS** Reuter

Washington, D. C., June 20, Heidemann; June 22, 1906, F. Knab; May 30, 1891, on walnut. June 6, 1886, June 12, 1888; Plummer Island, Md., June 30, 1905, Heidemann.

**PHYTOCORIS CORTICEVIVENS** Knight

Great Falls, Md., July 2, 1906, Heidemann.

**PHYTOCORIS CONSPURCATUS** Knight

Fairly common; season June 3 to October 12. P. I.

## PHYTOCORIS DIFFICILIS Knight

Beltsville, Md., July 3, 1926, Knight.

## PHYTOCORIS SULCATUS Knight

Washington, D. C., July, 1907, William Palmer; July 4, 1886; July 9, 1926, August 6, 1926, Knight; Falls Church, Va., July 17, N. Banks; Scott's Run to Balls' Hill, Va., August 12, 1917, McAtee.

## PHYTOCORIS SALICIS Knight

Fairly common, June 5 to October 12. P. I.

## PHYTOCORIS EXIMIUS Reuter

Common, June 15 to October 1; comes to light. P. I.

## PHYTOCORIS SPICATUS Knight

Beltsville, Md., June 14, 1914, McAtee.

## PHYTOCORIS ERECTUS Van Duzee

Frequent; season June 8 to September 7; has been taken on *Hypericum prolificum* and *Psedera quinquefolia*. P. I.

## PHYTOCORIS BREVIUSCULUS Reuter

Washington, D. C., July 2, 9, 1926, at light, Knight.

## PHYTOCORIS JUNIPERICOLA Knight

Washington, D. C., July 19, 25, August 6, 1926, on red cedar; Glen Echo, Md., July 17, 1926, Knight; Plummer Island, Md., August 3, 1915, R. C. Shannon and V. A. Roberts.

## PHYTOCORIS MUNDUS Reuter

Common on *Pinus virginiana*, season June 4 to October 12; comes to light. P. I.

## PHYTOCORIS CONSPERSIPES Reuter

Abundant on *Pinus virginiana*; June 8 to November 1. P. I.

## PHYTOCORIS UNIFORMIS Knight

Beltsville, Md., June 23, 1918, McAtee, Vienna, Va., July 7, 11, 1926, on pine, Knight.

## PHYTOCORIS QUERCICOLA Knight

Beltsville, Md., July 4, 1915; June 23, 1918, on *Quercus alba*, McAtee; Glen Echo, Md., July 1, 1923, J. R. Malloch.

**PHYTOCORIS TIBIALIS Reuter**

Common, April 19 to October 12. P. I.

**PHYTOCORIS CONFLUENS Reuter**

Frequent on hickory; season June 15 to October 4. P. I.

**PHYTOCORIS PUELLA Reuter**

Common; June 9 to October 24; occurs most often on hickory, but also on oak, maple, and pine; comes to light. P. I.

**PHYTOCORIS VENUSTUS Knight**

Odenton, Md., July 29, 1917, on wild grape; August 14, 1918, McAtee.

**PHYTOCORIS INFUSCATUS Reuter**

Frequent; season June 14 to July 27; has been taken on walnut.

**PHYTOCORIS OLSENI Knight**

Mount Vernon, Va., June 6, 1915, McAtee.

**Genus PARAXENETUS Reuter****PARAXENETUS GUTTULATUS Uhler**

Fairly numerous; season June 7 to September 13; frequently taken on foliage of the tulip tree, sometimes on grape vines. P. I.

**BIBLIOGRAPHY****BANKS, NATHAN.**

Rare Hemiptera in Virginia, Ent. News, vol. 18, 1907, p. 425.

*Eucercoris* (now *Paraxenetus*) *guttulatus* on foliage of tulip tree. Catalogue of the Nearctic Hemiptera-Heteroptera. American Ent. Soc., Philadelphia, 1910, pp. 103+viii.

Records several species of Miridae from the District of Columbia. At the Ceanothus in Virginia. Ent. News, vol. 23, 1912, pp. 102-110.

Seven species of Miridae recorded (p. 105); the name *Lygus fusconotatus* is an error for *L. flavonotatus* Provancher, a synonym of *pratensis* Linneaus.

**BLATCHLEY, W. S.**

Heteroptera or true bugs of Eastern North America, 1926, 1116 pp., 215 figs.

Records numerous species from our area.

**HEIDEMANN, OTTO.**

Note on the occurrence of a rare Capsid, near Washington, D. C. Proc. Ent. Soc. Wash., vol. 2, 1891, pp. 68-69.

*Cylapus tenuicornis* Say is recorded for the first time.

Note on the food-plants of some Capsidae from the vicinity of Washington, D. C. Proc. Ent. Soc. Wash., vol. 2, 1892, pp. 224-226.

Twenty species are mentioned, 10 under Uhler manuscript names while 4 others are misidentifications. Of the Uhler names some are accompanied by descriptive matter sufficient to validate them. Five of them are identifiable and are accepted in the present paper.



HEIDEMANN, OTTO.—Continued.

Heteroptera found on ox-eye daisy (*Chrysanthemum leucanthemum*), Proc. Ent. Soc. Wash., vol. 4, p. 217, May 1899.

Twelve species of Miridae are included in the list, one of them under a manuscript name, *Apocremnus robustus* Uhler.

[Notes on some hemipterous insects.]

Proc. Ent. Soc. Wash., vol. 12, 1910, pp. 45–57.

Records the rearing of *Eurychiloptercella luridula* Reuter from the District of Columbia; also the first specimen of a *Sericophaeus* (*S. heidemannii* Poppus then undescribed) from Plummer Island, Md.

KNIGHT, HARRY H.

A revision of the genus *Lygus* as it occurs in America north of Mexico, with biological data on the species from New York. N. Y. (Cornell) Agr. Expt. Sta., Bull. 391, 1917, pp. 555–645.

Records nine species of *Lygus* from local material, four of which are described as new.

New species of Lopidea (Miridae, Hemiptera). Ent. News, vol. 28, 1917, pp. 455–461.

Four new species, *Lopidea heidemannii*, *L. davisii*, *L. reuteri*, and *L. staphyleae* described in part from local material.

Old and new species of Lopidea from the United States (Hemiptera, Miridae). Ent. News, vol. 29, 1918, pp. 210–216.

Four species recorded, and *Lopidea sayi* described in part, from Plummer Island.

New and little-known species of Phytocoris from the eastern United States (Hemiptera-Miridae). Bull. Brooklyn Ent. Soc., vol. 15, 1920, pp. 49–66.

Three new species of *Phytocoris* described in part from local material while two others are recorded.

Monograph of the North American species of Deraeocoris (Heteroptera, Miridae). 18th Rep. State Ent. Minnesota, for 1920 (1921), pp. 76–210, pls. viii–ix, 44 figs. Reprinted as Tech. Bull. No. 1, Univ. Minn. Agr. Exp. Sta., 1921, pp. 76–210.

Records nine species of Deraeocoris from our region, of which four species are described in part from local material. Two new names are proposed, *nitenatus* for the preoccupied *nitens* Reuter, and *nigritulus* for *nigritus* Reuter. The name *cuneatus* proposed on p. 96 for one of our local species is preoccupied by *poecilus* (Reuter ms.) McAtee.

The Miridae (or Capsidae) of Connecticut. In Hemiptera of Connecticut. Conn. Geol. Nat. Hist. Surv., Bull. 34, 1923, pp. 422–658, figs. 47–149.

Ten new species and 3 new varieties are described in part from local material, while some 20 other species are described which are now found in our area.

A new Peritropis from the Eastern United States (Heteroptera, Miridae). Ent. News, vol. 34, 1923, pp. 50–52.

Refers to *P. saldaeformis* from Washington, D. C.

Descriptions of six new Miridae from Eastern North America (Hemiptera, Miridae). Can. Ent., vol. 58, 1926, pp. 252–256.

*Plagiognathus tiliae* is described in part from District of Columbia material.

KNIGHT, HARRY H.—Continued.

A key to the North American species of *Macrolophus*, with descriptions of two new species. (Hemiptera, Miridae.) Ent. News, vol. 37, 1926, pp. 313-316.

*Macrolophus separatus* Uhler recorded and *M. brevicornis* described in part from local material.

Notes on the distribution and host plants of some North American Miridae (Hemiptera). Can. Ent., vol. 59, 1927, pp. 34-44.

*Alepidiella heidemanni* Poppins found breeding on *Pinus virginiana*, *Philophorus walshii* Uhler breeding on *Gleditsia triacanthos*, while *Criocoris saliens* Reuter and *Phytocoris brevisculus* Reuter are recorded from local material.

Descriptions of 12 new species of Miridae from the District of Columbia and vicinity (Hemiptera). Proc. Biol. Soc. Wash., vol. 40, 1927, pp. 9-18.

Twelve species and two new varieties are described from our region.

Descriptions of 15 new species of *Ceratocapsus* (Hemiptera, Miridae). Ohio Journ. Sci., vol. 27, 1927, pp. 143-154.

Three new species, *Ceratocapsus uniformis*, *barbatus*, and *mcateeii* are described from local material.

Key to the species of *Oncrometopus* with descriptions of five new species (Hemiptera, Miridae).

Journ. N. Y. Ent. Soc., 36, No. 2, June 1928 (August), pp. 189-194.

*O. nitens* new species described in part from local material.

MCÁTEE, W. L.

Psyllidae wintering on conifers about Washington, D. C., Science, new ser., vol. 41, p. 940, June 1915.

*Lygus pratensis* hibernating on pine.

Key to the Nearctic species of *Paracalocoris* (Heteroptera, Miridae). Ann. Ent. Soc. Amer., vol. 9, 1916, pp. 366-390.

Records from our region 5 species, 1 of which is described as new and 11 varieties, 10 new.

A sketch of the Natural History of the District of Columbia, Bull. Biol. Soc. Wash., 1, 1918, 142 pp., 4 maps.

Refers to collecting localities for a few of the rarer Mirids.

Notes on two Miridae, *Camptobrochis* and *Paracalocoris* (Heteroptera). Ent. News, vol. 30, 1919, pp. 246-247.

*Camptobrochis poccilus* validated and becomes available for the pre-occupied name, *cuncalis* Reuter, originally described as a variety from the District of Columbia material; notes on *C. nebulosus* also.

MCÁTEE, W. L., and MALLOCH, J. R.

Some annectant bugs of the super-family Cimicoidea (Heteroptera), Bull. Brooklyn Ent. Soc., vol. 19, pp. 69-82, Pl. 1, June, 1924.

*Peritropis saldaeformis* Uhler recorded (p. 73).

POPPIUS, B.

Übersicht der *Pilophorous* arten nebst beschreibung verwandter Gattungen (Hemiptera-Heteroptera). Ann. Soc. Ent. Belgique, vol. 58, 1914, pp. 237-251.

*Pilophorous brunneus*, new species, and *Alepidiella heidemanni*, new genus, new species, founded on local material. *Pilophorous crassipes*, new species, is recorded in part from District of Columbia, but the type was from Colorado and proves to be different, while the local specimens are referable to *P. crassipes* Heidemann.

## REUTER, O. M.

Bemerkungen über Nearktische Capsiden nebst beschreibung neuer Arten. Acta Soc. Sci. Fennicae, vol. 36, No. 2, 1909, pp. 1-86.

There are recorded from our territory, 31 species and 5 varieties of which 16 species and 5 varieties besides 2 new genera are described, wholly or in part, from local material. One of the species, *Phytocoris subnitidulus*, is now regarded as a synonym of *P. fumatus*. Two other species had names preoccupied and have since been renamed as follows: *Camptobrochis nigrita* becomes *Deracocoris nigritulus* Knight, while *Camptobrochis nitens* becomes *Deracocoris nitentatus* Knight. The record for *Camptobrochis grandis* Uhler refers to *Deracocoris aphidiphagus* Knight. *Psallus cuneali* Uhler a ms. name possibly validated here is preoccupied.

## UHLER, P. R.

Observations on some remarkable forms of Capsidae. Proc. Ent. Soc. Wash., vol. 2, 1891, pp. 119-123.

Describes *Peritropis saldaeformis* from local material, also records the finding of *Cytapus tenuicornis* Say by Heidemann.

Observations on some remarkable Heteroptera of North America. Trans. Maryland Acad. Sci., 1892, pp. 179-184.

Records *Hadrodema pulverulenta*, new species=*Lygus rubicundus* Fallen, from Washington.

List of Hemiptera-Heteroptera of Las Vegas Hot Springs, New Mexico, collected by Messrs. E. A. Schwarz and Herbert S. Barber. Proc. U. S. Nat. Mus., vol. 27, No. 1360, 1904, pp. 349-364.

Describes *Dichroöcytus elegans* in part from Washington, D. C., but these eastern specimens have been shown to belong to a different species, namely *Dichroöcytus tinctipennis* Knight.

## VAN DUZEE, E. P.

Monograph of the North American species of Orthotylus (Hemiptera). Proc. Calif. Acad. Sci., vol. 6 (ser. 4), 1916, pp. 87-128.

Records *O. flavorsparsus* Sahlberg and *chlorionis* Say from our region Catalogue of the Hemiptera of America north of Mexico excepting the Aphididae, Coccidae and Aleurodidae. Univ. Calif. Publ., Div. Ent., Tech. Bul., vol. 2, 1917, pp. 1-902.

Records several species of Miridae from the District of Columbia.

New species of Hemiptera chiefly from California. Proc. Calif. Acad. Sci. (ser. 4), vol. 8, 1918, pp. 271-308.

Describes *Pilophorus lactus* and *P. crassipes*, in part from local material, but the name *crassipes* had previously been published for the same species by Heidemann.