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REMARKS ON THE HEMIPTEROUS FAUNA OF
OHIO WITH A PRELIMINARY RECORD
OF SPECIES.

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If there is any need of an apology for the study of a local fauna it would seem to be sufficient to call to mind the numerous problems in geographical distribution, life zones and dispersal which are presented by every group of animals and for the solution of which complete records of local faunae become indispensable. At first sight it may seem less essential to secure such records for the different parts of a large area having primarily one faunal zone but the facts reveal that in many cases the distribution of particular species presents peculiar limitations, and the recognition of these is essential in any consideration of more general groups. While the study of remote and exceptional localities may give more striking and immediate returns an extended and systematic study of particular groups must be the basis for final conclusions regarding many of the more obscure laws. Such a study as has been made of the Odonata in this state by the lamented Prof. Kellicott is a good example of what is needed in other groups.

The present paper is admittedly incomplete, in fact, is presented simply as a preliminary to the study of this fauna which it is expected to pursue and its purpose is to interest, if possible, collectors in different parts of the state, without whose assistance the work must necessarily be very slow. We may safely assume that the fauna of the state will present some marked differences if we compare the area bordering the lake
shore, the elevated south eastern part and the south-western valley portion and it is particularly desirable to accumulate material from these different areas. It is hoped that we may be able to give a careful survey to these areas as well as the central part of the state within the next few years but collections from any parties especially in these areas will be most thankfully received.

But little labor is necessary in the collecting or preparation for sending. The greater number are easily caught in a sweep-net from grass and low herbage; and the bush and tree inhabiting species by beating over an umbrella. As soon as killed in the cyanide bottle they may be packed in pill boxes between sheets of tissue paper and then they are ready for transmission by mail or for indefinite preservation—the work of sorting, separating species and mounting being done at any convenient time. Date of capture and the food plant if possible of determination should accompany each lot as these add immeasurably to the value of the collection.

Aside from the few months work which has been possible to me, the University collections contain a number of species collected by Mr. Hine and these furnish the basis for the preliminary record here presented.* Aside from records made by Prof. C. M. Weed of Aphididae and of various injurious species by Prof. Webster scarcely any records occur in literature, the only one of Say's species which can be counted as referred to the state being one which is given for "near Lake Erie and in Indiana."

The list as it stands however may serve to show the general nature of the fauna and as a basis for future additions. The number will certainly be largely increased by another season's collection.

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*As the printing of this paper was deferred from last Annual Report it has been possible to add a number of records made during the season of 1899.
HOMOPTERA.

CICADIDAE.

*Cicada tibicen* Linn. Columbus. Common, widely distributed.

*Cicada pruinosa* Say. Columbus.

*Tibicen septem decem*, L. "Seventeen year cicada". Represented by different broods in various parts of the state.

*Tibicen rimos*, Say (?) Probably one of the varieties of this species.

MEMBRACIDAE.

*Entilia sinuata*, Fab. Columbus. Usually rare. Occurs on wild sunflowers and other weeds.


*Ceresa diceros*, Say. Columbus, Sandusky, Castalia, abundant on various plants, especially in woods.


*Ceresa basalis* Walk. (?) Medina. Fairly common in northern U. S.

*Thelia bimaculata* Fab. Columbus. Common on Black Locust.

*Thelia uhleri*, Stal. No locality. Not rare in various parts of northern U. S.


Contributions from the Department of Zoology and Entomology Ohio State University, No. 2.

*Thelia turriculata* Emmons. "Ohio" (Kellicott vide Goding).

*Thelia univittata* Harr. Sandusky.
Thelia godingi VanD. Wauseon (Hine), Van Dugee. Credit it to black cherry and scrub-oak.


Telamona monticola Fab. Sandusky, Georgesville, Fairly common.

Telamona ampelopsidis Harr. Columbus (?) Usually common on ampelopsis.

Telamona concava Fitch. Columbus.


Telamona spreata Godg. Reported by Prof. Webster as occurring on Ampelopsis quinquefolia at Wooster.

Heliria strombergii Godg. Jeffersonville.

Archasia belrageri Stal. Wauseon. Usually rare on Oak.

Similia camelus Fab. Columbus. Sometimes occurs in abundance.

Acutalis calva Say. Columbus, Abundant.

Cyrtolobus fenestratus Fitch. Columbus. Rare.


Cyrtolobus trilineatus Say. Columbus.

Atymna castaneae Th. Ashtabula, On Chestnut.

Atymna querci Fitch. Sandusky, Newark, Columbus. Abundant on oaks and may sometimes be found in large numbers on grass or other plants beneath oak trees.


Enchenopa binotata Fab. Columbus, Georgesville. Common on thistles and other weeds.

Campylenchia curvata Fab. Columbus, Castalia. Abundant over large part of U. S. Feeds as
larva on clover and probably many other plants.


**FULGORIDAE.**


*Ormenis pruinosa* Say. Columbus. Common to large area in U. S. On orchard trees and various shrubs.

*Ormenis septentrionalis* Fab. Medina, Georgesville. Columbus, Wauseon. Common, especially southern U. S.


*Helicoptera* sp. (*nova* Say or near) Medina. Common.

*Bruchomorpha dorsata* Fitch. Wauseon. Seldom plentiful but generally distributed.

*Bruchomorpha oculata* Newm. Columbus. Rather rare in grassy lowland.


*Otioerus amyotii* Rocky Fork. Rather common in forest or on hickory or other trees.

*Otioerus stolli* Wauseon. Fairly plentiful. Occurs from Atlantic west to Iowa at least.

*Lamenia vulgaris* Fitch. Wauseon. Very common in eastern U. S., west to Missouri River. Feeds on willow, thorn, beech, etc.

*Stenoecranus dorsalis* Fitch. Columbus. Abundant in grassy lowland.

*Stenoecranus lautas* VanD. Sandusky, Columbus, Rocky Fork, Georgesville. Common.

*Stobera tricarinata* Say. Common, widely distributed in U. S.
Pissonotus ater VanD. Columbus. On water willow in October. (Hine.)

CERCOPIDAE.

Lepyronia quadrangularis Say. Rocky Fork. Very common over large part of U. S. from Atlantic to Rocky Mountains, on low herbage.
Aphrophora paralella Say. Columbus (?) Common, eastern U. S. west to Ill. and Ark.
Clastoptera obtusa Say. Georgesville, Columbus. Abundant on willow.
Clastoptera proteus Fitch. (Loc. ?) A common species over larger part of U. S. and like preceding species represented by many varieties.

BYTHOSCOPIDAE.

Macropsis apicalis O. and B. Columbus. Hanging Rock. On honey locust. Usually very abundant where this plant occurs.
Bythoscopus distinctus VanD. Columbus, Ashtabula. Common.
Agallia sanguinolenta Prov. Columbus. Abundant everywhere.
Agallia quadrinotata Prov. Columbus (Nymphs). A common species eastern U. S.
Agallia constricta VanD. Wooster. Usually common south.
Pediopsis viridis Fh. Ironton. Columbus. An abundant species on willows.
Idiocerus suturalis Fitch. Wauseon.
Idiocerus alternatus Fitch. Columbus.
Idiocerus verticis Say. Columbus.

TETTIGONIDAE.

Aulacizesguttata Sign. Georgesville, Columbus. A southern species reaches its northern limit probably in central Ohio.
Tettigonia hiruglyphica Say. Widely distributed.
Tettigonia tripunctata Fitch. Columbus, Rocky Fork, Ashtabula.
Diedrocephala versuta Say. Georgesville, Ironton. A common southern species. Not recorded for Columbus or farther north in the state.
Diedrocephala coccinea Forst. Columbus. Common over U. S.
Diedrocephala angulifera Walk. Sandusky. In coarse grasses of lowland.
Helochara communis Fitch. Columbus, Georgesville. Abundant from Atlantic to Pacific Ocean.
Gypona octolineata Say. Columbus, Georgesville. Abundant on great variety of plants.
Gypona rugosa Spang. Wauseon. Rare. Probably southern in distribution.
Gypona melanota Spang. Castalia. Rare. Occurs to east and west.


Penthimia americana Fh. Sandusky, Wauseon. Common over large area in U. S.

JASSIDAE.


Xestocephalus pulcarius Van D. Columbus. A plentiful little species. Atlantic to plains.


Platymetopius frontalis Van D. Columbus, Castalia. Less common than preceding.


Deltcephalus weedii Van D. Columbus, Rocky Fork. Abundant in Southern States, occurs north to central Iowa, and Ohio, in grass.


Deltcephalus inimicus, Say. Columbus. Abundant everywhere in blue grass, etc.

Deltcephalus flavidusta, Stal. Columbus. Rather rare, occurs southward probably to southern South America.

Deltcephalus sylvæstris O. & B. Columbus. In grassy timber land.

Athisanus curtisii, Fitch. Columbus, Rocky Fork. Abundant in grasses.

Eutettix lurida Van D. Rather rare.

Eutettix cineta O. & B. Wooster. Rather common west to Iowa.

Eutettix strobi Fitch. Columbus. Common. Atlantic to plains. Larvae occur on Chenopodium causing purple spots on leaves which they mimic in color.

Phlepsiis humidus Van D. Georgesville. In low, moist places along river beds.

Phlepsiis irroratus Say. Columbus. Abundant and very widely distributed in United States.

Scaphoideus immistus Say. Columbus. Common.

Scaphoideus auronitens Prov. Columbus. One specimen.

Scaphoideus scalaris Van D. Columbus one specimen.

Scaphoideus intricatus Uhl. Rare. One specimen Columbus.

Thamnotettix clittellaris Say. Columbus. Common. Often observed on orchard trees.

Thamnotettix longula G. and B. Columbus. Common.

Thamnotettix melanogaster Prov. Columbus. Abundant in lowlands, probably feeds on sedges.

Thamnotettix fitchii VanD. Columbus. Common in low land.

Limotettix striola Fall. Columbus, Georgesville. Common.

Limotettix exitiosa Uhl. Columbus. Often abundant. Sometimes destructive in fall wheat and grass land.

Chlorotettix galbunata VanD. Georgesville, Common.

Chlorotettix unicolor Fh. Ashtabula.

Chlorotettix tergatus Fh. Wooster, Ashtabula.


Gnathodus impictus VanD. Columbus. Rather rare.

Cicadula 6-notata Fall. Columbus. Abundant.

Cicadula variata Fall. Columbus.
Cicadula punctifrons Fall. var americana VanD. Columbus. Sandusky. Ironton. On shrubby willow.

Alebra albostriella Fall. Columbus.

Dicranura fieberi Mel. Columbus.

Dicranura abnormis Columbus.

Empoasca sp.

Empoasca mali LeB. Columbus. Abundant on apple and many other plants.

Typhlocyba comes vitis Harr. Columbus. Abundant on grape everywhere.

Typhlocyba comes basilaris Say. Columbus. Common on grape.


Typhlocyba comes maculata Gill. On sycamore. Columbus.

Typhlocyba vulnerata Say. Columbus. Abundant.

Typhlocyba querci Fitch. Wauseon.


Typhlocyba hartii Gill. Columbus. Rare.

Typhlocyba obliqua Say. Columbus. Common.

Typhlocyba rosae Harr. Columbus, (Weed) Common.


PSYLLIDAE.

Pachypsylla celtidis-mammae Very abundant on Hackberry. Columbus, Sandusky.

Pachypsylla celetidis gemma Wooster, 10-2-'98. (C. W. M.)

APHIDIDAE.

Siphonophora circumplex. Wooster, 3-16-'97. (C. W. M.) From Easter lilies in greenhouse.

Siphonophora rudbeckiae Fitch. Columbus. (weed.) A common species on Rudbeckia.
Myzus cerasii L. Columbus, (Weed.) On cherry
Often very plentiful.
Myzus ribis L. Columbus, (Weed)
Myzus persicae. Common. "Peach Aphis."
Myzus persicae niger Sm. 8-22-'98. Waterville.
Seriously abundant on roots of peach trees.
(Webster.)
Lachnus strobi Fitch. Columbus, (Weed.)
Lachnus dentatus LeB. Columbus, (Weed.)
Lachnus pinii L. Columbus, (Weed.)
Malanoxanthus salicti Harr. Columbus, (Weed.)
Malanoxanthus salicis Linn. Columbus, (Weed.)
Schizoneura imbricator Fitch. Common Beech blight.
Schizoneura americana Elm leaf gall-louse.
Schizoneura tessellata Fitch. Zanesville, 11-5-'96. Infesting "English Alder" (Webster.)
Pemphigus smilacinus O. and S. On smilax, Rocky Fork.
Pemphigus vagabundus Ph Vagabond gall. Columbus, Sandusky. Very plentiful at Cedar Point, summer of 1899.
Colopha ulmicola. Common Cocks comb gall on elm leaves.

ALEYRODIAE.

Aleyrodes sp. Very abundant, autumn of 1898, on Sycamore and other trees at Columbus.
Aleyrodes sp. Ada, 8-12-'96. Complained of as doing slight injury to strawberry (Webster.)

COCIDAE.

Orthezia insignis Doug. Columbus in Greenhouse.
Orthezia americana? Georgesville. (Fullmer,)
Dactylopius citri Rossi. Mealy bug of greenhouse.
Lecanium hesperidum L. "Oleander scale."
Lecanium oleae Bern. Columbus.
Lecanium celtidis. Sandusky.
Lecanium persicae Syracuse, 4-24-'96. Dresden 12-21-'96. (Webster.)
Lecanium armenicum Craw. Painesville, 2-5-'97. On spanish chestnut. (Webster.)
Pulvinaria acericola W. & R. Columbus.
Mytilaspis pomorum Bouche. Portage. East Cleveland. Very abundant on poplars, 7-29-'96. (C. W. M.)
Mytilaspis citricola Pack. On oranges in market.
Parlatoria pergandei Comst. Columbus.
Chionaspis furfuratus Pitch. Westerville. Wooster on apple. 1-12-1900. (W. N.)
Chionaspis pinifoliiæ Fh. Columbus, Wooster on pines, austriaca. 1-19-1900. (Wooster.)
Chionaspis biclavis Comst. Columbus.
Chionaspis corni Cooly. Sandusky.
Diaspis cacti Comst. In greenhouse. Columbus.
Diaspis rosae Columbus. (Bogue.) Berlin Cross-roads, Jackson Co., 3-6-'97. Infesting raspberries.
(Webster.) Wooster 12-7-'97, on raspberry. (C. W. M.)

Diaspis bromeliiæ Columbus. (Bogue.)
Diaspis amygdali Painesville. 8-16-'97. On flowering cherry received direct from Japan. (Webster.)
Aspidiotus ancyclus Putnm. Columbus. Will, 5-18-'99. So abundant in spots in an Osage orange hedge as to kill the dwarfed tree. (C. W. M.)
Aspidiotus forbesi Johns. Columbus.
Aspidiotus perniciosus Comst. "San Jose Scale" Clinton Co., Catawba I.d., etc, introduced. 39 localities recorded by Webster.
Aspidiotus dichroespermi Morgan. Columbus.
Aspidiotus obscurus Comst. Columbus. (Hine.) Catawba Island. 1-11-'97. (Owen.)
Aspidiotus ficus Ashm. Wooster. (Webster.) Columbus.
In greenhouse.
Aspidiotus nerii L. Columbus. In greenhouse.

HETEROPTERA.

Homaemus aeneifrons Say. Ohio. Ordinarily rare.

CORIMELAENIDAE.

Corimelaena alta Am. et Sow. Columbus. Usually rather common.
Corimelaena lateralis Fab. Columbus. Common.
Corimelaena pulicaria.

**CYDNIDAE.**

*Pangaeus bilineatus* Say. No locality. Probably Columbus.
*Canthophorus cinctus* P. Beauv. Columbus. Not abundant.

**PENTATOMIDAE.**

*Stiretrus anchorago* Fab. No locality. Not common but widely distributed.
*Perillus circumcinctus* Stal. No locality.

*Brochymena annulata* Fab. Columbus. Common U. S. generally. Gypsum hibernating in grape leaves. (Webster.)
*Neottiglossa undata* Say. Columbus, Georgesville, Castalia.

*Cosmopepla carnifex* Fab. Columbus. Ashtabula July 19-'99. (R. C. Osburn.)
*Euschistus fissilis* Uhl. No locality, probably Columbus.
*Euschistus tristigmus* Say. Georgesville, Columbus.
*Euschistus variolarius* P. Beauv. Columbus, Castalia (H. O.,) Ashtabula. (R. C. Osburn.)
Fidelity. (Webster.) Larvae observed de-
stroying larvae of unicorn prominent. (Webster.)

_Hymenarcys aequalis_ Say. Columbus, Georgesville.
_Hymenarcis nervosus_ Say. Castalia.
_Meneceles insertus_ Say. Georgesville. Usually rare.
_Trichopecta semivittata_ Say. Ashtabula July 19-'99. (R. C. Osburn.)

_Peribalus limbolarius_ Stal. Georgesville, Columbus. Abundant in autumn on Golden Rod and other compositae.

_Thyanta custator_ Fab. Columbus. Abundant especially westward.

_Murgantia histrionica_ Hahn. Cincinnati, Columbus, Wooster. Southern, has extended distribution northward but seems to have reached its limit.

_Nezara hilaris_ Say. Columbus, Common over wide area.

_Nezara pennsylvanica_ Fab. One specimen. Columbus. Rare.

_Banasa calva_ Say. Columbus. Not common. Occurs west to Rocky Mts.

**COREIDAE.**

_Charisterus antennator_ Fab. Columbus.
_Corynocoris distinctus_ Dall, Ashtabula, July 19-'99. (R. C. Osburn.)
_Archimerus calcarator_ Fab. Three specimens. No locality. Probably Columbus. Common to United States generally.
_Euthoctha galeator_ Fab. Wauseon. Common over U. S.

_Metapodius terminalis_ Dall. Georgesville.
_Leptoglossus oppositus_ Say. Columbus. (Snyder.)
_Anasa tristis_ D. G. Columbus, Wooster. The common "Squash bug."

_Alydus conspersus_ Mont. Columbus, Castalia.
_Alydus eurinus_ Say. Columbus, Castalia.
_Alydus pluto_ Uhl. (?) Rocky Fork. Described from
Colorado but occurs in Dakota and Iowa, no record further east.

Protenor beflragei Stal. Columbus, Sandusky. Frequent low land on rank grasses.


Corizus lateralis Say. Wooster. Found among stems of Malva rotundifolia. (Webster. (C. W. M.)


Corizus novaeboracensis Sign.

Neides muticus Say. Sandusky, Medina.

Jalysus spinosus Say. Columbus.

LYGAEIDAE.

Nysius thymi Wolff.

Nysius angustatus Uhl. Wauseon. Reported in strawberries as “eating them to the ground.”

Blissus leucopterus Columbus, Sandusky, etc. “Chinch bug.”

Cymodema tabida Columbus.

Geocoris sp. Columbus.

Oedanciaa dorsalis Say. Hanging rock, Ironton.


Heraneus plebejus Stal. [?]

Pameria biloba Say. Sandusky. Rare.

Pameria basalis. Dall. Columbus, Georgesville.

Eremocoris ferox Say. Akron.

Trapezonotus nebulosus Fall, Columbus. [C. W. M.]


Oncopeltus fasciatus Dallas. Columbus.

CAPSIDAE.

Miris affinis Reut. Columbus.
Leptoterna dolabrata Linn. Wooster. Very abundant.
Collaria oculata Reut. Ashtabula.
Collaria meilleuri Prov. Ashtabula.
Teratocoris discolor Uh. Wooster.
Calocoris rapidus Say. Columbus, Castalia.
Melinna fasciata Uhl. Wauseon.
Melinna modesta Uhl. Sandusky.
Lopidea media Say. Hanging Rock.
Lygus pratensis L. Sandusky, Columbus, Castalia.
Common to Europe and America. Varying
from temperate and tropical regions. Lowell-
ville, abundant on leaves of celery. (Webster.)
Poecilocapsus lineatus Fab. Columbus. Granville.
Poecilocapsus goniphorus Say. One specimen. No
locality. Probably Columbus.
Hyaliodes vitripennis Say. Wauseon.
Pilophorus bifasciatus Fab. Wauseon.
Halticus uhleri Giard. Stone-lick, 5-16-’99. (C. W. M.)
Wooster.
Halticus bractatus Say. Lawrence Co., 9-28-’98.
On strawberry in limited numbers. (Webster.)
Wooster, Lakewood. Abundant on cucumbers
in greenhouse. Wooster 1-1-’97 on rose in
insectary. (C. W. M.)
Gargarus fusiformis Say. Columbus, Rocky Fork.
Xenetus scutellatus Uhl. One specimen, Columbus,

ACANTHIIDAE.

Triphleps insidiosus Say. Columbus.
Acanthia lectularia L. Columbus and elsewhere.

TINGITIDAE.

Piesma cinerea Say. Columbus. Common, has variety
of food plants and ranges over an extended
area.
Corythuca arcuata Say. Columbus. Common on
Oak, Hawthorn, etc.
Corythuca ciliata, Say. Columbus. Abundant on Sycamore.

Gargaphia fasciata Columbus. Common on Linden.

ARADIDAE.

Aradus robustus Uhl. Columbus.

Neuroctenus simplex Uhler. Columbus. Abundant under bark of fallen trees.

PHYMATIDAE.

Phymata fasciata Gray. Columbus. Abundant. Ranges far to south and west.

NABIDAE.

Coriscus subcoeleoptratus Kby. Wauseon.

Coriscus ferox Linn. Columbus, Wauseon, (Hine.) Wooster 3-30-'97. On corn growing in Insectary 10-26-'96. Feeding on plant lice in winter wheat. (C. W. M.)

Coriscus punctipes Reut. Columbus.

REDUVIIDAE.

Sinea diadema Fab. Columbus.

Acholla multispinosa DeGeer. Sandusky, Wauseon.

Milyas cinctus Fab. Columbus, observed clustering on trees in autumn of '98. Wooster 9-22-'99 (C. W. M.)


Opsicoetus personatus L. Loc. (?)

Conorhinus sanguisugus Lec. Cincinnati, (Dury.) Common in southern states. This would seem to be about its northern limit.

Pnironitis inflrma Stal. Columbus. A southern species. Rare in this latitude.

Pygolampis pectoralis Say. One specimen. No locality. Columbus [?] Fairly common in this latitude farther west.
Oncerotrachelus acuminatus Say. Columbus. Common. A southern species. This is probably about its northern limit.


LIMNOBATIDAE.

Limnobates lineata Say. Columbus. Widely distributed.

HYGROTRECHIDAE.

Hygrotrechus remigis Say. Columbus. Water strider. Abundant over large part of U. S.

Limnotrechus marginatus Say. Columbus. Common and widely distributed.

VELIIDAE.


Rheumatobates rileyi U. Columbus. This very interesting little species I found quite plentiful at Big Run south of Columbus.

Hebrus americanus Uhl. Columbus. A minute species of wide range.

Rhogovelia obesa Uhl. Columbus.

SALDIDAE.

Salda ligata Say. Wauseon.

Salda interstitialis Say. Wauseon, Sandusky.

Salda humilis Say. Columbus, Sandusky, Johnsons, Id. Abundant.

Salda orbiculata Uhl. Ironton, June, 1899. Wooster.

GALGULIDAE

Galgulus oculatus Fab. Sugar grove (Kellicott) a southern species.

BELOSTOMATIDAE.

Zaitha fluminea Say. Columbus. Abundant over eastern U. S.
Belostoma americana Leidy. Columbus. Abundant and widely distributed.

Benacus griseus Say. Columbus. Abundant and widely distributed.

NEPIDAE.

Nepa apiculata Uhl. Columbus.
Ranatra fusca Pal Beauv. Columbus.
Ranatra 4–dentata Stal. Columbus. Our most common form, ranges south and west.

NOTONECTIDAE.

Notonecta irrorata Uhl, Columbus.
Plea striola Fieb. Columbus. Abundant and widely distributed in U. S.

CORISIDAE.

Corisa alternata Say. Columbus. Very abundant and of wide range.