

# CHECK LIST OF OHIO LEAFHOPPERS

(HOMOPTERA: CICADELLIDAE)

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An attempt is made to list all species known to occur in Ohio. This list is based on three papers dealing especially with Ohio fauna: Osborn, Herbert, Ohio Biological Survey Bulletin 14, 1928, and Supplemental Records and Notes on Ohio Leafhoppers, *Ohio Journal of Science*, 32: 513-517, 1932; and Johnson, Dorothy M., Ohio Biological Survey Bulletin 31, 1935.

Since the publication of these papers a large number of additional species has been collected, and numerous changes, particularly in generic placement, have been made. In case the genus differs from that under which the species was listed in these papers, the old generic name follows the specific name in parentheses and is italicized. The same treatment is used for synonymy and for varieties which have been raised to specific rank. All species which are additions are in bold face type and an asterisk is placed in front of the name. These new records may be from publications by various authors in which the species are described, or from material collected or determined more recently. The determinations have been made by D. J. Knull and all records, unless other collectors are mentioned, are from the collecting of D. J. & J. N. Knull.

A total of 615 species and 32 varieties of which 171 species and 11 varieties are new records are listed.

## EURYMELINAE Kirkaldy

**Idiocerus** Lewis  
*alternatus* Fitch  
\***amabilis** Ball, Ashtabula Co., June 24, 1931, E. P. Breakey; Sugar Grove, July 27, 1928, C. C. B. Mayer; Hocking Co., July 27, 1944.  
*crataegi* V. D.  
*duzei* Prov.  
*fitchi* V. D.  
\***formosus** Ball, Hocking Co., June 19, 1938.  
*lachrymalis* Fitch  
*nervatus* V. D.  
*pallidus* Fitch  
*provancheri* V. D.  
*scurra* (Germar)  
*snowi* Gillette & Baker  
\***subnitens** Sanders & DeLong, Ashtabula Co., June 24, 1931, E. P. Breakey.  
*suturalis* Fitch  
var. *lunaris* Ball

## MACROPSINAE Evans

*basalis* (Van Duzee)  
*bicolor* (Osborn)  
*cinerea* Breakey  
\***confusa** Breakey  
*erythrocephala* (G. & B.)  
*ferrugineoides* (V. D.)

\***fumipennis** (G. & B.), Delaware Co., June, 1944—(*crocea* (O. & B.))  
*gleditschiae* (O. & B.)  
*insignis* (V. D.)  
*nigricans* V. D.  
*osborni* Breakey  
\***quadrifaculata** Breakey, Hocking Co., Sept. 14, 1944.  
*reversalis* (O. & B.)  
\***robusta** Breakey, Lucas Co., June 21, 1943.  
*rufoccephala* Osborn  
*sordida* (V. D.)  
*suturalis* (O. & B.)  
*trimaculata* (Fitch)  
*tristis* (V. D.)  
*trivialis* (Ball)  
\***virescens** (Gmelin)  
var. *graminea* (Fabr.)  
*viridis* (Fitch)  
**Oncopsis** Burmeister  
*cognatus* (V. D.)  
\***fagi** (Fitch), common  
*fitchi* V. D.  
*minor* (Fitch)  
*nigrinasi* (Fitch)  
\***sobrius** (Walker)  
*variabilis* (Fitch)  
*verticis* (Say)—(*distinctus* (V. D.))  
**Nionia** Ball  
*palmeri* (V. D.)

## AGALLIINAE Kirkaldy

*Agalliopsis* Kirkaldy

\**cervina* Oman, Hocking Co., June 16, 1945.

*novella* (Say)—(*Agallia*)

\**peneoculata* Oman—(*Agallia oculata* V. D.), Little Mt., Aug. 24, 1904, J. G. Sanders, Williams Co., E. P. Breaky.

*Agallia* Curtis

*constricta* V. D.

*quadripunctata* (Prov.)

*Aceratagallia* Kirkaldy

*sanguinolenta* (Prov.)—(*Agallia*)

## BYTHOSCOPIINAE Dohrn

*Stragania* Stål

(*Penestrangania*) Beamer & Lawson

\**alabamensis* (Baker), Columbus, June 29, 1942.

*apicalis* (O. & B.)—(*Bythoscopus*)

## TETTIGONIELLIDAE Jacobi

*Aulacizes*

*irrorata* (Fabricius)

*Cuerna* Melichar

*lateralis* (Fabricius)—(*Oncometopia*)

\**limbata* (Say)

*Oncometopia* Stål

*undata* (Fabricius)

*Ciminius* Metcalf & Bruner

*hartii* (Ball)—(*Kolla*)

*Kolla* Distant

*bifida* (Say)

*geometrica* (Signoret)

*Helochara* Fitch

*communis* Fitch

*Graphocephala* V. D.

*coccinea* (Forster)

*versuta* (Say)

*Plesiommata* Provancher

*tripunctata* (Fitch)—(*Pagaronia*)

*Draeculacephala* Ball

*angulifera* (Walker)

\**antica* (Walker)

\**constricta* Davidson & DeLong

*inscripta* V. D.

*minor* (Walker)

*mollipes* (Say)

*prasina* (Walker)—(*noveboracensis*) (Fitch)

*Neokolla* Melichar

*gothica* (Signoret)—(*Cicadella*)

## EVACANTHINAE Baker

*Evacanthus* LaPeletier & Serville

*acuminatus* (Fabricius)

## GYPONINAE Stål

*Penthimia* Germar

*americana* Fitch

*Gypona* Germar

*melonata* Spångberg

*Gyponana* Ball

\**acia* DeLong, Columbus, June 20, 1945; Delaware Co., July 16; Hocking Co., July 26, 1945.

\**amara* DeLong

\**arcta* DeLong, on hemlock, Fairfield Co., July 10, 1945; Hocking Co., July 2, 1945.

\**brevihama* DeLong

\**cacumina* DeLong

\**conferta* DeLong

\**contractura* DeLong

\**expanda* DeLong

\**extenda* DeLong

\**flavilineata* (Fitch)

\**gladia* DeLong, Hocking Co., June 10, July 2, 1945.

\**lamina* DeLong

\**mali* DeLong

\**morosita* DeLong

*octolineata* (Say)—(*Gypona*)

\*var. *serpenta* DeLong, Fairfield Co., June 10, 1945.

\**ortha* DeLong, common

\**palma* DeLong

\**panda* DeLong

\**pingua* DeLong

\**protenta* DeLong

\**salsa* DeLong

\**scrupulosa* (Spångberg)

\**serrata* DeLong

*striata* (Burm.)

\**tenella* (Spångberg)

\**trigona* DeLong, Hocking Co., August 29, 1943.

\**tubera* DeLong

\**turbina* DeLong

*unicolor* (Stål)—(*Gypona*)

\**vasta* DeLong

*Rugosana* DeLong

\**querqi* DeLong—(*Gypona rugosa* Spångberg)

*Ponana* Ball

\**aenea* DeLong

*limbatipennis* (Spångberg)—(*scarlatina* var.)

*limonea* Ball & Reeves (*scarlatina* var.)

*pectoralis* (Spångberg)—(*scarlatina* var.)

*puncticollis* (Spångberg)

\**quadrilaba* DeLong

\**tubida* DeLong

*scarlatina* (Fitch)—(*rodora* Ball)

## LEDRINAE (Stål)

*Xerophloea* Germar

*majesta* Lawson

*major* Baker

*viridis* (Fabricius)

## DORYDIINAE V. D.

*Parabolocratus* Fieber

*flavidus* Signoret

*major* Osborn

\**rotundus* DeLong

*viridis* (Uhler)

## APHRODINAE Kirk.

*Aphrodes* Curtis

*albifrons* (Linn.)—(*Acucephalus*)

*bicinctus* (Schrank)—(*Acucephalus nervosus* (Schrank))

*flavostrigatus* (Donovan)—(*Acucephalus flavostriatus*)

*Xestocephalus* V. D.

*brunneus* V. D.

*coronatus* O. & B.

*nigrifrons* Osborn

*piceus* Osborn

- \*provancheri Knull  
 pulicarius V. D.  
 \*similis Peters, Columbus, August, 1944;  
 Delaware Co., August 9 and 24, 1944.  
 superbus (Prov.)  
 tessellatus Van Duzee
- ATHYSANINAE Van Duzee  
 Sanctanus Ball  
 sanctus (Say)—(*Scaphoideus*)  
 Scaphoideus Uhler  
 \*auctus DeLong & Mohr, Put-in-Bay, July  
 5, 1935, J. N. Knull.  
 \*baculus DeLong & Mohr, Columbus,  
 July 14 and 22, 1934, Whittington,  
 (A. C. Miller Collection).  
 \*bifurcatus DeLong & Mohr, Hocking Co.,  
 July 26, August 16, 1945; Fairfield Co.,  
 July 26, 1945.  
 carinatus Osborn  
 \*chelus DeLong and Beery, Fairfield Co.,  
 July 26; Hocking Co., July 2.  
 cinerosus Osborn  
 \*cylindratus DeLong & Beery, Hocking  
 Co., June 20 and July 26, 1945.  
 \*densus DeLong & Beery, Little Mt.,  
 August 21, 1904 (Osborn collection),  
 paratype.  
 \*dilatatus DeLong & Mohr, Delaware Co.,  
 August 2, 1945.  
 \*frisoni DeLong & Mohr, Fairfield Co.,  
 June 16, 1945.  
 immistus (Say)  
 incisus Osborn, common  
 flexus DeLong & Mohr, new synonymy  
 \*littoralis Ball, Columbus, July 27, 1944.  
 luteolus V. D.  
 major Osborn  
 melanotus Osborn  
 minor Osborn  
 \*nigrellus DeLong & Mohr, Morrow Co.,  
 August 20, 1938, E. S. Thomas; Dela-  
 ware Co., August 22, 1945; Medina Co.,  
 August 28, 1945.  
 nigricans Osborn  
 obtusus Osborn, Delaware Co., July 2  
 and 4, 1944; Hocking Co., July 10, 1945.  
 ochraceous Osborn  
 opalinus Osborn  
 productus Osborn  
 \*pullus DeLong & Mohr, Hocking Co., July  
 10, 1945; Pickaway Co., June 22, 1945.  
 \*scelestus DeLong & Mohr, Hocking Co.,  
 August 1, 1944; Franklin Co., July 14,  
 1942.  
 \*tergatus DeLong, Morrow Co., August 20,  
 1938, E. S. Thomas; Champaign Co., July  
 29, 1934, F. Whittington (A. C. Miller  
 Collection); Delaware Co., Aug., Sept.,  
 1944-45; Fairfield Co., July 26, 1945.  
 \*transesus DeLong & Beery, Hocking Co.,  
 July 2.  
 \*veterator DeLong & Beery, Fairfield Co.,  
 August 15, 1945.
- Lonenus DeLong  
 intricatus (Uhler)—(*Scaphoideus*)  
 Osbornellus Ball  
 \*alatus Beamer, Hocking and Fairfield  
 Counties.
- auronitens (Prov.)—(*Scaphoideus*)  
 \*clarus Beamer, Monroe Co., July 6, 1943.  
 consors (Uhler)—(*Scaphoideus*)  
 \*corniger Beamer, Columbus, July 27,  
 1944; Delaware Co., August 24, 1944.  
 jucundus (Uhler)—(*Scaphoideus*)  
 \*limosus DeLong, Hocking Co., August 1,  
 1944; September 3, 1943.  
 \*radix DeLong & Mohr, Columbus, July 28,  
 1928, C. C. B. Mayer.  
 \*rotundus Beamer  
 scalaris (V. D.)—(*Scaphoideus*)  
 unicolor Osborn—(*Scaphoideus*)  
 Prescottia Ball  
 lobata (V. D.)—(*Scaphoideus*)  
 Platymetopius Burmeister  
 vitellina (Fitch)—(*Platymetopius*)  
 Javanus Ball  
 hyalinus (Osborn)—(*Platymetopius*)  
 Scaphytopius (*Cloanthanus*) Ball  
 acutus (Say)—(*Platymetopius*)  
 \*angustatus (Osborn), Hocking Co., Octo-  
 ber 17, 1944, det. Hepner.  
 \*argutus (DeLong), Ashtabula Co., June  
 24, 1931, C. C. B. Mayer, det. Hepner.  
 \*bicolor (DeLong), Hocking Co., Sep-  
 tember 16, 1943; Fairfield Co., June 16,  
 1945.  
 cinereus (O. & B.)—(*Platymetopius*)  
 cuprescens (Osborn)—(*Platymetopius*)  
 frontalis (V. D.)—(*Platymetopius*)  
 fulvus (Osborn)—(*Platymetopius*)  
 \*hastus DeLong, Hocking Co., June, July,  
 August, October; Scioto Co., June  
 10, 17.  
 \*latus (Baker)  
 magdalensis (Prov.)—(*Platymetopius*)  
 \*nigrifrons (DeLong), Delaware Co., June  
 July; Hocking Co., July, September.  
 \*obscurus (Osborn)—(*Platymetopius*)  
 \*scriptus (Ball), Delaware Co., June, July,  
 August, September; Cedar Swamp,  
 September 5, 1941; Champaign Co.,  
 July 29, 1934, F. Whittington (A. C.  
 Miller Collection).  
 \*triangularis DeLong, Delaware Co., June,  
 July, September; Hocking Co., June,  
 September 14, 1944; Scioto Co., June  
 10, 17.
- Acurhinus Osborn  
 pyrops (Crumb)  
 Flexamia DeLong  
 abbreviata (O. & B.)—(*Deltocephalus*)  
 areolata (DeLong)—(*Deltocephalus*)  
 \*atlantica (DeLong)  
 imputans (O. & B.)—(*Deltocephalus*)  
 inflata (O. & B.)—(*Deltocephalus*)  
 picta (Osborn)—(*Deltocephalus*)  
 reflexa (O. & B.)—(*Deltocephalus*)  
 sandersi (Osborn)—(*Deltocephalus*)  
 \*stylata (Ball)  
 Latalus DeLong & Slesman  
 configuratus (Uhler)—(*Deltocephalus*)  
 sayi (Fitch)—(*Deltocephalus*)  
 Palus DeLong & Slesman  
 deflector (S. & D.)—(*Deltocephalus*)  
 Polyamia DeLong  
 apicata (Osborn)—(*Deltocephalus*)  
 compacta (O. & B.)—(*Deltocephalus*)

- inimica* (Say)—(*Deltocephalus*)  
*interrupta* (DeLong)—(*Deltocephalus*)  
*obtecta* (O. & B.)—(*Deltocephalus*)  
*weedi* (V. D.)—(*Deltocephalus*)  
**Laeviocephalus** DeLong  
*\*acus* (S. & DeL.), Scioto Co., June 10, 17, 1944; Hocking Co., September 16, 1943.  
*debilis* (Uhler)—(*Deltocephalus*)  
*melsheimerii* (Fitch)—(*Deltocephalus*)  
*minimus* (O. & B.)—(*Deltocephalus*)  
*\*parvulus* (Gill.), Scioto Co., June 1, 1945.  
*\*spicatus* (DeLong), Scioto Co., June 10, 17, 1944; Hocking Co., June 3, 1943.  
*striatus* (L.)—(*Deltocephalus*)  
*sylvestris* (O. & B.)—(*Deltocephalus*)  
*\*uhleri* Oman  
*unicoloratus* (O. & B.)—(*Deltocephalus*)  
**Amplicephalus** DeLong  
*osborni* (Van Duzee)—(*Deltocephalus*)  
*simplicius* (O. & B.)—(*Deltocephalus simplex* V. D.)  
**Deltocephalus** Burmeister  
*balli* V. D.  
*caperatus* Ball  
*flavicosus* (Stål)  
*\*pulchricornis* (Fallén)  
**Unerus** DeLong  
*\*colonus* (Uhler), Hocking Co., September 9, 1939.  
**Lonatura** O. & B.  
*catalina* O. & B.  
**Amblysellus** Slesman  
*curtsii* (Fitch)—(*Euscelis*)  
**Amphipyga** Osborn  
*balli* Osborn  
**Driotura** Osborn & Ball  
*gammaroides* (V. D.)  
*\*var. flava* O. & B., Cantwell Cliffs, August 11, 1934, Whittington (A. C. Miller Collection).  
*\*var. fulva* O. & B., Hocking Co., August 5, 1945, Whittington (A. C. Miller Collection).  
**Doratura** Sahlberg  
*\*stylata* (Bohemann), Oak Openings, Lucas Co., July 20, 1943.  
**Exitianus** Ball  
*obscurinervis* (Stål)—(*Euscelis*)  
**Limotettix** Sahlberg  
*parallelus* (V. D.)—(*Euscelis*)  
*striolus* (Fallén)—(*Euscelis*)  
**Euscelis** Brullé  
*extrusus* (V. D.)  
*sahlbergi* (Reuter)—(*deceptus* S. & DeLong)  
**Ophiola** Edwards  
*anthracina* (V. D.)—(*Euscelis*)  
*cornicula* (Marsh)—(*Euscelis plutonius* Uhler)  
*cuneata* (S. & DeL.)—(*Euscelis*)  
*\*osborni* Ball, Scioto Co., June 17, 1944.  
*striatula* (Fallén)—(*Euscelis*)  
*uhleri* (Ball)—(*Euscelis*)  
**Stirellus** O. & B.  
*bicolor* V. D.  
*\*convexus* Thomas  
*\*obtusus* V. D., Adams Co., October 12, J. S. Caldwell.  
**Aligia** Ball  
*\*modesta* (O. & B.), Delaware Co., August 2, 9, 1945; Fairfield Co., July 10, 1945.  
**Mesamia** Ball  
*nigridorsum* Ball  
*\*straminea* (Osborn)  
**Bandara** Ball  
*aurata* (Ball)—(*Eutettix*)  
*\*curvata* Knull  
*\*inflata* Knull  
*johnsoni* (V. D.)—(*Eutettix*)  
*\*parallela* Knull  
**Opsius** Fieber  
*stactogalus* Fieber—(*Eutettix*), common on larch.  
**Eutettix** Van Duzee  
*\*brunneus* Osborn, Delaware, Hocking, Fairfield, Licking and Medina Cos., *Carpinus*.  
*luridus* (V. D.)  
*marmoratus* V. D.  
*querci* G. & B.  
*southwicki* V. D.  
*subaenus* (V. D.)  
**Norvellina** Ball  
*chenopodii* (Osborn)—(*Eutettix*)  
*helenae* Ball  
*\*pulchella* (Baker), Athens, June 25, 1932, W. C. Stehr.  
*seminuda* (Say)—(*Eutettix*)  
**Menosoma** Ball  
*cincta* (O. & B.)—(*Eutettix*)  
**Orientus** DeLong  
*\*ishidae* (Mats.), Bexley, Columbus  
**Iowanus** Ball  
*\*borrori* (DeLong)  
*majestus* (O. & B.)—(*Phlepsius*)  
**Texanus** Ball  
*decorus* (O. & B.)—(*Phlepsius*)  
*rufusculus* (O. & L.)—(*Phlepsius*)  
*spatulatus* (V. D.)—(*Phlepsius*)  
**Paraphlepsius** Baker  
*apertus* (Van Duzee)—(*Phlepsius*)  
*brunneus* (DeLong)—(*Phlepsius*)  
*cinereus* (V. D.)—(*Phlepsius*)  
*collitus* (Ball)—(*Phlepsius*)  
*\*eberneolus* (O. & L.)—(*Phlepsius*)  
*fulvidorsum* (Fitch)—(*Phlepsius*)  
*fuscipennis* (V. D.)—(*Phlepsius*)  
*var. turpiculus* (Ball)—(*Phlepsius turpiculus*)  
*incisus* (V. D.)—(*Phlepsius*)  
*irroratus* (Say)—(*Phlepsius*)  
*maculosus* (Osborn)—(*Phlepsius*)  
*punctiscriptus* (V. D.)—(*Phlepsius*)  
*pusillus* (Baker)—(*Phlepsius*)  
*ramosus* Baker  
*\*slossonae* (Ball)—(*Phlepsius*)  
*solidaginis* (Walker)—(*Phlepsius nebulosus* V. D.)  
*strobi* (Fitch)—(*Phlepsius uhleri* V. D.)  
*tenessus* (DeLong)—(*Phlepsius*)  
*tigrinus* (Ball)—(*Phlepsius*)  
*truncatus* (V. D.)—(*Phlepsius*)  
*tullahomi* (DeLong)—(*Phlepsius*)  
**Fieberella** Signoret  
*\*florii* (Stål), Columbus, July, 1944, at light.

- Acinopterus** V. D.  
*acuminatus* V. D.  
**Idiodonus** Ball  
*kennicotti* (Uhler)—(*Thamnotettix*)  
**Colladonus** Ball  
*clitellarius* (Say)—(*Thamnotettix*)  
   \**var. marcidus* Ball  
**Colladonus** Ball  
*collaris* (Ball)—(*Thamnotettix*)  
*furcatus* (Osborn)—(*Thamnotettix*)  
**Doleranus** Ball  
*longulus* (O. & B.)—(*Thamnotettix*)  
*viduus* (Crumb.)—(*Chlorotettix*)  
**Atanus** Oman  
   \**perspicillatus* (O. & B.), Athens, Sep-  
   tember 2, 1933, W. C. Stehr; Columbus,  
   July, August, 1944, at light.  
**Thamnotettix** Zetterstedt  
*simplex* H. S.—(*Chlamydatus* (Prov.))  
**Cicadula** Zetterstedt  
*melanogaster* (Prov.)—(*Thamnotettix*)  
*cyperacea* (Osborn)—(*Thamnotettix*)  
**Elymana** DeLong  
*inornata* (V. D.)—(*Thamnotettix*)  
**Graminella** DeLong  
*fitchi* (V. D.)—(*Thamnotettix*)  
*nigrifrons* (Forbes)—(*Thamnotettix*)  
*pallidula* (Osborn)—(*Thamnotettix*)  
**Chlorotettix** V. D.  
   \**attenuatus* Brown  
   *balli* Osborn  
   *galbanatus* V. D.  
   \**iridescens* DeLong  
   *lusorius* (O. & B.)  
   *spatulatus* Osborn & Ball  
   *fergatus* (Fitch)  
   \**tunicatus* Ball, Hocking Co., June 26,  
   1944, September 14, 1944.  
   *unicolor* (Fitch)  
   \**vacunus* (Crumb), Hocking Co., Sep-  
   tember 16, 1943.  
   *viridius* Van Duzee  
**Davisonia** Dorst  
   \**delongi* Dorst  
   \**major* Dorst  
   *punctifrons* (Fallén)—(*Cicadula*)  
   *var. repleta* (Fieber)—(*Cicadula*)  
**Macrosteles** Fieber  
*divisa* (Uhler)—(*Cicadula sexnotata*  
   (Fallén))  
*lepida* (V. D.)—(*Cicadula*)  
*potoria* (Ball)—(*Cicadula*)  
   \**scripta* (DeLong)  
   *slossonae* (V. D.)—(*Cicadula*)  
   *variata* (Fallén)—(*Cicadula*)
- JASSINAE** Amyot & Serville  
**Jassus** Fabricius  
*borealis* Spångberg  
*melanotus* Spångberg  
*olitorius* Say  
**Neocoelidia** G. & B.  
*tumidifrons* G. & B.  
**Paracoelidia** Baker  
*tuberculata* Baker, Hocking Co., October  
   5, 1935, J. S. Caldwell.
- BALCLUTHINAE** Baker  
**Balclutha** Kirkaldy  
*abdominalis* (V. D.)—(*Eugnathodus*)
- impicta* (V. D.)  
   \**var. osborni* V. D.  
   \**var. maculata* Davidson & DeLong  
*punctata* (Thunberg)  
**Nesosteles** Kirkaldy  
   \**neglecta* (DeLong & Davidson)
- CICADELLINAE**  
**Alebra** Fieber  
*albostrisella* (Fallén)  
   *var. pallidula* (Walsh)  
   *var. agresta* McAtee  
   *var. fulveola* (H.-S.)  
   \**var. rubrafrons* DeLong, Columbus,  
   July, 1945; Delaware Co., July 8,  
   1945.  
   \**bicincta* DeLong, Delaware Co., August 9,  
   1945.  
   *fumida* Gillette  
**Dikraneura** Hardy  
*abnormis* (Walsh)  
*angustata* Ball & DeLong  
*cruentata* Gillette  
   *var. kansiensis* Lawson  
*maculata* Gillette  
*mali* (Prov.)  
   \**mera* McAtee, common on oak in southern  
   and central Ohio.  
*urbana* Ball & DeLong—(*abnormis* *var.*  
   *urbana*)  
**Alconeura** Ball & DeLong  
   \**macra* Griffith, Hocking Co., April 30  
**Forcipata** DeLong & Caldwell  
   \**loca* DeLong & Caldwell—(*Dikraneura*  
   *fieberti* (Löw))  
   \**ohioensis* DeLong & Caldwell  
**Empoasca** Walsh  
 Subgenus **Kybos** Fieber  
*albolinea* Gillette  
*atrolobes* Gillette  
*aureoviridis* (Uhler)  
*maligna* Walsh—(also as *denticula* Gillette)  
*obtusa* Walsh  
*osborni* Hartzell  
*patula* DeLong  
*pergandei* Gillette  
*smaragdula* (Fallén)  
*trifasciata* Gillette  
*unica* Provancher  
 Subgenus **Hebata** DeLong  
*alboneura* Gillette  
 Subgenus **Empoasca** Walsh  
*bicornis* DeLong & Caldwell  
*bifurcata* DeLong  
*birdiae* Goding—(*infusca* DeLong)  
*coccinea* Fitch  
*convergens* DeLong & Davidson  
   \**curvatura* Davidson & DeLong  
   \**davidsoni* DeLong—(*mucronata* Davidson  
   & DeLong)  
*distracta* DeLong & Caldwell  
*ditata* DeLong and Caldwell  
*erigeron* DeLong  
*fabae* (Harris)—(also as *flavescens* (Fab.))  
*hama* DeLong & Caldwell  
*junipera* DeLong  
*lata* DeLong & Caldwell  
*pallida* Gillette—(*constricta* DeLong &  
   Davidson)

- \*perlonga Davidson & DeLong  
 pyramidata DeLong & Caldwell  
 radiata Gillette  
 recta DeLong & Caldwell  
 recurvata DeLong  
 spira DeLong & Caldwell  
 torqua DeLong & Davidson  
 venusta DeLong & Davidson  
 vergena DeLong & Caldwell  
**Cicadella** Dumeril  
 clavalis (McAtee)—(*Eupteryx*)  
 flavoscuta (Gillette)—(*Eupteryx*)  
 \*melissae (Curtis), Put-in-Bay, September 18, 1945, on mint, Mary Auten Trautman, D. J. & J. N. Knull—(*Epteryx*)  
 nigra (Osborn)—(*Eupteryx*)  
**Typhlocyba** Germar  
**Ulmi** Group  
 \*foliosa Knull  
 \*piscator McAtee, Hocking Co., May 25, 1938; Delaware Co., September 9 and 10, 1943; Ashland Co., Mary Auten; Scioto Co., June 9, 1943, June 10, 1944.  
 \*sciotoensis Knull  
 \*ulmi Linn., Columbus, at light, summer of 1943. Knulls' residence, one female specimen.  
 unca McAtee  
**Rosae** Group  
 \*athene McAtee, Columbus, August, 1944.  
 aureotecta S. & DeL.  
 cymba McAtee  
 duplicata McAtee  
 froggatti Baker—(*xanthippe* McA.)  
 gillettei V. D.  
 var. apicata McAtee  
 var. casta McAtee  
 var. fitchi McAtee  
 var. russeola McAtee  
 \*var. saffrana McAtee, Delaware Co., May 21, July 2, Fairfield Co., June 16, 1945.  
 var. sellata McAtee  
 var. sincera McAtee  
 var. venusta McAtee  
 var. vestita McAtee  
 \*var. volans McAtee, Delaware Co., June 20, 1943.  
 \*hockingensis Knull  
 \*lancifer McAtee, Ashland Co., June 26, 1935, Mary Auten; Shawnee Forest, June 9, 1943; Columbus, A.I.U. Tower, June 21, Vergil Argo.  
 \*melite McAtee  
 modesta Gibson  
 phryne McAtee  
 pomaria McAtee  
 \*putmani Knull  
 rosae (L.)  
 rubriocellata (Malloch)  
 \*shawneeana Knull  
 tunicarubra Gillette  
**Danae** Group  
 antigone McAtee  
 appendiculata Malloch  
 berenice McAtee  
 \*eurydice McAtee, Clifton, June 14, 1938; Franklin Co., July 14, 1942; Monroe Co., July 6, 1943; Hocking Co., July 12, 1943.  
 \*hinei Knull  
 nicarete McAtee, common on oak  
**Hymetta** McAtee  
 anthisma McAtee  
 balteata Fairbairn  
 var. mediana Fairbairn  
 distincta Fairbairn  
 trifasciata (Say)  
**Erythroneura** Fitch  
**Vulnerata** Group  
 atrata Johnson  
 \*fulmina McA., Scioto Co., June 17, 1944  
 nigerrima McAtee  
 var. decora McAtee  
 nigra (Gillette)  
 pulchella Rob.  
 vulnerata Fitch  
**Obliqua** Group  
 abolla McAtee  
 aenea Beamer  
 \*alata Knull  
 albescens Beamer  
 alternata Johnson  
 \*amabilis McAtee, Fairfield Co., June 16, 1945.  
 autenae Johnson  
 bicornis Beamer  
 bitincta McAtee  
 brundusa Robinson  
 \*caerula Beamer  
 caldwelli Johnson  
 \*cauta Beamer  
 celebrata Johnson  
 clavata DeLong  
 \*coarctata Beamer  
 complicata Johnson  
 cornipes Beamer  
 \*cotidiana Beamer  
 crataegi Johnson  
 crevecoeuri (Gillette)  
 cruciformis Beamer  
 diffisa Beamer  
 \*divisa McAtee  
 dowelli Beamer  
 electa McAtee  
 eluta McAtee  
 fragilis Johnson  
 fulvocephala Robinson  
 fumida (Gillette)  
 funesta Robinson  
 gleditsia Beamer  
 hamata Beamer  
 harpax Beamer  
 \*iconica McAtee  
 \*idonea Beamer  
 inconspicua Johnson  
 \*infinita Beamer  
 intricata Johnson  
 kanza Robinson  
 latapex Beamer  
 lawsoniana Baker  
 magnacalx Beamer  
 minima Johnson  
 minuta Johnson  
 modica Beamer  
 noeva (Gillette)  
 nondescripta Johnson  
 obliqua (Say)  
 penelutea Beamer

- \*perita Beamer  
 plena Beamer  
 \*praecisa Knull  
 repleta Johnson  
 rubens Beamer  
 rubrataeniensis Beamer  
 rubroscuta (Gillette)  
 rubrotincta Johnson  
 rufostigmosa Beamer  
   var. subnila Beamer  
 \*sagittata Beamer  
 sincera Johnson  
 sinua Johnson  
 spatulata Beamer  
 \*spearca Auten & Johnson, Hocking Co.,  
   April 17, 1938, October 17, 1941;  
   Shawnee Forest, June 9, 1943.  
 stolata McAtee  
 stylata Johnson  
 \*tenebrosa Knull  
 tenuispica Beamer  
 \*torva Beamer  
 tridens Beamer  
 unicuspidis Beamer  
 volucris Beamer  
**Maculata Group**  
 abjecta Beamer  
 accola McAtee  
 aculeata Beamer  
 adunca Beamer  
 aesculi Beamer  
 affinis Fitch  
 arta Beamer  
 certa Beamer  
 basilaris (Say)  
 bella McAtee  
 \*bifida Beamer, Ashland Co., June 16,  
   Mary Auten.  
 bigemina McAtee  
 bispinosa Beamer  
 calamitosa Beamer  
 campora Robinson  
 carmini Beamer  
 certa Robinson  
 \*clara Beamer, Coal Grove, April 24, 1934,  
   J. S. Caldwell; Lawrence Co., April 29,  
   J. S. Caldwell.  
 clavipes Beamer  
 \*concosa Beamer, Hocking Co., July 14,  
   1934, Mary Auten; Cedar Swamp,  
   September 5, 1941.  
 confirmata Beamer  
 \*consueta Beamer, Hocking Co., May 13,  
   1934, D. M. Johnson; July 14, 1934,  
   Mary Auten.  
 contracta Beamer  
 \*corylorubra Knull  
 crinita Beamer  
 curta Beamer  
 \*curvata Beamer, Hocking Co., June 1, 1938.  
 dira Beamer  
 dumosa Beamer  
 \*era McAtee, Pickaway Co., February 20,  
   J. S. Caldwell.  
 \*firma Beamer, Pickaway Co., February 20,  
   J. S. Caldwell.  
 \*forfex Beamer, Pickaway Co., March 31,  
   1934; February 20, and Jackson Co.,  
   April 1, J. S. Caldwell.
- gemina McAtee  
 hartii (Gillette)  
 hymac Robinson  
 illinoiensis (Gillette)  
   var. spectra McAtee  
 \*impar Beamer, Port Clinton, May 4, 1934;  
   Pickaway Co., February 20, J. S.  
   Caldwell.  
 \*incondita Beamer, Hocking Co., April 15,  
   1934, J. S. C.; May 27, 1934, D. M.  
   Johnson; Pickaway Co., March 31, 1934,  
   February 20, J. S. Caldwell; Hocking  
   Co., May 5.  
 \*inepta Beamer, Hocking Co., March 27,  
   1938, Mary Auten.  
 \*ingrata Beamer, Chesapeake, April 29,  
   1934, J. S. Caldwell; Pickaway Co.,  
   February 20, J. S. Caldwell.  
 kansana Baker  
 knighti Beamer  
 lawsoni Robinson  
 \*lenta Beamer, Hocking Co., May 5,  
   April 1, 1938, and June 28.  
 lunata McAtee  
 maculata (Gillette)  
 manus Beamer  
 marra Beamer  
 minor Beamer  
 mira Beamer  
 mirifica Beamer  
 morgani (DeLong)  
 \*nigriventer Beamer, Hocking Co., May 8,  
   1937; Jackson Co., April 1, J. S.  
   Caldwell.  
 noncuspidis Beamer  
 osborni (DeLong)  
 \*pallida Knull & Auten, Hocking Co.,  
   March 27, 1938, Mary Auten.  
 parallela McAtee  
 \*parva Beamer, Jackson Co., April 1, 1934,  
   J. S. Caldwell.  
 \*parvipes Beamer, Pickaway Co., February  
   20, J. S. Caldwell.  
 penesica Beamer  
 propria Beamer  
 pyra McAtee  
 \*restricta Beamer, Pickaway Co., March  
   31, 1934, J. S. Caldwell; Hocking Co.,  
   May 5, June 28.  
 retusa Beamer  
 rotunda Beamer  
 \*rubranotata Beamer, Coal Grove, April 24,  
   1934, J. S. Caldwell.  
 rubraza Robinson  
 sancta Beamer  
 separata Beamer  
 \*spinifera Beamer, Hocking Co., May 5,  
   June 1, 1938.  
 tantilla Beamer  
 torella Robinson  
 triangulata Beamer  
 trivittata Robinson  
 turgida Beamer  
 \*uncinata Beamer, Hocking Co., June 28.  
 unica Beamer  
 usitata Beamer  
**Tecta Group**  
 ligata McAtee  
 rosa Robinson

- tecta** McAtee  
**Comes** Group  
**aclys** McAtee  
**acuticephala** Robinson  
**amanda** McAtee  
**\*aza** Robinson, Cedar Swamp, April 24, 1934, J. S. Caldwell; Delaware Co., August 20, 1943; Hancock Co., August 7, 1939, Mary Auten.  
**beameri** Robinson  
**\*bidens** McAtee, Clifton, June 14, 1938; Hocking Co., June 5 and 19, 1938; Scioto Co., June 10, 1944.  
**bistrata** McAtee  
     var. **stricta** McAtee—(*vitis* var.)  
**calycula** McAtee—(*tricincta* var.)  
**cancellata** McAtee  
**comes** (Say)  
**compta** McAtee  
     var. **rufomaculata** McAtee  
**corni** Robinson  
**cymbium** McAtee—(*tricincta* var.)  
**delicata** McAtee—(*lacta* Rob.)  
     var. **accepta** McAtee—(*scripta* McA.)  
**diva** McAtee—(*tricincta* var.)  
**elegans** McAtee  
**\*festiva** Beamer, Knox Co., September 17, Mary Auten; Richland Co., October 6, Mary Auten; Scioto Co., June 17, 1944.  
**\*fraxa** Robinson, Coal Grove, April 29, 1934, J. S. Caldwell; Scioto Co., June 17, 1944.  
**infuscata** (Gillette)  
**integra** McAtee—(*tricincta* var.)  
**kanwakae** Robinson  
**\*kennedyi** Knull  
**noncincta** Johnson—(*calycula* var.)  
**nudata** McAtee—(*attenuata* Johnson)  
**omaska** Robinson  
**ontari** Robinson  
**palimpsesta** McAtee  
**pontifex** McAtee—(*breakyei* Johnson)  
**\*prima** Beamer, Hocking Co., August 16, 1945.  
**prosata** Johnson—(*infuscata* var.)  
**reflecta** McA.—(*portea* Rob.)  
**rubra** (Gillette)  
**rubrella** McAtee  
**tricincta** Fitch  
**vaga** Johnson  
**\*vagabunda** Knull  
**vitifex** Fitch  
**vitis** (Harris)  
     var. **corona** McAtee  
**ziczac** Walsh  
     var. **walshi** Beamer, Ashland Co., May 8, Mary Auten.