

**A CATALOGUE OF THE DESCRIBED JASSOIDEA
OF NORTH AMERICA.**

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The present is a first attempt to catalogue the described North American forms of the lower families of the Homoptera-Cicadina. Although doubtless incomplected, in some respects, it is hoped that it may prove of value to the American students of this group of insects.

The classification and arrangement here adopted is substantially that proposed by the writer in his "Synopsis" published in these TRANSACTIONS, vol. xix, pp. 296-300, December, 1892. The superfamily term there suggested includes those families in which the hind tibiæ are multispinose. These in our North American fauna are Ulopidae, Ledridæ, Bythoscopidae, Tettigonidae and Jassidae. The first of these might, perhaps, be removed from this series, and the second united with the Tettigonidae as a subfamily of equal value with Gyponina and Tettigonina. The position assigned to family Bythoscopidae is purely arbitrary, as it strictly parallels the Jassidae, to which it is allied by *Macropsis*, and in a linear arrangement might with equal propriety follow the Tettigonidae.

No pains has been spared to bring the synonymy up to date, and it is believed that the catalogue represents very nearly the present state of our knowledge of the North American Jassoidea. The arrangement of the references under each species is intended to exhibit its history from its first publication to the present time, giving the authority for each change and the date of its publication.

In the case of the genera and higher groups references will be found to all the more important European works. Where a species occurs also in Europe this has not been attempted, but in the works cited will be found a good description, or at least full references, from which the literature of the species may be easily ascertained. All references to the American literature of the group has been included, except in the Typhlocybina, where no attempt has been made to complete the record, nor has any search been made through the voluminous literature on economic entomology issued by the numer-

ous Agricultural Experiment Stations throughout the country. The object has been to assist the beginner in naming his material and determining the geographical distribution and systematic position of the genera and species he may meet with. As so many of our southern forms have been described from material obtained from stations beyond the limits of the United States, all species recorded from Mexico and the West Indies have been included.

The accompanying bibliography embraces all books and papers referred to in the catalogue and will serve as an index to its completeness. The list of localities affixed to each species is, in most instances, very incomplete, and shows how little is now known of their geographical distribution. The index includes genera and synonyms only. All names *in italics*, whether of genera or species, must be looked for in the catalogue among the synonyms. Any North American species that does not appear in the catalogue in the genus under which it was described, should be found under that generic name in the index.

The nomenclature of the Typhlocybina is little more than a copy of Mr. C. W. Woodworth's work on this subfamily published in vol. v of "Psyche," pp. 211-214. In the Jassidæ and Bythoscopidæ the author has studied nearly all the species and assumes much of the responsibility for the synonymy adopted. While in the Tettigonidæ the labors of Stal, Signoret and Spangberg have furnished the authority for most of the references.

The following summary will afford an idea of the proportion in which the several families are represented in our fauna :

	genera.	species.
ULOPIDÆ.....	1	1
LEDRIDÆ.....	1	1
BYTHOSCOPIDÆ.....	7	47
TETTIGONIDÆ.....	20	176
JASSIDÆ.....	29	187
Total.....	58	412

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CATALOGUE.

Superfamily JASSOIDEA.

- Cicadellina* Burm., Handb. d. Ent. ii, 1, pp. 102, 103, 1835 (includes Cercopidæ).
Packard, Guide 5th ed. p. 53, 1876 (includes Cercopidæ).
- Serripedes* Am. and Serv., Hemip. pp. lxiii and 569, 1843 (omits *Ulopa*). Walker,
Homop. iii, p. 732, 1851 (omits *Ulopa*).
- Tettigoniidæ* Fitch, Homop. N. Y. State Cab. p. 55, 1851. Fitch, do. reprint in
Lintner's 9th Rept. p. 395, 1893.
- Jassina* Stal, Stet. Ent. Zeit. xix, p. 234, 1858 (omits *Ulopa*). Dohrn, Catalogus
Hemip. p. 83, 1859. Stal, Stet. Ent. Zeit. xxv, p. 73, 1864. Kirschb., Cicad.
v. Wiesbd. p. 14, 1868. Stal, Of. Vet. Ak. Förh. xxvii, p. 727, 1871 (in part).
Sahlbg., Cicad. p. 67, 1871.
- Jassida* Stal, Hemip. Af. iv, pp. 83, 99, 1866. Stal, Hemip. Fabr. ii, p. 58, 1869.
Fieb., Kat. Europ. Cicad. p. 8, 1872 (omits *Ulopa* and *Ledra*); Cicad. d'Europ.
i, pp. 44, 99, 1875 (omits *Ulopa* and *Ledra*). Mayr, Tabellen p. 25, 1884
(omits *Ulopa* and *Ledra*).
- Jassidæ* Fieb., Verh. Zool.-Bot. Gesell. Wien, xvi, p. 500, 1866. Berg, Hemip.
Argent. p. 249, 1879. Woodworth, Bull. Ill. State Labr. Nat. Hist. iii, p. 9,
1887. Packard, Ent. for Beginners, p. 82, 1890. Osborn, Proc. Iowa Acad.
Sci. i, pt. 2, p. 11, 1892.
- Jassides* Sign., Ann. Soc. Ent. Fr. ser. 5, ix, p. 47, 1879. Puton, Cat. Hemip.
Palæ. p. 76, 1886.
- Jassoidea* Van Duzee, Trans. Am. Ent. Soc. xix, p. 295, 1892.

Family ULOPIDÆ.

- Ulopidæ* Am. and Serv., Hemip. pp. lxiii and 557, 1843 (group). Walker,
Homop. iii, p. 650, 1851 (subtribe). Sahlbg., Cicad. p. 72, 1871 (tribe).
- Ulopidæ* Dohrn, Catalogus Hemip. p. 83, 1859. Kirschb., Cicad. v. Wiesbd. p. 14,
1868 (subfam.). Edwards, Trans. Ent. Soc. Lond. 1886, p. 45. Van Duzee,
Trans. Am. Ent. Soc. xix, p. 296, 1892.
- Ulopida* Fieb., Kat. Europ. Cicad. p. 7, 1872 (family). Fieb., Cicad. d'Europ. i,
p. 42, 1875. Mayr, Tabellen, p. 24, 1884.
- Ulopiini* Puton, Cat. Hemip. Palæ. p. 76, 1886 (tribe).

Genus ULOPA Fall.

- Fallen, Spec. Nova Hemip. Disp. Meth. Exh. p. 19, 1814. Germ., Mag. der Ent.
iv, p. 54, 1821. Fallen, Hemip. Sueciæ, Cicad. p. 65, 1826. Gray, Griffith's
Animal Kingd. xv, p. 226, 1832. Burm., Handb. d. Ent. ii, 1, pp. 104, 106,
1835. Westw., Intro. Mod. Classif. Ins. ii, Synop. p. 116, 1840. Burm., Gen.
Ins. i, genus 3, *Ulopa*, 1840. Am. and Serv., Hemip. p. 557, 1843. Walker,
Homop. iii, p. 650, 1851 (mention). Stal, Hemip. Af. iv, p. 102, 1866.
Kirschb., Cicad. v. Wiesbd. pp. 14, 68, 1868. Sahlb., Cicad. p. 370, 1871.
Fieb., Cicad. d'Europ. i, p. 96, 1875, and ii, pl. 9, 1876. Mayr, Tabellen, p.
24, 1884. Edwards, Trans. Ent. Soc. Lond. 1886, p. 102, pl. 1. fig. 26.

Ulopa canadensis Van Duzee, Trans. Am. Ent. Soc. xix, p. 301, 1892. Harrington, Ottawa Nat. viii, p. 67, 1894.

Ulopa n. sp. Harrington, Ottawa Nat. vi, p. 32, 1892.

Hab.—Canada, New York.

Family LEDRIDÆ.

Scarides Am. and Serv., Hemip. p. 576 1843 (in part).

Ledridæ Kirschb., Cicad. v. Wiesbd. p. 14, 1868; Edwards, Trans. Ent. Soc. Lond. 1886, pp. 45, 101. Van Duzee, Trans. Am. Ent. Soc. xix, p. 296, 1892.

Ledrina Stal, Of. Vet. Ak. Förh. xxvii, p. 731, 1870 (in part).

Ledrides Sahlbg., Cicad. pp. 67, 101, 1871 (tribe).

Scarida Fieb., Cicad. d'Europ. i. p. 44, 1875 (family). Mayr, Tabellen p. 25, 1884 (family).

Ledrini Puton, Cat. Hemip. Palæ. p. 77, 1886 (tribe).

Ledrinæ Ashmead, in Smith's Cat. Ins. of N. J. p. 443, 1890.

Genus LEDRA Fabr.

Fabr., Syst. Rhyng. pp. vii and 24, 1803. Germ., Mag. d. Ent. iv, p. 54, 1821. Gray, Griffith's Animal Kingd. xv, p. 226, 1832. Burm., Handb., d. Ent. ii, 1, pp. 105, 116, 1835; Gen. Ins. i, pl. 9, *Ledra*, 1840. Westw., Intro. Mod. Classif. of Ins. ii, Synop. p. 116, 1840. Am. and Serv., Hemip. p. 576, 1843. Walker, Homop. iii, p. 809, 1851 (notice). Stal, Of. Vet. Akad. Förh. xix, p. 495, 1862 (notice). Kirschb., Cicad. v. Wiesbd. pp. 14, 70, 1868. Sahlbg., Cicad. p. 101, 1871. Fieb., Cicad. d'Europ. i, p. 99, pl. 11, fig. 38, 1875; and ii, pl. 9, 1876. Mayr, Tabellen p. 25, 1884. Edwards, Trans. Ent. Soc. Lond. 1886, p. 101, pl. 1, fig. 25.

Ledra perdita Am. and Serv., Hemip. p. 577, pl. 11, fig. 5, 1843; Walker, Homop. iii, p. 810, 1851 (mention).

Hab.—Pennsylvania (Am. and Serv.)

Family BYTHOSCOPIDÆ.

Bythoscopidæ Dohrn, Catal. Hemip. p. 84, 1859 (includes *Typhlocybina*). Kirschb., Cicad. v. Wiesbd. p. 16, 1868 (subfamily). Fieb., Kat. Europ. Cicad. p. 8, 1872; Cicad. d'Europ. i, p. 100, 1875 (subfamily). Mayr, Tabellen p. 25, 1884. Edwards, Trans. Ent. Soc. Lond. 1886, pp. 45 and 104. Ashmead, Ent. Am. iv, p. 67, 1888; and v, p. 125, 1889. Van Duzee, Ent. Am. v, p. 165, 1889; Trans. Am. Ent. Soc. xix, p. 296, 1892. Cockerell, Trans. Am. Ent. Soc. xx, p. 365, 1893.

Bythoscopides Sahlbg., Cicad. p. 68, 1871 (tribe). Sign., Ann. Soc. Fr. ser. 5, ix, p. 48, 1879.

Bythoscopina Berg, Hemip. Argent. p. 276, 1879.

Bythoscopini Puton, Cat. Hemip. Palæ. p. 77, 1886 (tribe).

Genus MACROPSIS Lewis.

Lewis, Trans. Ent. Soc. Lond. i, p. 49, 1834. Am. et Serv., Hemipteres p. 585, 1843. Fieb., Verh. zool.-bot. Gesell. in Wien xviii, p. 449, 1868. Kirschb., Cicad. v. Wiesbd. p. 16, 1868. Stal, Hemip. Af. iv, p. 126, 1866. Sahlbg.,

Cicad. p. 113, 1871. Fieb., Cicad. d'Europ. i, p. 101, 1875. Mayr, Tabellen p. 26, 1884. Edwards, Trans. Ent. Soc. Lond. 1886, p. 104. Ashmead, Ent. Am. v, p. 126, 1889.

Oncopsis Burm., Gen. Ins. i, genus *Bythoscopus*, 1846.

Stragania Stal, Rio Janeiro Hemip. ii, p. 49, 1862.

Macropsis humilis Stal.

Stragania humilis Stal, Stet. Ent. Zeit. xxv, p. 85, 1864.

Hab.—Mexico.

Macropsis missella Stal.

Stragania missella Stal, Stet. Ent. Zeit. xxv, p. 85, 1864.

Hab.—Mexico.

Genus **PACHYOPSIS*** Uhler.

Uhler, Bull. U. S. Geol. and Geog. Surv. iii, p. 466, 1877. Ashmead, Ent. Am. v, p. 125, 1889.

Pachyopsis lætus Uhler, Bull. U. S. Geol. and Geog. Surv. iii, p. 466, 1877. Cockerell, Trans. Am. Ent. Soc. xx, p. 365, 1893.

Hab.—Colorado.

Pachyopsis robustus Uhler, Bull. U. S. Geol. and Geog. Surv. iii, p. 467, 1877.

Hab.—Colorado, New Mexico, Texas, California.

Genus **BYTHOSCOPIUS** Germ.

Germ., Silb. Rev. i, p. 180, 1833. Burm., Handb. d. Ent. ii, 1, pp. 104, 109, 1835; Gen. Ins. i, pl. 10, Gen. *Bythoscopus*, 1840. Am. aud Serv., Hemip. p. 584, 1843. Kirsch., Cicad. v. Wiesbd. p. 16, 1868; Die Gatt. Idiocerus, p. 4, 1868. Fieb., Verh. zool.-bot. Gesell. Wien, xviii, p. 450, 1868; Cicad. d'Europ. i, p. 102, 1875; and ii, pl. 9, 1876. Berg, Hemip. Argent. p. 276, 1879. Mayr, Tabellen, p. 27, 1884. Edwards, Trans. Ent. Soc. London, 1886, p. 105, pl. 2, fig. 1. Ashmead, Ent. Am. v, p. 126, 1889. Van Duzee, Ent. Am. vi, p. 221, 1890. Prov., Pet. Faune Ent. Can. ii, p. 287, 1890.

Bythoscopus variabilis (Fitch).

♀ *Athystunus variabilis* Fitch, Homop. N. Y. State Cab p. 60, 1851; id. reprint in Lintner's 9th Rept. p. 400, 1893; Trans. N. Y. State Ag. Soc. xviii, p. 853, 1858. Rathvon, Mombert Hist. of Lancaster Co., Pa., p. 551, 1869. Packard, Bull. 7, U. S. Ent. Comm. p. 128, 1881 (after Fitch); Fifth Rept. U. S. Ent. Comm. p. 512, 1890 (after Fitch).

Bythoscopus variabilis Walk., Homop. iii, p. 876, 1851 (mention). Prov., Pet. Faune Ent. Can. iii, p. 289, 1890 (*variegatus*). Van Duzee, Ent. Am. vi, p. 223, 1890; Psyche v, p. 390; in Lintner's 9th Rept. p. 410, 1893. Harrington, Ottawa Nat. vi, p. 31, 1892 (mention); Can. Ent. xxvi, p. 16, 1894 (mention).

Pediopsis variabilis Van Duzee, Can. Ent. xxi, p. 9, 1889 (mention).

Macropsis clitellarius Prov., Nat. Can. iv, p. 377, 1872 (= var. D).

* This genus is probably equivalent to *Macropsis* Lewis.

♂ *Athysanus abietis* Fitch, Homop. N. Y. State Cab. p. 60, 1851; id. reprint in Lintner's 9th Rept. p. 400, 1893; Trans. N. Y. State Ag. Soc. xvii, 748, 1857; and xviii p. 854, 1858. Packard, Bull. 7, U. S. Ent. Comm. pp. 129, 235, 1881 (after Fitch); Fifth Rept. U. S. Ent. Comm. pp. 512, 854, 1890 (after Fitch). Rathvon, Mombert Hist. of Lancaster Co., Pa., p. 551, 1869 (mention).

Bythoscopus abietis Walker, Homop. iv, p. 1162, 1852 (mention).

Hab.—Canada, New York, New England.

Bythoscopus sobrius Walker, Homop. iii, p. 874, 1851. Van Duzee, Ent. Am. vi, p. 224, 1890. Harrington, Ottawa Nat. vi, p. 31, 1892 (mention); Can. Ent. xxvi, p. 16, 1894 (mention). Slosson, Ent. News v, p. 5, 1894 (mention).

Hab.—Canada, New York, White Mountains, Michigan.

Bythoscopus cognatus Van Duzee, Ent. Am. vi, p. 225, 1890.

Hab.—Canada, New York.

Bythoscopus fenestratus (Fitch).

Athysanus fenestratus Fitch, Homop. N. Y. State Cab. p. 60, 1851. Fitch, id. reprint in Lintner's 9th Rept. p. 400, 1893; Trans. N. Y. State Ag. Soc. xviii, p. 853, for 1858. Packard, Bull. 7, U. S. Ent. Comm. p. 128, 1881 (after Fitch); Fifth Rept. U. S. Ent. Comm. p. 512, 1890 (after Fitch). Rathvon, Mombert Hist. of Lancaster Co., Pa., p. 551, 1869 (mention).

Bythoscopus fenestratus Walker, Homop. iv, p. 1162, 1852 (mention). Prov., Pet. Faune Ent. Can. iii, p. 289, 1890. Van Duzee, Ent. Am. vi, p. 225, 1890; Psyche v, p. 390, 1890. Harrington, Ottawa Nat. vi, p. 31, 1892. Van Duzee, in Lintner's 9th Rept. p. 410, 1893.

Pediopsis fenestratus Van Duzee, Can. Ent. xxi, p. 9, 1889.

Pediopsis flavescens Prov., Nat. Can. iv, p. 376, 1872; Pet. Faune Ent. Can. iii, p. 295, 1890.

Hab.—Canada, New York, North Carolina.

Bythoscopus pruni Prov., Pet. Faune Ent. Can. iii, p. 290, 1890. Van Duzee, Ent. Am. vi, p. 226, 1890. Harrington, Ottawa Nat. vi, p. 31, 1892 (mention); Can. Ent. xxvi, p. 16, 1894 (mention). Slosson, Ent. News v, p. 5, 1894 (mention).

Hab.—Canada, New York, New England, Brit. America, Mountains of Colorado.

Bythoscopus minor (Fitch).

Athysanus minor Fitch, Homop. N. Y. State Cab. p. 60, 1851. Fitch, id. reprint in Lintner's 9th Rept. p. 400, 1893; Trans. N. Y. State Ag. Soc. xviii, p. 583, 1858. Rathvon, Mombert Hist. of Lancaster Co., Pa., p. 551, 1869. Packard, Bull. U. S. Ent. Comm. p. 128, 1881 (after Fitch); Fifth Rept. U. S. Ent. Comm. p. 512, 1890 (after Fitch).

Bythoscopus minor Walk., Homop. iii, p. 876, 1851. Van Duzee, Ent. Am. vi, p. 227, 1890; Psyche v, p. 390, 1890; in Lintner's 9th Rept. p. 410, 1893.

Pediopsis minor Van Duzee, Can. Ent. xxi, p. 9, 1889.

Macropsis ocellatus Prov., Nat. Can. iv, p. 377, 1872.

Hab.—Canada, New York, Maryland.

Bythoscopus nigrinasi (Fitch).

Athysanus nigrinasi Fitch, Homop. N. Y. State Cab. p. 61, 1851; id. reprint in Lintner's 9th Rept. p. 401, 1893.

Bythoscopus nigrinasi Walker, Homop. iv, p. 1162, 1852. Van Duzee, Ent. Am. vi, p. 228, 1890; Psyche v, p. 390, 1890; in Lintner's 9th Rept. p. 410, 1893.

Hab.—Canada, New York, Connecticut, N. Carolina, Michigan.

Bythoscopus distinctus Van Duzee, Ent. Am. vi, p. 224, 1890.

Hab.—New York, Maryland, North Carolina, Illinois, Michigan.

Bythoscopus fagi (Fitch).

Athysanus fagi Fitch, Homop. N. Y. State Cab. p. 61, 1851. Fitch, id. reprint in Lintner's 9th Rept. p. 401, 1893.

Bythoscopus fagi Walk., Homop. iv, p. 1162, 1852 (mention). ? Van Duzee, in Lintner's 9th Rept. p. 410, 1893 (reference).

Hab.—New York (Fitch).

Bythoscopus flavus Walker, Homop. iii, p. 875, 1851.

Hab.—"Hudson's Bay."

Bythoscopus peregrinans Stal., Frega Eugenae Resa, Ins. p. 291, 1859. Berg, Hemip. Argent. p. 276, 1879.

Hab.—California, etc.

Genus PEDIOPSIS Burm.

Burm., Gen. Ins. pl. 10, *Bythoscopus*, 1840. Am. and Serv., Hemip. p. 536, 1843. Stal., Hemip. Af. iv, p. 128, 1866. Kirschb., Der Gatt. Idiocerus p. 4, 1868; Cicad. v. Wiesb. pp. 16, 169, 1868. Fieb., Verh. zool.-bot. Gesell. Wien, xviii, p. 450, 1868. Sahlbg., Cicad. pp. 68, 116, 1871. Fieb., Cicad. d'Europ. i, p. 102, 1875, pl. 11, figs. 41, 42; and ii, pl. 9, 1876. Mayr, Tabellen p. 27, 1884. Edwards, Trans. Ent. Soc. Lond. 1886, p. 108, pl. ii, fig. 6. Ashmead, Ent. Am. v, p. 125, 1889. Van Duzee, Ent. Am. v, p. 167, 1889. Prov., Pet. Faune Ent. Can. iii, p. 293, 1890.

Macropsis Westw., Intr. Mod. Classif. of Ins. ii, Synop. p. 117, 1840.

Pediopsis viridis Fitch, Homop. N. Y. State Cab. p. 59, 1851; id. reprint in Lintner's 9th Rept. p. 399, 1893. Uhler, Bull. U. S. Geol. and Geog. Surv. iii, p. 467, 1877. Van Duzee, Can. Ent. xxi, p. 9, 1889; Ent. Am. v, p. 170, 1889. Prov., Pet. Faune Ent. Can. iii, p. 294, 1890. Van Duzee, Psyche, v, pp. 238, 388, 1890 (mention). Harrington, Ottawa Nat. vi, p. 31, 1892 (mention). Osborn, Proc. Iowa Acad. Sci. i, pt. 2, p. 12, 1892 (mention).

Bythoscopus viridis Walker, Homop. iv, p. 1162, 1852.

Hab.—Canada, New York, Maryland, Iowa, Colorado, Kansas.

Pediopsis occidentalis Van Duzee, *Psyche* v, p. 238, 1889.

Hab.—California.

Pediopsis sordida Van Duzee, *Can. Ent.* xxvi, p. 89, 1894.

Hab.—Colorado.

Pediopsis basalis Van Duzee, *Ent. Am.* v, p. 171, 1889. *Prov., Pet. Faune Ent. Can.* iii, p. 295, 1890.

Hab.—Canada.

Pediopsis ferruginoides Van Duzee, *Ent. Am.* v, p. 171, 1889.

Hab.—Montana.

Pediopsis insignis Van Duzee, *Ent. Am.* v, p. 171, 1889; *Can. Ent.* xxii, p. 249, 1890 (mention). *Prov., Pet. Faune Ent. Can.* iii, p. 295, 1890. *Harrington. Ottawa Nat.* vi, p. 31, 1892 (mention). *Osborn, Proc. Iowa Acad. Sci.* i, pt. 2, p. 12, 1892 (mention).

Hab.—Canada, New York, Michigan, Iowa, Kansas.

Pediopsis tristis Van Duzee, *Can. Ent.* xxii, p. 249, 1890. *Osborn, Proc. Iowa Acad. Sci.* i, pt. 2, p. 12, 1892 (mention).

Pediopsis trimaculata Fitch, *Homop. N. Y. State Cab.* p. 60, 1851; id. reprint in *Lintner's 9th Rept.* 400, 1893. *Van Duzee, Ent. Am.* v, p. 172, 1889; *Psyche*, v, p. 388, 1890 (mention). *Harrington, Ottawa Nat.* vi, p. 31, 1892.

Bythoscopus trimaculatus Walk., *Homop.* iv, p. 1162, 1852.

Hab.—Canada, New York.

Pediopsis bifasciata Van Duzee, *Ent. Am.* v, p. 173, 1889.

Hab.—Canada.

Pediopsis canadensis Van D.

Pediopsis flavescens Van Duzee, *Ent. Am.* v, p. 173, 1889.

Pediopsis canadensis Van Duzee, *Can. Ent.* xxii, p. 111, 1890.

Hab.—Canada, New York.

Pediopsis nubila Van Duzee, *Ent. Am.* vi, p. 37, 1890.

Hab.—California.

Pediopsis punctifrons Van Duzee, *Ent. Am.* v, p. 174, 1889.

Hab.—Arizona.

Genus IDIOCERUS Lewis.

Lewis, *Trans. Ent. Soc. Lond.* i, p. 47, 1836. *Burm., Gen. Ins.* i, pl. 10, *Bythoscopus*, 1840. *Am. and Serv., Hemip.* p. 585, 1843 (notice). *Fieb., Verh. zool.-bot. Gesell. Wien*, xviii, p. 450, 1868. *Kirschb., Der Gatt. Idiocerus* pp. 3 and 4, 1868; *Cicad. v. Wiesbd.* pp. 16, 152, 1868. *Sahlbg., Cicad.* pp. 69, 137, 1871. *Fieb., Cicad. d'Europ.* i, p. 100, pl. 11, figs. 39, 40, 1875; and ii,

pl. 9, 1876. Mayr, Tabellen, p. 26, 1884. Edwards, Trans. Ent. Soc. Lond. 1886, p. 114, pl. 2, fig. 4. Ashmead, Ent. Am. v, p. 126, 1889. Van Duzee, Ent. Am. v, p. 166, 1889. Prov., Pet. Faune Ent. Can. iii, p. 291, 1890.

Idiocerus amœmus Van Duzee, Can. Ent. xxvi, p. 89, 1894.

Hab.—Colorado, California.

Idiocerus pallidus Fitch, Homop. N. Y. State Cab. p. 59, 1851; id. reprint in Lintner's 9th Rept. p. 399, 1893. Van Duzee, Can. Ent. xxi, p. 8, 1889 (mention); Psyche v, p. 388, 1890 (mention). Prov., Pet. Faune Ent. Can. iii, p. 291, 1890. Harrington, Ottawa Nat. vi, p. 31, 1892 (mention).

Bythoscopus pallidus Walker, Homop. iv, p. 1162, 1852 (mention). Uhler, Bull. U. S. Geol. and Geog. Surv. ii, p. 359, 1876; Bull. U. S. Geol. and Geog. Surv. iii, p. 465, 1877.

? *Idiocerus unicolor*? Osborn, Proc. Iowa Acad. Sci. i, pt. 2, p. 12, 1882.

Hab.—Canada, New York west to Colorado.

Idiocerus suturalis Fitch, Homop. N. Y. State Cab. p. 59, 1851; id. reprint in Lintner's 9th Rept. p. 399, 1893. Van Duzee, Can. Ent. xxi, p. 8, 1889 (mention); Psyche v, p. 388, 1890 (mention).

Bythoscopus suturalis Walk., Homop. iv, p. 1162, 1852 (mention).

Hab.—Canada, New York, Michigan, Colorado.

? *Idiocerus obsoletus* (Walk.)

Bythoscopus obsoletus Walk., Homop. iii, p. 873, 1851.

Hab.—"Hudson's Bay."

Idiocerus nervatus Van Duzee, Bull. Buff. Soc. Nat. Sci. v, pt. 4, 1894 (No. 1).

Hab.—New York, New Jersey, Michigan, Colorado.

Idiocerus duzei Prov., Pet. Faune Ent. Can. iii, p. 292, 1890.

Hab.—Quebec, New Hampshire.

Idiocerus lachrymalis Fitch, Homop. N. Y. State Cab. p. 58, 1851; id. reprint in Lintner's 9th Rept. p. 398, 1893. Van Duzee, Can. Ent. xxi, p. 8, 1889 (mention); Psyche v, p. 388, 1890 (mention).

Bythoscopus lachrymalis Walk., Homop. iv, p. 1161, 1851 (mention).

Hab.—Canada, New York, New Hampshire, Colorado.

? *Idiocerus verticis* (Say).

Jassus verticis Say, Jour. Acad. Nat. Sci. Phila. vi, p. 308, 1831. Say, id. reprint in Compl. Writings, ii, p. 383, 1869. Walker, Homop. iv, p. 1164, 1852 (mention).

Bythoscopus verticis Uhler, Bull. U. S. Geol. and Geog. Surv. iii, p. 465, 1877.

Idiocerus verticis Van Duzee, Psyche v, p. 389, 1890 (mention). Prov., Pet. Faune Ent. Can. iii, p. 292, 1890. Harrington, Ottawa Nat. vi, p. 31, 1892 (mention).

Hab.—Missouri, Colorado.

Idiocerus alternatus Fitch, Homop. N. Y. State Cab. p. 59, 1851; id. reprint in Lintner's 9th Rept. p. 399, 1893. Van Duzee, Can. Ent. xxi, p. 8, 1889 (mention); Psyche v, p. 388, 1890 (mention). Prov., Pet. Faune Ent. Can. iii, p. 293, 1890. Harrington, Ottawa, Nat. vi, p. 31, 1892 (mention). Osborn, Proc. Iowa Acad. Sci. i, pt. 2, p. 12, 1892 (mention). Cockerell, Trans. Am. Ent. Soc. xx, p. 365, 1893 (mention). Harrington, Can. Ent. xxvi, p. 16, 1894 (mention).

Bythoscopus alternatus Walk., Homop. iii, p. 876, 1851 (mention).

Hab.—Canada, New York to Iowa and Colorado and California.

Idiocerus ramentosus (Uhler).

Bythoscopus ramentosus Uhler, Bull. U. S. Geol. and Geog. Surv. iii, p. 465, 1877.

Idiocerus ramentosus Van D., Psyche v, p. 389, 1890.

Idiocerus inscriptus Uhler, in litt.

Hab.—Colorado, Arizona, Vancouver Island.

Idiocerus striola Fieb., Verh. zool.-bot. Gesell. Wien, xviii, p. 453, 1868.

Hab.—"Sitka."

Idiocerus cratægi Van Duzee, Can. Ent. xxii, p. 110, 1890.

Hab.—Canada, New York.

Idiocerus maculipennis Fitch, Homop. N. Y. State Cab. p. 59, 1851; id. reprint in Lintner's 9th Rept. p. 399, 1893. Van Duzee, Psyche v, p. 388, 1890 (mention). Osborn, Proc. Iowa Acad. Sci. i, pt. 2, p. 12, 1892 (mention).

Bythoscopus maculipennis Walk., Homop. iv, p. 1161, 1852 (mention).

Hab.—New York, Iowa, Ontario.

Idiocerus provancheri Van D.

Bythoscopus clitellarius Prov., Pet. Faune Ent. Can. iii, p. 288, 1890.

Idiocerus provancheri Van D., Can. Ent. xxii, p. 111, 1890. Osborn, Proc. Iowa Acad. Sci. i, pt. 2, p. 12, 1892 (mention).

Hab.—Canada, New York, Iowa.

Genus **AGALLIA** Curtis.

Curtis, Ent. Mag. i, p. 193, 1833. Kirschb., Der Gatt. *Idiocerus* p. 3, 1868; Cicad. v. Wiesbd. p. 16, 1868. Fieb., Verh. zool.-bot. Gesell. Wien, xviii, pp. 450, 462, 1868; Cicad. d'Europ. i, p. 103, 1875; ii, pl. 9, 1876. Mayr, Tabellen p. 27, 1884. Edwards, Trans. Ent. Soc. Lond. 1886, p. 125, pl. 11, fig. 5. Ashmead, Ent. Am. v, p. 126, 1889. Van Duzee, Ent. Am. v, p. 166, 1889. Prov., Pet. Faune Ent. Can. iii, p. 296, 1890.

Agallia 4-punctata (Prov.).

Bythoscopus 4-punctatus Prov., Nat. Can. iv, p. 376, 1872.

Agallia 4-punctata Van Duzee, Ent. Am. v, p. 167, 1889. Prov., Pet. Faune Ent. Can. iii, p. 296, 1890. Smith, Spec. Bull. K, N. J. Ag. Exp. Station p. 42, 1890; Ent. Am. vi, p. 135 (fig. on p. 133), 1890 (mention); Cat.

Ins. of N. J., p. 445, 1890 (mention). Harrington, Ottawa Nat. vi. p. 31, 1892 (mention). Osborn, Proc. Iowa Acad. Sci. i, pt. 2, p. 12, 1892 (mention). Townsend, Can. Ent. xxiv, p. 196, 1892 (mention). Weed, H. E. Can. Ent. xxiv, p. 278, 1892 (mention).

Agallia naccida Uhler MS. Van Duzee, Can. Ent. xxi, p. 9, 1889 (mention).

Hab.—Canada, New York and New Jersey, west to Iowa.

***Agallia sanguinolenta* (Prov.).**

Bythoscopus sanguinolentus Prov., Nat. Can. iv, p. 376, 1872.

Agallia sanguinolenta Van D., Ent. Am. v, p. 163, 1889. Prov., Pet. Faune Ent. Can. iii, p. 296, 1890. Osborn, Proc. Iowa Acad. Sci. i, pt. 2, p. 12, 1892 (mention); Bull. 15, Iowa Ag. Exp. Station, pp. 258, 270, 1891; Rept. Iowa State Ag. Soc. 1892, p. 688; Papers on Iowa Ins. p. 56; Insect Life v, p. 113, 1892.

Bythoscopus siccifolius Uhler, Bull. U. S. Geol. and Geol. Survey ii, p. 359, 1876. Uhler, Wheeler's Chief of Eng. for 1877, p. 1334 (mention).

Agallia siccifolia Van Duzee, Can. Ent. xxi, p. 9, 1889 (mention). Brunner, Dept. of Ag. Div. of Ent. Bull. 23, p. 16, 1892 (mention).

Hab.—Canada, New England west to Iowa, New Mexico British Columbia and California.

***Agallia constricta* Van Duzee, Can. Ent. xxvi, p. 90, 1894.**

Hab.—New Jersey to Florida and Mississippi.

***Agallia uhleri* Van Duzee, Can. Ent. xxvi, p. 91, 1894.**

Agallia venata, enervis and *longula* Uhler, in litt.

Hab.—Colorado, Arizona, California.

***Agallia novella* (Say).**

Jassus novellus Say, Jour. Acad. Nat. Sci. Phila. vi, p. 309, 1831. Say, id. reprint in Compl. Writings ii, p. 384, 1869. Harris, Hitchcock's Geol. of Mass. 2d ed. p. 580, 1835 (mention). Walker, Homop. iv, p. 1164, 1852 (mention).

Agallia novellus Van Duzee, Can. Ent. xxi, p. 8, 1889 (mention). Van Duzee, Psyche v, p. 389, 1890 (mention).

Agallia novella Harrington, Ottawa Nat. vi, p. 31, 1892 (mention). Harrington, Can. Ent. xxvi, p. 16, 1894 (mention).

Idiocerus novellus Prov., Pet. Faune Ent. Can. iii, p. 293, 1890.

Macropsis nobilis Forbes, Fourteenth Rept. Ill. State Ent. p. 22, 1884.

Hab.—Canada, New York, Mississippi, Indiana, Kansas, Colorado.

***Agallia oculata* Van Duzee, Ent. Am. vi, p. 38, 1890.**

Hab.—California, Ontario (?).

Family TETTIGONIDÆ.

Uhler, Bull. U. S. Geol. and Geog. Surv. ii, p. 357, 1876. Mayr, Tabellen, p. 28, 1884, (unterfam.). Osborn, Ent. Am. i, p. 26, 1885. Edwards, Trans. Ent. Soc. Lond. 1886, p. 45. Harrington, Ottawa Nat. vi, p. 31, 1892. Van Duzee, Trans. Am. Ent. Soc. xix, p. 297, 1892.

- Tettigoninæ* Uhler, Bull. U. S. Geol. and Geog. Surv. iii, p. 459, 1877 (subfamily).
 Woodworth, Bull. Ill. State Lab. of Nat. Hist. iii, p. 14, 1887 (subfamily).
Tettigonini Puton, Cat. Hemip. Palæ. p. 79, 1886 (tribe).
Tettigonides Prov., Pet. Faune. Ent. Can. iii, p. 260, 1889.

Subfamily TETTIGONIINA.

- Tettigonides* Am. and Serv., Hemip. p. 569, 1843 (groupe). Walker, Homop. iii, p. 732, 1851 (group). Sahlbg., Cicad. p. 67, 1871 (tribe). Sign., Ann. Soc. Ent. Fr., ser. 5, ix, p. 45, 1879.
Tettigonidæ Dohrn, Catalogus Hemip. p. 88, 1859. Fieb., Cicad. d'Europ. i, p. 106, 1875 (subfamily).
Proconida Stal, Hemip. Fab. ii, p. 79, 1869.
Proconiina Stal, Of. Vet. Akad. Forh. xxvii, p. 733, 1871 (subfamily).
Tettigonidæ Fieb., Kat. Europ. Cicad. p. 9, 1872.
Tettigoniina Berg, Hemip. Argent. p. 249, 1879. Van Duzee, Trans. Am. Ent. Soc. xix, p. 297, 1892.
Proconina Woodw., Bull. Ill. State Lab. Nat. Hist. iii, p. 14, 1887.

Genus DIESTOSTEMMA Am. and Serv.

- Am. and Serv., Hemip. p. 572, 1843. Walker, Homop. p. 798, 1851 (mention).
 Stal, Hemip. Fab. ii, p. 60, 1869.

Diestostemma rugicollis (Sign.).

- Tettigonia rugicollis* Sign., Ann. Soc. Ent. Fr. ser. 3, iii, p. 525, pl. 21, fig. 18, 1855. Uhler, Proc. Bost. Soc. Nat. Hist. xii, p. 327, 1869.
Diestostemma rugicollis Walk., Homop. Suppl. p. 241, 1858. Stal, Stet. Ent. Zeit. xxv, p. 81, 1864.

Hab.—Mexico.

Diestostemma nigropunctata (Sign.).

- Tettigonia nigropunctata* Sign., Ann. Soc. Ent. Fr. ser. 3, iii, p. 527, 1855.
Diestostemma nigropunctata Walk., Homop. Suppl. p. 240, 1858. Stal, Stet. Ent. Zeit. xxv, p. 81, 1864.

Hab.—Mexico.

Genus ACROBELUS Stal.

- Stal, Hemip. Fab. ii, p. 60, 1869.

Acrobelus reflexa (Sign.).

- Tettigonia reflexa* Sign., Ann. Soc. Ent. Fr. ser. 3, iii, p. 524, pl. 21, fig. 15, 1855.
Acrobelus reflexa Stal, Hemip. Fab. ii, p. 60, 1869.
Rhaphidorhinus attenuatus Walk., Homop. iii, p. 806, 1851. See Walker, Homop. Suppl. p. 247, 1858.

Hab.—West coast.

Genus ONCOMETOPIA Stal.

- Stal, Hemip. Fab. ii, pp. 60, 62, 1869. Woodworth, Bull. Ill. State Lab. Nat. Hist. iii, p. 14, 1887.

Proconia Am. and Serv., Hemip. p. 571 (nec. Lep. and Serv.) 1843. Prov., Pet. Faune Ent. Can. iii, p. 264, 1889.

Tettigonia Groupe 1, ser. 3, Sign., Ann. Soc. Ent. Fr. ser. 3, ii, p. 357, 1854.

Oncometopia undata (Fabr.).

Cicada undata Fabr., Ent. Syst. iv, p. 32, 1794; and Suppl. p. 516, 1798. Fabr., Syst. Rhyng. p. 62, 1803. Coquerb., Ill. i, p. 32, tab. 8, fig. 3. Blanch., Hist. Nat. Ins. iii, p. 192, 1840.

Tettigonia undata Germ., Mag. d. Ent. iv, p. 61, 1821. Burm., Handb. d. Ent. ii, 1, p. 119, 1835 (mention). Sign., Ann. Soc. Ent. Fr. ser. 3, ii, p. 486, 1854, pl. 17, fig. 5.

Proconia undata Walker, Homop. iii, p. 783, 1851; Suppl. p. 225, 1858. Riley, Am. Ent. i, p. 19, 1869. Glover, Rept. Dept. Ag. for 1876, p. 31. Saunders, Ins. Inj. to Fruit, p. 289, 1883. Uhler, Stand. Nat. Hist. ii, p. 248, 1884. Prov., Pet. Faune Ent. Can. iii, p. 265, 1889. See also Insect Life, i, p. 54; ii, pp. 161, 283, 321; v, p. 151 (noticed).

Oncometopia undata Stal, Hemip. Fab. ii, p. 62, 1869. Woodworth, Bull. Ill. State Lab. Nat. Hist. iii, p. 15, pl. 2, figs. 10-14, 1887. Smith, Cat. Ins. of N. J. p. 444, 1890 (mention). Harrington, Ottawa Nat. vi, p. 31, 1892.

Proconia nigricans Walk., Homop. iii, p. 783, 1851.

Proconia tenebrosa Walk., Homop. iii, p. 787, 1851.

Proconia plagiata Walk., Homop. iii, p. 788, 1851.

Hab.—New Jersey to Michigan and south to Florida and Mexico.

Oncometopia orbona (Fabr.).

Cicada orbona Fabr., Ent. Syst. Suppl. p. 520, 1798. Fabr., Syst. Rhyng. p. 72, 1803.

Tettigonia orbona Sign., Ann. Soc. Ent. Fr. ser. 3, ii, p. 485, 1854, pl. 17, fig. 3.

Proconia orbona Walker, Homop. Suppl. p. 225, 1858.

Hab.—Southern States.

Oncometopia costalis (Fabr.).

Cercopis lateralis Fabr., Ent. Syst. Suppl. p. 524, 1798. Coquerb., Ill., i, p. 35, pl. 9, fig. 3.

Cercopis marginella Fabr., Syst. Rhyng. p. 96, 1803. Kirby, Fauna Boreali Am. p. 285, 1837. Kirby, reprint in Can. Ent. x, p. 216, 1878.

Cercopis costalis Fabr., Syst. Rhyng. Errata following p. 314, 1803.

Tettigonia costalis Sign., Ann. Soc. Ent. Fr. ser. 3, ii, p. 359, pl. 12, fig. 8, 1854.

Proconia costalis Walker, Homop. Suppl. p. 224, 1858. Uhler, Geol. and Geog. Surv. west of 100th mer., Wheeler, v, p. 842, 1875; Bull. U. S. Geol. and Geog. Surv. ii, p. 357, 1876; iii, p. 459, 1877; iv, p. 510, 1878; Rept. Chief of Eng. for 1877, p. 1334; Stand., Nat. Hist. ii, p. 249, 1884. Prov., Pet. Faune Ent. Can. iii, p. 265, 1889. Ashm., in Smith's Cat. Ins. of N. J. p. 444, 1890 (reference). Osborn, Proc. Iowa Acad. Sci. i, pt. 2, p. 11, 1892 (mention). Cockerell, Trans. Am. Ent. Soc. xx, p. 365, 1893 (mention):

Oncometopia costalis Stal, Hemip. Fab. ii, p. 118, 1869. Woodworth, Bull. Ill. State Lab. Nat. Hist. iii, p. 17, 1887. Van Duzee, Can. Ent. xxi, p. 9, 1889 (mention). Harrington, Ottawa Nat. vi, p. 31, 1892 (mention). Slosson, Ent. News v, p. 5, 1894 (mention). Van Duzee, Ent. News v, p. 156, 1894 (reference).

Tettigonia lugens Walker, Homop. iii, p. 775, 1851.

Tettigonia pyrrhotelus Walker, Homop. iii, p. 775, 1851.

? *Tettigonia striata* Walker, Homop. iii, p. 775, 1851. Sign., Ann. Soc. Ent. Fr. ser. 3, i, p. 682, 1853 (is this Walker's species?). Van Duzee, Ent. News v, p. 156, 1894 (reference).

Hab.—Canada, United States west to Rocky Mountains.

***Oncometopia limbata* (Say).**

Tettigonia limbata Say, Jour. Acad. Nat. Sci. Phila. iv, p. 340, 1825. Say, id. reprint in Compl. Writings ii, p. 258, 1869. Walker, Homop. iv, p. 1157, 1852. ? Sign., Ann. Soc. Ent. Fr. ser. 3, iii, p. 821, 1855. Cockerell, Trans. Am. Ent. Soc. xx, p. 365, 1893.

Oncometopia limbata Van D., Psyche v, p. 389, 1890.

Hab.—Michigan, Dakota, Missouri, Colorado.

***Oncometopia obtusa* (Fabr.).**

Cicada obtusa Fabr., Mantissa Ins. p. 269, 1787; Ent. Syst. iv, p. 33, 1794; Syst. Rhyng. p. 62, 1803.

Tettigonia obtusa Germ., Mag. der Ent. iv, p. 62, 1821. Burm., Handb. der Ent. ii, 1, p. 118, 1835. Sign., Ann. Soc. Ent. Fr. ser. 3, ii, p. 488, pl. 17, fig. 6, 1854. Stal, Rio Janeiro Hemip. ii, p. 43, 1862.

Proconia obtusa Am. and Serv., Hemip. p. 571, 1843. Walker, Homop. iii, p. 782, 1851, and Suppl. p. 225, 1858.

Oncometopia obtusa Stal, Hemip. Fab. ii, p. 62, 1869.

Proconia clarior Walker, Homop. iii, p. 784, 1851.

Proconia parallela Walker, Homop. iii, p. 788, 1851.

Hab.—Mexico to South America.

Genus **PHERA** Stal.

Stal., Stet. Ent. Zeit. xxv, p. 77, 1864; Hemip. Fab. ii, p. 60, 1869.

Phera tiarata Stal, Stet. Ent. Zeit. xxv, p. 79, 1864; Hemip. Fabr. ii, p. 60, 1869 (reference).

Hab.—Mexico.

Phera wallengreni Stal, Stet. Ent. Zeit. xxv, p. 78, 1864; Hemip. Fabr. ii, p. 60, 1869 (reference).

Hab.—Mexico.

***Phera centrolineata* (Sign.).**

Tettigonia centrolineata Sign., Ann. Soc. Ent. Fr. ser. 3, iii, p. 239, pl. 12, fig. 19, 1859.

Ciccus centrolineatus Walker, Homop. Suppl. p. 243, 1858.

Phera centrolineata Stal, Stet. Ent. Zeit. xxv, p. 78, 1864. Stal, Hemip. Fabr. ii, p. 60, 1869.

Hab.—Mexico.

Phera tartarea Stal, Stet. Ent. Zeit. xxv, p. 78, 1864.

Hab.—Mexico.

Phera luciola (Sign.).

Tettigonia luciola Sign., Ann. Soc. Ent. Fr. ser. 3, iii, p. 239, pl. 12, fig. 18. 1855.

Ciccus luciola Walker, Homop. Suppl. p. 243, 1858.

Phera luciola Stal, Stet. Ent. Zeit. xxv, p. 78, 1864.

Hab.—Mexico.

Phera bimaculata (Sign.).

Tettigonia bimaculata Sign., Ann. Soc. Ent. Fr. ser. 3, ii, p. 362, pl. 12, fig. 12. 1854.

Proconia bimaculata Walker, Homop. Suppl. p. 225, 1858.

Phera bimaculata Stal, Stet. Ent. Zeit. xxv, p. 77, 1864.

Hab.—Mexico.

Phera marginata (Walker).

Proconia marginata Walker, Homop. iii, p. 785, 1851. Walker, Homop. Suppl. p. 225, 1858 (notice).

Tettigonia marginata Sign., Ann. Soc. Ent. Fr. ser. 3, ii, p. 487, 1854.

Phera marginata Stal, Stet. Ent. Zeit. xxv, p. 78, 1864.

Hab.—Florida, Mexico.

? Phera rufipennis (Sign.).

Tettigonia rufipennis Sign., Ann. Soc. Ent. Fr. ser. 3, iii, p. 797, 1855. Walk., Homop. Suppl. p. 350, 1858.

Hab.—Mexico.

? Phera funebris (Sign.).

Tettigonia funebris Sign., Ann. Soc. Ent. Fr. ser. 3, ii, p. 490, 1854.

Proconia funebris Walker, Homop. Suppl. p. 225, 1858.

Hab.—Mexico, California.

? Phera rubiginosa (Sign.).

Tettigonia rubiginosa Sign., Ann. Soc. Ent. Fr. ser. 3, ii, p. 491, pl. 17, fig. 7. 1854.

Proconia rubiginosa Walker, Homop. Suppl. p. 226, 1858.

Hab.—Mexico.

Phera atra (Walk.).

Proconia atra Walker, Homop. iii, p. 789, 1851; and Suppl. p. 226, 1858. Wood. Insects Abroad p. 743, fig. 486, n. d.

Tettigonia atra Sign., Ann. Soc. Ent. Fr. ser. 3, ii, p. 492, pl. 17, fig. 9, 1854.

Phera atra Stal, Stet. Ent. Zeit. xxv, p. 78, 1864.

var. *contraria* Walker.

Proconia contraria Walker, Homop. iii, p. 789, 1851.

Hab.—Mexico, West Indies.

(NOTE.—This species and the preceding may belong to *Cyrtodisca* Stal.)

Genus **CYRTODISCA** Stal.

Stal, Hemip. Fab. ii, p. 60, 1869.

Cyrtodisca major (Sign.).

Tettigonia major Sign., Ann. Soc. Ent. Fr. ser. 3, ii, p. 491, pl. 17, fig. 8, 1854.

Proconia major Walker, Homop. Suppl. p. 229, 1858.

Phera major Stal, Stet. Ent. Zeit. xxv, p. 78, 1864.

Cyrtodisca major Stal, Hemip. Fab. ii, p. 60, 1869.

Proconia scissa Walker, Homop. Suppl. p. 226, 1858. See Stal, Of. Vet. Ak. Forh. xix, p. 496, 1862.

Hab.—Mexico, Guat.

Genus **HOMALODISCA** Stal.

Stal, Hemip. Fab. ii, pp. 60 and 63, 1869.

Homalodisca triquetra (Fabr.).

Cicada triquetra Fabr., Syst. Rhyng. p. 63, 1803.

Tettigonia triquetra Sign., Ann. Soc. Ent. Fr. ser. 3, iii, p. 240, 1855.

Ciccus triquetra Walker, Homop. Suppl. p. 243, 1858.

Homalodisca triquetra Stal, Hemip. Fab. ii, p. 64, 1869. Weed, H. E., Can. Ent. xxiv, p. 278, 1892.

Tettigonia vitripennis Germ., Mag. der Ent. iv, p. 61, 1821. Burm., Handb. der Ent. ii, p. 120, 1835 (mention). Sign., Ann. Soc. Ent. Fr. ser. 3, ii, p. 493, pl. 17, fig. 10, 1854.

Ciccus vitripennis Walker, Homop. iii, p. 799, 1851.

Proconia vitripennis Walker, Homop. Suppl. p. 225, 1858.

Hab.—California, Mexico, Texas.

Homalodisca coagulata (Say).

Tettigonia coagulata Say, Insects of Louisiana p. 13, 1832. Say, id. reprint in Compl. Writings i, p. 307, 1869.

Phera coagulata Stal, Stet. Ent. Zeit. xxv, p. 78, 1864.

Homalodisca coagulata Stal, Hemip. Fab. ii, p. 64, 1869. Biley and Howard, Insect Life v, p. 150-154, 1893.

Hab.—Southern States to Mexico and California.

Homalodisca admittens (Walker).

Proconia admittens Walk., Homop. Suppl. p. 227, 1858.

Homalodisca admittens Stal, Hemip. Fab. ii, p. 64, 1869.

Proconia aurigena Walker, Homop. Suppl. p. 228, 1858. See Stal, Of. Vet. Ak. Forh. xix, p. 496, 1862.

Hab.—Mexico.

Genus **AMBLYDISCA** Stal.

Stal, Hemip. Fabr. ii, p. 61, 1869.

Amblydisca rubriventris (Sign.).

Tettigonia rubriventris Sign., Ann. Soc. Ent. Fr. ser. 3, iii, p. 52, pl. 6, fig. 5, 1855. Walker, Homop. Suppl. p. 349, 1858.

Aulacizes rubriventris Stal, Stet. Ent. Zeit. xxv, p. 80, 1864.

Amblydisca rubriventris Stal, Hemip. Fab. ii, p. 61, 1869.

Aulacizes stellaris Walker, Homop. Suppl. p. 238, 1858. See Stal, Of. Vet. Ak. Forh. xix, p. 496, 1862.

Hab.—Mexico.

***Amblydisca coriacea* Stal.**

Aulacizes coriacea Stal, Stet. Ent. Zeit. xxv, p. 80, 1864.

Amblydisca coriacea Stal, Hemip. Fab. ii, p. 61, 1869.

Hab.—Mexico.

***Amblydisca multiguttata* Stal.**

Aulacizes multiguttata Stal, Stet. Ent. Zeit. xxv, p. 80, 1864.

Amblydisca multiguttata Stal, Hemip. Fab. ii, p. 61, 1869.

Hab.—Mexico.

***Amblydisca nitidipennis* Stal.**

Aulacizes nitidipennis Stal, Stet. Ent. Zeit. xxv, p. 79, 1864.

Amblydisca nitidipennis Stal, Hemip. Fab. ii, p. 61, 1869.

Hab.—Mexico.

Genus **AULACIZES** Am. and Serv.

Am. and Serv., Hemip. p. 571, 1843. Walker, Homop. iii, p. 790, 1851. Stal, Hemip. Fab. ii, p. 61, 1869. Woodworth, Bull. Ill. State Lab. Nat. Hist. iii, p. 18, 1887. Sign., Ann. Soc. Ent. Fr. ser. 3, ii, p. 731, 1854 (*Tettigonia*, 2d group).

***Aulacizes irrorata* (Fabr.).**

Cicada irrorata Fabr., Ent. Syst. iv, p. 33, 1794. Fabr., Syst. Rhyng. p. 62, 1803. Coquerb., Ill. Ins. i, p. 32, tab. 8, fig. 4, 1799.

Tettigonia irrorata Burm., Handb. d. Ent. ii, 1, p. 119, 1835. Blanch., Hist. Nat. des Ins. iii, p. 192, 1840. Sign., Ann. Soc. Ent. Fr. ser. 3, iii, p. 59, pl. 6, fig. 14, 1855.

Aulacizes irrorata Walker, Homop. Suppl. p. 236, 1858. Stal, Hemip. Fab. ii, p. 64, 1869. Uhler, Bull. U. S. Geol. and Geog. Surv. ii, p. 357, 1876. Woodworth, Bull. Ill. State Lab. Nat. Hist. iii, p. 19, pl. 2, figs. 15-18, 1887.

Aulacizes rufiventris Walker, Homop. iii, p. 796, 1851; and Suppl. p. 236, 1858. *Cicada nigripennis* Fabr., Ent. Syst. iv, p. 32, 1794. Fabr., Syst. Rhyng. p. 69, 1803.

Proconia ? nigripennis Walker, Homop. iii, p. 783, 1851.

Tettigonia nigripennis Burm., Handb. d. Ent. ii, 1, p. 119, 1835. Sign., Ann. Soc. Ent. Fr. ser. 3, ii, p. 491, 1854.

Hab.—New Jersey to Florida and west to Illinois and Texas.

***Aulacizes guttata* (Sign.).**

Tettigonia guttata Sign., Ann. Soc. Ent. Fr. ser. 3, ii, p. 355, pl. 12, fig. 4, 1854. Stal, Stet. Ent. Zeit. xxv, p. 75, 1864.

Aulacizes guttata Uhler, Stand. Nat. Hist. ii, p. 248, 1884.

Hab.—New York and Ohio to Florida and Mexico.

Aulacizes confusa (Sign.).

Tettigonia confusa Sign., Ann. Soc. Ent. Fr. ser. 3, iii, p. 58, pl. 6, fig. 12, 1855.
Aulacizes confusa Walker, Homop. Suppl. p. 236, 1858.

Hab.—Mexico.

Aulacizes mutans (Sign.).

Tettigonia mutans Sign., Ann. Soc. Ent. Fr. ser. 3, iii, p. 228, pl. 12, fig. 3, 1855.
Aulacizes mutans Walker, Homop. Suppl. p. 237, 1858. Stal, Stet. Ent. Zeit.
 xxv, p. 81, 1864.

Hab.—Mexico.

Aulacizes aurantiacea (Sign.).

Tettigonia aurantiacea Sign., Ann. Soc. Ent. Fr. ser. 3, iii, p. 225, pl. 6, fig. 17,
 1855.

Ciccus aurantiacea Walker, Homop. Suppl. p. 242, 1858.

Aulacizes aurantiacea Stal, Stet. Ent. Zeit. xxv, p. 79, 1864.

Ciccus ochraceus Walker, Homop. Suppl. p. 244, 1858. See Stal, Of. Vet. Ak.
 Forh. xix, p. 496, 1862.

Hab.—Mexico.

Aulacizes thunbergi Stal, Stet. Ent. Zeit. xxv, p. 79, 1864.

Hab.—Mexico.

Genus **PROCONIA** Auct.? **Proconia consistens** Walker, Homop. Suppl. p. 226, 1858.

Aulacizes obliqua Walker, Homop. Suppl. p. 239, 1858. See Stal, Of. Vet. Ak.
 Forh. xix, p. 496, 1862.

Hab.—Mexico.

? **Proconia insoleta** Walker, Homop. Suppl. p. 227, 1858.

Hab.—Mexico.

? **Proconia confluens** Uhler, Proc. Acad. Nat. Sci. Phila. for 1861, p. 285.

Hab.—Washington, Arizona.

Genus **DILOOPTERUS** Sign.

Sign., Revue et Mag. Zool. ser. 2, ii, p. 284, 1850. Walker, Homop. iii, p. 808,
 1851 (mention). Sign., Ann. Soc. Ent. Fr. ser. 3, i, p. 26, 1853. Stal,
 Hemip. Fab. ii, p. 70, 1869 (subgenus).

Dilopterus burmeisteri Sign., Revue et Mag. Zool. ser. 2, ii, p. 286, pl. 4,
 fig. 5, 1850. Walker, Homop. iii, p. 808, 1851.

Tettigonia burmeisteri Sign., Ann. Soc. Ent. Fr. ser. 3, i, p. 23, pl. 2, fig. 3,
 1853. Stal, Stet. Ent. Zeit. xxv, p. 73, 1864.

Hab.—Mexico.

Genus *PŒCILOSCARTA* Stal.

Stal, Hemip. Fab. ii, p. 73, 1869 (subgenus).

Pœciloscarta lyncea (Fabr.).

Cicada lyncea Fabr., Mantissa Ins. ii, p. 269, 1787.

Tettigonia lyncea Stal, Hemip. Fab. ii, p. 75, 1869 (subgenus *Pœciloscarta*).

Cicada myopa Fabr., Ent. Syst. iv, p. 33, 1794. Fabr., Syst. Rhyng. p. 73, 1803.

Tettigonia myopa Sign., Ann. Soc. Ent. Fr. ser. 3, i, p. 31, 1853. Walker, Homop. Suppl. p. 199, 1858 (mention).

Tettigonia cyanescens Walker, Homop. iii, p. 760, 1851. Sign., Ann. Soc. Ent. Fr. ser. 3, ii, p. 355, pl. 12, fig. 5, 1854. See Stal, Hemip. Fab. ii, p. 76, 1869.

Hab.—Mexico, etc.

Pœciloscarta histrio (Fabr.).

Cicada histrio Fabr., Ent. Syst. iv, p. 34, 1794; Syst., Rhyng. p. 73, 1803.

Tettigonia histrio Stal, Hemip. Fab. ii, p. 76, 1869 (subgenus *Pœciloscarta*).

Tettigonia robusta Walker, Homop. iii, p. 777, 1851. Sign., Ann. Soc. Ent. Fr. ser. 3, ii, p. 10, pl. 1, fig. 9, 1854. Johnson and Fox, Ent. News iii, p. 60, 1892. Van Duzee, Ent. News v, p. 157, 1894.

Hab.—West Indies.

Genus *TETTIGONIA* Geoff.

Geoffrey, Hist. des Ins. i, p. 429, 1764. Latr., Regne Anim. iii, p. 428, 1817. Germ., Mag. d. Ent. iv, p. 57, 1821. Burm., Handb. der Ent. ii, 1, p. 117, 1835. Blanchard, Hist. des Ins. iii, p. 189, 1840. Am. and Serv., Hemip. p. 569, 1843. Walker, Homop. iii, p. 733, 1851 (reference). Sign., (1st Group, 2d ser.) Ann. Soc. Ent. Fr. ser. 3, i, p. 323, 1853. Stal, Rio Janeiro Hemip. ii, p. 38, 1862 (reference); Hemip. Af. iv, pp. 100, 115, 1866. Fieb., Verh. zool.-bot. Gesell. Wien, xvi, p. 502, 1866. Kirschb., Cicad. v. Wieshd. p. 15, 1868. Stal, Hemip. Fab. ii, pp. 61, 70, 1869. Sahlbg., Cicad. p. 104, 1871. Fieb., Cicad. d'Europ. i, p. 107, 1875. Berg, Hemip. Argent. p. 250, 1879. Mayr, Tabellen p. 29, 1884. Woodworth, Bull. Ill. State Lab. Nat. Hist. iii, p. 20, 1887. Edwards, Trans. Ent. Soc. Lond. 1888, p. 15. Prov., Pet. Faune, Ent. Can. iii, p. 262, 1889.

Cicada Fabr., Ent. Syst. iv, p. 27, 1794; Syst. Rhyng. p. 61, 1803.

Cicadella Gray, Griffith's Anim. Kingd. xv, p. 226, 1832.

Tettigonia multivergata Stal, Stet. Ent. Zeit. xxv, p. 73, 1864.

Hab.—Mexico.

Tettigonia ruficeps Stal, Stet. Ent. Zeit. xxv, p. 73, 1864.

Hab.—Mexico.

Tettigonia æstuans Walk., Homop. iii, p. 750, 1851. Sign., Ann. Soc. Ent. Fr. ser. 3, i, p. 331, pl. 8, fig. 9, 1853.

Hab.—California, Mexico.

Tettigonia punctulata Sign., Ann. Soc. Ent. Fr. ser. 3, i, p. 345, pl. 9, fig. 15, 1853. Walker, Homop. Suppl. p. 194, 1858 (mention).

Hab.—Mexico.

Tettigonia areolata Sign., Ann. Soc. Ent. Fr. ser. 3, i, p. 355, pl. 11, fig. 4, 1853. Walker, Homop. Suppl. p. 194, 1858 (mention). Stal, Stet. Ent. Zeit. xxv, p. 74, 1864 (mention).

Hab.—Mexico.

Tettigonia jucunda Walker, Homop. iii, p. 757, 1851. Sign., Ann. Soc. Ent. Fr. ser. 3, i, p. 355, pl. 11, fig. 5, 1853. Stal, Stet. Ent. Zeit. xxv, p. 74, 1864.

Hab.—Mexico, Honduras.

Tettigonia 4-plagiata Walk., Homop. iii, p. 774, 1851. Sign., Ann. Soc. Ent. Fr. ser. 3, i, 358, pl. 11, fig. 8, 1853.

Hab.—California (?), Mexico.

Tettigonia pulchella Guer., Icones Reg. Anim. Ins. p. 369, pl. 59, fig. 10. Walker, Homop. iii, p. 736, 1851 (mention). Sign., Ann. Soc. Ent. Fr. ser. 3, i, p. 360, pl. 11, fig. 11, 1853. Stal, Stet. Ent. Zeit. xxv, p. 74, 1864.

Hab.—Mexico.

Tettigonia proxima Sign., Ann. Soc. Ent. Fr. ser. 3, i, p. 361, pl. 11, fig. 12, 1853. Walker, Homop. Suppl. p. 206, 1858 (mention). Stal, Stet. Ent. Zeit. xxv, p. 74, 1864.

Hab.—Mexico.

Tettigonia multicolor Sign., Ann. Soc. Ent. Fr. ser. 3, i, p. 363, pl. 11, fig. 15, 1853. Walker, Homop. Suppl. p. 193, 1858. Stal, Stet. Ent. Zeit. xxv, p. 74, 1864.

Hab.—Mexico.

Tettigonia cosmopolita Sign., Ann. Soc. Ent. Fr. ser. 3, i, p. 364, pl. 11, fig. 16, 1853. Walker, Homop. Suppl. p. 193, 1858 (mention). Stal, Hemip. Af. iv, p. 115, 1866.

Hab.—Mexico, etc.

Tettigonia sanguinicollis Latr., Voy. du Humboldt i, p. 191, pl. 17, fig. 11; id. reprint in Germ. Mag. d. Ent. i, pt. 2, p. 119. Sign., Ann. Soc. Ent. Fr. ser. 3, i, p. 371, pl. 12, fig. 12, 1853. Walker, Homop. Suppl. p. 197, 1858.

Tettigonia farinaria Am. and Serv., Hemip. p. 570, pl. 10, fig. 11, 1843. Walk., Homop. iii, p. 733, 1851 (mention).

Hab.—Cuba.

Tettigonia sanguinea (Drury).

Cicada sanguinea Drury, Ill. Nat. Hist. Ins. ii, p. 78, pl. 38, fig. 5, 1773.

Tettigonia sanguinea Westw., in new ed. Drury's Ins. ii, p. 81, pl. 38, figs. 5, 6, 1837. Sign., Ann. Soc. Ent. Fr. ser. 3, i, p. 686, 1853. Walker, Homop. Suppl. p. 197, 1858.

Hab.—Jamaica.

Tettigonia bifida Say, Jour. Acad. Nat. Sci. Phila. iv, p. 313, 1831; id. reprint in Compl. Writings ii, p. 387, 1869. Fitch, Homop. N. Y. State Cab. p. 55, 1851; id. reprint in Lintner's 9th Rept. p. 395, 1893. Walk., Homop. iv, p. 1158, 1852, and Suppl. p. 192, 1858 (mention). Sign., Ann. Soc. Ent. Fr. ser. 3, ii, p. 11, pl. 1, fig. 11, 1854. Packard, Guide to Study of Insects p. 532, 1876 (mention). Woodworth, Bull. Ill. State Lab. Nat. Hist. iii, p. 27, 1887. Osborn, Proc. Iowa Acad. Sci. i, pt. 2, p. 11, 1892 (mention). Southwick, Science, xix, p. 318, 1892 (mention).

Helochara bifida Prov., Pet. Faune Ent. Can. iii, p. 338, 1890.

Tettigonia tenella Walker, Homop. iii, p. 770, 1851. Van Duzee, Ent. News v, p. 156, 1894.

Hab.—Canada, New York to Maryland, west to Iowa.

Tettigonia interrupta Sign., Ann. Soc. Ent. Fr. ser. 3, iii, p. 785, pl. 24, fig. 3, 1855. Walker, Homop. Suppl. p. 350, 1858.

Hab.—West Indies.

Tettigonia lugubris Sign., Ann. Soc. Ent. Fr. ser. 3, ii, p. 13, pl. 1, fig. 13, 1854. Walker, Homop. Suppl. p. 194, 1858 (mention). Stal, Stet. Ent. Zeit. xxv, p. 74, 1864.

Hab.—Mexico.

Tettigonia similis Walker, Homop. iii, p. 769, 1851. Van Duzee, Ent. News v, p. 155, 1894 (reference).

Tettigonia herbida Sign., Ann. Soc. Ent. Fr. ser. 3, ii, p. 18, pl. 2, fig. 4, 1854. Stal, Rio Janeiro Hemip. ii, p. 42, 1862. ? Johnson and Fox, Ent. News iii, p. 60, 1892.

Hab.—West Indies.

Tettigonia lineata Sign., Ann. Soc. Ent. Fr. ser. 3, ii, p. 21, pl. 2, fig. 9, 1854. Walker, Homop. Suppl. p. 193, 1858 (mention). Stal, Stet. Ent. Zeit. xxv, p. 74, 1864.

Hab.—"United States," Mexico.

Tettigonia reticulata Sign., Ann. Soc. Ent. Fr. ser. 3, ii, p. 22, pl. 2, fig. 10, 1854. Walker, Homop. Suppl. p. 198, 1858 (mention).

Hab.—Cuba.

Tettigonia nigrifascia Walker, Homop. iii, p. 776, 1851. Van Duzee, Ent. News v, p. 157, 1894.

Tettigonia tripunctata Sign., Ann. Soc. Ent. Fr. ser. 3, ii, p. 23, pl. 2, fig. 12, 1854. Walker, Homop. Suppl. p. 193, 1858 (mention). Stal, Stet. Ent. Zeit. xxv, p. 74, 1864.

Tettigonia pallida Walker, Homop. iii, p. 776, 1851. Van Duzee, Ent. News v, p. 157, 1894 (reference).

Tettigonia albida Walker, Homop. iii, p. 777, 1851. Van Duzee, Ent. News v, p. 157, 1894 (reference).

Hab.—Mexico.

Tettigonia tripunctata Fitch, Homop. N. Y. State Cab. p. 55, 1851; id. reprint in Lintner's 9th Rept. p. 395, 1893. Walker, Homop. iv, p. 1158, 1852 (mention), Woodworth, Bull. Ill. State Lab. Nat. Hist. iii, p. 28, 1887. Prov., Pet. Faune Ent. Can. iii, p. 263, 1889. Southwick, Science xix, p. 318, 1892 (mention). See Van Duzee, Ent. News v, p. 157, 1894.

Hab.—Canada, New York, New Hampshire, to Mississippi and Missouri.

Tettigonia uniguttata Walker, Homop. iii, p. 778, 1851. Sign., Ann. Soc. Ent. Fr. ser. 3, ii, p. 24, 1854. Van Duzee, Ent. News v, p. 157, 1894 (notice).

Hab.—Mexico.

Tettigonia sagata Sign., Ann. Soc. Ent. Fr. ser. 3, ii, p. 27, pl. 2, fig. 15, 1854. Walker, Homop. Suppl. p. 194, 1858 (mention). Stal, Rio Janeiro Hemip. ii, p. 42, 1862; Stet. Ent. Zeit. xxv, p. 74, 1864. Berg, Hemip. Argent. p. 254, 1879.

Hab.—Mexico, etc.

Tettigonia gothica Sign., Ann. Soc. Ent. Fr. ser. 3, ii, p. 345, 1854. Walker, Homop. Suppl. p. 193, 1858.

Hab.—"United States."

Tettigonia hieroglyphica Say, Jour. Acad. Nat. Sci. Phila. vi, p. 313, 1831; id. reprint in Compl. Writings ii, p. 387, 1869. Harris, Hitchcock's Geol. of Mass. 2d ed. p. 580, 1835. Walker, Homop. iv, p. 1158, 1852. and Suppl. p. 349, 1858. Sign., Ann. Soc. Ent. Fr. ser. 3, iii, p. 805, 1855. Uhler, Bull. U. S. Geol. and Geog. Surv. ii, p. 358, 1876; iii, p. 460, 1877; iv, p. 510, 1878; Wheeler, Rept. Chief of Eng. for 1877, p. 1334. Woodworth, Bull. Ill. State Lab. Nat. Hist. iii, p. 26, 1887. Osborn, Dept. of Ag., Div. of Ent. Bull. 22, p. 28, 1890; Proc. Iowa Acad. Sci. i, pt. 2, p. 11, 1892 (mention). Harrington, Ottawa Nat. vi, p. 32, 1892 (mention); Can. Ent. xxvi, p. 16, 1894 (mention).

Dicrocephala hieroglyphica Prov., Pet. Faune Ent. Can. iii, p. 267, 1889.

Hab.—Canada, United States.

Tettigonia similis Woodw.

Tettigonia similis Woodworth, Bull. Ill. State Lab. Nat. Hist. iii, p. 25, 1887.

Hab.—Illinois.

Tettigonia intensa Walker, Homop. iii, p. 767, 1851. Sign., Ann. Soc. Ent. Fr. ser. 3, ii, p. 347, pl. 11, fig. 9, 1854.

Hab.—Jamaica.

Tettigonia lunata Sign., Ann. Soc. Ent. Fr. ser. 3, ii, p. 349, pl. 11, fig. 13, 1854.
Walker, Homop. Suppl. p. 194, 1858 (mention). Stal, Stet. Ent. Zeit.
xxv, p. 74, 1864.

Hab.—Mexico.

Tettigonia urbana Stal, Stet. Ent. Zeit. xxv, p. 74, 1864.

Hab.—Mexico.

Tettigonia limbaticollis Stal, Stet. Ent. Zeit. xxv, p. 75, 1864.

Hab.—Mexico.

Tettigonia occatoria Say, Jour. Acad. Nat. Sci. Phila. vi, p. 311, 1831; id. re-
print in Compl. Writings ii, p. 385, 1869. Walker, Homop. iv, p. 1157,
1852 (mention). Sign., Ann. Soc. Ent. Fr. ser. 3, ii, p. 353, pl. 12, fig. 2,
1854. Stal, Stet. Ent. Zeit. xxv, p. 75, 1864.

Hab.—Indiana, Mississippi, Mexico.

Tettigonia dohrni Sign., Ann. Soc. Ent. Fr. ser. 3, iii, p. 792, pl. 24, fig. 13, 1855.
Walk., Homop. Suppl. p. 350, 1858.

Hab.—Mexico.

Tettigonia speculifera Walker, Homop. iii, p. 790, 1851. Sign., Ann. Soc.
Ent. Fr. ser. 3, ii, p. 483, pl. 17, fig. 1, 1854.

Hab.—Mexico.

Tettigonia nigroguttata Sign., Ann. Soc. Ent. Fr. ser. 3, iii, p. 772, pl. 23, fig.
8, 1855. Walker, Homop. Suppl. p. 349, 1858. Stal, Stet. Ent. Zeit. xxv,
p. 75, 1864.

Hab.—Mexico.

Tettigonia hilaris Stal, Stet. Ent. Zeit. xxv, p. 75, 1864.

Hab.—Mexico.

Tettigonia venusta Stal, Stet. Ent. Zeit. xxv, p. 75, 1864.

Hab.—Mexico.

Tettigonia lucasii Sign., Ann. Soc. Ent. Fr. ser. 3, iii, p. 778, pl. 23, fig. 16, 1855.
Walker, Homop. Suppl. p. 353, 1858 (mention). Stal, Stet. Ent. Zeit.
xxv, p. 76, 1864.

Hab.—Mexico.

Tettigonia 14-punctata Sign., Ann. Soc. Ent. Fr. ser. 3, iii, p. 782, pl. 23, fig.
19, 1855. Walker, Homop. Suppl. p. 349, 1858 (mention). Stal, Stet.
Ent. Zeit. xxv, p. 76, 1864.

Hab.—Mexico.

Tettigonia stalli Sign., Ann. Soc. Ent. Fr. ser. 3, iii, p. 787, pl. 24, fig. 5, 1355.
Walker, Homop. Suppl. p. 350, 1858 (mention). Stal, Stet. Ent. Zeit.
xxv, p. 76, 1864.

Hab.—Mexico.

Tettigonia blanchardii Sign., Ann. Soc. Ent. Fr. ser. 3, iii, p. 788, pl. 24, fig.
6, 1855. Walker, Homop. Suppl. p. 355, 1858 (mention). Stal, Stet. Ent.
Zeit. xxv, p. 76, 1864.

Hab.—Mexico, Guatemala.

Tettigonia mexicana Sign., Ann. Soc. Ent. Fr. ser. 3, iii, p. 789, pl. 24, fig. 7.
1855. Walker, Homop. Suppl. p. 350, 1858 (mention). Stal, Stet. Ent.
Zeit. xxv, p. 76, 1864.

Hab.—Mexico.

Tettigonia tessellata Sign., Ann. Soc. Ent. Fr. ser. 3, iii, p. 790, pl. 24, fig. 9.
1855. Walker, Homop. Suppl. p. 355, 1858 (mention). Stal, Stet. Ent.
Zeit. xxv, p. 76, 1864.

Hab.—Mexico.

Tettigonia sirena Stal, Stet. Ent. Zeit. xxv, p. 76, 1864.

Hab.—Mexico.

Tettigonia magica Stal, Stet. Ent. Zeit. xxv, p. 77, 1864.

Hab.—Mexico.

Tettigonia flava Sign., Ann. Soc. Ent. Fr. ser. 3, iii, p. 799, pl. 24, fig. 19, 1855.
Walker, Homop. Suppl. p. 350, 1858 (mention). Stal, Stet. Ent. Zeit.
xxv, p. 77, 1864.

Hab.—Mexico.

Tettigonia 6-lineata Sign., Ann. Soc. Ent. Fr. ser. 3, iii, p. 792, pl. 24, fig. 12.
1855. Walker, Homop. Suppl. p. 355, 1858 (mention). Stal, Stet. Ent.
Zeit. xxv, p. 77, 1864.

Hab.—Mexico, Guatemala.

Genus **TETTIGONIA** Auct.

? **Tettigonia fasciata** Walker, Homop. iii, p. 780, 1851.

Hab.—North America.

? **Tettigonia septentrionalis** Walker, Homop. Suppl. p. 193, 1858.

Hab.—Arctic America.

? **Tettigonia 5-signata** Walker, Homop. Suppl. p. 194, 1858.

Hab.—Mexico.

? *Tettigonia metallescens* Walker, Homop. Suppl. p. 195, 1858.

Hab.—Mexico.

? *Tettigonia candida* Walker, Homop. Suppl. p. 195, 1858.

Hab.—Mexico.

? *Tettigonia granulata* Walker, Homop. Suppl. p. 195, 1858.

Hab.—Mexico.

? *Tettigonia ruficeps* Walker, Homop. Suppl. p. 196, 1858.

Hab.—Mexico.

? *Tettigonia detrahens* Walker, Homop. Suppl. p. 196, 1858.

Hab.—Mexico.

? *Tettigonia suavipennis* Walker, Homop. Suppl. p. 196, 1858.

Hab.—Mexico.

? *Tettigonia rufimargo* Walker, Homop. Suppl. p. 197, 1858.

Hab.—Mexico.

? *Tettigonia fausta* Walker, Homop. Suppl. p. 198, 1858.

Hab.—St. Domingo.

? *Tettigonia constans* Walker, Homop. Suppl. p. 198, 1858.

Hab.—St. Domingo.

? *Tettigonia tripartita* Walker. Ins. Saund. Homop. p. 96, 1858.

Hab.—St. Domingo.

? *Tettigonia viridis* Fabr. Prov., Pet. Faune Ent. Can. iii, p. 263, 1889.

Hab.—Canada.

Genus *CICCUS* Auct.

? *Ciccus nigraulax* Walker, Homop. Suppl. p. 246, 1858.

Hab.—Mexico.

Genus *DIEDROCEPHALA* Spin.

Spinola Tav. Sinot. Mem. Soc. Stal, xxv, p. 57, 1852. Sign., Ann. Soc. Ent. Fr. ser. 3, ii, p. 721, 1854 (1st group, 4th series). Walker, Homop. Suppl. p. 233 1858 (mention). Stal, Hemip. Fab. ii, p. 78, 1869 (subgenus). Uhler, Stand. Nat. Hist. ii, p. 249, 1884. Woodworth, Bull. Ill. State Lab. Nat. Hist. iii, p. 22, 1877 (subgenus). Prov., Pet. Faune Ent. Can. iii, p. 265, 1889.

Diedrocephala versuta (Say).

Tettigonia versuta Say, Jour. Acad. Nat. Sci. Phil. vi, p. 311, 1831; id. reprint in Compl. Writings ii, p. 386, 1869. Walker, Homop. iv, p. 1157, 1852 (mention). Sign., Ann. Soc. Ent. Fr. ser. 3, ii, p. 348, pl. 11, fig. 10, 1854.

Diedrocephala versuta Woodw., Bull. Ill. Lab. Nat. Hist. iii, p. 22, 1887. Van Duzee, Psyche v, p. 390, 1890. Osborn, Dept. of Ag., Div. of Ent. Bull. 22, p. 27, 1890. Weed, H. E., Can. Ent. xxiv, p. 278, 1892.

Hab.—Southern States.

Diedrocephala coccinea (Forst.)

Cicada coccinea Forst., Nov. Species Ins. p. 96, 1781.

Tettigonia coccinea Harris, Hitchcock's Geol. of Mass. 2d ed. p. 580, 1835. Rathvon, Mombert Hist. of Lancaster Co., Pa., p. 581, 1869.

Diedrocephala coccinea Uhler, Bull. U. S. Geol. and Geog. Surv. ii, p. 357, 1876. Woodworth, Bull. Ill. State Lab. Nat. Hist. iii, p. 23, 1887. Prov., Pet. Faune Ent. Can. iii, p. 267, 1889. Van Duzee, Can. Ent. xxi, p. 9, 1889. Osborn, Dept. of Ag., Div. of Ent. Bull. 22, p. 28, 1890; Proc. Iowa Acad. Sci. i, pt. 2, p. 11, 1892. Harrington, Ottawa Nat. vi, p. 32, 1892 (mention). Southwick, Science xix, p. 318, 1892 (mention).

Tettigonia quadrivittata Say, Jour. Acad. Nat. Sci. Phila. vi, p. 312, 1831; id. reprint in Compl. Writings ii, p. 386, 1869. Harris, Hitchcock's Geol. of Mass. 2d ed. p. 580, 1835. Walker, Homop. iv, p. 1155, 1852 (mention). Sign., Ann. Soc. Ent. Fr. ser. 3, ii, p. 348, pl. 11, fig. 11, 1854. Rathvon, Mombert Hist. Lancaster Co., Pa., p. 581, 1869 (mention).

Proconia quadrivittata Fitch, Homop. N. Y. State Cab. p. 55, 1851; id. reprint in Lintner's 9th Rept. p. 395, 1893. Packard, Guide to Study of Ins. p. 532, 1876.

Aulacizes quadrivittata Fitch, Trans. N. Y. State Ag. Soc. xvi, p. 450, 1856.

Diedrocephala quadrivittata Glover, Rept. Dept. of Ag. for 1876, p. 33. Osborn, Proc. Iowa Acad. Sci. i, pt. 2, p. 12, 1892 (var.).

Tettigonia teliformis Walker, Homop. iii, p. 764, 1851. Van Duzee, Ent. News v, p. 155, 1894 (reference).

Hab.—Canada, United States west to the Rocky Mountains.

Diedrocephala mollipes (Say).

Tettigonia mollipes Say, Jour. Acad. Nat. Sci. Phila. vi, p. 312, 1831; id. reprint in Compl. Writings ii, p. 386, 1869. Harris, Hitchcock's Geol. of Mass. 2d ed. p. 580, 1835 (*mollipes*). Walker, Homop. iv, p. 1156, 1852 (mention). Sign., Ann. Soc. Ent. Fr. ser. 3, ii, p. 726, pl. 21, figs. 12, 13, 1854. Stal, Stet. Ent. Zeit. xxv, p. 77, 1864.

Aulacizes mollipes Fitch, Homop. N. Y. State Cab. p. 56, 1851; id. reprint in Lintner's 9th Rept. p. 396, 1893. Glover, Rept. Dept. of Ag. for 1876, p. 32. Packard, Guide to Study of Ins. p. 532, 1876.

Diedrocephala mollipes Walker, Homop. Suppl. p. 233, 1858. Uhler, Bull. U. S. Geol. and Geog. Surv. ii, p. 358, 1876; iii, p. 459, 1877; Stand., Nat. Hist. ii, p. 249, 1884. Woodw., Bull. Ill. State Lab. Nat. Hist. iii, p. 24, 1887 (*Tettigonia*). Van Duzee, Can. Ent. xxi, p. 9, 1889 (mention). Smith, Cat. Ins. N. J. p. 444, 1890 (mention). Osborn, Dept. of Ag., Div.

of Ent. Bull. 22, p. 26, 1890; Bull. 30, p. 46, 1893; Rept. Iowa State Ag. Soc. for 1892, p. 687; Papers on Iowa Ins. p. 55; Proc. Iowa Acad. Sci. i, pt. 2, p. 11, 1892 (mention). Harrington, Ottawa Nat. vi, p. 32, 1892 (mention). Southwick, Science xix, p. 318, 1892 (mention). Weed, H. E., Can. Ent. xxiv, p. 278, 1892 (mention). Cockerell, Trans. Am. Ent. Soc. xx, p. 365, 1893 (mention).

? *Tettigonia innotata* Walker, Homop. iii, p. 770, 1851. Van Duzee, Ent. News v, p. 156, 1894.

? *Tettigonia antica* Walker, Homop. iii, p. 771, 1851. Van Duzee, Ent. News v, p. 156, 1894.

Tettigonia acuta Walker, Homop. iii, p. 773, 1851. Van Duzee, Ent. News v, p. 156, 1894.

Acpasis viridis Prov., Nat. Can. iv, p. 352, 1872; Pet. Faune Ent. Can. iii, p. 268, 1889.

Var. *producta* Walker.

? *Tettigonia minor* Walker, Homop. iii, p. 772, 1851.

Tettigonia producta Walker, Homop. iii, p. 772, 1851. Van Duzee, Ent. News v, p. 156, 1894.

Hab.—Canada, United States, Mexico, Cuba.

? *Diedrocephala marginata* (P. Beauv.).

Tettigonia marginata P. Beauv., Hemip. Recu. Af. et Am. p. 105, pl. 19, fig. 5, 1805. Sign., Ann. Soc. Ent. Fr. ser. 3, iii, p. 803, 1855. Walker, Homop. Suppl. p. 350, 1858 (mention).

Hab.—St. Domingo.

Diedrocephala angulifera (Walker).

Tettigonia angulifera Walker, Homop. iii, p. 771, 1851. Sign., Ann. Soc. Ent. Fr. ser. 3, ii, p. 727, pl. 21, fig. 14, 1854.

Diedrocephala sp., Southwick, Science xix, p. 318, 1892.

Diedrocephala angulifera Van Duzee, Ent. News v, p. 156, 1894.

Hab.—Canada, New York, Kansas.

Diedrocephala novæboracensis (Fitch).

Aulacizes novæboracensis Fitch, Homop. N. Y. State Cab. p. 56, 1851; id. reprint in Lintner's 9th Rept. p. 396, 1893.

Tettigonia novæboracensis Walk., Homop. iv, p. 1158, 1852; Suppl. p. 192, 1858. Sign., Ann. Soc. Ent. Fr. ser. 3, ii, p. 19, pl. 2, fig. 5, 1854.

Diedrocephala novæboracensis Uhler, Bull. U. S. Geol. and Geog. Surv. ii, p. 358, 1876; iii, p. 459, 1877. Woodworth, Bull. Ill. State Lab. Nat. Hist. iii, p. 24, 1887 (*Tettigonia*). Van Duzee, Can. Ent. xxi, p. 9, 1889; Psyche v, p. 390, 1890. Osborn, Dept. of Ag, Div. of Ent. Bull. 22, p. 27, 1890; Proc. Iowa Acad. Sci. i, pt. 2, p. 11, 1892. Southwick, Science xix, p. 318, 1892. Harrington, Ottawa Nat. vi, p. 32, 1892.

Diedrocephala mollipes Prov., Pet. Faune Ent. Can. iii, p. 266, 1889.

Tettigonia prasina Walker, Homop. iii, p. 768, 1851. Van Duzee, Ent. News v, p. 155, 1894.

Hab.—Canada, New York to Maryland west to Iowa and Colorado.

Diedrocephala flaviceps Riley, Am. Ent. iii, p. 78, 1880. Howard, Insect Life vi, p. 267, 1894.

Tettigonia flaviceps Johnson and Fox, Ent. News iii, p. 60, 1892.

Hab.—Carolina to Texas.

Diedrocephala 7-guttata Walker.

Tettigonia 7-guttata Walker, Homop. iii, p. 773, 1851. Sign., Ann. Soc. Ent. Fr. ser. 3, ii, p. 727, pl. 21, fig. 15, 1854.

Diedrocephala septemguttata Walker, Homop. Suppl. p. 233, 1858. Van Duzee, Ent. News v, p. 156, 1894.

Hab.—Florida.

Diedrocephala sanguinolenta (Fabr.).

Cicada sanguinolenta Fabr., Syst. Rhyng. p. 67, 1803. Coquerb., Ill. ii, p. 79, tab. 18, fig. 12, 1801.

Tettigonia sanguinolenta Blanch., Hist. Nat. Ins. iii, p. 191, 1840. Sign., Ann. Soc. Ent. Fr. ser. 3, iii, p. 50, pl. 6, fig. 3, 1855. Walker, Homop. Suppl. p. 351, 1858. Stal, Hemip. Fab. ii, p. 78, 1869.

Tettigonia rubriguttata Walker, Homop. iii, p. 763, 1851. Van Duzee, Ent. News v, p. 155, 1894.

Hab.—"West coast of America," etc. This species may not belong to our North American fauna.

Diedrocephala typhlocyboides (Sign.).

Tettigonia typhlocyboides Sign., Ann. Soc. Ent. Fr. ser. 3, ii, p. 725, pl. 21, fig. 11, 1854. Stal, Hemip. Af. iv, p. 118, 1866.

Diedrocephala typhlocyboides Walker, Homop. Suppl. p. 234, 1858.

Hab.—Mexico, etc.

Genus *HELOCHARA* Fitch.

Fitch, Homop. N. Y. State Cab. p. 56, 1851; id. reprint in Lintner's 9th Rept. p. 396, 1893. Sign., Ann. Soc. Ent. Fr. ser. 3, ii, p. 730, 1854 (1st group, 5th series). Walker, Homop. iv, p. 1156, 1858. Prov., Pet. Faune Ent. Can. iii, p. 267, 1889.

Helochara communis Fitch, Homop. N. Y. State Cab. p. 56, 1851; id. reprint in Lintner's 9th Rept. p. 396, 1893. Walker, Homop. Suppl. p. 235, 1858. Uhler, Bull. U. S. Geol. and Geog. Surv. iii, p. 460, 1877; Wheeler's Rept. Chief of Eng. for 1877, p. 1334. Packard, Guide to Study of Ins. p. 532, 1876 (notice); Am. Nat. ii, p. 53, 1876 (mention). Van Duzee, Can. Ent. xxi, p. 9, 1889 (mention). Prov., Pet. Faune Ent. Can. iii, p. 268, 1889. Smith, Cat. Ins. N. J. p. 444, 1890 (mention). Harrington, Ottawa Nat. vi, p. 32, 1892 (mention). Osborn, Proc. Iowa Acad. Sci. i, pt. 2, p. 11, 1892 (mention). Southwick, Science xix, p. 318, 1892 (mention). Slosson, Ent. News v, p. 5, 1894 (mention).

Tettigonia communis Walker, Homop. iv, p. 1156, 1852. Sign., Ann. Soc. Ent. Fr. ser. 3, ii, p. 730, 1854, pl. 21, fig. 17.

Tettigonia herbida Walker, Homop. iii, p. 769, 1851. Van Duzee, Ent. News v, p. 155, 1894.

Hab.—Canada and New England west to British Columbia and Mexico.

Genus **EUCANTHUS** Lep. and Serv.

Lep. and Serv., Ency. Meth. x, p. 612, 1825. Burm., Handb. d. Ent. ii, 1, p. 116, 1835. Westw., Intr. to Mod. Classif. of Ins. ii, Synop. p. 116, 1840. Am. and Serv. Hemip. p. 574, 1843. Stal, Of. Vet. Ak. Forh. xix, p. 495, 1862 (notice). Fieb., Verh. zool.-bot. Gesell. Wien, xvi, p. 502, 1866. Kirschb., Cicad. v. Wiesbd. p. 15, 1868. Stal, Hemip. Fab. ii, p. 61, 1869. Sahlbg., Cicad. p. 106, 1871. Fieb., Cicad. d'Europ. i, p. 109, 1875; ii, pl. 10, 1876. Mayr, Tabellen p. 29, 1884. Edwards, Trans. Ent. Soc. Loud. 1888, p. 13. Prov., Pet. Faune Ent. Can. iii, p. 269, 1889.

Eucanthus orbitalis Fitch, Homop. N. Y. State Cab. p. 57, 1851; id. reprint in Lintner's 9th Rept. p. 397, 1893. Van Duzee, Can. Ent. xxi, p. 9, 1889. Prov., Pet. Faune Ent. Can. iii, p. 270, 1889.

Tettigonia orbitalis Walker, Homop. iv, p. 1159, 1852.

Hab.—Canada, New York, Michigan.

Subfamily GYPONINA Berg.

Berg, Hemip. Argent. p. 257, 1879. Stal, Hemip. Ins. Phil. Of. Vet. Ak. Forh. xxvii, p. 736, 1870.* Woodworth, Bull. Ill. State Lab. Nat. Hist. iii, pp. 14 and 29, 1887. Van Duzee, Trans. Am. Ent. Soc. xix, p. 297, 1892.

Scarides Am. and Serv., Hemip. p. 576, 1843 (in part). Walker, Homop. iii, p. 809, 1851 (in part).

Scaridæ Dohrn, Cat. Hemip. p. 92, 1859 (includes *Ledridæ*).

Gypopinæ Ashm., Smith Cat. Ins. of N. J. p. 443, 1890.

Genus **XEROPHLOEA** Germ.

Germar, Zeits. f. Ent. i, p. 190, 1839. Burm., Gen. Ins. i, pl. 3, 1840. Walker, Homop. iii, p. 840, 1851. Berg, Hemip. Argent. p. 257, 1879.

Mesodicus Fieb., Verh. d. zool.-bot. Gesell. Wien xvi, p. 501, 1866. Fieb., Cicad. d. Europ. i, p. 104, 1875. Puton, Cat. Hemip. ed. 1875, p. 69. Mayr, Tabellen, p. 28, 1884.

Parapholis Uhler, Bull. U. S. Geol. and Geog. Surv. iii, p. 461, 1877.

Xerophloea peltata Uhler.

Parapholis peltata Uhler, Bull. U. S. Geol. and Geog. Surv. iii, p. 461, 1877.

Xerophloea peltata Uhler, Stand. Nat. Hist. ii, p. 248, 1884. Cockerell, Trans. Am. Ent. Soc. xx, p. 364, 1893.

(NOTE.—*X. viridis* Fab. may inhabit the West Indies; see Stal, Hemip. Fabr. ii, p. 59, 1869.)

Hab.—New York to Florida, Texas, Colorado and California.

* Dr. Stal's use of this term has priority over that of Dr. Berg, but he included under it such a heterogeneous assemblage of genera as to give to it a significance quite distinct from that intended by Dr. Berg. In the latter sense it is employed here.

Genus GYPONA Germ.

Germar, Mag. d. Ent. iv, p. 73, 1821. Burm., Handb. d. Ent. ii, 1, pp. 105, 114, 1835; Gen. Ins. i, pl. 16, 1840. Blanchard, Hist. des Ins. iii, p. 195, 1840. Am. and Serv., Hemip. p. 579, 1843. Walker, Homop. iii, p. 834, 1851. Stal, Rio Janeiro Hemip. ii, p. 45, 1858; Of. Vet. Ak. Forh. xix, p. 495, 1862; Stet., Ent. Zeit. xxv, p. 81, 1864; Hemip. Fabr. ii, p. 84, 1869. Spangb., Bib. Vet. Ak. Handl. v, No. 3, p. 5, 1873. Berg, Hemip. Argent. p. 258, 1879. Woodworth, Bull. Ill. State Lab. Nat. Hist. iii, p. 29, 1887. Prov., Pet. Faune Ent. du Can. iii, p. 269, 1889.

Gypona rugosa Spangb., Species Gyponæ. p. 6, 1878.

Hab.—Mexico, Mississippi, Colorado.

Gypona 8-lineata (Say).

Tettigonia 8-lineata Say, Jour. Acad. Nat. Sci. Phila. iv, p. 340, 1824: id. Compl. Writings ii, p. 257, 1869. Harris, Hitchcock Geol. of Mass. 2d ed. p. 580, 1835. Sign., Ann. Soc. Ent. Fr. ser. 3, iii, p. 804, 1855. Walk., Homop. Suppl. p. 349, 1858. Rathvon, in Mombert Hist. of Lancaster Co., Pa., p. 551, 1869 (notice).

Gypona 8-lineata Fitch, Trans. N. Y. State Ag. Soc. xxvii, p. 893, 1867. Uhler, Bull. U. S. Geol. and Geog. Surv. ii, p. 358, 1876; iii, p. 460, 1877; iv, p. 519, 1878; Stand., Nat. Hist. ii, p. 247, 1884, var. Spangb., Species Gyponæ p. 7, 1878. Van Duzee, Psyche v, p. 390, 1890. Southwick, Science xix, p. 318, 1892. Harrington, Ottawa Nat. vi, p. 32, 1892. Osborn, Proc. Iowa Acad. Sci. i, pt. 2, p. 11, 1892.

Hab.—Canada, New York, Iowa Missouri.

Gypona cana Burm., Gen. Ins. i, pl. 16, No. 10, 1840. Walker, Homop. iii, p. 839, 1851. Spangb., Species Gyponæ p. 75, 1878 (notice); Ent. Tidsk. i, p. 23, 1881.

Gypona flavilineata Spangb., Species Gyponæ p. 8, 1878. ?

Hab.—Carolina, Texas.

Gypona quebecensis Prov., Nat. Can. iv, p. 352, 1872; Pet. Faune Ent. du Can. iii, p. 269, 1889. Harrington, Ottawa Nat. vi, p. 32, 1892.

Hab.—Canada, New York, Pennsylvania, Florida (?).

Gypona pruinosa Spangb., Species Gyponæ p. 9, 1878.

Hab.—Texas, Georgia.

Gypona scrupulosa Spangb., Species Gyponæ p. 9, 1878.

Hab.—South Carolina.

Gypona olivacea Spangb., Ent. Tidsk. i, p. 24, 1881.

Hab.—America Borealis.

Gypona striata Burm., Gen. Ins. Gen. 16, No. 9, 1840. Walker, Homop. iii, p. 839, 1851. Spangb., Species Gyponæ p. 10, 1878.

Hab.—Pennsylvania, Wisconsin to Texas (Spangb.).

Gypona flavilineata Fitch, Homop. N. Y. State Cab. p. 57, 1851; id. reprint in Lintner's 9th Rep. p. 397, 1893; Trans. N. Y. State Ag. Soc. xxvii, p. 893, 1867. Walker, Homop. iv, p. 1159, 1852 (notice); Homop. Suppl. p. 256, 1858 (notice). Van Duzee, Can. Ent. xxi, p. 9, 1889; Psyche v, p. 388, 1890. Southwick, Science xix, p. 318, 1892. Harrington, Ottawa Nat. vi, p. 32, 1892.

Tettigonia 8-lineata var. *a*, Say, Jour. Acad. Nat. Sci. Phila. iv, p. 340, 1824; Compl. Writings ii, p. 257, 1869.

Gypona 8-lineata Woodworth, Bull. Ill. State Lab. Nat. Hist. iii, p. 30, 1887. Uhler, Stand. Nat. Hist. ii, p. 247, 1884.

Hab.—Canada to Florida, Mississippi and Iowa.

(NOTE.—Probably some of the references under *G. 8-lineata* refer to this species. There is little doubt but this species is identical with the preceding, and should be known as *G. striata* Burm.)

Gypona fuscineris Stal, Stet. Ent. Zeit. xxv, p. 84, 1864. Spangb., Species Gyponæ p. 12, 1878.

Hab.—Vera Cruz.

Gypona mexicana Spangb., Species Gyponæ p. 18, 1878.

Hab.—Mexico.

Gypona obesa Spangb., Ent. Tidsk. iv, p. 102, 1883.

Hab.—Mexico.

Gypona verticalis Stal, Stet. Ent. Zeit. xxv, p. 84, 1864. Spangb., Species Gyponæ p. 75, 1878 (notice); Ent. Tidsk. i, p. 28, 1881.

Hab.—Mexico.

Gypona melanota Spangb., Species Gyponæ p. 19, 1878.

Hab.—New Jersey, Georgia.

Gypona nigra Woodworth, Bull. Ill. State Lab. Nat. Hist. iii, p. 31, 1887.

Hab.—Illinois.

Gypona bimaculata Spangb., Species Gyponæ p. 23, 1878.

Hab.—Mexico.

Gypona unicolor Stal, Stet. Ent. Zeit. xxv, p. 84, 1864. Spangb., Species Gyponæ p. 25, 1878.

Hab.—Mexico.

Gypona germari Stal, Stet. Ent. Zeit. xxv, p. 84, 1864. Spangb., Species Gyponæ p. 26, 1878; Ent. Tidsk. iv, p. 104, 1883.

Hab.—Vera Cruz.

Gypona dorsalis Spangb., Species Gyponæ p. 30, 1878.

Hab.—Mexico.

Gypona ruficauda Spangb., Ent. Tidsk. iv, p. 104, 1883.

Hab.—Mexico.

Gypona angulata Spangb., Species Gyponæ p. 32, 1878. Townsclnd, Can. Ent. xxiv, p. 196, 1892 (mention).

Hab.—Texas, Arizona, Colorado.

Gypona tenella Spangb., Species Gyponæ p. 34, 1878.

Hab.—Georgia.

Gypona cinerea Uhler, Bull. U. S. Geol. and Geog. Surv. iii, p. 460, 1877. Spangb., Species Gyponæ p. 75, 1878 (notice). Woodworth, Bull. Ill. State Lab. Nat. Hist. iii, p. 32, 1887.

Hab.—Connecticut, Illinois, Kansas, Utah.

Gypona meditabunda Spangb., Species Gyponæ p. 39, 1878.

Hab.—Texas.

Gypona signoreti Stal, Stet. Ent. Zeit. xxv, p. 83, 1864. Spangb., Species Gyponæ p. 42, 1878.

Hab.—Mexico.

Gypona citrina Spangb., Species Gyponæ p. 45, 1878.

Hab.—Texas.

Gypona pauperata Spangb., Ent. Tidsk. i, p. 33, 1881.

Hab.—North America.

Gypona badia Walker.

Tettigonia badia Walker, Horrop. iii, p. 756, 1851.

Gypona badia Stal, Of. Vet. Ak. Forh. xix, p. 495, 1862. ? Van Duzee, Ent. News, v, p. 157, 1894.

Hab.—North America.

Gypona pectoralis Spangb., Species Gyponæ p. 46, 1878; Ent. Tidsk. i, p. 33, 1881.

Hab.—Illinois.

Gypona albimarginata Woodworth, Bull. Ill. State Lab. Nat. Hist. iii, p. 31, 1887. Harrington, Ottawa Nat. vi, p. 32, 1892.

Gypona hullensis Prov., Pet. Faune Ent. du Can. iii, p. 269, 1889.

Hab.—Canada, Michigan, Illinois.

Gypona bipunctulata Woodworth, Bull. Ill. State Lab. Nat. Hist. iii, p. 30, 1887.

Hab.—Illinois.

Gypona limbaticpennis Spangb., Species Gyponæ p. 47, 1878.

Hab.—Illinois.

Gypona wallengreni Stal, Stet. Ent. Zeit. xxv, p. 82, 1864. Spangb., Species Gyponæ p. 50, 1878.

Hab.—Mexico.

Gypona vinula Stal, Stet. Ent. Zeit. xxv, p. 81, 1864. Spangb., Species Gyponæ p. 51, 1878; Ent. Tidsk. i, p. 33, 1881.

Hab.—Mexico.

Gypona bohemani Stal, Stet. Ent. Zeit. xxv, p. 81, 1864. Spangb., Species Gyponæ p. 52, 1878.

Hab.—Vera Cruz.

Gypona puncticollis Spangb., Species Gyponæ p. 54, 1878.

Hab.—Texas.

Gypona quadri-notata Spangb., Species Gyponæ p. 56, 1878.

Hab.—Georgia, Texas.

Gypona conspersa Spangb., Species Gyponæ p. 60, 1878.

Hab.—Mexico.

Gypona irrorella Spangb., Species Gyponæ p. 60, 1878.

Hab.—Texas, Florida.

Gypona punctipennis Stal, Stet. Ent. Zeit. xxv, p. 82, 1864. Spangb., Species Gyponæ p. 61, 1878.

Hab.—Mexico.

Gypona dohrni Stal, Stet. Ent. Zeit. xxv, p. 82, 1864. Spangb., Species Gyponæ p. 62, 1878; Ent. Tidsk. iv, p. 106, 1883.

Hab.—Mexico.

Gypona modesta Spangb., Ent. Tidsk. iv, p. 107, 1883.

Hab.—Illinois.

Gypona sanguinolenta Spangb., Species Gyponæ p. 63, 1878.

Hab.—Georgia, Texas.

Gypona scarlatina Fitch, Homop. N. Y. State Cab. p. 57, 1851; id. reprint in Lintner's 9th Rept. p. 397, 1893. Walker, Homop. iv, p. 1159, 1852 (notice). Van Duzee, Psyche v, p. 388, 1890.

Hab.—New York, Michigan.

Gypona annulipes Spangb., Ent. Tidsk. i, p. 35, 1881.

Hab.—Cuba.

Gypona bimaculata Woodworth.

Gypona bimaculata Woodworth, Bull. Ill. State Lab. Nat. Hist. iii, p. 32, 1887.

Hab.—Illinois.

Gypona grisea Spangb., Species Gyponæ p. 64, 1878.

Hab.—Georgia.

Gypona adspersa Stal, Of. Vet. Ak. Forh. xi, p. 252, 1854. Walker, Homop. Suppl. p. 255, 1858 (mention). Spangb., Species Gyponæ p. 67, 1878; Ent. Tidsk. iv, p. 106, 1883.

Hab.—South America; Mexico (Spangb.).

Gypona schaumii Stal, Stet. Ent. Zeit. xxv, p. 83, 1864. Spangb., Species Gyponæ p. 68, 1878.

Hab.—Mexico.

Gypona funebris Spangb., Ent. Tidsk. i, p. 37, 1881.

Hab.—Mexico.

Gypona mystica Spangb., Species Gyponæ p. 71, 1878. Berg, Hemip. Argent. p. 263, 1879.

Hab.—Mexico and South America.

Gypona fraudulentata Spangb., Ent. Tidsk. iv, p. 108, 1883.

Hab.—Mexico.

Gypona fraterna Spangb., Species Gyponæ p. 72, 1878.

Hab.—Texas.

Gypona millaris Stal, Stet. Ent. Zeit. xxv, p. 83, 1864. Spangb., Species Gyponæ p. 73, 1878.

Hab.—Vera Cruz.

Doubtful Species.

Gypona subtacta Walker, Homop. Suppl. p. 256, 1858.

Hab.—Mexico.

Gypona viridescens Walker, Homop. Suppl. p. 257, 1858.

Hab.—Mexico.

Gypona colon Fitch MS. See Osborn, Proc. Iowa Acad. Sci. i, pt. 2, p. 11, 1892. (NOTE.—This and the following species are unknown to me. No description of them has ever been published.)

Gypona columba Fitch MS. See Uhler, Proc. Bost. Soc. Nat. Hist. xii, p. 327, 1869.

Genus ZINNECA Am. and Serv.

Am. and Serv., Hemip. p. 579, 1843. Walker, Homop. iii, p. 834, 1851. See Stal, Rio Janeiro Hemip. ii, p. 49, 1862 (mentioned).

Zinneca flavidorsum Am. and Serv., Hemip. p. 579, 1843, pl. 11, fig. 2. Walk., Homop. iii, p. 834, 1851 (mention).

Hab.—Pennsylvania.

Genus *PENTHIMIA* Germ.

- Germ., Mag. der Ent. iv, p. 46, 1821. Gray, Griffith's An. Kingd. xv, p. 226, 1832. Burm., Handb. d. Ent. ii, 1, pp. 105, 115, 1835. Westw., Intr. Mod. Classif. Ins. ii, Synop. p. 117, 1840. Am. and Serv., Hemip. p. 580, 1843. Walker, Homop. iii, p. 840, 1851. Stal. Hemip. Af. iv, pp. 100, 107, 1866. Kirschb., Cicad. v. Wiesb. pp. 14, 71, 1868. Fieb., Cicad. d'Europ. i, p. 105, pl. 11, figs. 43, 44, 1875; ii, pl. 10, 1876. Mayr, Tabellen p. 28, 1884. Uhler, Stand. Nat. Hist. ii, p. 246, 1884. Prov., Pet. Faune Ent. du Can. iii, p. 270, 1889.
- Penthimia americana* Fitch, Homop. N. Y. State Cab. p. 57, 1851; id. reprint in Lintner's 9th Rept. p. 397, 1893. Walker, Homop. iv, p. 1160, 1852 (mention). Uhler, Stand. Nat. Hist. ii, p. 246, 1884. Van Duzee, Psyche v. p. 388, 1890. Osborn, Proc. Iowa Acad. Sci. i, pt. 2, p. 11, 1892.
- Penthimia vicaria* Walker, Homop. iii, p. 841, 1851.
- Penthimia picta* Prov., Nat. Can. iv, p. 352, 1872. Prov., Pet. Faune Ent. du Can. iii, p. 270, 1889.

Hab.—New York to Florida and Michigan.

Family JASSIDÆ.

- Jassides* Am. and Serv., Hemip. p. 581, 1843 (group). Walker, Homop. iii, p. 843, 1851 (group). Provancher, Pet. Faune Ent. du Can. iii, p. 271, 1889 (family).
- Jassida* Stal, Of. Vet. Ak. Förh. xxvii, p. 735, 1870 (subfamily) [Includes *Gypsonina*].
- Jassina* Uhler, Bull. U. S. Geol. and Geog. Surv. ii, p. 358, 1876 (subfamily) [Includes *Bythoscopidæ*]. Berg, Hemip. Argent. p. 263, 1879 (subfamily).
- Jassinæ* Uhler, Bull. U. S. Geol. and Geog. Surv. iii, p. 462, 1877 (subfamily). [Includes *Bythoscopidæ*].
- Jassidæ* Osborn, Ent. Am. i, p. 26, 1885 [Includes *Bythoscopidæ*?]. Ashmead, Ent. Am. iv, p. 67, 1888. Van Duzee, Can. Ent. xxi, p. 9, 1889 [omits *Typhlocybina*]. Van Duzee, Trans. Am. Ent. Soc. xix, p. 297, 1892.

Subfamily ACOCEPHALINA.

- Acocephalidæ* Dohrn, Cat. Hemip. p. 84, 1859. Kirschb., Cicad. v. Wiesb. p. 15, 1868 (subfamily). Fieber, Cat. Cicad. Eur. p. 10, 1872 (subfamily). Mayr, Tabellen p. 27, 1884 (subfamily). Edwards, Trans. Ent. Soc. Lond. 1886, p. 45 (family).
- Acocephalidæ* Sahlbg., Cicad. pp. 72, 352, 1871 (tribe).
- Acocephalini* Puton, Cat. Hemip. Palæ. p. 79, 1886 (tribe).
- Acocephalina* Van Duzee, Trans. Am. Ent. Soc. xix, p. 297, 1892 (subfamily).

Genus *STRONGYLOCEPHALUS* Flor.

- Flor, Rhynch. Livl. ii, p. 109, 1861. Kirschb., Cicad. v. Wiesb. p. 73, 1868. Sahlbg., Cicad. pp. 72, 352, 1871. Fieber, Cicad. d'Europ. i, p. 111, 1875; ii, pl. 11, 1876. Mayr, Tabellen p. 29, 1884. Edwards, Trans. Ent. Soc. Lond. 1888, p. 17. Van Duzee, Trans. Am. Ent. Soc. xix, p. 298, 1892.
- Strongylocephalus agrestis* (Fall.).
- Cicada agrestis* Fallen, Act. Holm. xxvii, p. 23, 1806; Hemip. Succ. Cicad. p. 36, 1829.

Selenocephalus agrestis Burm., Gen. Ins. i, pl. 12, 1940. Walker, Homop. iii, p. 852, 1851.

Strongylocephalus agrestis Flor, Rhynch. Livl. ii, p. 210, 1861. Kirschb., Cicad. v. Wiesb. p. 74, 1868. Sahlbg., Cicad. p. 353, 1871. Edwards, Trans. Ent. Soc. Lond. 1888, p. 18.

Hab.—New York, Michigan.

Genus **ACOCEPHALUS** Germ.

Germar, Silb. Rev. i, p. 181, 1833. Burma., Handb. d. Ent. ii, pt. 1, pp. 105, 111, 1835; Gen. Ins. i, pl. 11, 1840. Westw., Intr. Classif. Ins. ii, Synop. p. 116, 1840 (*Acocephalus*). Am. and Serv., Hemip. p. 582, 1843. Walker, Homop. iii, p. 846, 1851 (notice). Kirschb., Cicad. v. Wiesb. pp. 15, 73, 74, 1868. Sahlbg., Cicad. pp. 72, 355, 1871. Fieb., Cicad. d'Europ. i, p. 111, 1875; ii, pl. 11, 1876. Sign., Ann. Soc. Ent. Fr. ser. 5, ix, pp. 50, 61, 1879. Berg. Hemip. Argent. p. 264, 1879. Mayr, Tabellen, p. 30, 1884. Uhler, Stand. Nat. Hist. ii, p. 247, 1884 (notice). Edwards, Trans. Ent. Soc. Lond. 1888, p. 19. Provancher, Pet. Faune Ent. du Can. iii, pp. 273, 282, 1889. Van Duzee, Trans. Am. Ent. Soc. xix, p. 298, 1892.

Acocephalus striatus (Linn.) See Walker, Homop. iii, p. 848, for synonymy; also: Edwards, Trans. Ent. Soc. Lond. 1888, p. 19. Puton, Cat. Hemip. Palæ. p. 79, 1886. *Nervosus* Schrank, Uhler, Stand. Nat. Hist. ii, p. 247, 1884.

Hab.—Canada, New York.

Acocephalus mixtus (Say).

Tettigonia mixta Say, Jour. Acad. Nat. Sci. Phila. iv, p. 341, 1825; id. reprint Compl. Writings ii, p. 258. Walker, Homop. iv, p. 1157, 1852 (mention).

Acocephalus mixtus Van Duzee, Psyche v, p. 390, 1890. Southwick, Science xix, p. 318, 1892.

Hab.—Canada, New York, Michigan.

? *Acocephalus solidaginis* Walker, Homop. iii, p. 847, 1851. (This may be a *Phlepsius*).

Hab.—North America (Walk.).

? *Acocephalus circumflexus* Prov., Pet. Faune Ent. Can. iii, p. 282, 1890.

Hab.—Canada.

Genus **XESTOCEPHALUS** Van Duzee.

Van Duzee, Trans. Am. Ent. Soc. xix, p. 298, 1892; Bull. Buff. Soc. Nat. Sci. v, No. 4, 1894.

Xestocephalus pulicarius Van Duzee, Bull. Buff. Soc. Nat. Sci. v, No. 4, 1894.

Hab.—Canada, New York.

Xestocephalus fulvocapitatus Van Duzee, Bull. Buff. Soc. Nat. Sci. v, No. 4, 1894.

Hab.—New York.

Xestocephalus tessellatus Van Duzee, Bull. Buff. Soc. Nat. Sci. v, No. 4, 1894.

Hab.—North Carolina, Florida, Mississippi.

Subfamily JASSINA.

Jassidæ Dohrn, Cat. Hemip. p. 86, 1859. Kirschb., Cicad. v. Wiesb. p. 15, 1868 (subfamily). Mayr, Tabellen p. 30, 1884 (subfamily). Edwards, Trans. Ent. Soc. Lond. 1886, p. 45 (family). Harrington, Ottawa Nat. vi, p. 32, 1892 (includes *Ulopa*).

Jassides Sahlb., Cicad. p. 70, 1871 (tribe).

Jassini Puton, Cat. Hemip. Palæ. p. 81, 1886 (tribe).

Jassina Van Duzee, Trans. Am. Ent. Soc. xix, p. 297, 1892.

Tribe DORYDINI.

Dorididæ Fieb., Cat. Europ. Cicad. p. 10, 1872.

Doridini Van Duzee, Trans. Am. Ent. Soc. xix, p. 288, 1892.

Genus COCHLORHINUS Uhler.

Uhler, Bull. U. S. Geol. and Geog. Surv. ii, p. 358, 1876. Van Duzee, Trans. Am. Ent. Soc. xix, p. 288, 1892.

Cochlorhinus pluto Uhler, Bull. U. S. Geol. and Geog. Surv. ii, p. 358, 1876.

Hab.—California.

Genus DORYCEPHALUS Kusch.

Kuschakew, Horæ Soc. Ent. Ross. iv, 2, p. 102, pl. 2, 1866. Fieb., Cicad. d'Europ. i, p. 114, 1875; ii, pl. 11, 1876. Van Duzee, Trans. Am. Ent. Soc. xix, p. 298, 1892.

Dorycephalus Osborn, Proc. Iowa Acad. Sci. i, pt. 2, p. 11, 1892.

Hab.—Iowa.

Genus HECALUS Stal.

Stal, Ann. Soc. Ent. Fr. ser. 4, iv, p. 65, 1864. Hemip. Af. iv, pp. 101, 813, 1866. Of. Vet. Ak. Ford. xxvii, p. 736, 1870. Sign., Ann. Soc. Ent. Fr. ser. 5, ix, p. 51, 1879. Berg, Hemip. Argent. p. 273, 1879. Uhler, Stand. Nat. Hist. ii, p. 247, 1884. Van Duzee, Trans. Am. Ent. Soc. xix, p. 299, 1892.

Glossocratus Fieb., Verh. d. zool.-bot. Gesell. xvi, p. 502, 1866. Fieb., Cicad. d'Europ. i, p. 116, 1875; ii, pl. 11, 1876. Puton, Cat. Hemip. Palæ. p. 80, 1886 (reference).

Hecalus fenestratus (Uhler).

Glossocratus fenestratus Uhler, Bull. U. S. Geol. and Geog. Surv. iii, p. 464, 1877.

Hecalus fenestratus Sign., Ann. Soc. Ent. Fr. ser. 5, ix, p. 268, 1879; id. Ann. Soc. Ent. ser. 5, x, p. 42, pl. 1, fig. 37, 1880.

Hab.—New Jersey, Kansas.

Hecalus lineatus Uhler.*Glossocratus lineatus* Uhler, Bull. U. S. Geol. and Geog. Surv. iii, p. 463, 1877*Hecalus lineatus* Uhler, Stand. Nat. Hist. ii, p. 247, 1884.*Hab.*—New Jersey.Genus **SPANGBERGIELLA** Sign.

Sign., Ann. Soc. Ent. Fr. ser. 5, ix, p. 273, 1879.

Spangbergiella vulneratus (Uhler).*Glossocratus vulneratus* Uhler, Bull. U. S. Geol. and Geog. Surv. iii, p. 464, 1877.*Spangbergia vulneratus* Uhler, Stand. Nat. Hist. ii, p. 247, 1884.*Spangbergiella vulneratus* Sign., Ann. Soc. Ent. Fr. ser. 5, ix, p. 274, 1879; ser. 5, x, p. 43, 1880.*Hab.*—Texas to South America.Genus **PARABOLOCRATUS** Fieb.

Fieb., Verh. d. zool.-bot. Gesell. Wien, xvi, p. 502, 1866; Cicad. d'Europ. i, p. 117, 1875; ii, pl. 12, 1876. Stal, Of. Vet. Ak. Förh. xxvii, p. 736, 1870 (erroneous reference). Sign., Ann. Soc. Ent. Fr. ser. 5, ix, p. 275, 1879; x, p. 41, 1880. Van Duzee, Trans. Am. Ent. Soc. xix, p. 299, 1892.

Parabolocratius viridis Uhler.*Glossocratus viridis* Uhler, Bull. U. S. Geol. and Geog. Surv. iii, p. 462, 1877.*Parabolocratius viridis* Uhler, Stand. Nat. Hist. ii, p. 247, 1884. Osborn, Proc. Iowa Acad. Sci. i, pt. 2, fig. 2, p. 11, 1892.*Gypona reverta* Uhler, 4th Ann. Rept. U. S. Geol. and Geog. Surv. p. 472, 1872.*Hab.*—Canada, Massachusetts and New York to Iowa and Colo.Genus **PARAMESUS** Fieb.

Fieb., Verh. d. zool.-bot. Gesell. Wien, xvi, p. 506, 1866; Cicad. d'Europ. i, p. 112, 1875; ii, pl. 11, 1876. Sahlbg., Cicad. pp. 71, 285, 1871. Mayr, Tabellen p. 30, 1884. Edwards, Trans. Ent. Soc. Lond. 1888, pp. 17, 29. Van Duzee, Trans. Am. Ent. Soc. xix, p. 299, 1892.

Paramesus twiningi (Uhler).*Jassus twiningi* Uhler, Bull. U. S. Geol. and Geog. Surv. iv, p. 511, 1878.*Paramesus* sp. Osborn, Proc. Iowa Acad. Sci. i, pt. 2, p. 12, 1892.*Hab.*—Dakota, Iowa.**Paramesus vitellinus** (Fitch).*Acocephalus vitellinus* Fitch, Homop. N. Y. State Cab. p. 57, 1851; id. reprint in Lintner's 9th Rept. p. 397, 1893. Walker, Homop. iv, p. 1160, 1852 (mention). Van Duzee, Can. Ent. xxi, p. 9, 1889 (mention).*Selenocephalus vitellinus* Ashm., Smith Ins. of N. J. p. 445, 1890. Van Duzee, Psyche v, p. 390, 1890.*Parabolocratius vitellinus* Southwick, Science xix, p. 318, 1892.*Hab.*—Canada, New York, New England, Michigan.

Tribe DELTOCEPHALINI.

Deltocephalidæ Fieb., Cat. d. Europ. Cicad. p. 13, 1871.

Deltocephalini Van Duzee, Trans. Am. Ent. Soc. xix, p. 298, 1892.

Genus PLATYMETOPIUS Burm.

Burm., Gen. Ins. i, pl. 14, subg. 4, 1840. Walker, Homop. Suppl. p. 270, 1858 (mention). Fieb., Verh. zool.-bot. Gesell. Wien, xvi, p. 506, 1866. Kirschb., Cicad. v. Wiesb. pp. 82, 146, 1868. Fieb., Verh. zool.-bot. Gesell. Wien, xix, p. 201, 1869. Sahlbg., Cicad. pp. 72, 295, 1871. Fieb., Cicad. d'Europ. i, p. 124, 1875; ii, pl. 13, 1876. Sign., Ann. Soc. Ent. Fr. ser. 5, ix, p. 52, 1879. Berg, Hemip. Argent. p. 272, 1879. Mayr, Tabellen p. 35, 1884. Edwards, Trans. Ent. Soc. Lond. 1888, pp. 17, 26. Prov., Pet. Faune Ent. du Can. iii, p. 274, 1889. Van Duzee, Trans. Am. Ent. Soc. xix, p. 299, 1892.

Platymetopius acutus (Say).

Jassus acutus Say, Jour. Acad. Nat. Sci. Phila. vi, p. 306, 1831; id. reprint Compl. Writings ii, p. 382, 1869. Fitch, Homop. N. Y. State Cab. p. 62, 1851 (mention); id. reprint Lintner's 9th Rept. p. 402, 1893. Walker, Homop. iii, p. 894, 1851; iv, p. 1163, 1852 (mention).

Platymetopius acutus Uhler, Bull. U. S. Geol. and Geog. Surv. iii, p. 473, 1877. Prov., Pet. Faune Ent. du Can. iii, p. 275, 1889. Van Duzee, Can. Ent. xxi, p. 11, 1889 (mention); Psyche v, p. 389, 1890. Harrington, Ottawa Nat. vi, p. 32, 1892 (mention). Osborn, Proc. Iowa Acad. Sci. i, pt. 2, p. 12, 1892 (mention). Townsend, Can. Ent. xxiv, p. 197, 1892 (mention). Davis, Bull. 102, Mich. Ag. Exper. Station p. 8, pl. 1, fig. 3, 1893. Van Duzee, Lintner's 9th Rept. p. 410, 1893.

Hab.—Canada, United States west to Rocky Mountains.

Platymetopius frontalis Van Duzee, Can. Ent. xxii, p. 112, 1890. Osborn, Proc. Iowa Acad. Sci. i, pt. 2, p. 12, 1892. Southwick, Science xix, p. 318, 1892.

Platymetopius albopunctatus Fitch MS. Ashm., Smith's Cat. Ins. N. J. p. 445, 1890.

Hab.—Canada, New York, Illinois, Iowa, Kansas.

Platymetopius elegans Van Duzee, Ent. Am. vi, p. 94, 1890.

Hab.—California.

Platymetopius modestus Stal, Of. Vet. Ak. Förh. xi, p. 255, 1854. Walker, Homop. Suppl. p. 270, 1858.

Hab.—Carolina (Stal).

? **Platymetopius magdalenensis** Prov., Pet. Faune Ent. Can. iii, p. 275, 1882.

Hab.—Quebec.

(NOTE.—Burmeister, Gen. Ins. i, genus *Jassus*, mentions two undescribed species from Pennsylvania under the names: *Jassus impluviatus* Germ. *Jassus meta* Germ., but the descriptions were never published, and we do not now know to which species they were applied.)

Genus **DELTOCEPHALUS** Burm.

Burm., Gen. Ins. i, pl. 14, subg. 3, 1840. Fieb., Verh. zool.-bot. Gesell. Wien, xvi, p. 506, 1866; xix, p. 203, 1869. Kirschb., Cicad. v. Wiesb. pp. 82, 123, 1868. Sahlbg., Cicad. pp. 72, 298, 1871. Fieb., Cicad. d'Europ. i, p. 124, 1875; ii, pl. 13, 1876. Berg, Hemip. Argent. p. 268, 1879. Mayr, Tabellen p. 35, 1884. Edwards, Trans. Ent. Soc. Lond. 1888, pp. 33, 42. Prov., Pet. Faune Ent. Can. iii, pp. 273, 277, 1889. Van Duzee, Trans. Am. Ent. Soc. xix, p. 299, 1892.

Deltocephalus sayi (Fitch).

Amblycephalus sayi Fitch, Homop. N. Y. State N. Y. Cab. p. 61, 1851; id. reprint Lintner's 9th Rept. p. 401, 1893.

Jassus sayi Walker, Homop. iv, p. 1158, 1852.

Deltocephalus sayi Uhler, Bull. U. S. Geol. and Geog. Surv. iv, p. 511, 1878. Prov., Pet. Faune Ent. Can. iii, p. 280, 1889. Van Duzee, Can. Ent. xxi, p. 11, 1889; Psyche v, p. 390, 1890. Harrington, Ottawa Nat. vi, p. 32, 1892. Osborn, Proc. Iowa Acad. Sci. pt. 2, p. 12, 1892. Southwick, Science xix, p. 288, 1892. Van Duzee, in Lintner's 9th Rept. p. 410, 1893.

Hab.—Canada, N. and E. States to Iowa, Colorado and Miss.

Deltocephalus weedi Van Duzee, Trans. Am. Ent. Soc. xix, p. 306, 1892.

Hab.—Mississippi.

Deltocephalus signatifrons Van Duzee, Trans. Am. Ent. Soc. xix, p. 305, 1892.

Hab.—Colorado.

Deltocephalus minki Fieb., Verh. zool.-bot. Gesell. Wien, xix, p. 217, 1869, topl. 6, fig. 45. Prov., Pet. Faune Ent. Can. iii, p. 279, 1889.

Hab.—Canada, New York; also Europe.

Deltocephalus minutus Van Duzee, Ent. Am. vi, p. 96, 1890.

Hab.—California.

Deltocephalus melscheimeri (Fitch).

Amblycephalus melscheimeri Fitch, Homop. N. Y. State Cab. p. 61, 1851; id. reprint in Lintner's 9th Rept. p. 401, 1893.

Jassus melscheimeri Walker, Homop. iii, p. 895, 1851.

Tettigonia melscheimeri Walker, Homop. iv, p. 1158, 1852.

Deltocephalus melscheimeri Van Duzee, Psyche v, p. 390, 1890. Harrington, Ottawa Nat. vi, p. 32, 1892.

Deltocephalus debilis Osborn, Iowa Ag. Exper. Station, Bull. 13, p. 100, 1891; id. Rept. Iowa Ag. Soc. for 1892, p. 688; Papers on Iowa Ins. p. 56; Proc. Iowa Acad. Sci. i, pt. 2, p. 12, 1892; Bull. 30, Div. of Ent. p. 45, 1893.

Hab.—Canada, New York, Michigan, Iowa, Colorado.

Deltocephalus debilis Uhler, Bull. U. S. Geol. and Geog. Surv. ii, p. 360, 1876.

Van Duzee, Can. Ent. xxi, p. 11, 1889. Harrington, Ottawa Nat. vi, p. 32, 1892.

Deltocephalus melscheimeri Osborn, Proc. Iowa Acad. Sci. i, pt. 2, p. 12, 1892.

Hab.—Canada, New York to Iowa, Colorado.

Deltocephalus argenteolus Uhler, Bull. U. S. Geol. and Geog. Surv. iii, p. 473, 1877.

Hab.—Colorado.

Deltocephalus configuratus Uhler, Bull. U. S. Geol. and Geog. Surv. iv, p. 511, 1879. Van Duzee, Can. Ent. xxi, p. 11, 1889. Harrington, Ottawa Nat. vi, p. 5, 1894.

Hab.—Canada, White Mountains, New York, Dakota.

Deltocephalus cinerosus Van Duzee, Trans. Am. Ent. Soc. xix, p. 305, 1892.

Hab.—California.

Deltocephalus osborni Van Duzee, Trans. Am. Ent. Soc. xix, p. 304, 1892.

Hab.—New York, Iowa.

Deltocephalus simplex Van Duzee, Trans. Am. Ent. Soc. xix, p. 304, 1892.

Hab.—New York, New Jersey, Maryland.

Deltocephalus fuscinervosus Van Duzee.

Hab.—California.

Deltocephalus flavocostatus Van Duzee, Can. Ent. xxiv, p. 116, 1892. Weed, Can. Ent. xxiv, p. 279, 1892.

Deltocephalus harrisi Fitch MS.

Hab.—Mississippi.

Deltocephalus coquilletti Van Duzee, Ent. Am. vi, p. 95, 1890.

Hab.—California.

Deltocephalus nigrifrons Forbes.

Cicadula nigrifrons Forbes, 14th Rept. Ill. State Ent. p. 67, pl. v, fig. 3, 1864.

Hab.—New York, Illinois, Mississippi, New Mexico, California.

Deltocephalus concentricus Van Duzee.

Hab.—Colorado.

Deltocephalus inimicus (Say).

Jassus inimicus Say, Jour. Acad. Nat. Sci. Phila. vi, p. 305, 1831; id. reprint Compl. Writings ii, p. 382, 1869. Walker, Homop. iii, p. 895, 1851; iv, p. 1163, 1852. Forbes, 14th Rept. State Ent. Ill. pp. 22, 67, 1864.

Amblycephalus inimicus Fitch, Homop. N. Y. State Cab. p. 61, 1851; id. reprint in Lintner's 9th Rept. p. 401, 1893.

Tettigonia inimica Walker, Homop. iv, p. 1158, 1852.

Deltocephalus inimicus Van Duzee, Can. Ent. xxi, p. 11, 1889. Prov. Pet. Faune Ent. Can. iii, p. 278, 1889. Van Duzee, Psyche v, p. 389, 1890. Osborn, Bull. 13, Iowa Ag. Exper. Station, p. 99, 1891; id. Rept. Iowa State Ag. Soc. 1892, p. 687; Papers on Iowa Insects p. 65; Insect Life v, p. 113, 1892; Proc. Iowa Acad. Sci. i, pt. 2, p. 12, 1892. Southwick,

Science xix, p. 288, 1892. Osborn, Bull. 30, Div. of Ent. p. 45, 1893.
Van Duzee, in Lintner's 9th Rept. p. 410, 1893.

Jassus 6-punctatus Prov., Nat. Can. iv, p. 378, 1872.

Hab.—Canada, United States west to Rocky Mountains.

? *Deltocephalus chlamidatus* Prov., Pet. Faune Ent. Can. iii, p. 339, 1890.

Hab.—Quebec.

? *Deltocephalus superbus* Prov., Pet. Faune Ent. Can. iii, p. 339, 1890.

Hab.—Quebec.

? *Deltocephalus citronellus* Prov., Pet. Faune Ent. Can. iii, p. 279, 1889 (this is not his *Jassus citronellus* (Nat. Can. iv, p. 378, 1872) as stated by him).

Hab.—Canada.

? *Deltocephalus retrorsus* Uhler MS. Osborn, Proc. Iowa Acad. Sci. i, pt. 2, p. 12, 1892 (this and the next are unknown to me, as no descriptions of them have been published. They may represent some of the described species enumerated above).

? *Deltocephalus virgulatulus* Uhler MS. Osborn, Proc. Iowa Acad. Sci. i, pt. 2, p. 12, 1892.

Hab.—Iowa.

Genus ALLYGUS Fieb.

Fieb., Cat. Europ. Cicad. p. 13, 1871; Cicad. d'Europ. i, p. 123, 1875; ii, pl. 13, 1876. Edwards, Trans. Ent. Soc. Lond. 1888, pp. 33, 59. Van Duzee, Ent. Am. vi, p. 93, 1890 (notice); id. Trans. Am. Ent. Soc. xix, p. 299, 1892.

Jassus Mayr, Tabellen p. 34, 1884. Puton, Cat. Hemip. Palæ. p. 84, 1886.

Allygus costumaculatus Van Duzee.

Hab.—Texas.

Allygus inscriptus Van Duzee, Ent. Am. vi, p. 92, 1890.

Hab.—California.

Allygus (?) *irrorellus* (Stal).

Athysanus irrorellus St. Frega. Eug. Resa, Ins. p. 295, 1859.

Hab.—California.

Genus GONIAGNATHUS Fieb.

Fieb., Verh. zool.-bot. Gesell. Wien, xvi, p. 506, 1866; Cicad. d'Europ. i, p. 123, 1875; ii, pl. 13, 1876. Mayr, Tabellen p. 34, 1884. Van Duzee, Trans. Am. Ent. Soc. xix, p. 299, 1892.

Goniagnathus palmeri Van Duzee, Can. Ent. xxiii, p. 171, 1891.

Hab.—North Carolina.

Tribe ATHYSANINI.

Van Duzee, Trans. Am. Ent. Soc. xix, p. 288, 1892.

Genus ATHYSANUS Burm.

Burm., Gen. Ins. i, pl. 14, subg. 2, 1840. Am. and Serv., Hemip. p. 587, 1843 (notice). Kirschb., Die Athysanus Arten v. Wiesb. p. 3, 1858. Walker, Homop. Suppl. p. 268, 1858 (notice). Fieb., Verh. zool.-bot. Gesell. Wien, xvi, p. 505, 1866. Kirschb., Cicad. v. Wiesb. pp. 81, 102, 1868. Stal, Hemip. Fabr. ii, p. 83, 1869 (mention). Sablbg., Cicad. pp. 71, 260, 1871. Fieb., Cicad. d'Europ. i, p. 122, 1875; ii, pl. 12, 1876. Berg, Hemip. Argent. p. 265, 1879. Mayr, Tabellen p. 33, 1884. Edwards, Trans. Ent. Soc. Lond. 1888, pp. 33, 35. Prov., Pet. Faune Ent. Can. iii, p. 281, 1889. Van Duzee, Trans. Am. Ent. Soc. xix, p. 299, 1892.

Athysanus obsoletus Kirschb., Die Athysanus Arten v. Wiesb. p. 7, 1858; Cicad. v. Wiesb. p. 109, 1868. Edwards, Trans. Ent. Soc. Lond. 1888, p. 40. Prov., Pet. Faune Ent. Can. iii, p. 281, 1889. Osborn, Proc. Iowa Acad. Sci. i, pt. 2, p. 12, 1892.

Hab.—Canada, New York, Iowa.

Athysanus extrusus Van Duzee, Can. Ent. xxv, p. 283, 1893.

Hab.—Canada, New York, New Hampshire, Connecticut, Michigan, Kansas.

Athysanus sexvittatus Van Duzee, Can. Ent. xxvi, p. 93, 1894.

Hab.—Colorado.

Athysanus comma Van Duzee, Can. Ent. xxiv, p. 114, 1892.

Hab.—Iowa.

Athysanus plutonius (Uhler).

Jassus plutonius Uhler, Bull. U. S. Geol. and Geog. Surv. iii, p. 470, 1877.

Athysanus plutonius Prov., Pet. Faune Ent. Can. iii, p. 282, 1889. Harrington, Ottawa Nat. vi, p. 32, 1892.

Hab.—Canada, New York, Dakota, Colorado, Texas.

Athysanus anthracinus Van Duzee, Can. Ent. xxvi, p. 136, 1894.

Schleroracis anthracinus Uhler MS.

Conogonus gagates Ashm. MS. Osborn, Proc. Iowa Acad. Sci. i, pt. 2, p. 12, 1892.

Hab.—Iowa, Kansas, Colorado.

Athysanus Van Duzee.

Hab.—Kansas, Colorado.

Athysanus Van Duzee.

Hab.—Florida.

Athysanus curtisii (Fitch).

Amblycephalus curtisii Fitch, Homop. N. Y. State Cab. p. 61, 1851; id. reprint in Lintner's 9th Rept. p. 401, 1893.

Tettigonia curtisii Walker, Homop. iv, p. 1159, 1852; id. Homop. Suppl. p. 348, 1858.

Deltocephalus curtisii Prov., Pet. Faune Ent. Can. iii, p. 278, 1889.

Athysanus curtisii Van Duzee, Psyche v, p. 290, 1890. Osborn, Proc. Iowa Sci. i, pt. 2, p. 12, 1892 (mention). Southwick, Science xix, p. 288, 1892.

Jassus nervatus Prov., Nat. Can. iv, p. 378, 1872.

Hab.—Canada, New York, New Hampshire, Pennsylvania, Iowa, Michigan.

Athysanus bicolor Van Duzee, Can. Ent. xxiv, p. 114, 1892. Weed, Can. Ent. xxiv, p. 279, 1892.

Hab.—Mississippi, Kansas.

Athysanus obtutus Van Duzee, Can. Ent. xxiv, pp. 115, 156, 1892. Weed, Can. Ent. xxiv, p. 279, 1892.

Hab.—Mississippi.

(By a typographical error this name was spelled *obtusus* in the original description.)

Athysanus instabilis Van Duzee, Can. Ent. xxv, p. 284, 1893; Bull. 102, Mich. Ag. Exper. Station, p. 8, 1894; id. reprint in Exper. Station Record v, p. 791, 1894. Weed, Bull. 102, Mich. Ag. Exper. Station, p. 8, pl. 1, fig. 4, 1884.

Hab.—Michigan, Colorado.

Athysanus striatulus Toll.? Van Duzee, Ent. Am. vi, p. 134, 1890. Smith, N. J. Ag. Exper. Station, Bull. K, p. 42, fig. 25, 1890; Coll. Ins. N. J. p. 446, 1890 (for references to European literature see Sahlbg., Cicad. p. 253; and Edwards, Trans. Ent. Soc. London 1888, p. 67). See Stal, Stet. Ent. Zeit. xix, p. 195, 1858.

Genus **EUTETTIX** Van D.

Van Duzee, Psyche vi, p. 307, 1892; Trans. Am. Ent. Soc. xix, p. 300, 1892.

Eutettix lurida Van Duzee.

Thamnotettix lurida Van Duzee, Can. Ent. xxii, p. 250, 1890.

Eutettix lurida Van Duzee, Psyche vi, p. 307, 1892.

Hab.—Michigan, Iowa, Maryland.

Eutettix southwicki Van Duzee.

Hab.—New York.

Eutettix johnsoni Van Duzee, Can. Ent. xxvi, p. 137, 1894.

Hab.—Pennsylvania, New York.

Eutettix subæna Van Duzee.

Thamnotettix subæna Van Duzee, Ent. Am. vi, p. 77, 1890; id. Psyche vi, p. 307, 1892.

Eutettix subæneus Van Duzee, Trans. Am. Ent. Soc. xix, p. 303, 1892.

Hab.—California.

Eutettix picta Van Duzee.

Eutettix pictus Van Duzee, Trans. Am. Ent. Soc. xix, p. 301, 1892.

Hab.—Pennsylvania.

Eutettix marmorata Van Duzee.

Eutettix marmoratus Van Duzee, Trans. Am. Ent. Soc. xix, p. 302, 1892.

Hab.—North Carolina.

Eutettix jucunda (Uhler).

Jassus jucundus Uhler, Bull. U. S. Geol. and Geog. Surv. iii, p. 469, 1877.

Eutettix jucundus Van Duzee, Psyche vi, p. 307, 1890. Osborn, Proc. Iowa Acad. Sci. i, pt. 2, p. 12, 1892.

Hab.—Maryland, Iowa, Colorado, Texas, Mississippi.

Eutettix seminuda (Say).

Jassus seminudus Say, Jour. Acad. Nat. Sci. Phila. vi, p. 307, 1831; id. reprint in Compl. Writings ii, p. 383, 1869. Harris, Hitchcock's Geol. of Mass. 2d ed. p. 580, 1835.

Bythoscopus seminudus Fitch, Homop. N. Y. State Cab. p. 58, 1851; id. reprint in Lintner's 9th Rept. p. 398, 1893. Walker, Homop. iv, p. 1161, 1852. Dimmock, Psyche iv, p. 241, 18. Packard, Fifth Rept. U. S. Ent. Comm. p. 513, 1890. Ashmead, Smith's Cat. Ins. N. J. p. 445, 1890.

Thamnotettix seminudus Uhler, Stand. Nat. Hist. ii, p. 246, 1884. Osborn, Proc. Iowa Acad. Sci. i, pt. 2, p. 12, 1892.

Athysanus seminudus Van Duzee, Psyche v, p. 389, 1890.

Eutettix seminudus Van Duzee, Psyche vi, p. 307, 1892; id. in Lintner's 9th Rept. p. 410, 1893.

Hab.—Eastern United States and Canada.

Eutettix clarivida Van Duzee, Can. Ent. xxvi, p. 138, 1894.

Hab.—Colorado.

Genus **PHLEPSIUS** Fieb.

Fieb., Verh. zool.-bot. Gesell. Wien, xvi, p. 503, 1866; Cicad. d'Europ. i, p. 122, 1875; ii, pl. 12, 1876. Sign., Ann. Soc. Ent. Fr. ser. 5, x, p. 68, 1890. Mayr, Tabellen p. 32, 1884. Van Duzee, Trans. Am. Ent. Soc. xix, pp. 63, 300, 1892.

Allygus Uhler, Stand. Nat. Hist. ii, p. 245, 1884. Prov., Pet. Faune Ent. Can. iii, pp. 273, 286, 1889.

Phlepsius superbus Van Duzee, Trans. Am. Ent. Soc. xix, p. 81, pl. 1, figs. 18, 19, 24, 1892.

Hab.—North Carolina, Arizona, California.

Phlepsius excultus (Uhler).

Jassus excultus Uhler. Bull. U. S. Geol. and Geog. Surv. iii, p. 467, 1877.

Jassus infumatus and *scalaris* Uhler, in litt.

Phlepsius excultus Van Duzee, Trans. Am. Ent. Soc. xix, p. 80, pl. 1, fig. 17, 1892.

Hab.—New York to Florida, west to Colorado and Texas.

Phlepsius ovatus Van Duzee, Trans. Am. Ent. Soc. xix, p. 79, pl. 1, fig. 16, 1892.

Hab.—Texas, Colorado.

Phlepsius spatulatus Van Duzee, Trans. Am. Ent. Soc. xix, p. 78, pl. 1, fig. 15, 1892. Osborn, Proc. Iowa Acad. Sci. i, pt. 2, p. 12, 1892.

Hab.—Iowa, Texas.

Phlepsius nebulosus Van Duzee, Trans. Am. Ent. Soc. xix, p. 77, pl. 1, figs. 14, 23, 1892. Osborn, Proc. Iowa Acad. Sci. i, pt. 2, p. 12, 1892.

Hab.—Dakota, Iowa?, Mississippi, Florida.

Phlepsius humidus Van Duzee, Trans. Am. Ent. Soc. xix, p. 76, pl. 1, figs. 13, 22, 1892. Southwick, Science xix, p. 288, 1892.

Hab.—Canada, New York, Maryland, New Hampshire.

Phlepsius apertus Van Duzee, Trans. Am. Ent. Soc. xix, p. 76, pl. 1, fig. 12, 1892.

Hab.—Canada.

Phlepsius incisus Van Duzee, Trans. Am. Ent. Soc. xix, p. 73, pl. 1, fig. 9, 1892.

Hab.—Canada, New York, Michigan.

Phlepsius truncatus Van Duzee, Trans. Am. Ent. Soc. xix, p. 72, pl. 1, fig. 8, 1892.

Hab.—North Carolina.

Phlepsius irroratus (Say).

Jassus irroratus Say, Jour. Acad. Nat. Sci. Phila. vi, p. 308, 1831; id. reprint in Compl. Writings ii, p. 384, 1869. Harris, Hitchcock Geol. of Mass. 2d ed. p. 580, 1835. Fitch, Homop. N. Y. State Cab. p. 62, 1851; id. reprint in Lintner's 9th Rept. p. 402, 1893; Trans. N. Y. State Ag. Soc. xvi, p. 449, 1856. Walker, Homop. iii, p. 894, 1851; iv, p. 1164, 1852. Rathvon, Mombert Hist. of Lancaster Co., Pa., p. 551, 1869. Uhler, Bull. U. S. Geol. and Geog. Surv. iii, p. 467, 1877; Bull. U. S. Geol. and Geog. Surv. iv, p. 511, 1878. Packard, Guide to Study of Insects p. 532, 1876; Bull. 7, U. S. Ent. Comm. p. 80, 1881 (*inornatus*); Fifth Rept. U. S. Ent. Comm. p. 324, 1891 (*inornatus*). Lintner, First Rept. N. Y. State Ent. p. 331, 1882 (notice). Smith, Cat. Ins. N. J. p. 446, 1890.

Allygus irroratus Uhler, Stand. Nat. Hist. ii, p. 245, fig. 310, 1884. Van Duzee, Can. Ent. xxi, p. 11, 1889. Osborn, U. S. Dept. of Ag., Div. of Ent. Bull. xxii, p. 30, 1890. Prov., Pet. Faune Ent. Can. iii, p. 286, pl. 5, fig. 16, 1890; Nat. Can. xix, p. 248, 1890.

Phlepsius irroratus Van Duzee. Ent. Am. vi, p. 93, 1890; Psyche v, p. 389. 1890; Trans. Am. Ent. Soc. xix, p. 71, pl. 1, figs. 6, 7, 21, 1892. Osborn, Proc. Iowa Acad. Sci. i, pt. 2, p. 12, 1892. Van Duzee, in Lintner's 9th Rept. p. 410, 1893.

Jassus testudinarius Burm., Gen. Ins. i, Jassus No. 4, 1840. Walker, Homop. iii, p. 891, 1851. Uhler, Bull. U. S. Geol. and Geog. Surv. iii, p. 467, 1877 (= *irroratus*).

Hab.—Canada, Massachusetts to Iowa and Kansas.

Phlepsius cinereus Van Duzee, Trans. Am. Ent. Soc. xix, p. 68, pl. 1, fig. 4, 1892.

Hab.—Mississippi, Colorado, Texas.

Phlepsius pallidus Van Duzee, Trans. Am. Ent. Soc. xix, p. 69, pl. 1, fig. 5, 1892.

Hab.—Texas.

Phlepsius fuscipennis Van Duzee, Trans. Am. Ent. Soc. xix, p. 70, pl. 1, fig. 2, 1892. Southwick, Science xix, p. 287, 1892.

Hab.—New York.

Phlepsius latifrons Van Duzee, Trans. Am. Ent. Soc. xix, p. 66, pl. 1, fig. 1, 1892

Hab.—Maryland.

Phlepsius fulvidorsum (Fitch).

Jassus fulvidorsum Fitch, Homop. N. Y. State Cab. p. 62, 1851; id. reprint in Lintner's 9th Rept. p. 402, 1893. Walker, Homop. iii, p. 894, 1851.

Phlepsius fulvidorsum Van Duzee, Psyche v, p. 390, 1890; Trans. Am. Ent. Soc. xix, p. 74, pl. 1, fig. 10, 1892. Southwick, Science xix, p. 287, 1892. Osborn, Proc. Iowa Acad. Sci. i, pt. 2, p. 12, 1892. Van Duzee, in Lintner's 9th Rept. p. 410, 1893.

Hab.—New York to Florida, west to Iowa and Texas.

Phlepsius punctiscriptus Van Duzee, Trans. Am. Ent. Soc. xix, p. 75, pl. 1, fig. 11, 1892.

Hab.—Texas.

Phlepsius uhleri Van Duzee, Trans. Am. Ent. Soc. xix, p. 67, pl. 1, fig. 20, 1892.

Hab.—Maryland.

Phlepsius strobi (Fitch).

Bythoscopus strobi Fitch, Homop. N. Y. State Cab. p. 58, 1851; id. reprint in Lintner's 9th Rept. p. 398, 1893; Trans. N. Y. State Ag. Soc. xvii, p. 739, 1857. Walker, Homop. iii, p. 876, 1851 (mention). Rathvon, Mombert Hist. Lancaster Co., Pa., p. 551, 1869 (mention). Packard, Bull. 7, U. S. Ent. Comm. p. 216, 1881 (after Fitch); Fifth Rept. U. S. Ent. Comm. p. 802, 1891 (after Fitch).

Phlepsius strobi Van Duzee, Psyche v, p. 390, 1890; Trans. Am. Ent. Soc. xix, p. 67, pl. 1, fig. 3, 1892; id. in Lintner's 9th Rept. p. 410, 1893. Southwick, Science xix, p. 287, 1892.

Hab.—New York to Iowa and Texas.

Genus **ACINOPTERUS** Van Duzee.

Van Duzee, Psyche vi, p. 307, 1892; Trans. Am. Ent. Soc. xix, p. 299, 1892.

Acinopterus acuminatus Van Duzee, Psyche vi, p. 308, 1892.

Hab.—N. Jersey to N. Carolina and Mississippi; west to Colorado and California.

Genus **SCAPHOIDEUS** Uhler.

Uhler, Trans. Md. Acad. Sci. i, p. 33, 1889. Prov., Petit. Faune Ent. Can. iii, p. 276, 1889. Van Duzee, Trans. Am. Ent. Soc. xix, p. 299, 1892; Ent. Am. vi, p. 52, 1890 (notice).

Scaphoideus immistus (Say).

Jassus immistus Say, Jour. Acad. Nat. Sci. Phila. vi, p. 306, 1831; id. reprint in Compl. Writings ii, p. 382. Walker, Homop. iv, p. 1163, 1852 (mention). Harris, Hitchcock Geol. of Mass. 2d ed. p. 580, 1835 (mention). Van Duzee, Can. Ent. xxi, p. 11, 1889.

Scaphoideus immistus Uhler, Trans. Md. Acad. Sci. i, p. 33, 1889. Prov., Pet. Faune Ent. Can. iii, p. 276, 1889. Van Duzee, Psyche v, p. 389, 1890. Harrington, Ottawa Nat. vi, p. 32, 1892. Osborn, Proc. Iowa Acad. Sci. i, pt. 2, p. 11, 1892. Southwick, Science xix, p. 288, 1892.

Hab.—Canada, United States.

Scaphoideus intricatus Uhler, Trans. Md. Acad. Sci. i, p. 34, 1889.

Hab.—New Hampshire, New Jersey, Maryland, Virginia, Mich.

Scaphoideus luteolus Van Duzee, Bull. Buff. Soc. Nat. Sci. v, No. 4, 1894.

Hab.—New York, New Jersey.

Scaphoideus lobatus Van Duzee, Bull. Buff. Soc. Nat. Sci. v, No. 4, 1894.

Hab.—New York.

Scaphoideus sanctus (Say).

Jassus sanctus Say, Jour. Acad. Nat. Sci. Phila. vi, p. 307, 1831; id. reprint in Compl. Writings ii, p. 383. Walker, Homop. iv, 1164, 1852 (mention).

Hab.—Mississippi, Florida.

Scaphoideus consors Uhler, Trans. Md. Acad. Sci. i, p. 36, 1889.

Hab.—New York, Maryland, Texas.

Scaphoideus scalaris Van Duzee, Ent. Am. vi, p. 51, 1890.

Hab.—California.

Scaphoideus jucundus Uhler, Trans. Md. Acad. Sci. i, p. 34, 1889. Van Duzee, Can. Ent. xxi, p. 11, 1889 (mention).

Hab.—Canada, New York.

Scaphoideus auronitens Prov., Pet. Faune Ent. Can. iii, p. 277, 1889.

Hab.—Canada, New York, Mississippi.

Genus **THAMNOTETTIX** Zett.

Zett., Ins. Lapp. p. 292, 1840. Walker, Homop. Suppl. p. 269, 1858 (mere mention). Stal, Hemip. Af. iv, pp. 101, 122, 1866. Fieb., Verh. zool.-bot. Gesell. Wien, xvi, p. 505, 1866. Kirschb., Cicad. v. Wiesb. pp. 81, 82, 1868. Stal, Hemip. Fabr. ii, p. 82, 1869 (mention). Sahlbg., Cicad. pp. 70, 207, 1871. Fieb., Cicad. d'Europ. i, p. 122, 1875; ii, pl. 12, 1876. Mayr, Tabellen p. 33, 1884. Fieb., Rev. d'Ent. iv, p. 59, 1885. Edwards, Trans. Ent. Soc. Lond. 1888, pp. 33, 62. Prov., Pet. Faune Ent. Can. iii, p. 283, 1889. Woodworth, Psyche v, p. 75, 1888. Van Duzee, Psyche vi, p. 306, 1892; Trans. Am. Ent. Soc. xix, p. 300, 1892.

Thamnotettix clitellaria (Say).

Jassus clitellarius Say, Jour. Acad. Nat. Sci. Phila. vi, p. 309, 1831; id. reprint in Compl. Writings ii, p. 384, 1869. Walker, Homop. iv, p. 1164, 1852 (mention). Harris, Hitchcock Geol. of Mass. 2d ed. p. 580, 1835. Smith, Cat. Ins. of N. J. p. 446, 1890.

Bythoscopus clitellarius Fitch, Homop. N. Y. State Cab. p. 58, 1851; Trans. N. Y. State Ag. Soc. xvi, pp. 359, 365, 1856. Walker, Homop. iii, p. 876, 1851. Saunders, Ins. Inj. to Fruit p. 188, 1886. Cockerell, Trans. Am. Ent. Soc. xx, p. 365, 1893.

Thamnotettix clitellarius Uhler, Stand. Nat. Hist. ii, p. 246, 1884. Van Duzee, Psyche v, p. 389, 1890. Prov., Pet. Faune Ent. Can. iii, p. 284, 1890. Harrington, Ottawa Nat. vi, p. 32, 1892. Osborn, Proc. Iowa Acad. Sci. i, pt. 2, p. 12, 1892. Van Duzee, Psyche vi, p. 306, 1893 (notice); in Lintner's 9th Rept. p. 410, 1893.

Hab.—Canada, United States west to Rocky Mountains.

Thamnotettix eburata Van Duzee, Can. Ent. xxi, p. 10, 1889.

Hab.—Canada, New Hampshire, New York.

Thamnotettix montana Van Duzee, Can. Ent. xxiv, p. 268, 1892.

Hab.—Colorado, British Columbia.

Thamnotettix belli (Uhler).

Jassus belli Bull. U. S. Geol. and Geog. Surv. iii, p. 471, 1877.

Thamnotettix belli Van Duzee, Psyche vi, p. 306, 1892.

Thamnotettix semipullatus Van Duzee, MS. Psyche vi, p. 306, 1892.

Hab.—Canada, Colorado, Michigan.

Thamnotettix kennicottii Uhler.

Jassus kennicottii Uhler, Proc. Am. Ent. Soc. ii, p. 161, 1863.

Thamnotettix kennicottii Uhler, Stand. Nat. Hist. ii, p. 246, 1884. Osborn, Proc. Iowa Acad. Sci. i, pt. 2, p. 12, 1892. Van Duzee, Psyche vi, p. 306, 1892.

Hab.—New York, Maryland, Colorado.

Thamnotettix coquilletti Van Duzee, Ent. Am. vi, p. 77, 1890; Psyche vi, p. 306, 1892.

Hab.—California

Thamnotettix fasciaticollis (Stal).*Jassus fasciaticollis* Stal, Stet. Ent. Zeit. xxv, p. 86, 1864.*Hab.*—Mexico, California. ?**Thamnotettix decipiens** Prov., Pet. Faune Ent. Can. iii, p. 285, 1890.*Hab.*—Canada.**Thamnotettix aureola** Van Duzee, Bull. Buff. Soc. Nat. Sci. v, No. 4, 1894.*Hab.*—California.**Thamnotettix subcupræa** Prov.*Jassus subcupræus* Prov., Nat. Can. iv, p. 377, 1872.*Thamnotettix subcupræus* Prov., Pet. Faune Ent. Can. iii, p. 284, 1890. Harrington, Can. Ent. xxvi, p. 16, 1894.*Hab.*—Canada, New Hampshire.**Thamnotettix aurantiaca** (Prov.).*Jassus aurantiacus* Prov., Nat. Can. iv, p. 377, 1872.*Hab.*—Canada.**Thamnotettix geminata** Van Duzee, Ent. Am. vi, p. 79, 1890.*Hab.*—California, Colorado.**Thamnotettix atropunctata** Van Duzee, Ent. Am. vi, p. 91, 1890.*Hab.*—California.**Thamnotettix flavocapitata** Van Duzee, Ent. Am. vi, p. 80, 1890.*Hab.*—California, Colorado.**Thamnotettix atridorsum** Van Duzee, Can. Ent. xxvi, p. 92, 1894.*Hab.*—Colorado.**Thamnotettix inornata** Van Duzee, Trans. Am. Ent. Soc. xix, p. 303, 1892.*Hab.*—New York.**Thamnotettix melanogaster** Prov.*Jassus melanogaster* Prov., Nat. Can. iv, p. 378, 1872.*Thamnotettix melanogaster* Prov., Pet. Faune Ent. Can. iii, p. 284, 1890. Osborn, Proc. Iowa Acad. Sci. i, pt. 2, p. 12, 1892.*Hab.*—Canada, New York, Iowa.**Thamnotettix fitchi** Van Duzee, Ent. Am. vi, p. 133, 1890. Smith, N. J. Ag. Exper. Station, Bull. K, p. 42, fig. 62, 1890.*Cicadula 4-punctata* Fitch MS. See Insect Life vi, p. 267, 1894.*Hab.*—New York, New Jersey.**Thamnotettix perpunctata** Van Duzee, Bull. Buff. Soc. N. Sci. v, No. 4, 1894.*Hab.*—New York south to North Carolina and Mississippi.

Thamnotettix longiseta Van Duzee, Can. Ent. xxiv, p. 267, 1892.

Hab.—Colorado.

Thamnotettix smithi Van Duzee, Can. Ent. xxiv, p. 266, 1892.

Hab.—New Jersey.

Thamnotettix gillettei Van Duzee, Can. Ent. xxiv, p. 267, 1892.

Hab.—Colorado.

Thamnotettix læta (Uhler).

Jassus lætus Uhler, Bull. U. S. Geol. and Geog. Surv. ii, p. 360, 1876; iii, p. 473, 1877.

Thamnotettix lætus Van Duzee, Psyche vi, p. 306, 1892; id. Can. Ent. xxiv, p. 268, 1892.

Hab.—Colorado.

? *Thamnotettix limbata* Van Duzee, Ent. Am. vi, p. 92, 1890.

Hab.—California.

? *Thamnotettix luctuosus* Stal, Frega Eug. Resa Hemip. p. 292, 1859.

Hab.—California.

Thamnotettix lineatifrons Stal, Stet. Ent. Zeit. xix, p. 195, 1858. Fieb., Revue d. Ent. iv, pp. 85, 109, 1885.

Hab.—Sitka.

Genus **LIMOTETTIX** Sahlbg.

Sahlbg., Cicad. p. 224, 1871. Edwards, Trans. Ent. Soc. Lond. 1888, p. 70 (in part). Woodworth, Psyche v, p. 75, 1888 (*Limnotettix*). Van Duzee, Psyche vi, p. 306, 1892; Trans. Am. Ent. Soc. xix, p. 300, 1892.

Limotettix striola (Fall.).

Cicada striola Fallen, Acta Holm xxvii, p. 31, 1806.

Athysanus striola Fieb., Katal. Europ. Cicad. p. 12, 1872. Van Duzee, Can. Ent. xxi, p. 11, 1889; xxiii, p. 171, 1891. Osborn, Proc. Iowa Acad. Sci. i, pt. 2, p. 12, 1892.

Limotettix striola Sahlbg., Cicad. p. 226, 1871. Edwards, Trans. Ent. Soc. Lond. 1888, p. 71 (synonymy). Van Duzee, Psyche vi, p. 306, 1892.

Hab.—Canada, New York.

Limotettix parallela Van Duzee.

Athysanus parallelus Van Duzee, Can. Ent. xxiii, p. 169, 1891.

Limotettix parallelus Van Duzee, Psyche vi, p. 306, 1892.

Hab.—Canada.

? *Limotettix exitiosa* (Uhler).

Cicadula exitiosa Uhler, Am. Ent. iii, p. 72, 1889; in Comstock's Rept., Dept. Ag. Rept. for 1879, p. 191. Uhler, Stand. Nat. Hist. ii, p. 245, 1884.

Osborn, Rept. Iowa State Ag. Soc. 1892, p. 688; Papers on Iowa Ins. p. 56; id. in Bull. 18, Iowa Ag. Exper. Station, p. 100, 1891; Proc. Iowa Acad. Sci. i, pt. 2, p. 12, 1892.

Limotettix exitiosa Van Duzee, Psyche vi, p. 306, 1892.

Hab.—Maryland to Florida and west to Colorado and Texas.

Genus **CHLOROTETTIX** Van Duzee.

Van Duzee, Psyche vi, p. 306, 1892; Trans. Am. Ent. Soc. xix, p. 300, 1892.

Chlorotettix unicolor (Fitch).

Bythoscopus unicolor Fitch, Homop. N. Y. State Cab. p. 58, 1851; id. reprint in Lintner's 9th Rept. p. 398, 1893. Walker, Homop. iv, p. 1161, 1852 (mention).

Jassus unicolor Uhler, Bull. U. S. Geol. and Geog. Surv. iii, p. 511, 1878. Prov., Pet. Faune Ent. Can. iii, p. 286, 1890.

Grypotes unicolor Uhler, Stand. Nat. Hist. ii, p. 246, 1884. Van Duzee, Can. Ent. xxi, p. 9, 1889; Psyche v, p. 390, 1890. Osborn, Proc. Iowa Acad. Sci. i, pt. 2, p. 12, 1892.

Thamnotettix unicolor Harrington, Ottawa Nat. vi, p. 32, 1892.

Athysanus unicolor Southwick, Science xix, p. 288, 1892.

Chlorotettix unicolor Van Duzee, Psyche vi, pp. 306, 308, 1892; id. in Lintner's 9th Rept. p. 410, 1893.

Hab.—New York west to Iowa and north to Canada.

Chlorotettix tergata (Fitch).

Bythoscopus tergatus Fitch, Homop. N. Y. State Cab. p. 58, 1851; id. reprint in Lintner's 9th Rept. p. 398, 1893. Walker, Homop. iv, p. 1161, 1852 (mention).

Grypotes tergatus Uhler, Stand. Nat. Hist. ii, p. 246, 1884. Van Duzee, Psyche v, p. 390, 1890.

Athysanus tergatus Southwick, Science xix, p. 288, 1892.

Chlorotettix tergatus Van Duzee, Psyche vi, pp. 306, 309, 1892; id. in Lintner's 9th Rept. p. 410, 1893.

Hab.—New York, Pennsylvania, Michigan, Florida.

Chlorotettix viridia Van Duzee, Psyche vi, p. 309, 1892. Weed, Can. Ent. xxiv, p. 278, 1892.

Athysanus viridius Southwick, Science xix, p. 288, 1892.

Hab.—New York to North Carolina.

Chlorotettix galbanata Van Duzee, Psyche vi, p. 310, 1892.

Athysanus galbanatus Southwick, Science xix, p. 288, 1892.

Hab.—New York to North Carolina and west to Mississippi and Kansas.

Chlorotettix necopina Van Duzee, Can. Ent. xxv, p. 282, 1893.

Hab.—Mississippi.

Tribe JASSINI.

Cælididæ Dohrn, Cat. Hemip. p. 84, 1859.

Jassina Stal, Of. Vet. Ak. Förh. xxvii, p. 735, 1870 (subfamily).

Jassini Van Duzee, Trans. Am. Ent. Soc. xix, p. 298, 1892.

Genus JASSUS Fabr. (Stal).

Fabr., Syst. Rhyng. p. 85, 1803. Stal, Hemip. Af. iv, pp. 101, 119, 1866; Hemip.

Fab. ii, p. 87, 1869; Of. Vet. Ak. Förh. xxvii, p. 735, 1870. Spangb., Of. Vet.

Ak. Förh. xxxv, No. 8, p. 3, 1878. Berg, Hemip. Argent. p. 265, 1879. Van

Duzee, Trans. Am. Ent. Soc. xix, p. 300, 1892.

Cælidia Germ., Mag. d. Ent. iv, p. 75, 1821. Burm., Handb. d. Ent. ii, 1, pp. 105,

113, 1835; Gen. Ins. i, pl. 15, 1840. Am. and Serv., Hemip. p. 583, 1843.

Walker, Homop. iii, p. 852, 1851 (notice). Stal, Of. Vet. Ak. Förh. xix, p.

494, 1862 (notice).

Davidna Walker, Homop. Suppl. p. 319, 1858. Stal, Of. Vet. Ak. Förh. xix, p.

487, 1862.

Jassus olitorius Say.

♂ *Jassus olitorius* Say, Jour. Acad. Nat. Sci. Phila. vi, p. 310, 1831; id. reprint in Compl. Writings ii, p. 385.

Cælidia olitoria Fitch, Homop. N. Y. State Cab. p. 58, 1851; id. reprint in

Lintner's 9th Rept. p. 398, 1893. Walker, Homop. iv, p. 1161, 1852.

Uhler, Heilprin's Bermuda Islands, p. 154, 1889. Osborn, Proc. Iowa

Acad. Sci. i. pt. 2, p. 12, 1892.

Jassus (sens. strict.) *olitorius* Van Duzee, Psyche v, p. 389, 1890; id. in Lint-

ner's 9th Rept. p. 410, 1893.

♀ *Jassus subbifasciatus* Say, Jour. Acad. Nat. Sci. Phila. vi, p. 310, 1831; id.

reprint in Compl. Writings ii, p. 385, 1869.

Cælidia subbifasciata Fitch, Homop. N. Y. State Cab. p. 58, 1851; id. reprint

in Lintner's 9th Rept. p. 398, 1893. Walker, Homop. iv, p. 1161, 1852.

Glover, Rept. Dept. of Agri. for 1876, p. 32. Smith, Cat. Ins. of N. J. p.

446, 1890. Osborn, Proc. Iowa Acad. Sci. i, pt. 2, p. 12, 1892.

Cælidea semifasciata Uhler, Stand. Nat. ii, p. 245, fig. 311, 1884.

Jassus subfasciatus Southwick, Science xix, p. 288, 1892.

Jassus (sens. strict.) *subbifasciatus* Spangb., Of. Vet. Ak. Förh. xxxv, No. 8.

p. 16, 1878. Van Duzee, Psyche v, p. 389, 1892 (♀ of *olitorius*); in Lint-

ner's 9th Rept. p. 410, 1893 (♀ of *olitorius*).

Idiocerus subbifasciatus Prov., Pet. Faune Ent. Can. iii, p. 292, 1890.

Pediopsis subbifasciatus Harrington, Ottawa Nat. vi, p. 31, 1892.

Hab.—Canada, United States west to the Rocky Mountains.

Jassus borealis Spangb., Of. Vet. Ak. Förh. xxxvi, No. 6, p. 24, 1879, pl. 16,

fig. 8.

Hab.—America borealis.

Jassus pustulatus Spangb., Of. Vet. Ak. Förh. xxxv, No. 8, p. 18, 1878.

Hab.—Mexico.

Jassus melanotus Spangb., Of. Vet. Ak. Förh. xxxv, No. 8, p. 19, 1878.

Hab.—Georgia.

Jassus marginatus Stal, Stet. Ent. Zeit. xxv, p. 85, 1864. Spangb., Of. Vet. Ak. Förh. xxxv, No. 8, p. 20, 1878.

Hab.—Mexico.

Jassus fuscipennis Spangb., Of. Vet. Ak. Förh. xxxv, No. 8, p. 20, 1878.

Hab.—Illinois, Wisconsin (Spangb.).

(This may be *Jassus olitorius* (♂) Say)

Jassus guttatinervis Stal, Stet. Ent. Zeit. xxv, p. 85, 1864. Spangb., Of. Vet. Ak. Förh. xxxv, No. 8, p. 22, 1878.

Hab.—Vera Cruz.

Jassus fasciatipennis Spangb., Of. Vet. Ak. Förh. xxxv, No. 8, p. 25, 1878.

Hab.—Mexico.

Jassus flaviceps Stal, Stet. Ent. Zeit. xxv, p. 85, 1864. Spangb., Of. Vet. Ak. Förh. xxxv, No. 8, p. 19, 1878.

Hab.—Mexico.

Jassus gratiosus Spangb., Of. Vet. Ak. Förh. xxxv, No. 6, p. 25, 1878. pl. 16, fig. 10.

Hab.—Mexico.

Jassus lactipennis Van Duzee, Ent. Amer. vi, p. 49, 1890.

Hab.—California.

Genus *TINOBREGMUS* Van Duzee.

Van Duzee, Bull. Buff. Soc. Nat. Sci. v, p. 213, 1894.

Tinobregmus vittatus Van Duzee, Bull. Buff. Soc. Nat. Sci. v, p. 214, 1894.

Hab.—Florida

Genus *TERULIA* Stal.

Stal, Rio Janeiro Hemip. ii, p. 50, 1862.

Terulia fasciaticollis (Stal).

Celidia fasciaticollis Stal, Stet. Ent. Zeit. xxv, p. 85, 1864.

Terulia fasciaticollis Spangb., Of. Vet. Ak. Förh. xxxvi, No. 6, p. 21, 1879, pl. 16, fig. 5.

Hab.—Vera Cruz.

Tribe *CICADULINI*.

Van Duzee, Trans. Am. Ent. Soc. xix, p. 298, 1892.

Genus *GNATHODUS* Fieb.

Fieb., Verh. d. zool.-bot. Gesell. Wien, xvi, p. 505, 1866. Sahlbg., Otcad. pp. 70, 203, 1871. Fieb., Cicad. d'Europ. i, p. 118, 1875; ii, pl. 12, 1876. Mayr, Tabellen p. 31, 1884. Edwards, Trans. Ent. Soc. Lond. 1888, p. 77. Van Duzee, Trans. Am. Ent. Soc. xix, p. 300, 1892.

Gnathodus punctatus (Thunbg.).

Cicada punctata Thunbg., Act. Ups. vi, p. 21, 1782. Fallen, Hemip. Suec.

Cicad. p. 55, 1820.

Jassus punctatus Walker, Homop. iii, p. 877, 1851, etc.

Gnathodus punctatus Fieb., Verh. d. zool.-bot. Gesell. Wien xvi, p. 505, 1866.
 Edwards, Trans. Ent. Soc. Lond. 1888, p. 77 (European synonymy).
 Harrington, Ottawa Nat. vi, p. 32, 1892. Osborn, Proc. Iowa Acad. Sci.
 i, pt. 2, p. 12, 1892.

Typhlocyba punctata Prov., Pet. Faune Ent. Can. iii, p. 301, 1890.
Typhlocyba vernalis Fitch MS.

Hab.—Canada, eastern United States to Iowa and Texas.

Gnathodus jocosa (Prov.).

Typhlocyba rosea Prov., Nat. Can. iv, p. 378, 1872.
Typhlocyba jocosa Prov., Pet. Faune Ent. Can. iii, p. 300, 1890.

Hab.—Canada.

(Probably only a variety of the preceding.)

Gnathodus abdominalis Van Duzee, Can. Ent. xxiv, p. 113, 1892.

Hab.—New Jersey, Colorado.

Gnathodus impictus Van Duzee, Can. Ent. xxiv, p. 113, 1892.

Hab.—New York, New Jersey, Iowa, Kansas.

Genus *CICADULA* Zett.

Zett., Ins. Lapp. p. 296, 1840. Fieb., Verh. zool.-bot. Gesell. Wien xvi, p. 506,
 1866; Cicad. d'Europ. i. p. 119, 1875; ii, pl. 12, 1876; Revue d. Ent. iv, p. 40,
 1885. Mayr, Tabellen p. 31, 1884. Woodworth, Psyche v, p. 75, 1888. Prov.,
 Pet. Faune Ent. Can. iii, p. 287, 1890. Van Duzee, Psyche vi, p. 305, 1892;
 Trans. Am. Ent. Soc. xix, p. 300, 1892.

Macrostes Fieb., Verh. zool.-bot. Gesell. Wien xvi, p. 504, 1866.

Thamnus Fieb., Verh. zool.-bot. Gesell. Wien, xvi, p. 505, 1866.

Cicadula 6-notata (Fall.)

Cicada 6-notata Fallen, Acta Holm xxvii, p. 34, 1806.

Cicadula 6-notata Zett. Ins. Lapp. p. 297, 1840. Fieb., Revue d. Ent. iv, p.
 47, 1885. Woodworth, Psyche v, p. 75, 1888. Prov., Pet. Faune Ent.
 Can. iii, p. 287, 1890. Van Duzee, Psyche vi, p. 305, 1892. Harrington,
 Ottawa Nat. vi, p. 32, 1892. Southwick, Science xix, p. 288, 1892. Osborn,
 Proc. Iowa Acad. Sci. i, pt. 2, p. 12, 1892. Slosson, Ent. News v, p. 5, 1894.
Thamnotettix 6-notata Stal, Stet. Ent. Zeit. xix, p. 194, 1858. Kirschb., Cicad.
 v. Wiesbd. p. 95, 1868.

Jassus 6-notata Burm., Gen. Ins. i, genus 14, No. 17, 1840. Walker, Homop.
 iii, p. 878, 1851.

Limotettix 6-notata Sahlbg., Cicad. p. 247, 1871. Edwards, Trans. Ent. Soc.
 Lond. 1888, p. 76 (synonymy).

Macrostes 6-notata Fieb., Verh. zool.-bot. Gesell. Wien xvi, p. 504, 1866.

? *Cicadula 4-lineata* Forbes, Ill. Ent. Rept. xiv, p. 68, 1884, pl. 5, fig. 4. Van
 Duzee, Can. Ent. xxi, p. 9, 1889. Osborn, Proc. Iowa Acad. Sci. i, pt. 2,
 p. 12, 1892. Davis, Bull. 102 Mich. Ag. Exper. Station p. 8, pl. 1, fig. 1,
 1893.

Hab.—North America from Ontario and Connecticut to Alaska
 and California, and south to Mississippi.

Cicadula variata (Fall.)*Cicada variata* Fall., Acta Holm. xxvii, p. 34, 1806.*Jassus variatus* H. Sch. Nom. Ent. p. 70, 1835. Walk., Homop. iii, p. 878, 1851.*Limotettix variata* Sahlbg., Cicad. p. 250, 1871. Edwards, Trans. Ent. Soc. Lond. 1888, p. 76 (synonymy).*Thamnotettix variatus* Kirschb., Cicad. v. Wiesbd. p. 99, 1868.*Cicadula variata* Fieb., Revue d. Ent. iv, p. 51, 1885. Van Duzee, Psyche vi, p. 305, 1892. Harrington, Ottawa Nat. vi, p. 32, 1892.*Hab.*—Canada, New York, Michigan.*Cicadula slossoni* Van Duzee, Can. Ent. xxv, p. 281, 1893. Slosson, Ent. News v, p. 5, 1894 (mention).*Hab.*—New York, New Hampshire.**Cicadula punctifrons** (Fall.)*Cicada punctifrons* Fallen, Hemip. Suec. Cicad. p. 42, 1826.*Thamnotettix punctifrons* Boh., K. Vet.-Akad. Handl. 1847, p. 33. Kirschb., Cicad. v. Wiesbd. p. 88, 1868.*Jassus punctifrons* Flor., Rhyng. Livl. p. 328, 1861. Walker, Homop. iii, p. 879, 1851.*Cicadula punctifrons* Fieb., Revue d. Ent. iv, p. 50, 1885. Van Duzee, Psyche vi, p. 305, 1892; Can. Ent. xxiii, p. 169, 1891 (notice).*Hab.*—New York, Iowa.*Cicadula punctifrons* var. *americana* Van Duzee, Can. Ent. xxiii, p. 169, 1891.*Hab.*—New York, New Hampshire.**Cicadula fascifrons** (Stal.)*Thamnotettix fascifrons* Stal, Stet. Ent. Zeit. xix, p. 194, 1858.*Cicadula fascifrons* Fieb., Revue d'Ent. iv, pp. 48, 57, 1885.*Hab.*—Sitka, Alaska.*Cicadula lepida* Van Duzee, Can. Ent. xxvi, p. 139, 1894.*Hab.*—New York, Kansas.*Jassus farctus* Harris, Hitchcock's Geol. of Mass. 2 ed. p. 580, 1835 (probably a MS. name).*Jassus areatus* Harris, Hitchcock's Geol. of Mass. 2 ed. p. 580, 1835 (perhaps a misprint for *Jassus (Platymetopius) acutus* Say).*Jassus productus* Walk., Homop. iii, p. 891, 1851 (doubtless a *Platymetopius*, perhaps *P. acutus* Say).*Jassus leucomelas* Walk., Homop. Suppl. p. 272, 1858.*Jassus divisus* Uhler, Bull. U. S. Geol. and Geog. Surv. iii, p. 472, 1877 (may belong to *Cicadula*. See Can. Ent. xxi, p. 10, 1889).*Jassus citronellus* Prov., Nat. Can. iv, p. 378, 1872.*Thamnotettix citronellus* Prov., Pet. Faune Ent. Can. iii, p. 283, 1890 (probably belongs to genus *Dicraneura*).*Selenocephalus placidus* Prov., Pet. Faune Ent. Can. iii, p. 280, 1889.

Subfamily TYPHLOCYBINA.

Van Duzee, Trans. Am. Ent. Soc. xix, p. 298, 1892.

Typhlocybidae Kirschb., Cicad. v. Wiesbd. p. 16, 1868. Mayr. Tabellen p. 31, 1884. Edwards, Trans. Ent. Soc. Lond. 1886, p. 45, and 1888, p. 78.

Typhlocybæ Fieb., Katal. Europ. Cicad. p. 14, 1872; Cicad. d'Europ. i, p. 118, 1875.

Typhlocybides Sahlbg., Cicad. p. 69, 1871.

Typhlocybini Puton, Cat. Hemip. Palæ. p. 86, 1886. Woodw., Psyche vol. v, p. 211, 1889.

(Genus **ALEBRA** Fieb.)

Compus Fieb., Verh. zool.-bot. Gesell. Wien xvi, p. 507, 1866.

Alebra Fieb., Katal. Europ. Cicad. p. 14, 1872; Cicad. d'Europ. i, p. 125, 1875. Woodw., Psyche v, p. 213, 1889.

Alebra aurea (Walsh).

Typhlocyba aurea Walsh, Proc. Bost. Soc. Nat. Hist. ix, p. 315, 1864.

Alebra aurea Woodw., Psyche v, p. 213, 1889.

Hab.—Illinois.

Alebra pallida (Walsh).

Typhlocyba pallida Walsh, Proc. Bost. Soc. Nat. Hist. ix, p. 315, 1864.

Alebra pallida Woodw., Psyche v, p. 213, 1889.

Hab.—Illinois.

Alebra binotata (Walsh).

Typhlocyba binotata Walsh, Proc. Bost. Soc. Nat. Hist. ix, p. 315, 1864.

Alebra binotata Woodw., Psyche v, p. 213, 1864.

Hab.—Illinois.

Genus **EMPOASCA** Walsh.

Walsh, Proc. Bost. Soc. Nat. Hist. ix, p. 316, 1864.

Chloroneura Walsh, Proc. Bost. Soc. Nat. Hist. ix, p. 316, 1864. See Woodw., Psyche v, p. 212, 1889.

Empoasca fabæ (Harris).

Tettigonia fabæ Harris, Ins. Inj. to Veg. 1st ed. p. 186, 1841; id. 3d ed. p. 230, 1862.

Erythroneura fabæ Fitch, Homop. N. Y. State Cab. p. 63, 1851; id. reprint in Lintner's 9th Rept. p. 403, 1893.

Empou fabæ Harris, Ins. Inj. to Veg. 3d ed. p. 229, 1862; note. Walsh, Proc. Bost. Soc. Nat. Hist. ix, p. 316, 1864. Osborn, Proc. Iowa Acad. Sci. i, pt. ii, p. 11, 1892.

Empoasca fabæ Woodw., Psyche v, p. 213, 1889. Van Duzee, in Lintner's 9th Rept. p. 410, 1893.

Hab.—United States.

Empoasca viridescens Walsh, Proc. Bost. Soc. Nat. Hist. ix, p. 316, 1864.

Woodw., Psyche v, p. 213, 1889.

Hab.—Illinois.

Empoasca consobrina Walsh, Proc. Bost. Soc. Nat. Hist. ix, p. 316, 1864.
Woodw., Psyche v, p. 213, 1889.

Hab.—Illinois.

Empoasca malefica (Walsh).

Chloroneura malefica Walsh, Proc. Bost. Soc. Nat. Hist. ix, p. 317, 1864.
Empoasca malefica Woodw., Psyche v, p. 213, 1889.

Hab.—Illinois.

Empoasca pura (Stal).

Typhlocyba pura Stal, Stet. Ent. Zeit. xix, p. 195, 1858.
Empoasca pura Woodw., Psyche v, p. 213, 1889.

Hab.—Alaska.

Empoasca obtusa Walsh., Proc. Bost. Soc. Nat. Hist. ix, p. 316, 1864. Woodw.
Psyche v, p. 213, 1889. Osborn, Proc. Iowa Acad. Sci. i, pt. 2, p. 12, 1892.

Hab.—Illinois.

Empoasca maligna (Walsh).

Chloroneura maligna Walsh, Proc. Bost. Soc. Nat. Hist. ix, p. 317, 1864.
Empoasca maligna Woodw., Psyche v, p. 213, 1889.

Hab.—Illinois.

Empoasca albopicta (Forbes).

Empo albopicta Forbes, 13th Rept. Ill. State Ent. for 1883, 1884; 14th
Rept. Ill. State Ent. for 1884, p. 117. Weed, Insects and Insecticides p.
99, 1891.
Empoasca albopicta Woodw., Psyche v, p. 213, 1889.
Tettigonia mali Le Barou, Prairie Farmer, September, 1853.
Empoasca mali Osborn, Proc. Iowa Acad. Sci. i, pt. 2, p. 12, 1892.

Hab.—Illinois.

Empoasca aureoviridis (Uhler).

Typhlocyba aureoviridis Uhler, Bull. U. S. Geol. and Geog. Surv. iii, p. 474,
1877.
Empoasca aureoviridis Woodw., Psyche v, p. 213, 1889.

Hab.—Colorado.

Empoasca bardi Goding, Ent. News i, p. 123, 1890.

Hab.—Illinois.

Genus **KYBOS** Fieb.

Fieber, Verh. zool.-bot. Gesell. Wien xvi, p. 508, 1866; Cicad. d'Europ. i. p. 127,
1875.

Chloria Fieb., Verh. zool.-bot. Gesell. Wien xvi, p. 508, 1866.

Chlorita Fieb., Kat. Europ. Cicad. p. 14, 1872; Cicad. d'Europ. p. 127, 1875.

See Woodw., Psyche v, p. 212, 1889.

Kybos smaragdulus (Fall.)*Cicada smaragdula* Fallen, Acta Holm. p. 37, 1806.*Typhlocyba smaragdula* Flor, Rhynch. Livl. ii, p. 393, 1861. Kirschb., Cicad. v. Wiesbd. p. 178, 1868.*Cicadula smaragdula* Zett., Ins. Lapp. p. 298, 1840. Sahlbg., Cicad. p. 159, 1871.*Kybos smaragdulus* Fieb., Verh. zool.-bot. Gesell. Wien xvi, p. 508, 1866. Edwards, Trans. Ent. Soc. Lond. 1888, p. 84. Van Duzee, Psyche v, p. 241, 1889.*Hab.*—Canada, New England west to Colorado and California.Genus **DICRANEURA** Hardy.

Hardy, Trans. Tynes Field Club i. p. 423, 1850. Woodw., Psyche v, p. 213, 1889.

Erythria Fieb., Verh. zool.-bot. Gesell. Wien xvi, p. 507, 1866.*Notus* Fieb., Verh. zool.-bot. Gesell. Wien xvi, p. 508, 1866; Katal. Europ. Cicad. p. 14, 1872; Cicad. d'Europ. p. 126, 1875.**Dicraneura abnormis** (Walsh).*Chloroneura abnormis* Walsh, Proc. Bost. Soc. Nat. Hist. ix, p. 316, 1864.*Dicraneura abnormis* Woodw., Psyche v, p. 213, 1889.*Hab.*—Illinois.**Dicraneura carinata** (Stal).*Typhlocyba carinata* Stal, Stet. Ent. Zeit. xix, p. 196, 1858.*Dicraneura carinata* Woodw., Psyche v, p. 213, 1889.*Hab.*—Alaska.Genus **TYPHLOCYBA** Germ.Germ., Silb. Rev. Ent. i, 1833. Burm., Handb. der Ent. ii, p. 107, 1835; Gen. Ins. i, genus 13, *Typhlocyba*, 1840. Fieb., Verh. zool.-bot. Gesell. Wien xvi, p. 509, 1866; Cicad. d'Europ. i, p. 128, 1875. Sahlbg., Cicad. p. 273, 1871. Woodw., Psyche v, p. 213, 1889. Edwards, Tr. Ent. Soc. Lond. 1888, p. 94.*Erythronera* Fitch, Homop. N. Y. State Cab. p. 62, 1851; id. reprint in Lintner's 9th Rept. p. 402, 1893; Trans. N. Y. State Ag. Soc. xvi, p. 392, 1856. Walsh, Proc. Bost. Soc. Nat. Hist. ix, p. 317, 1864. Prov., Petit. Faune Ent. Can. iii, p. 297, 1890.*Empoa* Fitch, Homop. N. Y. State Cab. p. 63, 1851; id. reprint in Lintner's 9th Rept. p. 403, 1893; Trans. N. Y. State Ag. Soc. xvi, p. 392, 1856. Walsh, Proc. Bost. Soc. Nat. Hist. ix, p. 316, 1864.*Anomid* Fieb., Verh. zool.-bot. Gesell. Wien xvi, p. 509, 1866; Cicad. d'Europ. i, p. 129, 1875.**Typhlocyba vitis** (Harris).*Tettigonia vitis* Harris, Encycl. Americana vol. viii, p. 43, 1831; Ins. Inj. to Veg. 1st ed. p. 184, 1842; 3d ed. p. 227, 1862.*Erythronera vitis* Fitch, Homop. N. Y. State Cab. p. 63, 1851; Trans. N. Y. State Ag. Soc. xvi, p. 391, 1856. Walsh, Proc. Bost. Soc. Nat. Hist. ix, p. 317, 1864. Saunders, Ins. Inj. to Fruit p. 226, 1883. Uhler, Stand. Nat. Hist. ii, p. 246, 1884. Prov., Pet. Faune Ent. Can. iii, p. 298, 1890.

Typhlocyba vitis Woodw., Psyche v, p. 213, 1889. Weed, Insects and Insecticides p. 122, 1891, pl. iii, fig. 5.

Hab.—United States, Canada.

***Typhlocyba vitifex* (Fitch).**

Erythroneura vitifex Fitch, Trans. N. Y. State Ag. Soc. xvi, p. 392, 1856. Prov., Pet. Faune Ent. Can. iii, p. 299, 1890.

Typhlocyba vitifex Woodw., Psyche v, p. 213, 1889.

Hab.—Canada, New England to Iowa, Colorado and Mississippi.

***Typhlocyba comes* (Say).**

Tettigonia comes Say, Jour. Acad. Nat. Sci. Phila. iv, p. 343, 1825; id. reprint in Compl. Writings ii, p. 259, 1869.

Typhlocyba comes Woodw., Psyche v, p. 213, 1889.

Hab.—New York, Illinois, Missouri.

***Typhlocyba basilaris* (Say).**

Tettigonia basilaris Say, Jour. Acad. Nat. Sci. Phila. iv, p. 344, 1825; id. reprint in Compl. Writings ii, p. 260, 1869.

Erythroneura basilaris Walsh, Proc. Bost. Soc. Nat. Hist. ix, p. 317, 1864.

Erythroneura basalis Glover, Rept. Dept. of Ag. 1876, p. 33.

Typhlocyba basilaris Woodw., Psyche v, p. 213, 1889.

Hab.—New York, Illinois, Missouri.

***Typhlocyba obliqua* (Say).**

Tettigonia obliqua Say, Jour. Acad. Nat. Sci. Phila. iv, p. 342, 1825; id. reprint in Compl. Writings ii, p. 260, 1869.

Erythroneura obliqua Fitch, Homop. N. Y. State Cab. p. 63, 1851; id. reprint in Lintner's 9th Rept. p. 403, 1893; Trans. N. Y. State Ag. Soc. xvi, p. 435, 1856. Walsh, Proc. Bost. Soc. Nat. Hist. ix, p. 317, 1864. Prov., Pet. Faune Ent. Can. iii, p. 340, 1890.

Typhlocyba obliqua Woodw., Psyche v, p. 213, 1889.

Hab.—Canada, United States.

***Typhlocyba affinis* (Fitch).**

Erythroneura affinis Fitch, Homop. N. Y. State Cab. p. 63, 1851; id. reprint in Lintner's 9th Rept. p. 403, 1893.

Typhlocyba affinis Woodw., Psyche v, p. 213, 1889.

Hab.—New York, Illinois, Iowa.

***Typhlocyba octo-notata* (Walsh).**

Erythroneura octo-notata Walsh, Proc. Bost. Soc. Nat. Hist. ix, p. 318, 1864.

Typhlocyba octonotata Woodw., Psyche v, p. 214, 1889.

Hab.—Illinois.

***Typhlocyba ziczac* (Walsh).**

Erythroneura ziczac Walsh, Proc. Bost. Soc. Nat. Hist. ix, p. 317, 1864.

Typhlocyba ziczac Woodw., Psyche v, p. 214, 1889.

Hab.—Illinois.

Typhlocyba vulnerata (Fitch).

Erythroneura vulnerata Fitch, Homop. N. Y. State Cab. p. 62, 1851; id. reprint in Lintner's 9th Rept. p. 402, 1893; Trans. N. Y. State Ag. Soc. xvi, p. 392, 1856. Walsh, Proc. Bost. Soc. Nat. Hist. ix, p. 317, 1864. Prov., Pet. Faune Ent. Can. iii, p. 299, 1890.

Typhlocyba vulnerata Woodw., Psyche v, p. 213, 1889. Osborn, Proc. Iowa Acad. Sci. i, pt. ii, p. 11, 1892.

Hab.—New York, Illinois, Iowa.

Typhlocyba tricineta (Fitch).

Erythroneura tricineta Fitch, Homop. N. Y. State Cab. Nat. Hist. p. 63, 1851; reprint in Lintner's 9th Rept. p. 403, 1893. Walsh, Proc. Bost. Soc. Nat. Hist. ix, p. 317, 1864. Fitch, Trans. N. Y. State Ag. Soc. xvi, pp. 392, 436, 1856.

Typhlocyba tricineta Woodw., Psyche v, p. 317, 1889. Osborn, Proc. Iowa Acad. Sci. i, pt. 2, p. 11, 1892.

Hab.—New York, Illinois, Iowa.

Typhlocyba trifasciata (Say).

Tettigonia trifasciata Say, Jour. Acad. Nat. Sci. Phila. iv, p. 343, 1825; id. reprint in Compl. Writings ii, p. 259, 1869. Sign., Ann. Soc. Ent. Fr. ser. 3, iii, p. 805, 1855.

Typhlocyba trifasciata Woodw., Psyche v, p. 213, 1889. Osborn, Proc. Iowa Acad. Sci. i, pt. 2, p. 11, 1892.

Hab.—New York, Iowa, Missouri.

Typhlocyba coccinea (Fitch).

Empoa coccinea Fitch, Homop. N. Y. State Cab. p. 63, 1851; id. reprint in Lintner's 9th Rept. p. 403, 1893.

Typhlocyba coccinea Woodw., Psyche v, p. 213, 1889.

Hab.—New York.

Typhlocyba querci (Fitch).

Empoa querci Fitch, Homop. N. Y. State Cab. p. 63, 1851; id. reprint in Lintner's 9th Rept. p. 403, 1893.

Typhlocyba querci Woodw., Psyche v, p. 214, 1889.

Hab.—New York.

Typhlocyba commissuralis Stal, Stet. Ent. Zeit. xix, p. 196, 1858. Woodw., Psyche v, p. 214, 1839.

Hab.—Sitka.

Typhlocyba australis (Walsh).

Erythroneura australis Walsh, Proc. Bost. Soc. Nat. Hist. ix, p. 317, 1864.

Typhlocyba australis Woodw., Psyche v, p. 214, 1889.

Hab.—Illinois.

Typhlocyba albicans (Walsh).

Empoa albicans Walsh, Proc. Bost. Soc. Nat. Hist. ix, p. 316, 1864.

Typhlocyba albicans Woodw., Psyche v, p. 214, 1889.

Hab.—Illinois.

? Typhlocyba rosæ (Harris).

Tettigonia rosæ Harris, Ins. Inj. to Veg. 3d ed. p. 229, 1862.

? *Erythroneura rosæ* Prov., Pet. Faune Ent. Can. iii, p. 299, 1890.

Typhlocyba rosæ? Woodw., Psyche v, p. 214, 1889.

Hab.—Canada, United States.

Uncertain Species.

- Erythroneura mali* Prov., Pet. Faune Ent. Can. iii, p. 298, 1890.
Typhocyba unica Prov., Pet. Faune Ent. Can. iii, p. 340, 1890.

ADDITIONS.

- Page 289, under genus **DORYCEPHALUS** read :
Dorycephalus platyrhynchus Osborn, Can. Ent. xxvi, p. 216, 1894.
Dorycephalus sp. Osborn, Proc. Iowa Acad. Sci. i, pt. 2, p. 11, 1892.
Hab.—Iowa.
- Page 291, after **Platymetopius frontalis** add :
Platymetopius loricatus Van Duzee, Bull. Buff. Soc. Nat. Sci. v, p. 205, 1894.
Hab.—California.
- Platymetopius fuscifrons** Van Duzee, Bull. Buff. Soc. Nat. Sci. v, p. 206, 1894.
Hab.—Arizona.
- Page 293, for **Deltocephalus fuscinervosus** Van Duzee, read as reference :
 Bull. Buff. Soc. Nat. Sci. v, p. 207, 1894.
- Page 293, for **Deltocephalus concentricus** Van Duzee, read as reference :
 Bull. Buff. Soc. Nat. Sci. v, p. 208, 1894.
- Page 294, for **Allygus costomaculatus** Van Duzee, read as reference : Bull.
 Buff. Soc. Nat. Sci. v, p. 207, 1894.
- Page 295, after **Athysanus anthracinus** Van D. read :
Athysanus gammaroides Van Duzee, Bull. Buff. Soc. Nat. Sci. v, p. 209, 1894.
Hab.—Kansas, Colorado.
- On same page omit the next, or last, species : *Athysanus* Van D. from Florida.
- Page 296, for **Eutettix southwicki** Van Duzee, read as reference : Bull. Buff.
 Soc. Nat. Sci. v, p. 209, 1894.
- On same page add as the next species the following :
Eutettix slossoni Van Duzee, Bull. Buff. Soc. Nat. Sci. v, p. 210, 1894.
Hab.—Florida.

ERRATA.

- Page 251, line 28, for of. cit. read op. cit.
 " 253, line 21, for Cynidæ read Cydnidæ.
 " 260, line 8, for ferruginoides read ferruginoides.
 " 277, line 5 from bottom, for Mem. Soc. Stal. read Mem. Soc. Ital.
 " 280, line 17, for Teitigonia read Tettigonia.
 " 288, line 1, for 1940 read 1840.
 " 289, line 27, for 813 read 113.
 " 290, line 22, dele fig. 2.
 " 291, line 6 from bottom, for 1882 read 1892.
 " 292, line 24, for topl. read taf.
 " 293, line 5, for 1879 read 1878.
 " 293, line 6, for p. 5 read p. 32, and add : Slosson, Ent. News v, p. 5, 1894.
 " 293, line 23, for 1864 read 1884.
 " 293, line 2 from bottom, for p. 65 read p. 55.
 " 295, line 2, for p. 288 read 298.
 " 296, line 25, for Toll. read Fall.
 " 296, line 26, for Coll. read Cat.
 " 296, line 27, after 1890 place a period and drop parenthesis to next line and
 begin sentence with a capital.
 " 297, line 23, read : Psyche iv, p. 241, 1835.
 " 297, line 28, for Nan Duzee read Van Duzee.

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