

PL
535.
176

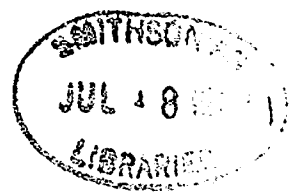
Aldrich 1905

SMITHSONIAN MISCELLANEOUS COLLECTIONS
PART OF VOLUME XLVI

A CATALOGUE OF
NORTH AMERICAN DIPTERA
(OR TWO-WINGED FLIES)

BY
J. M. ALDRICH

Z. C. Cds.
6.29-64



No. 1444

CITY OF WASHINGTON
PUBLISHED BY THE SMITHSONIAN INSTITUTION
1905

- thoracis* WILLISTON, Trans. Ent. Soc. Lond., 411.—St. Vincent, W. I.
transversa FALLÉN, Geomyzides, 6.—Europe.
 MEIGEN, Syst. Besch., vi, 84.
 SCHINER, Fauna Austr., ii, 276.
 LOEW, in Silliman's Jour., oc. in N. A.
 White Mts., N. H.—Slosson.
tripunctata LOEW, Cent., ii, 97.—D. C.
valida WALKER, Trans. Ent. Soc., n. ser., iv, 232.—U. S.
varia WALKER, List, iv, 1109.—Ga.
verticis WILLISTON, Trans. Ent. Soc. Lond., 1896, 413.—St. Vincent, W. I.
vittata COQUILLETT, Proc. Acad. Nat. Sci. Phil., 1895, 318.—Charlotte Harbor, Fla.
 COQUILLETT, Proc. U. S. N. M., xxii, 264, oc. in Porto Rico.
vittatifrons WILLISTON, Trans. Ent. Soc. Lond., 1896, 408, pl. xiii, f. 152.—St. Vincent, W. I.

STENOMICRA.

- coquilletti*, Proc. U. S. N. M., xxii, 262, 1900.
angustata COQUILLETT, loc. cit.—Porto Rico.

CLADOCHÆTA.

- coquilletti*, Proc. U. S. N. M., xxii, 263, 1900.
nebulosa COQUILLETT, loc. cit.—Porto Rico.

GEOMYZIDÆ.

BALIOPTERA.

- LOEW, Berl. Ent. Zeitsch., viii, 347-356, 1864.
lurida LOEW, Cent., v, 98 (*Opomyza*); Berl. Ent. Zeitsch., viii, 356, gen. ref.—Sitka.

DIASTATA.

- MEIGEN, Syst. Besch., vi, 211, 1830.
 SCHINER, Fauna Austr., ii, 288, 1864.
 COMSTOCK, Dept. Agric. Rept., 1880, 245, mentions a species that mines leaves of Indian corn.—D. C.
eluta LOEW, Cent., iii, 59.—Sitka.
nebulosa FALLÉN, Geomyzides, 3 (*Geomyza*).—Europe.
 MEIGEN, Syst. Besch., vi, 98 (*ornata*). [Syn. by Schiner, who would also add *nebulosa*, p. 99, with a doubt.]
 ZETTERSTEDT, Dipt. Scand., vi, 2536.
 SCHINER, Fauna Austr., ii, 289.
 WEBSTER, Canad. Ent., 1900, 213, oc. in Ohio; det. Coquillett.
 N. J.—Smith Cat.
pulchra LOEW, Cent., i, 100.—Pa. N. J.—Smith Cat.
tenuipes WALKER, List, iv, 1112.—Martin Falls, Canada.
vagans LOEW MS., mentioned in O. S. Cat., 204, note.]

ISCHNOMYIA.

- LOEW, Cent., iv, 97, 1863; Berl. Ent. Zeitsch., ix, 16, 1865.
 CZERNY, Wien. Ent. Zeit., xxi, 249, 1902; xxii, 63, 1903.
vittula LOEW, Cent., iv, 97.—Pa. N. J.—Smith Cat.
 WALKER, List, iv, 1112 (*Diastata ? albicosta*).—No locality. [Czerny, from Walker's type.]

TAUROMYIA.

- GIGLIO-TOS, Boll. R. Univ. Torino, viii, No. 158, 1893; Ditt. del Mess., iv, 37, 1895.
 VAN DER WULF, Biologia, Dipt., ii, 354, note on position.
pachyneura GIGLIO-TOS, Boll. R. Univ. Torino, viii, No. 158; Ditt. del Mess., iv, 37, f. 7, 8.—Mex.

ANTHOMYZA.

- FALLÉN, Specimin. Entomol., 1810; Agromyzides, 7, 1823.
 MACQUART, Hist. Nat. Dipt., ii, 580, 1835 (*Leptomyza*).
 ZETTERSTEDT, Ins. Lapp., 785, 1840 (*Anthophilina*; the *Anthomyza* of Zetterstedt is entirely different).
 SCHINER, Fauna Austr., ii, 281, 1864 (*Leptomyza*).
 LOEW, Berl. Ent. Zeitsch., ix, 16, 1865.
 OSTEN SACKEN, Cat., 261, 1878, note (adopts *Anthophilina*).
 CZERNY, Wien. Ent. Zeit., xxi, 249, 1902; xxii, 63, 1903.
cinerea WILLISTON, see *Rhinoëssa*.
 ? *nigrimanus* COQUILLETT, Proc. U. S. N. M., xxii, 264.—Porto Rico.
 Does not belong to this genus: Hendel, quoted by Czerny, W. E. Z., xxi, 256.
tenuis LOEW, Cent., iv, 95 (*Anthophilina*).—Sitka. White Mts., N. H.—Slosson.
terminalis LOEW, Cent., iv, 94 (*Anthophilina*).—Carolina; O. S. corrects in Cat. to White Mts., N. H.
variegata LOEW, Cent., iv, 96 (*Anthophilina*).—D. C. N. J.—Smith Cat.
xanthopoda WILLISTON, see *Rhinoëssa*.

OPOMYZA.

- FALLÉN, Opomyzides, 10, 1820.
 MEIGEN, Syst. Besch., vi, 100, 1830.
 SCHINER, Fauna Austr., ii, 283, 1864.
nigricosta WALKER, Trans. Ent. Soc., n. ser., v, 330.—U. S.

SCYPHELLA.

- DESVOIDY, Myodaires, 650, 1830.
 SCHINER, Fauna Austr., ii, 282, 1864.
flava LINNÉ, Fauna Suecica, 2d edit., 459, No. 1869 (*Musca*).—Europe.
 FALLÉN, Orthalides, 34 (*Sapromyza*).
 SCHINER, Fauna Austr., ii, 283.
 LOEW, in Silliman's Jour., oc. in N. A.—N. Y., on windows.
 N. J.—Smith Cat.; White Mts., N. H.—Slosson.

AGROMYZIDÆ.

- WILLISTON, Ent. News, vii, 185, reports the genus *Leiomyza*; no species have been described.

Subfamily PHYTOMYZINÆ.

PHYTOMYZA.

- FALLÉN, Phytomyzides, 2, 1823.
 SCHINER, Fauna Austr., ii, 312, 1864 (including *Napomyza*).
 WILLISTON, Manual, 103, 1896, the first *Phytomyza* in the table; the second is *Napomyza*, q. v.

- affinis* FALLÉN, Phytomyzides, 3.—Europe.
 MACQUART, Hist. Nat. Dipt., II, 618 (*nigricornis*).
 MEIGEN, Syst. Besch., VII, 404 (id.).
 ZETTERSTEDT, Dipt. Scand., VII, 2827.
 SCHINER, Fauna Austr., II, 316.
 LUNDBECK, Dipt. Grœnl., II, 306, oc. in Greenland.
 HEEGER, Sitzungsber. Kais. Akad. Wiss., XX, 297, figs., larva; it mines in parsnip leaves.
Note.—Schiner mentions the rearing of this from various European species of *Aconitum*, in which it mines the tips of the leaves.
- equilegiæ* HARDY, Annals Nat. Hist., IV, 385.—England; larva mines the leaves of *Aquilegia vulgaris*.
 COQUILLET, Bull. 10, n. ser., Div. of Ent., 78.—D. C., Conn.; larva mines in nasturtium and columbine.
- bicolor* COQUILLET, Jour. N. Y. Ent. Soc., X, 191.—Niagara Falls, N. Y.
clematidis LOEW, Cent., III, 100.—D. C.; larva mines the leaves of *Clematis*.
- diminuta* WALKER, Trans. Ent. Soc., n. ser., IV, 232.—U. S.; see *Agromyza trifolii*.
- flavicornis* FALLÉN, Phytomyzides, 4.—Europe.
 MEIGEN, Syst. Besch., VI, 192, pl. LXII, f. 6.
 ZETTERSTEDT, Dipt. Scand., VII, 2825.
 SCHINER, Fauna Austr., II, 315.
 COQUILLET, Proc. Wash. Acad. Sci., II, 464, oc. at Yakutat, Alaska.
- genualis* LOEW, Cent., VIII, 100.—D. C.
- ilicicola* LOEW, Cent., App., p. 290, change of name; Cent., III, 99 (*ilicis*, preoc.).
 —D. C.; larva mines the leaves of *Ilex opaca*.
 COQUILLET, Proc. Wash. Acad. Sci., II, 464, oc. in Alaska, Mass., Cal., and Ore.
- nervosa* LOEW, Cent., VIII, 99.—D. C.
- obscurilla* FALLÉN, Phytomyzides, 4.—Europe.
 MEIGEN, Syst. Besch., VI, 2815.
 ZETTERSTEDT, Dipt. Scand., VII, 2815.
 SCHINER, Fauna Austr., II, 315.—Europe; larvæ reared from the leaves of *Lonicera xylosteum* and *Sambucus*.
 STÆGER, Grœnl. Antl., 369, oc. in Greenland.
 COQUILLET, Bull. 10, n. ser., Div. of Ent., 79, records larvæ mining in leaves of *Lupinus* in Cal.
 LUNDBECK, Dipt. Grœnl., II, 305, oc. in Greenland.
- solita* WALKER, Trans. Ent. Soc., n. ser., IV, 232.—U. S.
- palliat* COQUILLET, Jour. N. Y. Ent. Soc., X, 191.—Mesilla Park, N. M.
- zetterstedtii* SCHINER, Fauna Austr., II, 305.—Europe.
 ZETTERSTEDT, Dipt. Scand., VII, 2821 (*maculipes*, preoc.).
 LUNDBECK, Dipt. Grœnl., II, 307, oc. in Greenland.

NAPOMYZA.

- HALIDAY, Westwood's Introd. to Mod. Classif. Ins., II, Appendix, 152, 1840.
 SCHINER, Fauna Austr., II, 313, 1864, as a subg. of *Phytomyza*.
 WILLISTON, Manual, 1896, 104, the second division of *Phytomyza*.
- anomala* STROBL, Wien. Ent. Zeit., 1893, 307 (*Phytomyza*).—Europe.
 HOUGH, in litt., reports from Wash., collected by Kincaid (id.).
- chrysanthemi* KOWARZ, in Lintner's 7th N. Y. Rept., 243-246 (*Phytomyza*).—N. Y.; larva is a leaf-miner in *Chrysanthemum*.

- LINTNER, 4th N. Y. Rept., 73-79 (*Phytomyza lateralis*); 7th Rept., 242-246, more on habits (*Phytomyza*).
 COQUILLET, Ins. Life, VII, 399, figs. and life hist.; Bull. 10, n. ser., Div. of Ent., 79 (id.).—N. Y., Pa., Conn.; larvæ mine in chrysanthemum, marguerite, daisy and fever-few.
- lateralis* FALLÉN, Phytomyzides, 3, 1823 (*Phytomyza*).—Europe.
 MEIGEN, Syst. Besch., VI, 190 (id.).
 SCHINER, Fauna Austr., II, 313 (id.).
 GLOVER, MS. Notes Jour., Dipt., 1874, 40, mention (id.).
 BRAUER, Denkschr. Kaiserl. Akad. Wiss., XLVII, 90 (id.).
 COQUILLET, Proc. Wash. Acad. Sci., II, 464, oc. in N. A.—Popof Id.
Note.—According to Schiner the larvæ live in the pith of the stem of *Verbena*, *Centaurea*, etc., and the flower-head of *Pyrethrum*.
- nigritella* ZETTERSTEDT, Dipt. Scand., VII, 2816 (*Phytomyza*).—Europe.
 LUNDBECK, Dipt. Grœnl., II, 306, oc. in Greenland (id.).

PARAMYIA.

- WILLISTON, Kans. Univ. Quart., VI, 1, 1897.
nigra WILLISTON, loc. cit., 2.—Grenada, W. I.

Subfamily AGROMYZINÆ.

CERATOMYZA.

- SCHINER, Wien. Ent. Monatsch., VI, 1862; Fauna Austr., II, 390, 1864.
 MACQUART, Hist. Nat. Dipt., II, 614 (*Odontocera*, preoc.).
- dorsalis* LOEW, Cent., III, 96 (*Odontocera*).—D. C.
 ? WILLISTON, Trans. Ent. Soc. Lond., 1896, 427, pl. XIV, f. 155, doubtful oc. in St. Vincent, W. I.
 COQUILLET, Bull. 10, n. ser., Div. of Ent., 77, larvæ in timothy and wheat in Ind.; Proc. U. S. N. M., XXII, 269, oc. in Porto Rico.
 HOPKINS, Bull. 17, n. ser., Div. of Ent., larvæ mining in timothy.
 WEBSTER, Canad. Ent., 1900, 212, reared from wheat plants.
 HOWARD, Proc. Wash. Acad. Sci., II, 593, reared from human excrement—probably an unusual habit for the species.—D. C.
 N. J.—Smith Cat.; White Mts., N. H.—Slosson.
Note.—An undescribed *Ceratomyza* has been reared from young wheat plants at Pullman, Wash., by Professor C. V. Piper; it causes considerable damage.

AGROMYZA.

- FALLÉN, Agromyzides, 3, 1823.
 SCHINER, Fauna Austr., II, 299, 1864.
- æneiventris* FALLÉN, Agromyzides, 4.—Europe.
 MEIGEN, Syst. Besch., VI, 169 (*ænea*).
 ZETTERSTEDT, Dipt. Scand., VII, 2777.
 SCHINER, Fauna Austr., II, 304.
 OSTEN SACKEN, Cat., 210, oc. in N. A.—“Loew in litt.”
 COQUILLET, Bull. 10, n. ser., Div. of Ent., 78; larvæ in burrows in roots of clover and stems of *Ambrosia*.—U. S.
 N. J.—Smith Cat.; Porto Rico—Coquillett; Beulah, N. M.—Skinner.
Note.—Schiner says the larvæ have been reared from the pith of *Arc-tium*, and from the stems of *Angelica*, *Centaurea*, and *Carduus*.
- angulata* LOEW, Cent., VIII, 87.—Pa. N. J.—Smith Cat.

- anthrax WILLISTON, Trans. Ent. Soc. Lond., 1896, 430.—St. Vincent, W. I.
 arctica LUNDBECK, Dipt. Grœnl., II, 304, fig.—Greenland.
 coronata LOEW, Cent., VIII, 89.—Pa. N. J.—Smith Cat.
 Beulah, N. M.—Skinner.
 flaviventris JOHNSON, see *melampyga*.
 flavonigra COQUILLET, Jour. N. Y. Ent. Soc., x, 189.—Beulah, N. M.
 innominata WILLISTON, Trans. Ent. Soc. Lond., 1896, 443, pl. XIV, f. 158.—St. Vincent, W. I.
 invaria WALKER, Trans. Ent. Soc., new ser., IV, 232.—U. S.
 jucunda VAN DER WULP, Tijdschr. v. Ent., x, 161, pl. v, f. 19, 20.—Wis.
 BURGESS, Dept. Agric. Rept., 1879, 202 (*Oscinis malvæ*).—D. C. [Coq.]
 COMSTOCK, Dept. Agric. Rept., 1879, 201, mines in leaves of *Malva rotundifolia* (id.).
 COQUILLET, Proc. U. S. N. M., XXII, 268, oc.; Bull. 10, n. ser., Div. Ent., 77, larvæ mine in *Verbena*, *Malva*, *Xanthium*, *Aplopappus*, *Helianthus*, *Solidago*, and *Aster*.—St. Vincent and U. S. generally; Mo., D. C., Cal. N. J.—Smith Cat.; White Mts., N. H.—Slosson; Georgetown, Fla.
 See *lateralis* WILL.
 lacteipennis FALLÉN, Agromyzidae, 4.—Europe.
 ZETTERSTEDT, Dipt. Scand., VII, 2768.
 SCHINER, Fauna Austr., II, 300.
 COQUILLET, Proc. Wash. Acad. Sci., II, 464, oc. in N. A.—Saldovia, Alaska.
 lateralis WILLISTON, Trans. Ent. Soc. Lond., 1896, 428, pl. XIV, f. 156.—St. Vincent, W. I.
 COQUILLET, Proc. U. S. N. M., XXII, 268, makes this a syn. of *jucunda*; but the description seems to exclude this interpretation. The name is preoccupied.
 longipennis LOEW, Cent., VIII, 90.—D. C. Lawrence, Kans.—J. M. A.
 magnicornis LOEW, Cent., VIII, 86.—Pa. N. J.—Smith Cat.
 marginata LOEW, Cent., VIII, 91.—D. C.
 melampyga LOEW, Cent., VIII, 88.—D. C.
 COQUILLET, Bull. 10, n. ser., Div. of Ent., 77; larvæ mine in *Philadelphus* and *Plantago*.—D. C.
 JOHNSON, Canad. Ent., 1902, 242 (*flaviventris*).—Niagara Falls, N. Y. [JOHNSON, in litt.] N. J.—Smith Cat.; White Mts., N. H.—Slosson.
 ?metallica BIGOT, in Sagra's Cuba, 825 (*Ulidia*).—Cuba.
 Gen. ref. doubtfully from Osten's note, Cat., 211.
 neptis LOEW, Cent., VIII, 93.—Nebr.
 COQUILLET, Bull. 10, n. ser., Div. of Ent., 78, larvæ in Indian corn and *Solidago*; Proc. U. S. N. M., XXII, oc.; Proc. Wash. Acad. Sci., II, 463, oc.—D. C., Va.; Porto Rico and "from Mass. to Fla. and Texas"; Juneau, Alaska.
 parvicella COQUILLET, Jour. N. Y. Ent. Soc., x, 189.—St. Paul Id., Alaska.
 parvicornis LOEW, Cent., VIII, 92.—D. C. N. J.—Smith Cat.
 picta COQUILLET, Jour. N. Y. Ent. Soc., x, 188.—Frontera in Tabasco, Mex.
 pictella THOMSON, Eugen. Resa, 609.—Cal.
 platyptera THOMSON, Eugen. Resa, 608.—Cal.
 pruinosa COQUILLET, Jour. N. Y. Ent. Soc., x, 189.—Col.
 setosa LOEW, Cent., VIII, 83.—D. C.
 HINE, Ohio Naturalist, II, 169, notes; reared from wild rice, *Zizania aquatica*.—Ohio.
 COQUILLET, Bull. 10, n. ser., Div. of Ent., 78, larvæ in *Zizania*, *Chrysanthemum* and *Fragaria*.—D. C., N. Y., Cal.

- Palatka, Fla.—Johnson; Porto Rico—Coquillett; Beulah, N. M.—Skinner.
 simplex LOEW, Cent., VIII, 84.—Pa. N. J.—Smith Cat.
 SIRRINE, Bull. 189, N. Y. Expt. Sta., 1900; larvæ mine in asparagus; biology, etc.—N. Y.
 sorosis WILLISTON, Trans. Ent. Soc. Lond., 1896, 429.—St. Vincent, W. I.
 terminalis COQUILLET, Proc. Acad. Nat. Sci. Phil., 1895, 318.—Pa.; Welaka, Fla.
 White Mts., N. H.—Slosson.
 trifolii BURGESS, Dept. Agric. Rept., 1879, 201 (*Oscinis*).—D. C.
 COMSTOCK, Dept. Agric. Rept., 1879, 200 (id.), larvæ mine in white clover leaves.
 RILEY, Dept. Agric. Rept., 1884, 322, pl. VIII, f. 5 (*Oscinis brassicæ*); larvæ mine cabbage leaves.
 COQUILLET, Bull. 10, n. ser., Div. of Ent., 78, makes both the preceding synonyms of *Agromyza (Phytomyza) diminuta* WALKER, which last seems quite unrecognizable to me.
 CHITTENDEN, Bull. 33, n. ser., 77, mining leaves of cabbage, etc. (*diminuta*).
 tritici FITCH, 2d N. Y. Rept., 534, pl. II, f. 1.—N. Y.; larvæ in wheat straws.
 varifrons COQUILLET, Jour. N. Y. Ent. Soc., x, 189.—D. C.
 virens LOEW, Cent., VIII, 85.—Pa.
 viridula COQUILLET, Jour. N. Y. Ent. Soc., x, 190.—D. C., Mass., Ga., and Porto Rico.
 xanthophora SCHINER, Novara, 291.—S. A.
 WILLISTON, Trans. Ent. Soc. Lond., 1896, pl. XIV, f. 157.—St. Vincent, W. I.

HEMEROMYIA.

- COQUILLET, Jour. N. Y. Ent. Soc., x, 190, 1902.
 obscura COQUILLET, loc. cit.—Las Vegas Hot Spr., N. M.

PLATOPHYRMIA.

- WILLISTON, Trans. Ent. Soc. Lond., 1896, 426.
 nigra WILLISTON, loc. cit.—St. Vincent, W. I.

DESMOMETOPA.

- LOEW, Cent., VI, 96, 1865.
 WILLISTON, Manual, 104, note, 1896.
 MIK, Wien. Ent. Zeit., XVII, 146, 1898, generic characters, etc.; a species in New Guinea has been observed clinging in pairs on the back of an Asilid while the latter was flying.
 halteralis COQUILLET, Proc. U. S. N. M., XXII, 267.—Porto Rico, Fla., N. M., Col., Mass. N. J.—Smith Cat.
 latipes MEIGEN, Syst. Besch., VI, 177 (*Agromyza*).—Europe.
 SCHINER, Fauna Austr., II, 308 (id.).
 OSTEN SACKEN, Cat., 210, oc. in N. A., by "Loew in litt."
 HOWARD, Proc. Wash. Acad. Sci., II, 592, reared from human excrement.—D. C., Pa.
 luteola COQUILLET, Jour. N. Y. Ent. Soc., x, 188.—Frontera in Tabasco, Mex.
 m-nigrum ZETTERSTEDT, Dipt. Scand., VII, 2743 (*Agromyza*).—Europe.
 OSTEN SACKEN, Cat., 210, oc. in N. A., by "Loew in litt." N. J.—Smith Cat.
 tarsalis LOEW, Cent., VI, 96.—Cuba.

RHICNOËSSA.

- LOEW, Wien. Ent. Monatsch., vi, 1862; Berl. Ent. Zeitsch., 1865, 34.
 HENDEL, Wien. Ent. Zeit., XXI, 261, 1902.
albula LOEW, Cent., viii, 80.—Newport, R. I.
cinerea WILLISTON, Trans. Ent. Soc. Lond., 1896, 444, pl. xiv, f. 170 (*Anthomyza*).—St. Vincent, W. I.
 CZERNY, Wien. Ent. Zeit., XXI, 256, gen. ref.
coronata LOEW, Cent., vi, 98.—Ga.
parvula LOEW, Cent., viii, 81.—Newport, R. I.
 Kukak Bay and Saldivia, Alaska—Coquillett.
xanthopoda WILLISTON, Trans. Ent. Soc. Lond., 1896, 445 (*Anthomyza*).—St. Vincent, W. I.
 CZERNY, Wien. Ent. Zeit., XXI, 256, gen. ref.

EUSIPHONA.

- COQUILLET, Revis. Tachin., 49, 1897; Canad. Ent., xxx, 53, family ref.
mira COQUILLET, Revis. Tachin., 49; Canad. Ent., xxx, 53, note.—Ind., Col.

ARCTOBIELLA.

- COQUILLET, Jour. N. Y. Ent. Soc., x, 188, 1902.
obscura COQUILLET, loc. cit.—Laggan, British Columbia.

PHYLLOMYZA.

- FALLÉN, Ochthiphilides, 8, 1823.
 SCHINER, Fauna Austr., II, 311, 1864.
magnipalpis WILLISTON, Trans. Ent. Soc. Lond., 1896, 443, pl. xiv, f. 169.—St. Vincent, W. I.
nitens LOEW, Cent., viii, 82.—Pa.

CRYPTOCHÆTUM.

- RONDANI, Bull. Soc. Ent. Ital., 1875, 172.
 WILLISTON, Ins. Life, I, 21, 1888 (*Lestophonus*); p. 329, places in the Ochthiphilinae and suggests synonymy.
 MIK, Wien. Ent. Zeit., Aug., 1899, confirms synonymy; mentioned by Riley and Howard, Ins. Life, II, 91.
iceryæ WILLISTON, Ins. Life, I, 21, fig. (*Lestophonus*).—S. Australia; the larvae feed on the coccids *Icerya purchasi* and *Monophlebus crawfordi*—the last not occurring in N. A.
 RILEY and HOWARD, Ins. Life, I, 166, 199, 232, etc., introduction into California (id.).
 RILEY, Dept. Agric. Rept., 1889, 340, pl. III, f. 3, 4, 5, gen. ref., and notes on food habits, etc.
 Note.—Mr. Skuse of Australia and Dr. Riley thought there were two distinct species, the second named *monophlebi* SKUSE, that were introduced into the U. S.; see Ins. Life, II, 261.

AULACIGASTER.

- MACQUART, Hist. Nat. Dipt., II, 579, 1835.
 DUFOUR, Ann. Soc. Ent. France, 1845, 455 (*Apotemella*).
 WAHLBERG, K. Svenska Vet. Akad. Förh., 1847, 261 (*Amphycophora*).
 SCHINER, Fauna Austr., II, 269, 1864, desc. and syn.

- rufitarsis* MACQUART, Hist. Nat. Dipt., II, 580.—Europe.
 ZETTERSTEDT, Dipt. Scand., VII, 2707.
 SCHINER, Fauna Austr., II, 270.
 OSTEN SACKEN, Cat., 210, oc. in N. A.—D. C., Texas ("Loew in litt").

Subfamily MILICHINÆ.

MILICHIA.

- MEIGEN, Syst. Besch., VI, 131, 1830.
 WAHLBERG, Vetensk. Akad. Förh., 1847, 259 (*Lobioptera*).
 SCHINER, Fauna Austr., II, 296, 1864 (id.).
 COQUILLET, Jour. N. Y. Ent. Soc., x, 185, footnote, 1902.
arcuata LOEW, Zeitsch. f. Ges. Naturwiss., 1876, 339 (*Lobioptera*).—Long Id., N. Y.
 Ormond, Fla. (id.)—Johnson.
indecora LOEW, Cent., viii, 94 (*Lobioptera*).—Nebr.
 COQUILLET, Proc. U. S. N. M., XXII, 263, oc. in Porto Rico and in U. S., "ranging from N. H. to Ga." (id.).
lacteipennis LOEW, see *Ophthalmomyia*.
leucogaster LOEW, Wien. Ent. Monatsch., v, 43, 20; Centuries, VIII, 95 (the latter as *Lobioptera*).—Cuba.
 St. Vincent, W. I.—Williston.
robertsoni COQUILLET, Jour. N. Y. Ent. Soc., x, 187.—Inverness, Fla.

OPHTHALMOMYIA.

- WILLISTON, Trans. Ent. Soc. Lond., 1896, 426.
cinerea COQUILLET, Proc. U. S. N. M., XXII, 268.—Porto Rico.
lacteipennis LOEW, Cent., vi, 97 (*Lobioptera*).—Cuba.
 WILLISTON, Trans. Ent. Soc. Lond., 1896, pl. xiv, f. 154.—St. Vincent, W. I.
 COQUILLET, Proc. U. S. N. M., XXII, oc. in Porto Rico and U. S. from "D. C. to Fla. and west to N. M." Charlotte Harbor, Fla.—Johnson.

PHOLEOMYIA.

- BILIMEK, Verh. Zool.-Bot. Ges., 1867, 903.
leucozona BILIMEK, loc. cit.—Mex.

ODINIA.

- DESVOIDY, Myodaires, 648, 1830.
 LOEW, Stett. Ent. Zeit., 1843, 310, 322 (*Milichia* MEIG.).
 SCHINER, Fauna Austr., II, 297, 1864 (id.).
 COQUILLET, Jour. N. Y. Ent. Soc., x, 185, 1902, footnote.
immaculata COQUILLET, Jour. N. Y. Ent. Soc., x, 185.—Mt. Washington, N. H.
picta LOEW, Centuries, I, 99 (*Milichia*).—Ga.

PARODINIA.

- COQUILLET, Jour. N. Y. Ent. Soc., x, 186, 1902.
cinerea COQUILLET, loc. cit.—Los Angeles Co., Cal.
costalis COQUILLET, Proc. Wash. Acad. Sci., III, 378 (*Rhichnoëssa*); Jour. N. Y. Ent. Soc., x, 187, oc. and gen. ref.—Galapagos Ids.; Ariz.

PSEUDODINIA.

COQUILLET, Jour. N. Y. Ent. Soc., x, 187, 1902.
varipes COQUILLET, loc. cit.—Las Vegas Hot Spr., N. M.

TRAGINOPS.

COQUILLET, Ent. News, 1900, 429.
irrorata COQUILLET, loc. cit., figs.—Ga., N. J.

CACOXENUS.

LOEW, Wien. Ent. Monatsch., 1858, 217, 213.
SCHINER, Fauna Austr., II, 298, 1864.
semiluteus LOEW, Cent., VIII, 97.—Cuba.

Subfamily OCHTHIPHILINÆ.

LEUCOPIS.

MEIGEN, Syst. Besch., VI, 217, 1830.
SCHINER, Fauna Austr., II, 294, 1864.
COQUILLET, Bull. 10, n. ser., Div. of Ent., 76, 77, notes of various species of aphids and coccids affected by *L. nigricornis*, *simplex*, *bella* and *bellula*.
BRODIE, Canad. Ent., XXIV, 14, reports the rearing of an undet. sp. from galls on *Nabulus altissimus*.
bella LOEW, Cent., 99.—Cuba.
TOWNSEND, Trans. Amer. Ent. Soc., XXII, 80, bred from plant-lice in Col.
COQUILLET, Proc. U. S. N. M., XXII, 269, oc. in Porto Rico and "extending from Nova Scotia to Cal. and Mex." Bred in Porto Rico from larvæ feeding on *Dactylopius citri*.
WEBSTER, Canad. Ent., XXX, 19, reared from Melon louse.
Fla.—Johnson; Nova Scotia and Ottawa, Can.—Coquillett.
bellula WILLISTON, Ins. Life, I, 258.—Texas; the larvæ feed on cochineal insect—*Coccus cacti*.
COQUILLET, Bull. 10, n. ser., Div. of Ent., 77.—Texas, N. M., Mex.; occurrence, etc.
nigricornis EGGER, Verh. Zool.-Bot. Ges., XII, 782.—Europe.
SCHINER, Fauna Austr., II, 295.
N. J.—Smith Cat.; Texas, Cal., N. H., and Ind.—Coquillett, Bull. 10; Beulah, N. M.—Skinner.
simplex LOEW, Cent., VIII, 96.—N. Y.
N. J.—Smith Cat.; White Mts., N. H.—Slosson; Va., Mich., Nebr., D. C.—Coquillett, Bull. 10.

OCHTHIPHILA.

FALLÉN, Ochthidia, 1823.
LOEW, Wien. Ent. Monatsch., 1858, 219, in an article about *Cacoxenus*.
SCHINER, Fauna Austr., II, 291, 1864.
elegans PANZER, Fauna Germanica, CV, 12 (*Chamomyia*).—Europe.
SCHINER, Fauna Austr., II, 292.
N. J.—Smith Cat.
lispina THOMSON, Eugen. Resa, 599.—Cal.
polystigma MEIGEN, Syst. Besch., VI, 92.—Europe.
SCHINER, Fauna Austr., II, 293.
N. J.—Smith Cat.; Montreal—Chagnon.

ACROMETOPA.

SCHINER, Wien. Ent. Monatsch., VI, 1862; Fauna Austr., II, 290, 1864.
COQUILLET, Jour. N. Y. Ent. Soc., X, 185, 1902, note.
punctata COQUILLET, loc. cit.—Ga.
maculata COQUILLET, loc. cit.—Baracoa, Cuba.

HIPPOBOSCIDÆ.

BIGOT, Annales, 1885, 230-234, table of all genera of Pupipara.
SPEISER, Wien. Ent. Zeit., XVIII, 201, 1899, table of genera of Hippoboscidae; Zeitsch. f. Hym. u. Dipterol., 1902, 145-180, an important generic revision, including Nycteribidae.

HIPPOBOSCA.

LINNÉ, Fauna Suecica, 471, 1761.
SCHINER, Fauna Austr., II, 644, 1864.
equina LINNÉ, Fauna Suec., 471.—Europe; a winged horse-tick.
SCHINER, Fauna Austr., II, 644.
LOEW, in Silliman's Jour., oc. in N. A.; but it must be extremely rare, as I have never seen it in any collection, nor known of its capture by any entomologist. Lugger mentions it, 2d Minn. Rept., 1896, 143, but without positively asserting that it occurs in Minn. It is possible that Loew was mistaken in the locality of his specimen.

LIPOPTENA.

NITSCH, Germ. Mag. f. Ent., III, 310, 1818.
SCHINER, Fauna Austr., II, 648, 1864.
COOPER CURTICE, Animal Parasites of Sheep, Washington, 1890.
depressa SAY, Jour. Acad. Sci. Phil., III, 104; Compl. Works, II, 88 (*Melophagus*).—Pa.; on *Cervus virginianus*, the common deer.
Gen. ref. by "Loew in litt."—O. S. Cat.
TOWNSEND, Annals and Mag. Nat. Hist., XX, 289, describes var. *mexicana*, on the Mexican variety of the common deer.—Vera Cruz.
mazamæ RONDANI, Annali Mus. Civ., etc., Genova, 1878, 153.—Central America, on *Cervus mexicanus*.

ORNITHEZA.

SPEISER, Termész. Füzetek, XXV, 327, 1902.
pilosula VAN DER WULP, Biologia, Dipt., II, 432, pl. XIII, f. 6 (*Ornithomyia*).—Costa Rica.
AUSTEN, Ann. and Mag. Nat. Hist., ser. 7, XII, 262, gen. ref. and notes.
? varipes WALKER, List, IV, 1146 (*Ornithomyia*).—Colombia.
VAN DER WULP, Biologia, Dipt., II, 431 (*Ornithomyia avicularia* LINN.).—Costa Rica.
AUSTEN, Ann. and Mag. Nat. Hist., ser. 7, XII, 262, syn. from Walker's and Van der Wulp's specimens; oc. in Peru, Orizaba and Hawaiian Islands; gen. ref. with a doubt.

ORNITHOMYIA.

LATREILLE, Hist. Nat. Crust. et Ins., III, 466, 1802; XIV, 402, 1804.
SCHINER, Fauna Austr., II, 646, 1864.
SPEISER, Termész. Füzetek, 1902, 327, subdivides.