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Fauna of New England.



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Chas W. Johnson

Occasional Papers
OF THE
Boston Society of Natural History.
VII.

FAUNA OF NEW ENGLAND.

15.

LIST OF THE DIPTERA OR TWO-WINGED FLIES.

By CHARLES W. JOHNSON.

BOSTON:
PRINTED FOR THE SOCIETY FROM THE
GURDON SALTONSTALL FUND.
FEBRUARY, 1925

C. slossonae Malloch, 15-506.

N. H.—Mt. Washington (*Mrs. Slosson*).

C. sylvestris (Fabricius).

MASS.—24, 27, 31, 32. CONN.—35. May 16-Oct. 31.

The larva mines the floating leaves of water-lilies.

C. trifasciatus (Panzer).

Vt.—16. June 17.

MASS.—23, 26, 27, 29, 30. June 27-Aug. 8.

C. varipes Coquillett.

N. H.—Jaffrey, June 8. Vt.—Burlington, June 23.

MASS.—Auburndale, Aug. 9; North Reading, June 10.

Camptocladius Van der Wulp.

C. byssinus (Schränk).

N. H.—Mt. Washington (*Mrs. Slosson*). Vt.—Middlebury,
July (*Barlow*).

MASS.—Medford, Apr. 12 (*Barber*). CONN.—New Haven, June
26, Nov. 4.

C. minimus (Meigen).

N. H.—Mt. Washington (*Mrs. Slosson*).

Orthocladius Van der Wulp.

O. nivoriundus (Fitch).

N. H.—Mt. Washington (*Mrs. Slosson*).

MASS.—Forest Hills, Boston, Apr. 14, 1910; Auburndale, Apr.
16; Wellesley, Mar. 20 (*Morse*).

O. sordidellus (Zetterstedt) (*O. variabilis* (Staeger)).

N. H.—Mt. Washington (*Mrs. Slosson*).

?**O. oceanicus** (Packard).

MASS.—Salem Harbor, larvae living in salt water (*Packard*).

CECIDOMYIIDAE (*Itonididae*). Gall Midges.

Catocha Haladay.

C. americana Felt, 08-309 and 13-130.

N. H.—Franconia (*Mrs. Slosson*).

C. slossonae Felt, 08-309, and 13-132.

N. H.—Franconia (*Mrs. Slosson*).

Lestremia Macquart.

L. franconiae Felt, 08-311 and 13-141.

N. H.—Franconia (*Mrs. Slosson*).

L. leucophaea Meigen.

N. H.—Mt. Washington (*Mrs. Slosson*), det. by Coquillett.

Monardia Kieffer.

- M. articulosa* (Felt), 08-315 and 13-192.
N. H.—White Mts. (*Morrison*), U. S. Nat. Mus.
- M. barlowi* (Felt), 08-316 and 13-190.
R. I.—Kingston, May 2, 1904 (*Barlow*).
- M. lateralis* Felt, 14-102.
MASS.—Boston, May 10 (*Bryant*).
- M. modesta* Felt, 13-142.
CONN.—New Haven, Nov. 4 (*Viereck*).
- M. multiarticulata* Felt, 14-109.
N. H.—Franconia (*Mrs. Slosson*).
- M. rugosa* Felt, 14-110.
N. H.—Hanover, July 5, 1908.

Prionellus Kieffer.

- P. dilatatus* (Felt), 07-149 and 13-178.
MASS.—Worcester (*Thompson*).

Miastor Meinert.

- M. americana* Felt, 07-5 and 13-205.
CONN.—Colebrook, June 8, 1911 (*Wheeler*).
The larva of this species is frequently pedogenetic (Felt, 11-82).

Johnsonomyia Felt, 08-417.

- J. rubra* Felt, 08-417 and 13-212.
N. H.—Jaffrey, June 14. Vt.—Montpelier, June 26, 1906.
MASS.—Great Barrington, June 16, 1915; Sunderland, May 30,
flying about very old decayed logs, in shady places.

Didactylomyia Felt, 11-39.

- D. capitata* Felt, 13-174.
MASS.—North Adams, Aug. 1907 (*Bryant*).
- D. longimana* Felt, 08-416 and 15-142.
MASS.—Auburndale, Aug. 16, 1906.

Colpodia Winnertz.

- C. cornuta* Felt, 15-153.
MASS.—Arnold Arboretum, Jamaica Plain, Boston, Oct. 31
(*Cora H. Clarke*).

Porricondyla Rondani.

- P. hamata* Felt, 07-146 and 15-177.
MASS.—Brookline, Aug. 23.
- P. johnsoni* Felt, 19-282.
MASS.—Brookline, Aug. 23.

P. novaeangliae Felt, 14-110.

N. H.—Franconia (*Mrs. Slosson*).

P. papillata Felt, 14-111.

N. H.—Mt. Washington (*Mrs. Slosson*).

Dirhiza Loew.

D. montana Felt, 08-420 and 15-186.

N. H.—White Mts. (*Morrison*).

Asynapta Loew.

A. frosti Felt, 13-143.

MASS.—Framingham, June 1, 1910 (*Frost*).

A. nobilis Felt, 13-142.

ME.—Bridgton, Aug. 23.

Rhabdophaga Westwood.

R. batatas (Walsh). The Willow Potato-gall.

ME.—Mt. Desert, Aug. 5.

MASS.—Springfield (*Stebbins*); Worcester (*Thompson*). R. I.—Providence.

Irregular ovoid galls on the willow twigs (Felt, 15-105).

R. brassicoides (Walsh). The Willow Cabbage-gall.

ME.—Mt. Desert, Aug. 5.

MASS.—Springfield (*Stebbins*).

Large rosette galls on willows (Felt, 15-113).

R. gnaphaloides (Walsh).

MASS.—Springfield, Apr. (*Stebbins*).

An ovate terminal bud-gall on willow.

R. nodula (Walsh). Nodule Willow-gall.

MASS.—Worcester, May-June (*Thompson*).

Nodular gall at the base of twigs (Felt, 15-91).

R. salicifolia Felt, 07-12 and 15-106. Spiraea Pod-gall.

ME.—Mt. Desert. N. H.—

MASS.—Magnolia (*Cora H. Clarke*); Springfield (*Stebbins*).

R. I.—Providence.

R. strobiloides (Walsh). The Cone Willow-gall.

ME.—8, 9, 10. N. H.—11, 14, 15. VT.—21. Apr. 16-May 18.

MASS.—23, 24, 25, 27, 32. R. I.—33. CONN.—35. Apr. 20-May 30.

The midges emerge in April (Felt, 13-112).

R. triticoides (Walsh). The Wheat-ear Willow-gall.

ME.—Mt. Desert. N. H.—Hanover.

MASS.—Worcester (*Thompson*); Auburndale; Concord.

Dasyneura Rondani.

D. americana Felt, 20-136 and 15-168 (*D. galli* Felt, 08-348, not Loew).

MASS.—Magnolia, Aug. 14 (*Cora H. Clarke*).

Flower bud-gall on bed-straw (*Galium asprellum*).

D. aromaticae Felt, 09-289 and 15-183.

MASS.—Barre, reared Aug. 23, 1908 (*Cora H. Clarke*).

The spearmint bud-gall (Felt, 18-184).

D. clematidis Felt, 08-344 and 15-147.

MASS.—Springfield (*Stebbins*).

Forms an irregular subglobular bud-gall on *Clematis virginiana*.

D. corticis Felt, 09-289 and 15-168.

MASS.—Arnold Arboretum, Boston, May 15—midge emerged May 21 (*Cora H. Clarke*).

In willow twigs, larvae in subcortical cells, no swelling (Felt, 18-34).

D. cyanococci Felt, 08-292 and 15-145. The Blueberry Bud-gall.

MASS.—Stowe.

D. communis Felt, 11-478 and 15-181. Gouty Vein-gall.

MASS.—CONN.—

Pouch-like vein-galls on the red maple (Felt, 18-161).

D. gaylussacii Felt, 18-176 (*Cecidomyia vaccinii* Osten Sacken, not Smith). Blueberry Leaf-gall.

ME.—Mt. Desert.

MASS.—Springfield, Sept.; South Hadley (*Stebbins*).

Cockscomb-shaped gall on under side of leaf on the mid-rib.

D. gleditschiae (Osten Sacken). Honey Locust Midge.

VT.—Bennington, June 23.

MASS.—Brookline, June; Worcester, Aug. (*Thompson*). R. I.—Newport, Aug. (*Osten Sacken*). CONN.—New Haven, June 20 (*Walden*).

On the honey locust (*Gleditschia triacanthus*). The young leaves are transformed into pod-like swellings (Felt, 15-163 and 18-152).

D. lysimachiae (Beutenmueller), 07-305.

MASS.—Magnolia, Aug. 18 (*Cora H. Clarke*); Worcester, June (*Thompson*).

An apical bud-gall on loosestrife (*Lysimachia quadrifolia*) (Felt, 15-182 and 18-178).

D. maritima Felt, 09-288 and 15-149.

MASS.—Magnolia, Apr. 21, 1909 (*Cora H. Clarke*).

Rolls the leaflets of the beach pea, *Lathyrus maritimus* (Felt, 18-155).

- D. parthenocissi** (Stebbins), 09-44. Woodbine Vein-gall.
 MASS.—Springfield (*Stebbins*).
 Tumid irregular mid-rib galls on woodbine, *Parthenocissus quinquefolia* (Felt, 15-161 and 18-165).
- D. purpurea** Felt, 08-349. Joe-pye-weed Midge.
 MASS.—Worcester, Sept. (*Thompson*); Martha's Vineyard, Aug. 25.
 An oval blossom bud-gall on Joe-pye-weed, *Eupatorium purpureum* (Felt, 15-181 and 18-190).
- D. radifolii** Felt, 09-289.
 MASS.—Magnolia, Apr. 16-12, 1909 (*Cora H. Clarke*).
 Oval irregular greenish gall composed of clusters of root-leaves on *Solidago puberula* (Felt, 15-178 and 18-193).
- D. rhodophaga** (Coquillett). Rose-bud Midge.
 MASS.—Boston (1894). R. I.—A heavy infestation in 1911.
 The larva inhabits the rose buds and developing leaves (Felt, 15-130 and 18-140).
- D. rosarum** Hardy. Rose-leaf Midge.
 MASS.—Worcester, July (*Thompson*); Magnolia (*Cora H. Clarke*).
 Curls or folds the terminal leaves (Felt, 15-166 and 18-148).
- D. salicifolia** Felt, 07-12 and 15-169. Willow-pod Midge.
 MASS.—Magnolia, June 1 (*Cora H. Clarke*).
 A fusiform pod or curled leaves (Felt, 18-32).
- D. semenivora** (Beutenmueller), 07-390. Violet-seed Midge.
 MASS.—Springfield (*Stebbins*).
 Forming irregular deformed fruit of the violets (Felt, 15-166 and 18-172).
- D. serrulatae** (Osten Sacken). Alder-bud Gall.
 MASS.—Auburndale; Worcester (*Thompson*); Springfield, Apr. (*Stebbins*).
 Subconical bud-gall on *Alnus rugosa* (Felt, 15-186 and 18-50).
- D. smilacifolia** Felt, 11-480 and 15-147. Smilax-leaf Midge.
 MASS.—Magnolia, Aug. and Sept. (*Cora H. Clarke*).
 Young leaves are rolled longitudinally (Felt, 18-28).
- D. toweri** Felt, 09-289 and 15-187.
 MASS.—Magnolia, Sept.-Oct. (*Cora H. Clarke*).
 Axillary bud-galls on St. John's-wort, *Hypericum mutilum* (Felt, 18-171).
- D. trifolii** (Loew). Clover-leaf Midge.
 MASS.—Stow; Boston.
 Folds and discolors the leaves of white clover (Felt, 15-143 and 18-154).

D. tumidosae Felt, 08-346 and 15-155.

MASS.—Worcester, May (*Thompson*).

Reared from tumid galls on leaves of ash (Felt, 18-179).

D. ulmea Felt, 08-349 and 15-171.

MASS.—Jamaica Plain, Boston (*J. G. Jack*).

Aborted or blasted buds on elm (Felt, 18-120).

D. vaccinii (Smith) (*Cecidomyia vaccinii* Smith, 1890, not Osten Sacken, 1869; *C. oxycoccana* Johnson; Osten Sacken's name was based on the gall only). The Cranberry Midge.

MASS.—East Wareham, State Cranberry Station (*Franklin*).

Bud-gall or leaf-fold on cranberry (Felt, 15-150 and 18-177).

Diarthronomyia Felt, 08-339.

D. hypogaea (Loew). Chrysanthemum Midge.

ME.—

MASS.—Swampscott; Fitchburg. R. I.—Kingston, Feb. 3, 1920 (*Barlow*). CONN.—Hartford; Cromwell; New Haven; Bridgeport.

Introduced; forming swollen stems or deformed buds (Felt, 16-51 and 18-208).

Cystiphora Kieffer.

C. viburnifolia Felt, 11-480.

MASS.—Magnolia, May 5 (*Cora H. Clarke*).

Minute blister-gall on under side of the leaf of *Viburnum lentago*? (Felt, 15-201 and 18-187).

Lasioptera Meigen.

L. clarkei Felt, 09-287 and 18-164.

MASS.—Magnolia, Oct. 12, 1908 (*Clarke*).

Forming blister-galls on the leaves of *Aster macrophylla*.

L. clavula (Beutenmueller), 18-121.

MASS.—Springfield, May and June; Sharon, May.

Forming clavate galls on the apical twigs of the flowering dogwood (*Cornus florida*).

L. convolvuli Felt, 07-149 and 18-143.

MASS.—Springfield.

Forming galls on the stems of the bindweed (*Convolvulus sepium*).

L. corni Felt, 07-107 and 18-119.

MASS.—Wilbraham. CONN.—

Forming ocellate galls on the leaves of *Cornus paniculata* and *C. candidissima*.

L. cylindrigallae Felt, 07-150 and 18-157.

MASS.—Mt. Tom, July 22; Worcester (*Thompson*).

L. excavata Felt, 07-6 and 18-169.

MASS.—Worcester, July.

Forming blister-like galls on *Crataegus*.

L. farinosa (Beutenmueller), 07-397 and Felt, 18-137.

MASS.—Springfield (*Stebbins*); Worcester (*Thompson*).

Forming primrose leaf-galls on blackberry (*Rubus nigrobuccus*).

L. fraxinifolia Felt, 08-327 and 18-166.

MASS.—Auburndale; Springfield, June.

From galls on ash leaves, described as *Cecidomyia pellax* by Osten Sacken.

L. fructuaria Felt, 16-268.

ME.—Orono, reared from blueberries, June (*W. C. Wood*).

L. galeopsidis Felt, 09-287 and 18-151.

MASS.—Boston, May 21 (*Clarke*).

Forming irregular stem-galls on common hemp nettle (*Galeopsis tetrahit*).

L. impatientifolia Felt, 07-105 and 18-122.

MASS.—Springfield; Worcester.

Forming galls on jewel-weed (*Impatiens fulva*).

L. luctucae Felt, 07-151 and 18-149.

N. H.—Holderness, Apr. 18.

MASS.—Worcester (*Thompson*).

L. lycopi Felt, 07-152 and 18-145.

MASS.—Worcester, Oct.

Forming oval stem-galls on bugleweed (*Lycopus communis*).

L. nodulosa Beutenmueller, 07-397; Felt, 18-137.

MASS.—Springfield, May and June; Worcester (*Thompson*).

R. I.—Providence.

Forming irregular stem-galls on blackberry.

L. querciperda Felt, 08-125.

MASS.—Worcester. R. I.—Providence. CONN.—New Haven (*Champlain*).

The gall consist of swellings on white-oak twigs.

L. solidaginis Osten Sacken (*Cecidomyia tumifica* Beutenmueller).

N. H.—Boscawen.

MASS.—Worcester (*Thompson*); Springfield (*Stebbins*); Forest Hills, Boston, Apr. 20 (*Cora H. Clarke*).

A gall on the stem of one of the goldenrods, *Solidago rugosa*.

L. spiraeafolia Felt, 09-287.

ME.—Bar Harbor.

MASS.—Magnolia, July 16 (*Clarke*); Auburndale.

Forming galls on meadow-sweet (*Spiraea salicifolia*).

L. vitis Osten Sacken.

MASS.—Springfield, June, on wild grape (*Stebbins*). CONN.—
Forming galls on the leaves and tendrils of the grape.

L. virginica Felt, 09-287 and 18-154.

MASS.—Magnolia, Oct. 10 (*Clarke*).

A stem-gall on the marsh St. John's-wort (*Hypericum virginicum*).

Neolasioptera Felt.

N. cornicola (Beutenmueller), 07-394.

R. I.—Providence.

Irregular stem-gall on *Cornus stolonifera*.

N. erigerontis (Felt), 07-163. Horseweed-stem Midge.

MASS.—

Fusiform stem-gall on horseweed (*Erigeron canadensis*).

N. perfoliata (Felt), 07-156 and 18-189. Boneset-stem Midge.

MASS.—Worcester; Springfield. CONN.—

Oval stem-galls on boneset (*Eupatorium perfoliatum*).

N. ramuscula (Beutenmueller), 07-392; Felt, 18-197 (*Cecidomyia strombiligemma* Stebbins).

MASS.—Worcester; Springfield. CONN.—

Fusiform stem-galls on several species of asters.

N. sambuci (Felt), 06-131 and 18-183. Elder-stem Midge.

MASS.—Worcester; Springfield, May and June (*Stebbins*).

R. I.— CONN.—

An irregular gall on the stems of elder.

N. vitinea (Felt), 07-153 and 18-178.

MASS.—Worcester (*Thompson*).

A conical petiole-gall on grape.

Asteromyia Felt, 10-348.

A. agrostis (Osten Sacken).

N. H.—Milford (*Whitney*).

MASS.—Worcester (*Thompson*); Cheshire.

Forms a flattened cone-shaped gall on grass (*Muhlenbergia*).

A. asterifolia (Beutenmueller), 07-395; Felt, 18-223.

MASS.—Mt. Tom, Oct. 17 (*Stebbins*).

Circular yellowish-white dark-margined galls on *Aster laterifolius*.

A. carbonifera Felt, 18-202.

ME.—Mt. Desert.

MASS.—Springfield (*Stebbins*); Auburndale, Aug. 7; Worcester (*Thompson*).

Oval black ocellate blister-galls on the leaves of *Solidago graminifolia*. The gall was named *Cecidomyia carbonifera* by Osten Sacken.

A. divaricata Felt, 08-330.

N. H.—Jaffrey, June 14. CONN.—

"Large oval pinkish blotches on *Aster divaricatus*" (Felt).**A. dumosae** (Felt), 09-286 and 18-221.MASS.—Annisquam, July 30, 1908 (*Cora H. Clarke*).A small blister-gall on *Aster dumosus*.**A. flavolunata** (Felt), 08-329 and 13-228.MASS.—Springfield, June (*Stebbins*)."Semi-oval marginal yellowish gall on the leaves of *Solidago canadensis*."**A. laeviana** (Felt), 07-108.

MASS.— CONN.—

Oval greenish-yellow gall on *Aster laevis*.**A. nigrina** Felt, 11-481.MASS.—Magnolia, gall, Oct., 1906; midges emerged May, 1907 (*Cora H. Clarke*).Greenish blister-leaf galls on witch-hazel (*Hamamelis*).**A. petiolicola** (Felt), 08-228 and 18-217. Grape-petiole Gall.

R. I.—Providence, Sept.

Ovate swellings on the basal portion of the petiole of the wild grape.

A. reducta Felt, 11-481.MASS.—Magnolia, July 26-28, 1910 (*Cora H. Clarke*). CONN.—Oval blackish galls on *Aster undulata*.**A. rubra** Felt, 07-203 and 18-229.

N. H.—

MASS.—Worcester, June-July. R. I.—Providence. CONN.—

A variegated blister-gall on the leaves of *Solidago rugosa*.**A. sylvestris** Felt.

CONN.—

Circular yellowish or brownish galls on *Aster cordifolius*.**A. vesiculosa** (Felt), 09-286 and 18-213.MASS.—Magnolia, Sept. 24, 1908 (*Mrs. H. M. Tower*). CONN.—Oval green swellings on *Aster*.**Clinorrhyncha** Loew.**C. eupatoriflorae** (Felt), 07-6.

MASS.—Springfield, Sept. CONN.—Suffield.

In florets of thoroughwort, *Eupatorium perfoliatum* and *E. ageratooides* (Felt, 18-236).**C. filicis** Felt, 07-108.MASS.—Magnolia (*Miss Clarke*).Apparently reared from willow, bearing the gall of *Hormomyia verruca* Walsh (Felt, 18-234).

Camptoneuromyia Felt, 08-334.**C. rubifolia** Felt, 08-334.

MASS.—Magnolia, July 30 (*Cora H. Clarke*). CONN.—

A corrugated marginal leaf-roll on blackberry (Felt, 18-243).

Phytophaga Rondani.**P. destructor** (Say) (*Mayetiola destructor* of authors). The Hessian Fly.

This has been recorded from most of the New England States, when wheat was more generally grown. Packard says that it was first noticed at New Haven, Conn., in 1833, and was destructive in Aroostook Co., Me., in 1854.

P. fraxini Felt, 15-206. Ash-petiole Midge.

MASS.—

Rearing from base of leaf-petioles of white ash (Felt, 18-179).

P. rididae (Osten Sacken). Beaked Willow-gall.

ME.—Mt. Desert, June.

MASS.—Woburn, April 24; Wellesley, Mar. 13 (*Morse*); Worcester (*Thompson*); Springfield (*Stebbins*). CONN.—New Haven, Feb. 14 (*Walden*).

An apical fusiform beaked gall (Felt, 15-213 and 18-36).

P. ulmi (Beutenmueller), 07-387.

MASS.—Worcester, June, July (*Thompson*).

The gall is formed by the growing together of inactive leaves (Felt, 15-202 and 18-120).

P. violicola (Coquillett). Violet-leaf Midge.

MASS.— CONN.—

Rolls and discolors the leaves of *Viola odorata* (Felt, 15-204 and 18-172).

Janetiella Kieffer.**J. asplenifolia** (Felt), 07-157. Sweet-fern Midge.

MASS.—Worcester (*Thompson*); Magnolia, July (*Cora H. Clarke*).

A leaf-folding gall, near the mid-vein on *Myrica aspenifolia* (Felt, 15-221 and 18-40).

Rhopalomyia Rübbsaamen.**R. anthophila** (Osten Sacken). Downy Flower-gall (Felt, 18-191).

MASS.—Springfield, Sept. (*Stebbins*); Worcester (*Thompson*). CONN.—

Green pubescent, cylindrical galls in flower of *Solidago canadensis*.

R. astericaulis Felt, 07-159 and 15-251.

MASS.—Worcester; Woods Hole, July 13. CONN.—

Oval twig-gall on *Aster novae-angliae* (Felt, 18-201).

R. bulbula Felt, 08-365 and 15-260.

MASS.—Worcester (*Thompson*).

Cylindrical apical bud-gall in rootstalk (Felt, 18-197).

R. capitata Felt, 08-363 and 15-245.

MASS.—CONN.—

Goldenrod rosette midge on *Solidago canadensis* and *S. serotina* (Felt, 18-193).

R. castanae Felt, 09-291 and 15-278. Chestnut-bud Gall.

MASS.—Stow.

Petiole or terminal-bud gall (Felt, 18-50 and 53).

R. clarkei Felt, 07-18 and 15-239.

N. H.—Tamworth (*Cora H. Clarke*).

MASS.—Magnolia. CONN.—East Haven, June 30 (*Walden*).

Gall fusiform, sessile, green, marked with red, on leaves of *Solidago rugosa* (Felt, 18-193).

R. lateriflori Felt, 07-159 and 15-257 (*Cecidomyia? gemmaria* Stebbins, 09-53 and 126, gall only).

MASS.—Springfield, Aug. and Sept. (*Dimmock*); abundant on *Aster ericoides* (*Stebbins*); Annisquam.

Axillary bud-gall on *Aster lateriflorus* (Felt, 18-199).

R. hirtipes (Osten Sacken). Rootstalk-bud Midge (Felt, 18-192).

MASS.—Magnolia (*Clarke*); Worcester (*Thompson*); Springfield (*Stebbins*); Petersham, Sept. 2 (*G. C. Wheeler*).

A globose apical stem-gall on rootstalks of *Solidago juncea*.

R. pedicellata Felt, 08-365 and 15-262 (*Cecidomyia? euthemiae* Stebbins, 09-53, gall only). Goldenrod Stem Gall.

ME.—Southport.

MASS.—Springfield, Aug.-Sept. (*Stebbins*).

A fusiform gall, green, marked with red on *Solidago graminifolia* (Felt, 18-193).

R. racemicola (Osten Sacken). Beaked Goldenrod Gall.

N. H.—MASS.—Springfield, Sept. (*Stebbins*); Auburndale.

A subglobular bud-like gall on the flowers of *Solidago canadensis* (Felt, 18-19).

R. solidaginis (Loew). Goldenrod Bunch-gall (Felt, 18-192).

N. H.—MASS.—Springfield (*Stebbins*); Auburndale.

The gall is terminal, consisting of a bunch of many small leaves on *Solidago canadensis*.

R.? strobiligemma (Stebbins), 10-53.

MASS.—Springfield, Sept. (*Stebbins*). An ovate gall.

R.? thomi Felt, 15-50.

MASS.—Worcester, Aug. (*Thompson*).

An ovoid gall on the end of the stems of aster.

R. thompsoni Felt, 07-159 and 15-257.

MASS.—Worcester (*Thompson*).

An ovoid rootstalk gall on *Solidago*. *R. hirtipes*, Felt, 18-197.

R. truncata (Felt), 07-160 (*Hormomyia truncata* Felt, 07-160; *Rhopalomyia uniformis* Felt, 15-244 n. nov. for *truncata* 1907, not 1908).¹

MASS.—Boston (*J. G. Jack*).

Oligothrophus Latreille.

O. betulae Winnertz. Birch-seed Midge.

MASS.—Boston (*Cora H. Clarke*). CONN.—New Haven.

Deforms the white-birch catkins, changing the alate seeds to a globose gall (Felt, 15-227 and 18-49).

Sackenomyia Felt, 08-361.

S. packardi Felt, 09-290.

MASS.—Canton, Apr. 15 (*Winthrop Packard*); Boston, May 19 (*Cora H. Clarke*).

Slightly enlarged twigs on the long-leaved willow, *Salix longifolia* (Felt, 15-282 and 18-33).

S. viburnifolia Felt, 09-290.

MASS.—Magnolia, Apr. 23-May 8 (*Cora H. Clarke*).

Purplish swellings on the lateral veins of *Viburnum dentatum* (Felt, 15-280).

Lasiapteryx Westwood.

L. coryli (Felt), 07-11.

MASS.—Worcester, June (*Thompson*).

Fuzzy wrinkled-fold galls at the base of leaves, *Corylus americanus* (Felt, 15-193).

L. crispata Felt, 14-111.

MASS.—Magnolia, Aug. 22, 1912 (*Cora H. Clarke*).

Reared from a yellowish blister-leaf gall on *Oakesia sessilifolia*.

Asphondylia Loew.

A. antennariae (Wheeler). Everlasting-bud Gall.

ME.—Bar Harbor, Aug. 15.

Corn-shaped bud-gall on everlasting (*Atennaria plantaginifolia*) (Felt, 16-133 and 18-204).

A. conspicua (Osten Sacken). Cone-flower Gall.

MASS.—Springfield (*Stebbins*). CONN.—Westfield, Sept. 19 (*Britton*).

Irregular subglobular apical-bud gall on cone-flower (*Rudbeckia laciniata*); (Felt, 16-146 and 18-206).

¹The rules of nomenclature say that when a name is preoccupied the last name should be changed. For *R. truncata* Felt, 08-365, I therefore propose *R. felti*.

A. diervillae Felt, 07-165 and 16-140 (*Cecidomyia inaequalis* Stebbins, 10-48). Bush-honeysuckle Midge.

MASS.—Mt. Holyoke (*Stebbins*).

The galls consist of enlarged buds and fruit of *Diervilla* (Felt, 18-187).

A. monacha Osten Sacken. Nun Midge.

ME.—Oquosoc, July 1. N. H.—Jaffrey, June 14.

MASS.—Magnolia, Sept. 1 (*Clarke*); Worcester (*Thompson*); Springfield (*Stebbins*). R. I.—Buttonwoods, June 15.

An apical, subglobular, rather firm gall on goldenrod (Felt, 16-127 and 18-193).

A. thalictri Felt, 11-547. Meadowrue-seed Midge.

N. H.—Shelburne.

MASS.—Magnolia, Aug. 8-18 (*Cora H. Clarke*); Brookline, June 2.

Irregular swollen seed-capsules on *Thalictrum* (Felt, 16-137 and 18-128).

Schizomyia Kieffer.

S. coryloides (Walsh and Riley). Grape Filbert Gall.

MASS.—Springfield, on stems of frost grape, *Vitis cordifolia* (*Stebbins*); Worcester (*Thompson*).

Irregular, fusiform pubescent galls, in clusters (Felt, 16-108 and 18-166).

S. petiolicola Felt, 08-379. Grape-petiole Gall.

MASS.—An oval gall on the stem or tendril (Felt, 18-167).

S. pomum (Walsh and Riley). Grape Apple Gall.

MASS.—Springfield, on northern fox grape, *Vitis labrusca* (*Stebbins*).

An irregular nut-like gall (Felt, 16-109 and 18-166).

S. speciosa Felt, 14-112.

N. H.—Franconia (*Mrs. Slosson*).

Cincticornia Felt.

C. caryae Felt, 08-380 and 16-155.

MASS.—Worcester (*Thompson*).

C. connecta Felt, 08-381 and 16-170.

CONN.—Westville, May 8, 1903 (*Dr. W. E. Britton*).

C. globosa Felt, 09-291 and 16-160.

MASS.—Magnolia, Apr. 26, 1909 (*Cora H. Clarke*).

Hemispherical gall on the under side of the leaves of black oak (Felt, 18-92).

C. majalis (Osten Sacken). Oak-vein Gall.

ME.—Mt. Desert.

MASS.—Springfield (*Stebbins*). CONN.—

C. pilulae (Walsh). Oak-pill Gall.

ME.—Mt. Desert.

MASS.—Auburndale; Worcester (*Thompson*); Springfield (*Stebbins*).

Globose irregular wrinkled leaf-galls (Felt, 16-164 and 18-90).

C. podagrae Felt, 09-291 and 16-159.MASS.—Magnolia, Oct., 1908 (*Cora H. Clarke*).

Narrow purplish galls on the under side of the veins (Felt, 18-82).

C. pustulata Felt, 09-291 and 16-156. Oak-blister Midge.MASS.—Magnolia, Apr. 26 (*Cora H. Clarke*). CONN.—

Pustulate swellings on leaves of the black oak (Felt, 18-86).

C. pustuloides (Beutenmueller), 07-390.MASS.—Worcester (*Thompson*); Springfield (*Stebbins*).

Blister-like gall on the leaves of the scarlet and black oaks (Felt, 16-171).

C. serrata Felt, 08-380 and 16-154.MASS.—Near Boston, June, 1908 (*Cora H. Clarke*).

Circular blister leaf-galls on scarlet oak (Felt, 18-86).

C. simpla Felt, 09-291 and 16-157.MASS.—Magnolia (*Cora H. Clarke*).

Oval pustulate swellings on leaf of black oak (Felt, 18-86).

C. sobrina (Felt), 07-158 and 16-168.MASS.—Worcester (*Thompson*).

Irregular pustulate leaf-swellings on black oak (Felt, 18-86).

Contarinia Rondani.**C. canadensis** Felt, 08-394. Ash-midrib Gall.

ME.—Mt. Desert.

MASS.—Auburndale; Springfield (*Stebbins*). CONN.—

Large tumid midrib gall on white ash (Felt, 18-179).

C. clematidis Felt, 08-393. Clematis-bud Gall.MASS.—Worcester (*Thompson*); Springfield (*Stebbins*).

Irregular subglobular bud-galls (Felt, 18-129 and 18-105).

C. pyrivora (Riley). Pear Midge.

CONN.—Meriden; Watertown; Mystic.

Introduced; deforms young pears (Felt, 08-393, 13-97 and 18-134).

C. setigera Lintner. Melon-tip Midge.

MASS.—Lowell, Aug.—Sept. 1888.

Curls and slightly enlarges the tips (Felt, 08-394 and 18-189).

C. spiraeina Felt, 11-547. Spiraea Cabbage Gall.MASS.—Magnolia, galls collected June 2, 1910, adults emerged Apr. 6, 1911 (*Cora H. Clarke*).

A terminal cabbage-like bud-gall (Felt, 18-133 and 18-104).

C. virginianae (Felt), 06-130. Chokecherry Midge.
 ME.—Harpswell. N. H.—Jaffrey. VT.—Bennington.
 MASS.—Stow; Worcester (*Thompson*); Springfield (*Stebbins*).
 CONN.—
 Swollen deformed fruit of the chokecherry (Felt, 18-150 and
 18-101).

Lobopteromyia Felt, 08-389.

L. venae Felt, 14-21 (*Cecidomyia? venae* Stebbins, 10-39). Thorn
 Vein-gall.
 MASS.—Springfield, June (*Stebbins*).
 Pouch-like vein-galls on leaves of *Crataegus* (Felt, 18-91 and
 18-136).

Thecodiplosis Kieffer.

T. dulichii Felt, 12-241. Sedge-fruit Midge.
 MASS.—Magnolia, adult, June 3 and 4, 1912 (*Cora H. Clarke*).
 Reared from fruit of a sedge, *Dulichium arundinaceum* (Felt,
 18-27).

T. liriodendri (Osten Sacken). Tulip-tree Spot-gall.
 MASS.—Boston (*J. G. Jack*); Worcester (*Thompson*); Springfield
 (*Stebbins*). CONN.—
 Ocellate spots on the leaves (Felt, 18-126 and 18-129).

Dicrodiplosis Kieffer.

D. antennata Felt, 12-243.
 ME.—Orono, July 10, 1912 (*Johannsen*).
 Reared from larvae preying on the false maple scale, *Phenacoc-
 cus acericola* King (see Felt, 18-156).

D. fulva Felt, 18-153.
 MASS.—Arnold Arboretum, Jamaica Plain, Boston (*Cora H.
 Clarke*). Reared from leaf-galls on white oak, May 9.

D. helena Felt, 12-245.
 MASS.—Magnolia (*Cora H. Clarke*).
 Reared from subglobular galls on under side of aspen leaves
 (*Populus tremuloides*).

D. populi Felt, 08-394.
 MASS.—From galls similar to those of *D. helena*; thus there is
 some uncertainty as to real gall-maker (Felt, 18-38).

Youngomyia Felt.

Y. umbellicola (Osten Sacken). Elder-flower Midge.
 MASS.—Rutland; Worcester (*Thompson*); Springfield (*Stebbins*).
 R. I.—Bristol. CONN.—
 The galls are swollen unopened florets (Felt, 18-188 and 18-
 149).

Aphidoletes Kieffer.

A. cummeris (Lintner). Melon-aphid Midge.
MASS.—Lowell, Aug., 1888 (*Lintner*).

Reared from aphids infesting melon tips (Felt, 18-188 and 18-138).

A. recurvata Felt, 08-397 and 18-136.
MASS.—Brookline, Aug., 1905.

Lobodiplois Felt, 08-397.

L. acerina Felt, 07-129 and 18-162.
MASS.—Brookline, Aug. 17.

L. quercina (Felt), 07-130 and 18-164.
MASS.—North Adams, Aug., 1907 (*Bryant*).

L. speciosa Felt, 13-143.
MASS.—North Adams, Aug., 1907 (*Bryant*).

L. triangularis Felt, 18-163.
MASS.—Mt. Greylock, March 7 (*Bryant*).

Coquillettomyia Felt, 08-398.

C. bryanti Felt, 13-144.
MASS.—North Adams, Aug., 1907 (*Bryant*).

C. dentata Felt, 08-398 and 18-169.
MASS.—North Adams, Aug., 1907 (*Bryant*).

Clinodiplois Kieffer.

C. caulicola (Coquillett).
N. H.—Portsmouth, July, 1893 (*Mrs. Celia Thaxter*).

Reared from the basal portion of the stems of Iceland poppies, *Papaver nudicaule* (Felt, 18-178).

C. florida Felt.
CONN.—

Karschomyia Felt, 08-398.

K. viburni (Felt), 07-130 and 18-174.
MASS.—North Adams, Aug., 1907 (*Bryant*).

Caryomyia Felt, 09-292.

C. arcuaria (Felt), 08-338 and 21-104.
MASS.—Worcester (*Thompson*).

C. caryae (Osten Sacken). Hickory-leaf Gall.
MASS.—Worcester, July (*Thompson*); Springfield (*Stebbins*).
CONN.—

A thin-walled, globose, slightly nipped gall (Felt, 18-46 and 21-97).

C. caryaecola Felt, 21-114.

MASS.—Auburndale; Worcester (*Thompson*); Springfield (*Stebbins*).

The gall is subglobular, with a long slender apical process.

C. consobrina Felt, 09-292.

MASS.—Barre, May 1. CONN.—

Small, depressed globular leaf-gall on hickory (Felt, 18-46 and 21-103).

C. holotricha (Osten Sacken). Hickory Onion-gall.

MASS.—Beverly, Apr. 29; Worcester (*Thompson*); Springfield, Oct. (*Stebbins*).

A globular fuzzy leaf-gall (Felt, 18-47 and 21-101).

C. inanis Felt, 09-292.

MASS.—Worcester (*Thompson*).

An irregular subglobose gall with false chamber at the tip (Felt, 18-47 and 21-111).

C. persicoides (Beutenmueller). Hickory Peach-gall.

MASS.—Springfield (*Stebbins*). CONN.—

Globular hairy galls, usually clustered along the midrib (Felt, 18-46 and 21-113).

C. sanguinolenta (Osten Sacken). Hickory Cone-gall.

MASS.—Worcester, July (*Thompson*); Springfield (*Stebbins*).
CONN.—

Narrowly conical leaf-galls (Felt, 18-43 and 21-105).

C. thompsoni (Felt), 08-388 and 21-106.

MASS.—Worcester, July (*Thompson*). CONN.—

A melon-shaped long-haired gall on the leaves of hickory (Felt, 18-47).

C. tubicola (Osten Sacken). Hickory Tube-gall.

MASS.—Auburndale; Worcester, July (*Thompson*); Springfield (*Stebbins*).

Cylindrical tube-like galls, 4-5 mm. long (Felt, 18-42 and 21-108).

Monarthropalpus Rübssaamen.**M. buxi** (Laboulbene). Box-leaf Midge.

R. I.—Newport, May 29; Kingston.

An irregular oval swelling on the leaves of box, *Buxus sempervirens* (Felt, 21-236).

Hormomyia Loew.**H. cincta** Felt, 21-216.

N. H.—Hampton, May 21, 1906 (*Shaw*).

H. pudica Felt, 13-146.

N. H.—Hampton, June 13, 1907 (*Shaw*).

Trishormomyia Kieffer.

T. canadensis (Felt), 08-388 and 21-288. June-berry Lipped Gall.

ME.—Bar Harbor, June.

MASS.—Magnolia, Apr. (*Clarke*); Worcester (*Thompson*); Springfield (*Stebbins*).

A truncated red-lipped gall on the leaves of the shad-bush, *Amelanchier canadensis* (Felt, 18-134).

T. clarkei (Felt), 08-388 and 21-230.

MASS.—Magnolia, Apr. 7 (*Cora H. Clarke*); Worcester (*Thompson*).

A globular terminal bud-gall on meadow-sweet, *Spiraea latifolia* (Felt, 18-133).

T. crataegifolia (Felt), 07-160 and 21-224. Thorn Cockscomb Gall.

MASS.—Worcester (*Thompson*).

A cockscomb leaf-gall on the white thorn, *Crataegus crusgallae* (Felt, 18-136).

T. johnsoni (Felt), 07-18 and 21-224.

MASS.—Auburndale, May 28, 1906.

T. modesta (Felt), 13-145 and 21-229.

MASS.—Auburndale, May 22. CONN.—New Haven, June 30 (*Walden*).

T. proteana Felt, 14-113 and 21-228.

MASS.—Auburndale, May 28.

T. shawi (Felt), 13-145 and 21-223.

N. H.—Hampton, Aug. 20, 1909 (*Shaw*).

T. verruca (Walsh). Willow Lipped Gall.

MASS.—Magnolia, May 8 (*Clarke*); Worcester (*Thompson*); Springfield (*Stebbins*).

A subconical, truncate, lipped gall on willow leaves (Felt, 18-33 and 21-230).

Hyperdiplosis Kieffer.

H. bryanti Felt, 13-146 and 21-125.

MASS.—North Adams, Aug., 1907 (*Bryant*).

Lestodiplosis Kieffer.

L. crataegifolia Felt, 08-408.

MASS.—Worcester, July (*Thompson*).

Reared from a rather spiny gall on leaf of *Crataegus* (Felt, 21-134).

Obolodiplosis Felt, 08-410.

O. robiniae (Haldeman). Locust-leaf Midge.

ME.—Salisbury Cove, Mt. Desert, July 14.

MASS.—Auburndale, Sept. 3-20; Manchester, Aug. 25 (*Clarke*).

R. I.—Buttonwoods, June 20. CONN.—New Haven, June 30 (*Walden*).

Forming rolled leaf-margins on locust, *Robinia pseudo-acacia* (Felt, 18-155 and 21-152).

Parallelodiplosis Rübssaamen.

P. caryae (Felt), 07-141 and 21-168.

MASS.—Worcester (*Thompson*).

Reared from globular long-haired hickory leaf-gall resembling *Caryomyia persicoides*, probably inquiline (Felt, 18-47).

P. cattleyae (Molliard). Orchid Root-gall.

MASS.—South Natick, May 20, 1890 (*A. P. Morse*).

Reared from the roots of *Cattleya gigas* (Felt, 18-29 and 18-172).

P. cinctipes Felt, 14-113.

MASS.—Framingham, May, 1908 (*C. A. Frost*).

Reared from dead twigs of poison ivy, *Rhus vernix* (Felt, 21-172).

P. clarkeae Felt, 11-553.

MASS.—*Magnolia*, Sept. 19, 1910 (*Cora H. Clarke*).

A narrow apical bud-gall on *Spiraea salicifolia* (Felt, 18-133 and 21-175).

P. spiraeae (Felt), 09-293. Spiraea Leaf-roll.

MASS.—*Magnolia*, June 26, 1909 (*Cora H. Clarke*).

The gall is an irregular marginal roll of half-grown leaves of *Spiraea salicifolia* (Felt, 18-134 and 21-166).

Retinodiplosis Kieffer.

R. inopis (Osten Sacken).

MASS.—Obscure subcortical swellings on smaller branches of scrub pine (Felt, 18-15 and 21-159).

R. resinicola Osten Sacken. The Pitch Midge.

MASS.—Woods Hole. CONN.—Norwalk, June 9.

Reared from extruded resin masses on *Pinus rigida* (Felt, 18-16 and 21-156).

Mycodiplosis Rübssaamen.

M. cerasifolia Felt, 07-21. Leaf-folding Cherry Gall.

MASS.—Worcester (*Thompson*).

Thickened folded leaves of the chokecherry (Felt, 08-401 and 18-185).

M. holotricha Felt, 08-401 and 18-188.

MASS.—Worcester (*Thompson*).

Probably inquiline in the galls of *Caryomyia holotricha* (Felt, 18-47).

M. populifolia Felt, 08-400.

ME.—Bar Harbor, Aug. N. H.—Aug. (*Thompson*).

Bullet-like swellings at the base of aspen-poplar leaves (Felt, 18-186).

Cecidomyia Meigen, 1803 (*Itonida* Meigen, 1800).

C. canadensis (Felt), 11-558.

MASS.—Magnolia, Aug. 5, 1908 (*Cora H. Clarke*).

Oval woolly leaf-galls on lateral veins of shad-bush, *Amelanchier canadensis* (Felt, 21-182).

C. foliora Russell and Hooker, 08-350 (?*C. erubescens* Osten Sacken, gall only).

MASS.—Amherst, marginal rolls on the leaves of black oak; Springfield (*Stebbins*); Worcester (*Thompson*). CONN.—

C. reflexa (Felt), 13-146.

N. H.—Hampton (*Shaw*).

C. spiraeina (Felt), 11-551 (*C. luppa* Stebbins, 10-35, gall only).

MASS.—Magnolia (*Cora H. Clarke*); Springfield (*Stebbins*).

Enlarged terminal buds on *Spiraea salicifolia* (Felt, 21-189).

C. triticicola Kieffer, 13-220 (*C. tritici* Felt, 12-289, not Kirby).

The Wheat Midge.

Packard records this species from all of the New England States and it may have been common when wheat was more generally cultivated.

DIPTEROCECIDIA.

The following names are based on the galls only, the midge which causes the gall being unknown. They are provisionally placed under the generic name of *Cecidomyia* until the gall-maker is reared and described. The specific names also are subject to change, unless the person who describes the midge chooses to adopt the same name. The form of the galls is, as a rule, so characteristic of the species that it seems detrimental to a study of the family to omit them.

Cecidomyia.

C. balsamicola Lintner. Balsam Gall.

ME.—Moosehead Lake, July. N. H.—(*Thompson*).

Subglobular basal swellings of the leaves of the fir balsam (Felt, 18-19).

C. bedeguar Welsh. Tufted Thorn Gall.

MASS.—Springfield (*Stebbins*).

Subglobose vein-gall, opening surrounded by dense tufts on leaves of *Crataegus*.

C. bifolia Stebbins, 10-49.MASS.—*Springfield* (Stebbins).

A small gall binding together two leaves of the goldenrod.

C. castaneae Stebbins, 10-17.MASS.—*Springfield*.An ellipsoidal gall found singly or in small groups near the base of the leaves of chestnut, *Castanea dentata*.**C. celastri** Stebbins, 10-41. Bittersweet Root-gall.MASS.—*Springfield* (Stebbins).Irregular enlargement of roots of bittersweet, *Celastrus scandens*.**C. citricola** Osten Sacken.MASS.—*Worcester*.

Infests the base of the leaves of linden.

C. citrina Osten Sacken.MASS.—*Springfield*, July and Aug. (Stebbins).

Irregular fleshy galls on the terminal buds of linden.

C. crotalariae Stebbins, 10-40. Rattle-box Stem-gall.MASS.—*Springfield*, Sept. (Stebbins).A fusiform swelling of the winged stem of the rattle-box, *Crotalaria sagittalis*.**C. cynipsea** Osten Sacken.MASS.—*Worcester*.

Subglobose woody swellings on hickory.

C. deserta Patton.

CONN.—

C. impatientis Osten Sacken. Touch-me-not Gall.MASS.—*Auburndale*; *Worcester* (Thompson); *Springfield* (Stebbins).Globose juicy flower-bud galls on jewel-weed, *Impatiens biflora*.**C. irregularis** Stebbins, 10-9.MASS.—*Springfield* (Stebbins).Irregular blister-galls between the leaf-veins of the large-toothed aspen, *Populus grandidentata*.**C. muscosa** Stebbins, 10-35.MASS.—*Springfield*, Aug. (Stebbins).Mossy leaf-gall of blackberry, *Rubus nigrobaccus*.**C. niveipila** Osten Sacken. Woolly Fold-gall.

ME.—

MASS.—*Worcester* (Thompson); *Springfield* (Stebbins).

A large midrib fold with thick white pubescence on oaks.

- C. ocellaris** Osten Sacken. Maple Leaf-spot.
 ME.—Mt. Desert. N. H.—Jaffrey, June. VT.—Bennington,
 June.
 MASS.—Auburndale; Worcester; Springfield. R. I.—Bristol.
 CONN.—
 Ocellate, yellow, red-margined blisters on the red maple.
- C. pinirigidae** Packard (*C. resinicola* Aldrich, not Osten Sacken;
Displosis rigidae Stebbins, 10-7). Pine-needle Gall.
 MASS.—Springfield (*Stebbins*). R. I.—
 Aborted needle-clusters, base globose, on *Pinus rigida*.
- C. potentillaecaulis** Stebbins, 10-37.
 MASS.—Springfield, Sept. (*Stebbins*).
 An enlarged internodal stem-gall on *Potentilla canadensis*.
- C. pudibunda** Osten Sacken.
 N. H.—Hanover, July.
 MASS.—Worcester, June (*Thompson*); Springfield (*Stebbins*).
 Folds between the larger veins of the hornbeam, *Carpinus*
caroliniana.
- C. racemi** Stebbins, 10-39.
 MASS.—Springfield, July (*Stebbins*).
 An elliptical swelling of the axis of the raceme of chokecherry.
- C. reniformis** Stebbins, 10-36.
 MASS.—Springfield (*Stebbins*).
 A reniform gall at the base of the petiole of the wild strawberry.
- C. serotinae** Osten Sacken. Wild-cherry Bud-gall.
 MASS.—Springfield (*Stebbins*); Worcester. R. I.—Providence
 (*Thompson*).
 Club-shaped enlargement of terminal bud of *Prunus serotina*.
- C. squamulicola** Stebbins, 10-16. Hazel-catkin Gall.
 MASS.—Springfield (*Stebbins*).
 A gall which deforms the sterile catkin, causing it to be twice
 or thrice its normal size.
- C. tuba** Stebbins, 10-46.
 MASS.—Springfield (*Stebbins*).
 A hemispherical gall on the leaves of *Cornus amomium*.
- C. verrucicola** Osten Sacken. Basswood Wart-gall.
 MASS.—Cohasset; Worcester (*Thompson*); Springfield (*Stebbins*).
 CONN.—
 Rounded wart-like gall on the leaves of the linden, *Tilia*
americana.

C. viticola Osten Sacken. Grape Tube-gall.MASS.—Worcester, Aug. (*Thompson*).

Elongated conical reddish leaf-galls on grape (Felt, 18-168).

Note.—The so-called "oak spangle" referred to in literature as *Cecidomyia poculum* O. S., although Osten Sacken suspected they were due to a cynipid, are really produced by a cynipid wasp, described by Weld as *Xystoteras poculum* (Proc. U. S. Nat. Mus., vol. 61, p. 7, 1922).

MYCETOPHILIDAE. The Fungus Gnats.

Bolitophila Meigen.**B. disjuncta** Loew.

ME.—4, 8. N. H.—11. VT.—21. June 5-July 24.

B. cinerea Meigen.

ME.—1, 4, 6, 7. N. H.—11, 14, 15. June 10-Oct. 30.

MASS.—23. May 26.

B. hybrida Meigen.

ME.—1, 4, 8. N. H.—11, 13, 14. VT.—21. June 4-Sept. 10.

MASS.—23. June 13-Aug. 7.

B. montana Coquillett.

ME.—Mt. Desert, June 7. N. H.—Mt. Washington.

Hesperinus Walker.**H. brevifrons** Walker.

N. H.—Mt. Washington, 4000 ft., July 6.

MASS.—Mt. Greylock, June 15.

Palaeoplatyura Meunier.**P. johnsoni** Johannsen, 09-226.

VT.—Burlington, June 24.

MASS.—Great Barrington, June 15.

Ditomyia Winnertz.**D. euzona** Loew.

N. H.—Franconia.

Symmerus Walker.**S. tristis** (Loew).

ME.—Mt. Desert, Aug. 10.

MASS.—.

S. annulatus (Meigen).

ME.—4. N. H.—11. VT.—18, 20, 22. June 26-July 26.

MASS.—23. July 24-Aug. 5.

S. lauta (Loew).

ME.—Capens, July 15; Eastport, July 16. N. H.—Mt. Washington, 2500 ft., July 24-28.

Diadocidia Ruthe.**D. ferruginosa** (Meigen).

N. H.—White Mts.

MASS.—Auburndale, July 10, Aug. 16; Chester, Aug. 7.

D. borealis Coquillett.

N. H.—Bretton Woods, June 24.

Asindulum Winnertz.**A. coxale** Loew.ME.—Mt. Desert, Aug. 10. N. H.—Hampton, July 18 (*Shaw*).**A. flavum** Winnertz.

N. H.—.

A. montanum Roeder.

ME.—3, 8. N. H.—11. VT.—19. Aug. 2-25.

MASS.—23, 25. July 31-Aug. 12.

Ceroplatus Bosc.**C. clausus** Coquillett.

ME.—Mt. Desert, Sept. 13. N. H.—Franconia.

R. I.—Kingston, Aug. 21.

C. militaris Johannsen, 09-237.ME.—Mt. Desert, Sept. 13. N. H.—Intervale, Aug. 23 (*Allen*);
Hampton, June 30 (*Shaw*).*Cerotelion* Rondani.**C. bellulus** (Williston).

MASS.—Brookline, July 21. R. I.—Buttonwoods, July 22.

Apemon Johannsen, 09-20.**A. maudae** (Coquillett).N. H.—Franconia (*Mrs. Slosson*); Bretton Woods, June 28; Mt.
Washington, 3000 ft., July 28.*Platyura* Meigen.**P. inops** Coquillett.

VT.—Brattleboro, July 15.

P. elegans Coquillett.

N. H.—12, 15. July 6-Aug. 11.

MASS.—24, 27, 28, 29. July 14-Aug. 16.

P. mimula Johannsen, 09-255.N. H.—Hampton, June 4 (*Shaw*).**P. melasoma** Loew.N. H.—Bretton Woods, June 29; Hampton, July 14 (*Shaw*).

MASS.—Auburndale, June 26.

P. fascipennis Say.

N. H.—Franconia.

P. fascipennis var. **sagax** Johannsen, 09-258.

ME.—Capens, July 11; Eastport, July 16.

P. mendosa Loew.

ME.—4, 7, 8. N. H.—11. VT.—12. June 26–Aug. 10.

P. mendica Loew.

ME.—4. N. H.—15. VT.—12. July 7–Sept. 30.

MASS.—27. July 16.

P. subterminalis Say.

ME.—Capens, July 19; Mt. Katahdin, July 16 (*Blake*).

MASS.—North Adams, June 18.

P. diluta Loew.

ME.—7. N. H.—11. VT.—12, 22. July 7–15.

MASS.—27. June 28.

P. genualis Johannsen, 09-262.

ME.—4, 7, 8. N. H.—11, 15. VT.—16, 20. June 23–July 26.

MASS.—27. June 7–15.

Macrocera Meigen.

M. inconcinna Loew.

ME.—4, 7, 8. N. H.—11. VT.—16, 17. June 21–July 26.

MASS.—23, 27. CONN.—35. May 27–Sept. 4.

M. nebulosa Coquillett.

ME.—7, 8. N. H.—11. July 12–25.

MASS.—23, 29. R. I.—33. June 22–Aug. 5.

M. hirsuta Loew.

ME.—4, 7, 8. N. H.—11. June 24–July 26.

MASS.—23, 24, 27. CONN.—35. June 17–Sept. 4.

M. formosa Loew.

ME.—4, 8. VT.—20. July 11–21.

MASS.—23, 27. CONN.—35. June 17–Sept. 21.

M. clara Loew.

ME.—8. N. H.—11, 13. VT.—16. June 24–Sept. 10.

MASS.—23, 25, 27. R. I.—33. CONN.—35. June 17–Sept. 3.

M. nobilis Johnson, 22-21,

N. H.—*Mt. Washington*, 2000 ft., July 24; *Mt. Monadnock*,
June 22.

MASS.—Chester, Aug. 8, 1922 (*Bryant*).

Monoclona Mik.

M. elegantula Johannsen, 10-128.

ME.—*Mt. Desert*, Aug. 10.

M. furcata Johannsen, 10-187.

ME.—*Orono*, May 26, 1910 (*Johannsen*).

Eudicrana Loew.**E. obumbrata** Loew.

ME.—4, 7, 8. N. H.—11. June 14–July 17.

MASS.—23. June 24.

Tetragoneura Winnertz.**T. bicolor** Coquillett.N. H.—Franconia (*Mrs. Slosson*).

MASS.—Blue Hill, Milton, June 4; North Adams, June 20.

Sciophila Meigen.**S. quadratula** (Loew).

ME.—. N. H.—Franconia.

S. glabana Johannsen, 10–136.

ME.—Mt. Desert, July 20. VT.—Burlington, June 22.

R. I.—Buttonwoods, June 20.

S. glabana var. **germana** Johannsen, 10–137.

MASS.—Bashbish Falls, June 28.

S. glabana var. **socia** Johannsen, 10–137.

VT.—Burlington, June 28.

MASS.—Boston.

S. incallida Johannsen, 10–139.

N. H.—Bretton Woods, June 28.

MASS.—Arlington, May 26. CONN.—New Haven, June 26.

S. hebes Johannsen.R. I.—Kingston, May (*Barlow*).**S. pallipes** Say.ME.—Orono, Sept. 9; Mt. Desert, Aug. 11 (*Dr. C. S. Minot*).

N. H.—Mt. Washington.

S. fasciata Say.

VT.—St. Johnsbury, June 28.

Paratinia Mik.**P. recurva** Johannsen, 10–144.

VT.—St. Albans, June 21.

Polylepta Winnertz.**P. fragilis** Loew.MASS.—“*Massachusetts*” (*Loew*).**P. leptogaster** Winnertz.

N. H.—White Mts.

P. obediens Johannsen.N. H.—Hampton, May 16 (*Shaw*); Mt. Washington, 4000 ft.,
July 4–6.

MASS.—Bedford; Chester, May 27.

?**P. grisea** (Walker).

N. H.—White Mts.

FAUNA OF NEW ENGLAND.

Empalia Winnertz.

E. tibialis (Coquillett).
N. H.—*White Mts.*

Dziedzickia Johannsen.

D. n.sp. (Johannsen), 10-152.
N. H.—

Diomonus Walker.

D. bifasciatus (Say).
ME.—Bridgton, July; Enfield, July 8 (*Hitchings*). N. H.—
White Mts. VT.—Killington Peak, Aug. 26.
MASS.—Chester, Aug. 5.

D. magnificus Johannsen, 10-155.
N. H.—Mt. Washington, 2000 ft., July 28.
MASS.—Mt. Greylock, Aug. 8 (*Bryant*); Washington, Aug. 8;
October Mt., July 24.

D. subcaeruleus (Coquillett).
N. H.—Franconia (*Mrs. Slosson*). VT.—Bolton Mt., Sept. 10
(*Bryant*).

D. pulcher (Johannsen), 10-156.
ME.—Enfield, July 8 (*Hitchings*). N. H.—Hampton, July 28,
1903 (*Shaw*).
MASS.—Mt. Greylock, Aug. 8, 1907 (*Bryant*). R. I.—Kingston,
July 24 (*Barlow*).

Neoempheria Osten Sacken.

N. macularis Johannsen, 10-159.
ME.—Capens, July 15; Princeton, July 12; Machias, July 22.
VT.—Brattleboro, July 15.

N. didyma (Loew).
ME.—4, 7. N. H.—11, 13. VT.— July 3-26.
MASS.—23, 25. June 5.

N. impatiens Johannsen, 10-161.
MASS.—23, 24, 27. R. I.—33. June 22-Sept. 4.

N. balioptera Loew.
VT.—18. June 28.
MASS.—27. R. I.—33. CONN.—35. May 30-June 12.

N. nepticula Loew.
MASS.—Auburndale, Aug. 18; Blue Hill, July 16; Plymouth,
July 28; Manomet, July 27.

N. indulgens Johannsen, 10-162.
VT.—St. Albans, June 20; St. Johnsbury, June 28.
MASS.—Chester, Aug. 5.

N. illustris Johannsen, 10-163.

MASS.—Auburndale, Aug. 13; Plymouth, July 28; Blue Hill, July 16; Southbridge, Sept. 3. R. I.—Buttonwoods, June 21; Kingston, July 26.

Mycomya Rondani.

M. littoralis (Say).

ME.—8. N. H.—11. VT.—21. July 9-13.

MASS.—23, 27. CONN.—. May 28-July 16.

M. sequax Johannsen, 10-172.

ME.—Princeton, July 12; Mt. Desert, June 13.

M. obliqua (Say).

ME.—8. N. H.—11. July 22-30.

MASS.—27, 28, 29, 31, 32. R. I.—33. June 28-Aug. 31.

M. tantilla (Loew).

ME.—Machias, July 26; Mt. Desert, July 30 (*McAtee*).

M. imitans Johannsen, 10-177.

ME.—Mt. Desert, July 15.

MASS.—Washington, Aug. 8. R. I.—Kingston (*Barlow*).

M. maxima Johannsen, 10-179.

ME.—4, 6, 7, 8. N. H.—11. VT.—16, 18. June 21-July 21.

MASS.—23. June 27.

Type locality, Nain, Labrador, not "Maine."

M. biseriata (Loew).

ME.—Capens, July 14. VT.—St. Albans, June 21.

M. hirticollis (Say).

N. H.—White Mts.

M. flavohirta (Coquillett).

N. H.—Franconia (*Mrs. Slosson*).

M. mendax Johannsen (?).

N. H.—Bretton Woods, June 24. VT.—St. Johnsbury, June 27.

?**M. onusta** (Loew).

ME.—Mt. Desert, June 30 (*Dr. Minot*); Kineo, Aug. 17 (*Alexander*).

MASS.—October Mt., July 24.

M. incompta Johannsen, 10-186.

ME.—Capens, July 21.

Gnoriste Meigen.

G. megarrhina Osten Sacken.

ME.—7. N. H.—11. VT.—21. June 5-July 14.

MASS.—23. May 28-June 20.

G. macra Johannsen, 11-257.

N. H.—Glen House, June 11.

Acnemia Winnertz.*A. flaveola* Coquillett.

MASS.—Mt. Tom, July 14; Cohasset, July 5, 1920 (*Bryant*).

R. I.—

Azana Walker.

A. sp. Johannsen, 11-260.

ME.—

Rondaniella Johannsen, 09-66.*R. abbreviata* (Loew).

ME.—6. N. H.—11, 13. July 24-Sept. 10.

MASS.—23, 27, 32. May 25-Oct. 20.

R. sororcula (Loew).

ME.—1. N. H.—11, 13. VT.—18. June 26-Oct. 10.

MASS.—23, 27, 32. June 18-Sept. 12.

Neuratelia Rondani.*N. scitula* Johannsen, 11-263.

ME.—Mt. Desert, June 15; Mt. Katahdin, Aug. 18 (*Blake*).

N. H.—Bretton Woods, June 29; Glen House, July 3. VT.—
Brattleboro, July 15.

R. I.—Buttonwoods, June 21.

N. desidiosa Johannsen, 11-263.

MASS.—North Adams, June.

Leptomorphus Carter.*L. hyalinus* Coquillett.

N. H.—White Mts.

Allocotocera Mik.*A. parvula* (Coquillett).

ME.—Mt. Desert, Aug. 17.

MASS.—Chester, Aug. 17.

Boletina Staeger.*B. obscura* Johannsen, 11-270.

N. H.—Hampton, Apr., May (*Shaw*).

MASS.—Brookline, May 24; New Bedford; Swansea, Oct. 10;
Dighton, Oct. 17 (*Easton*).

B. cincta Johannsen, 11-270.

N. H.—Hampton, July 17 (*Shaw*). VT.—Mt. Ascutney, July 11.

B. notescens Johannsen, 11-272.

ME.—Princeton, July 12. N. H.—Bretton Woods, June 26.

MASS.—Mt. Greylock, June 15; Chester, May 28.

B. groenlandica Staeger.

N. H.—Mt. Washington, 2500 to 4000 ft., June 13-July 8; Glen
House, June 11.

B. tricincta Loew.

ME.—4, 7, 8. N. H.—11, 15. VT.—21. June 6–Aug. 17.
 MASS.—23, 24, 27, 29, 31. June 28–Aug. 16.

B. sciarina Staeger.

ME.—. N. H.—Bretton Woods, June 24.

B. hopkinsii Coquillett?

N. H.—Hampton (*Shaw*).

Leia Meigen.

L. melaena Loew.

ME.—Mt. Desert, Aug. 18. N. H.—Center Harbor, Sept. 10.
 MASS.—Chester, Aug. 5; Washington, Aug. 8. R. I.—Kingston
 (*Barlow*).

L. ventralis Say.

ME.—3, 8. N. H.—11. VT.—21. July–Aug. 13.
 MASS.—23, 27. July 24–Sept. 4.

L. winthemii Lehmann.

ME.—4, 6, 8. N. H.—11, 15. VT.—18. May 30–Aug. 27.
 MASS.—24. June 28.

L. oblectabilis Loew.

ME.—Mt. Desert, July 24–Aug. 11. N. H.—Hampton (*Shaw*).

L. opima (Loew).

ME.—8, 9. N. H.—11, 13, 15. VT.—18, 20. June 28–Sept. 10.
 MASS.—24, 27, 29. R. I.—33. CONN.—35. June 22–Sept. 4.

L. sublunata (Loew).

ME.—8. N. H.—11. July 21.
 MASS.—24. R. I.—33. CONN.—35. June 12–July 14.

L. bivittata Say.

N. H.—White Mts.; Hampton, June 21 (*Shaw*).
 CONN.—New Haven, July 4; Rowayton, Aug. 25.

Pthinia Winnertz.

P. tanypus Loew.

N. H.—Franconia. VT.—Montpelier, June 24; Killington Peak,
 Aug. 25.
 MASS.—Chester, Aug. 3.

Systemna Winnertz.

S. rejecta Johannsen, 11–296.

MASS.—Blue Hill, Milton, July 16.

S. longicornis (Coquillett).

N. H.—White Mts.
 MASS.—Brookline, Aug.

S. vittata (Coquillett).

ME.—Machias, July 25. N. H.—Franconia (*Mrs. Slosson*).

S. vittata var. *fasciata* Johannsen, 11-297.

ME.—Eastport, July 15. N. H.—Mt. Washington, 3000 ft.,
July 28.

S. separata Johannsen, 11-297.

VT.—St. Johnsbury, June.

S. polyzona Loew.

ME.—Mt. Desert, July 21.

R. I.—Buttonwoods, June 21: Apponaug, June 22.

Docosia Winnertz.

D. dichroa Loew.

ME.—Kittery, June 4. VT.—Mt. Equinox, June 5.

MASS.—Ellis Station, May 11; Milton, May 17. R. I.—Kings-
ton, May 23.

D. obscura Coquillett.

N. H.—White Mts.

Trichonta Winnertz.

T. perspicua Van der Wulp.

ME.—4, 8. VT.—17, 18. June 11-July 21.

T. cincta Johannsen, 11-303.

ME.—Eastport.

T. bellula Johannsen, 11-304.

N. H.—Bretton Woods, June 28. VT.—Mt. Ascutney, July.

T. diffissa Johannsen, 11-305.

MASS.—Brookline, Aug.

Cordyla Meigen.

C. volucris Johannsen, 09-101.

ME.—Eastport, July 15.

Brachypeza Winnertz.

B. bisignata var. *divergens* Johannsen, 11-309.

ME.—4, 6, 8. N. H.—12. VT.—18. June 11-Nov. 2.

MASS.—23. Aug. 7.

Rhymosia Winnertz.

R. filipes Loew.

N. H.—“White Mts.”

CONN.—.

R. akeleyi Johannsen, 11-312.

N. H.—Cornish, July 13.

R. captiosa Johannsen, 11-313.

N. H.—11, 12. VT.—22. June 25-July 15.

MASS.—23. July 18-Aug. 7.

Alloidia Winnertz.

A. crassicornis Stannius.

ME.—. N. H.—11, 14. VT.—16, 20. June 14–July 25.

MASS.—23. Aug. 9.

A. bulbosa Johannsen, 11–316.

N. H.—(*Weed*).

A. actuaria Johannsen, 11–317.

MASS.—Woods Hole.

A. elata Johannsen, 11–318.

ME.—8. N. H.—15. VT.—18. Apr. 22–July 25.

MASS.—27, 32. May 1–July 16.

Phronia Winnertz.

P. insulsa Johannsen, 12–60.

R. I.—.

Macrobrachius Dziedzicki.

M. producta (Johannsen), 13–228.

MASS.—Brookline, Aug. 23, 1904.

Telmaphilus Becker.

T. nebulosa Johannsen, 12–64.

N. H.—Hampton, Apr. 8 (*Shaw*).

Exechia Winnertz.

E. perspicua Johannsen, 12–67.

ME.—Orono, Oct.

E. cincinnata Johannsen, 12–69.

ME.—Orono, Oct., reared from *Boletus granulatus*. N. H.—Hampton, Oct. 22. VT.—Burlington, June 24.

MASS.—Auburndale, Sept. 12; Boston, Apr. 30; Cohasset, Dec. 29.

E. nugatoria Johannsen, 12–70.

R. I.—Kingston (*Barlow*).

E. nativa Johannsen, 12–70.

ME.—Orono, Oct. VT.—Montpelier, June 24.

E. bellula Johannsen, 12–71.

ME.—Orono, Nov. 3.

E. captiva Johannsen, 12–72.

N. H.—(*Weed*). VT.—Burlington, June 22.

MASS.—Boston.

E. absoluta Johannsen, 12–72.

CONN.—New Haven, Oct. 21 (*Viereck*).

E. capillata Johannsen, 12–73.

R. I.—Kingston, May (*Barlow*).

E. attrita Johannsen, 12-73.

ME.—Orono, Nov. N. H.—Hampton, Nov. 11 (*Shaw*).
R. I.—

E. repanda Johannsen, 12-73.

MASS.—Boston, Sept. 28.

E. absurda Johannsen, 12-74.

ME.—Orono, Nov.

E. nexa Johannsen, 12-68.

MASS.—Brookline.

Dynatosoma Winnertz.

D. nigrina Johannsen, 12-75.

N. H.—Mt. Washington, 2500 to 5000 ft., July 4-28.

MASS.—Chester, July 24; Bashbish Falls, June 28; Sharon, Aug. 3.

D. fulvida Coquillett.

ME.—Capens, July 19; Machias, July 26. N. H.—Franconia.

MASS.—Sharon, Aug. 3.

D. thoracica Coquillett.

N. H.—Mt. Washington; Franconia (*Mrs. Slosson*).

D. placida Johannsen, 12-76.

N. H.—Bretton Woods, June 25.

Epicrypta Winnertz.

E. pulicoria Loew.

N. H.—Hampton, May 7.

MASS.—Fall River, Nov. 1; Mt. Tom, July 14.

E. punctum (Stannius).

MASS.—Auburndale.

E. trinotata (Staeger).

MASS.—North Adams, June 20.

Mycothera Winnertz.

M. paula Loew.

N. H.—Mt. Monadnock, June 26.

MASS.—Chester, Aug. 7.

M. impellans Johannsen, 12-83.

ME.—8. N. H.—11. VT.—18. July 27-Aug. 16.

MASS.—23, 25. June 18-Sept. 3.

Mycetophila Meigen.

M. exstincta Loew.

MASS.—North Adams, June; Auburndale, Aug.

M. punctata Meigen.

ME.—8. N. H.—15. VT.—18, 22. Apr. 9-July 20.

MASS.—23, 27, 28, 32. R. I.—33. March 27-July 28.

M. mutica Loew.

ME.—8. N. H.—11. VT.—16, 21. June 5–July 30.
MASS.—23, 27. May 28–Sept. 19.

M. lenis Johannsen, 12–94.

ME.—Eastport, July.

M. bipunctata Loew.

ME.—Orono, Nov. N. H.—White Mts.

M. inculta Loew.

R. I.—Kingston (*Barlow*).

M. scalaris Loew.

ME.—7, 8. N. H.—11, 12. VT.—16, 17, 18. June 15–July 6.
MASS.—27, 28, 29. CONN.—35. July 27–Sept. 10.

M. pinguis Loew.

ME.—. N. H.—White Mts.

M. foecunda Johannsen, 12–99.

ME.—Orono.

M. imitator Johannsen, 12–99.

ME.—Orono, Nov., March 31.

M. perlouga Johannsen, 12–100.

ME.—8. N. H.—11, 14. June 14–Aug. 17.
MASS.—23. Aug. 7.

M. fastosa Johannsen, 12–91.

ME.—6, 7, 8. N. H.—11, 15. VT.—16. Apr. 9–July 21.
MASS.—25, 27. CONN.—35. Mar. 14–Sept. 4.

M. lenta Johannsen, 12–102.

ME.—Orono, Oct., bred from mushrooms; Capens, July 19.

M. anomala Johannsen, 12–96.

MASS.—Chester, May 28; Williamsburg, Aug. 7.

M. sigmoides Loew.

N. H.—White Mts.; Hampton, Apr. 8 (*Shaw*).

M. exusta Johannsen, 12–104.

MASS.—.

M. edentula Johannsen, 12–105.

N. H.—Hampton, Oct. (*Shaw*).

M. trichonota Loew.

ME.—8. N. H.—11. VT.—16, 21. June 5–July 21.
MASS.—23, 27. Aug. 3–7.

M. monochaeta Loew.

CONN.—.

M. bifasciata Walker.

N. H.—Mt. Washington (*Mrs. Slosson*).

M. biscoidae Say.

VT.—Mt. Ascutney, July 11.

MASS.—Auburndale, Aug. 28; Chester, Aug. 7; Woods Hole,
July 24. CONN.—Yalesville, Oct. 19.**M. ichneumon** Say.N. H.—White Mts. (*Morrison*).MASS.—Chester, May 26; Mt. Greylock, June 15; North Adams,
June 18.**M. obscura** Walker.ME.—Waterville. N. H.—Mt. Washington (*Mrs. Slosson*);
Hampton, Mar. 4, Nov. 4 (*Shaw*).MASS.—Cohasset, Dec. 29 (*Bryant*).**M. socia** Johannsen.ME.—Mt. Desert, July 30 (*McAtee*).

Pnyxia Johannsen, 12-114.

P. scabiei (Hopkins) (*Epidapus scabiei* Hopkins).R. I.—Kingston, 1903 (*Barlow*). Larva causes a form of scab on
potatoes (*Hopkins*).

Sceptonia Winnertz.

S. nigra (Meigen).ME.—Orono, Nov. (*Johannsen*); Mt. Desert, July 30 (*McAtee*).

MASS.—Brookline, June 28.

Zygomia Winnertz.

Z. ornata Loew.

MASS.—Southbridge, Aug. 27.

Z. varia Staeger.

ME.—Capens, July 19.

SCIARIDAE.

Eugnoriste Coquillett.

E. occidentalis Coquillett.

N. H.—Intervale, Aug. 23.

Trichosia Winnertz.

T. sp.N. H.—Franconia (*Mrs. Slosson*).

Zygoneura Meigen.

Z. flavicoxa Johannsen, 12-116.

ME.—Mt. Desert.

MASS.—Brookline, Aug. 23.

Sciara Meigen.

S. ochrolabis Loew.

N. H.—11, 12, 15. VT.—16. June 24-Sept. 27.

MASS.—23, 24, 27, 29. R. I.—33. CONN.—35. June 9-Aug.
25.

S. vicina Johannsen, 12-124.

ME.—Machias, July 19.

S. habilis Johannsen, 12-126.

ME.—4, 8. VT.—16, 21. June 4-July 14.

MASS.—27, 29. May 23-July 4.

S. sciophila Loew.

ME.—8. N. H.—15. May 23-Aug. 16.

MASS.—26, 27, 32. R. I.—33. CONN.—35. July 6-Sept. 13.

S. psittacus Pettey, 18-330.

ME.—Orono?, Aug. 21 (*C. P. Alexander*).

Neosciara Pettey, 18-320.

N. coprophila (Lintner).

ME.—4, 6. N. H.—15. May 4-Aug. 13.

MASS.—27, 29. May 10-Sept. 7.

N. abbreviata Walker.

N. H.—White Mts.

N. actuosa (Johannsen), 12-134.

CONN.—New Haven, May 10; Yalesville, Oct. 19.

N. atrata (Say).

N. H.—Franconia (*Mrs. Slosson*).

N. ocellaris (Comstock).

MASS.—Wellesley, Feb., from flower pots (*Morse*).

N. dux Johannsen, 12-127.

R. I.—Buttonwoods, June 21.

N. ericia Pettey, 18-337.

MASS.—Brookline.

N. exigua (Say).

N. H.—Franconia.

N. falcata Pettey, 18-331.

MASS.—Auburndale, Apr.

N. fuliginosa Fitch.

N. H.—Franconia.

N. fumida (Johannsen), 12-135.

ME.—Mt. Desert, July 22.

MASS.—Mt. Tom, July 14.

N. hastata (Johannsen), 12-130.

ME.—Mt. Desert, July 22.

MASS.—Woods Hole, July 24.

N. inconstans (Fitch).

ME.—Orono; South Deer Isle. N. H.—White Mts.

N. johannseni (Enderline) (*Sciara nigricans* Johannsen, 12-134).
R. I.—Kingston (*Barlow*).

N. jucunda (Johannsen), 12-319.

N. H.—12, 20. July 5-13.

MASS.—27, 32. R. I.—33. CONN.—35. May 5-Aug. 11.

N. lugens (Johannsen), 12-132.

ME.—Orono.

MASS.—Auburndale, May 26.

N. mellea (Johannsen), 12-129.

N. H.—Mt. Washington, 2000 ft., July 24.

MASS.—Brookline, June 20; Auburndale, Aug. 16. CONN.—
Darien, May 27; Danbury, June 20.

N. nacta (Johannsen), 12-132.

MASS.—Auburndale, July 11; Brookline, Aug. 25.

N. multiseta (Felt).

VT.—Manchester, June 6.

N. parilis (Johannsen), 12-132.

N. H.—Intervale, Aug. 18.

N. pauciseta (Felt).

N. H.—15. May 5.

MASS.—27, 29, 32. CONN.—35. Apr. 26-Oct. 19.

N. prolifica (Felt).

ME.—9. N. H.—12, 15. Apr. 16-July 7.

MASS.—25, 29. R. I.—33. CONN.—35. Feb.-June 30.

N. quadrispinosa Pettey, 18-332.

MASS.—North Adams, March 20.

N. sylvestris Kieffer.

ME.—Echo Lake, Mt. Desert, July 22, 1918.

N. varians Johannsen, 12-135.

ME.—Northeast Harbor, Aug. 11 (*Dr. C. S. Minot*).

N. vulgaris (Fitch).

N. H.—White Mts.

BIBIONIDAE.

Plecia Wiedemann.

P. heteroptera Say.

ME.—5, 6, 8, 9. N. H.—11, 14, 15. VT.—17, 21. Aug. 29-
Oct. 14.

MASS.—26, 27. Sept. 29-Oct. 18.

Bibio Geoffroy.

B. abbreviatus Loew.

ME.—9. N. H.—11, 15. May 10-June 12.

MASS.—26, 27, 28. R. I.—33. CONN.—. May 9-Oct. 27.

B. albipennis Say.

ME.—6, 9. N. H.—11, 15. VT.—21. May 31–June 11.
MASS.—25, 27, 28, 32. R. I.—33. CONN.—35. May 17–June 3.

B. basilis Loew.

ME.—Mt. Desert, June 11–24. N. H.—Glen House, June 13–16.

B. femoratus Wiedemann.

ME.—9. N. H.—11, 15. May 11–June 13.
MASS.—23, 24, 27. R. I.—33. CONN.—35. Apr. 28–June 15.

B. fraternus Loew.

ME.—6 (Orono).
MASS.—24, 26, 27. R. I.—33. CONN.—35. May 13–June 27.

B. fumipennis Walker.

N. H.—Mt. Washington (*Mrs. Slosson*). VT.—Bolton Mt.,
Aug. 30 (*Bryant*); Killington Peak, Aug. 23, 1898 (*Morse*).

B. longipes Loew.

ME.—6, 8. N. H.—11, 15. VT.—19. Aug. 28–Oct. 14.
MASS.—24, 26, 27, 32. R. I.—33. CONN.—35. Sept. 20–
Oct. 27.

B. slossonae Cockerell, 09–174 (*B. gracilis* Walker, 1848, not Unger, 1841).

ME.—. N. H.—Passaconaway, Sept. 12, 1912 (*Cushman*).
MASS.—Mt. Greylock, 3000 ft., Oct. 9, 1920 (*G. C. Wheeler*);
Cheshire, Oct. 2 (*Beecroft*).

B. variabilis Loew.

ME.—5, 6, 8, 9. N. H.—11. VT.—21. June 5–July 7.
MASS.—23 (summit Mt. Greylock, June 15, 1906).

B. xanthopus Wiedemann.

ME.—6, 9. N. H.—11, 14, 15. VT.—19. May 17–June 19.
MASS.—25, 27. May 12–June 1.

B. vestitus Walker.

N. H.—Mt. Washington (*Mrs. Slosson*).

Dilophus Meigen.**D. breviceps** Loew.

N. H.—Glen House, June 18; Mt. Washington (*Dimmock*).
VT.—Manchester, June 6; Bennington, June 22.
MASS.—Mt. Greylock, 3000 ft., June 15; North Adams, June 20.

D. sectus McAtee, 21–22.

ME.—Ft. Kent, Aug. 17; Monmouth, June 16 (*Frost*). N. H.—
Franconia (*Mrs. Slosson*); Bretton Woods, June 27.

D. spinipes Say (*D. dimidiatus* Loew).

CONN.—West Haven, Oct. 2 (*Britton*).