

THE RESULTS OF SEVERAL YEARS COLLECTING PARASITIC FLIES (DIPTERA, TACHINIDÆ)

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As early as 1931 the writer began making some collections of parasitic flies. Serious collecting was begun on the advice of Dr. Robert Matheson of Cornell University and the late Dr. J. M. Aldrich of the U. S. National Museum. Prof. H. J. Reinhard of Texas Agricultural Experiment Station, who identified the writer's collection also stimulated further studies in this interesting group of flies.

At the beginning of World War II the writer was unable to continue studies in the group. Some of the notes made from 1930 to 1942 have recently been "unpacked" and it was decided to prepare this paper since several new records of distribution are available.

The fauna of Long Island, N. Y., where the writer was stationed for 12 years, is more southern than the upper part of the state. Several additions to the state list have therefore been made.

The list of species published at the end of this paper represents those collected by the writer unless otherwise indicated. In addition to the 189 species listed 87 species were received from other collectors, most of which were presented to the writer by Prof. Reinhard. The writer's entire collection of several thousand specimens of this family was recently presented to Cornell University at Ithaca, N. Y.

As a student at Cornell University the writer had an opportunity to study the very fine collection there and although taxonomic notes were never published some of the general notes are worth presenting at this time.

Aldrich (1915) published notes on the family which present a striking correlation on abundance of species. It is felt worth while to present his table and include a column for the Cornell

collection made prior to the presentation of my collection to that institution. This information is presented as follows:

"The following figures show something about the relative abundance of species:"

	Aldrich	Cornell
Represented by one specimen	66	112
By two specimens	24	55
By three specimens	23	39
By four specimens	21	39
By five specimens	11	20
By six specimens	13	8
By seven specimens	11	18
By eight or more specimens	63	125
	—	—
Total species	232	416

Aldrich stated "that about 25% of the species are represented by a single specimen, an equal proportion by eight or more, and that the other 50% fell between these extremes." It is very interesting to note that the percentages of species in the Cornell collection are not too far apart from the figures presented by Aldrich in 1915.

Some very careful notes were made on the Cornell collection by Dr. Robert Matheson in 1935. In looking over those it was interesting to note that a total of ninety-nine different collectors had contributed to the collection. It is only natural to expect collectors to limit their efforts to the groups in which they are interested at the particular time but a single specimen saved may later prove to be a new record or even a new species. It therefore behooves the collector to save everything. It was observed that fifty-nine collectors collected only one species each; eight collectors collected two species; seven collectors collected three species; six collectors collected four species; two collectors collected five species, etc. The bulk of the collection was made by the following:

<i>Collector</i>	<i>Collections</i>	<i>Species</i>
Blanton	481	178
Reinhard	144	133
Huckett	147	103
West	135	76
Bradley	91	61
Shannon	61	50
Leonard	56	46
Young	41	34
Davis	53	31
Krombein	25	18
Pechuman	16	14

Since Prof. Henry Dietrich became curator of the collections at Cornell University he has added considerably to the collection and he should no doubt be included in the tabulation.

LIST OF SPECIES*

- Achætoneura aletia* Riley. Willard, N. C., October
Achætoneura? cucullia Web. Burlington, Vt., July
Achætoneura frenchii Will. Babylon, June
Achætoneura? melalopha Allen. Babylon, July
Achætoneura sp. Salisbury, N. H., July
Acroglossa hesperidarum Will. Fire Island Beach, N. Y., July;
 Babylon, June; Gorham, N. H., July; Woodstock, N. H.,
 July; Bretton Woods, N. H., July; Carolina Beach, N. C.,
 May
Actia americana Tns. Selden, Sept.; Islip, June; Dix Hills,
 May; Babylon, June; Halfway Hollow Hills, May; Near
 West Rupert, Vt. Mother Myrick Mt. Vt., July
Actia autumnalis Tns. Babylon, Sept.; Halfway Hollow Hills,
 May; Near West Rupert, Vt. Mother Myrick Mt. Vt., July;
 East Barre, Vt., July
Actia diffidens Curr. Babylon, June
Actia interrupta Curr. Babylon, June-July; Woodstock, N. H.,
 July
Actia palloris Coq. Near West Rupert, Vt. Mother Myrick Mt.
 Vt., July; Manchester-Peru, Vt., July
Admontia degeerioides Coq. (of Coq.) Babylon, June-August

* Unless otherwise indicated all specimens are from Long Island, N. Y.

- Admontia pergandei* Coq. Babylon, August
Admontia sp. Babylon, August; Selden, September; Brentwood, September
Amedoria lutuosa Mg. Babylon, May; Huntington, Aug.; Farmingdale, July
Amedoria quinteri Tns. Babylon, May, July, August; Halfway Hollow Hills, May
Anachætopsis tortricis Coq. Riverhead, May
Anetia (*Lydella* sp.) Islip, July
Aphria ocypterata Tns. Babylon, June; Islip, June
Aplomya caesar Ald. Babylon, June; Heckscher St. Park, May
Aplomya confinis Fall. Babylon, May, July & Aug.; Dix Hills, August; Centereach, Sept.; Farmingdale, June; Near West Rupert, Vt. Mother Myrick Mt., July; Middlebury, Vt., July; Great Barrington, Mass., July; Manchester to Peru, Vt., July; Mt. Washington, N. H., July
Aplomya crassiseta A. & W. Babylon, May & June
Aplomya epicydes Wlk. Middlebury, Vt., July
Aplomya affinis Fall. Bretton Woods, N. H., July; Near West Rupert, Vt. Mother Myrick Mt., July
Archytas apicifera Wlk. Fairfax, S. C., April; Atmore, Ala., Aug. (Alton Blanton)
Archytas aterrima Desv. Dix Hills, Oct.; Orient Point, Sept.; Brentwood, Sept.; Babylon, June; Vermont & New Hampshire, July; Willard, N. C., Oct.
Archytas californiæ Wlk. Vermont, New Hampshire, July
Archytas piliventris v.d. W. Jacksonville, Fla., Oct.; Panama City, Fla., Oct.
Archytas vulgaris Curr. Willard, N. C., Oct.
Arctophyto sp. Babylon, May
Belvosia borealis Ald. Willard, N. C., October
Belvosia semiflava Ald. Willard, N. C., October
Belvosia unifasciata Desv. Babylon, June–Sept.; Vermont, July; Willard, N. C., October
Beskia ælops Wlk. Willard, N. C., May; Bratt, Fla., Sept.
†*Bonellimya hæmorrhoidalis* Fall. Near West Rupert, Vt.

† According to Brooks (Cat. Ent. LXXVI. p. 195) this is a European species.

- Mother Myrick Mt., July; Peak of Mt. Mansfield, Vt., July;
Stow to Mt. Mansfield, Vt., July; Manchester-Peru Vt.,
July; Mt. Equinox, Vt., July; Gorham, N. H., July
- Bonnetia comta* Fall. Babylon, June, Sept.; Dix Hills, Sept.,
Oct.; Orient Point, June, September
- Catalinovoria cauta* Tns. Babylon, June
- Celatoria diabroticæ* Shim. Babylon, Aug.; Willard, N. C., May,
Oct.
- Ceracia dentata* Coq. Babylon, May, June, Aug., Sept. & Nov.;
Farmingdale, June; Bretton Woods, N. H., July; Atmore,
Ala., Nov.
- Ceratomyiella conica* Tns. Centereach, September
- Chætogædia analis* v.d. W. Brandon, Middlebury & Near West
Rupert, Vt., July
- Chætogædia crebra* v.d. W. Babylon, Oct.
- Chætophlepsis tarsalis* Tns. Babylon, May-July
- Chrystotachina alcedo* Lw. Near West Rupert, Vt., Mother
Myrick Mt., July
- Cistogaster* ? *diversa* Lw. (of authors). Stow-Mt. Mansfield,
Vt., July
- Cistogaster immaculata* of Coq. Mgt. Babylon, July-Aug.; Dix
Hills, June; Road 20 to Haverhill, N. H., July; Stow-Mt.
Mansfield, Vt., July; Willard, N. C., May-Oct.
- Clistomorpha triangulifera* = *Hyalomyodes triangulifera* Lw.
Babylon, May, June; Near West Rupert, Vt. Mother Myrick
Mt., July; Middlebury, Vt., July
- Cnephalia hebes pansa* Sn. Babylon, Sept.; Dix Hills, October;
Carolina Beach, N. C., May
- Compsilura concinnata* Mg. Near West Rupert, Vt. Mother
Myrick Mt., July; Middlebury, Vt., July
- Copecrypta ruficanda* v.d. W. Willard, N. C., October; Bratt,
Fla., Sept. (Alton Blanton)
- Cryptomeigenia* ? *menaspis* Wlk. Islip, June; Babylon, May-
June; Washington, D. C., May
- Cryptomeigenia* ? *simplex* Curr. Babylon, April, May; Heck-
scher St. Park, May; Wyandanch, June; Halfway Hollow
Hills, May
- Cryptomeigenia* sp. Babylon, May & June; Centereach, May

- Cuphocera hirsuta* Tns. Babylon, June, Aug.; Centereach, September; Halfway Hollow Hills, June; Vermont, Connecticut, Maine, July
- Cylindromyia decora* Ald. Babylon, June; Woodstock, N. H. July; Gorham, N. H., July
- Cylindromyia desiades* Wlk. Babylon, June, Aug.; Crawford's Notch, N. H., July; Stowe, Mt. Mansfield, Vt., July
- Cylindromyia euchenor* Wlk. Wildwood St. Park, June; Babylon, May
- Cylindromyia fumipennis* Bigot. Babylon, Sept.; Fire Island, Sept.
- Cylindromyia pusilla* Ald. Babylon, July; Islip, June
- Cyrtophlæba coquilletti* Ald. Babylon, May; Dix Hills, May; Halfway Hollow Hills, May
- Dexodes xylota* Curr. Babylon, May; Dix Hills, May
- Dexodes* sp. Babylon, May; Dix Hills, May
- Dinera* sp. Babylon & Islip, June-July; Numerous specimens Dix Hills, Farmingdale, July
- Dinera grisea* Mg. Babylon, June-Oct.
- Doryphorophaga aberrans* Tns. Farmingdale, June
- Doryphorophaga doryphoræ* Riley. Centereach, May; Dix Hills, May; Babylon, June; Brandon, Vt., July
- Doryphorophaga macella* Reinhard. Babylon, May, Aug., Sept., Oct.
- Doryphorophaga sedula* Reinhard. Babylon, June; Farmingdale, June
- Epalpus signiferus* Wlk. Dix Hills, Deer Park, Brentwood, Apr.; Babylon, Apr., June
- Epigrimyia polita* Tns. Willard, N. C., May
- Epigrimyia* sp. Selden, Sept.; Cold Springs Harbor, Aug.
- Ernestia amelus* = *Mericia ampela* Wlk. Centereach, Sept.; Babylon, May
- Ernestia* = *Mericia arcuata* Toth. Babylon, April-June; West Hills, June; Manchester to Peru, Vt., July
- Ernestia* = *Mericia flavicornis* Br. Near West Rupert, Vt., July; Manchester-Peru Vt., July
- Ernestia* = *Mericia platycarnia* Toth. Near West Rupert, Vt. Mother Myrick Mt., July; Manchester-Peru, Vt., July

- Ervia* ? *triquetra* Oliv. Farmingdale, July
Erycia arator Ald. Babylon, June
Erycia (pilateo) ? n. sp. Islip, July; Chinquapin, N. C., Oct.
Euclytia flava Tns. Babylon, July
Eulasiona comstockii Tns. Babylon, May & June; Near West Rupert, Vt. Mother Myrick Mt., July
Euryceromyia robertsoni Tns. Babylon, June, Sept.
Eutrixia exilis Coq. Babylon, May; Palisades, N. J., Nov.
Exorista larvarum L. Babylon, June, July & Sept.; Farmingdale, June; Salisbury, N. H., July; Manchester-Peru, Vt., July; Near West Rupert, Mother Myrick Mt., Vt., July; Brandon, Vt., July
Exorista simulans = *Guerinia simulans* Mg. Islip, July; Babylon, May-July; Farmingdale, June; Manchester, Peru, Vt., July; Brandon, Vt., July; Near West Rupert, Vt. Mother Myrick Mt., July; Salisbury, N. H., July
Exoristoides slossonæ Coq. Babylon, June-July
Fabriciella algens Wd. East Barre, Vt., July
Fabriciella florum Wlk. Babylon, May, June, July & Oct.; Selden, Sept.; Dix Hills, Oct.
Fabriciella hispida Toth. Maine, July
Gædiopsis ocellaris Coq. Manchester to Peru, Vt., July
Genea analis Say = *Genea aurea* James. Babylon, June, July
Genea aldrich Toth. Babylon, June; Islip, July
Gonia frontosa Say. Babylon, Dix Hills, Deer Park, Islip, April, May, June & July (Mostly on Willow blossoms)
Gonia sagax Tns. Halfway Hollow Hills, Babylon, April, May & June; Dix Hills, May & June
Gonia senlis Will. Babylon, June
Gymnosoma fuliginosa of Coq. Desv. Babylon, Aug. & Sept.; East Barre, Vt., July
Hemyda aurata Desv. Babylon, July
Hineomyia setigera Coq. Babylon, June-July, May-Sept.; East Barre, Vt., July; Middlebury, Vt., July
Hyalomyiopsis aldrichi Tns. Babylon, May, June; Brentwood, Sept.
Hystrica abrupta Wd. Near West Rupert, Vt. On Poison Parsley, July; Mother Myrick Mt., July

- Leschenaultia* ? *exul* Tns. Babylon, April-June
Leschenaultia sp. (*Blepharipeza*) Dix Hills, Babylon, May; West Hills, N. Y., June; Near West Rupert, Vt., July
Leskiomima tenera Wd. Babylon, June; Islip, July
Leucostoma atra ? Tns. Babylon, July
Leucostoma senilis of Coq. Tns. Dix Hills, Aug.
Lispidea palpigera Coq. Babylon, June
Lispidea sp. Mt. Washington, N. H. Alpine Garden, July
Lixophaga plumbea Ald. Babylon, Apr., May & June; Brentwood, May; Farmingdale, June; Medford Sta., Sept.; Huntington, July; Dix Hills, May; Bratt, Fla., Sept.
Lixophaga variabilis Coq. Babylon, June-July; Islip, July; Farmingdale, June; Manchester-Peru, Vt., July; Chinquapin, N. C., Oct.
Lydina areos Wlk. Babylon, May to Sept.
Lypha setifacies (West) Babylon, May
Metavoria orientalis Tns. Islip, July
Microphthalma disjuncta Wd. Islip, July; Dix Hills, August; Babylon, June & July
Myiophasia metallica Tns. Babylon, June-Sept.; Farmingdale, June; Oak Beach, Aug.; Islip, July-Aug.; Peekskill, N. Y., Aug.; Brentwood, Sept.; Halfway House to Gorham, N. H., July; Middlebury, Vt., July; Manchester to Peru, Vt., July; Atlantic City, N. J., Sept.; Wilmington, N. C., Oct.
Myobiopsis similis Tns. Babylon, August
Nemorilla floralis Mg. Dix Hills, August; Babylon, July-Aug.
Oedematocera gilvipes Coq. Babylon, July
Oestrophasia signifera v.d. W. Babylon, July
Ormia montana Tns. Milton, Fla., Oct.
Oxynops anthracina Sig. Babylon, July, Sept.
Parachytas decisa Wlk. East Barre, Vt., July
Paradidyma singularis Tns. Babylon, May, June & Aug.; Farmingdale, June; Heckscher St. Park, May; Atlantic City, N. J., Sept.
Parlispe sp. Islip, June
Peleteria anaxias Wlk. Babylon, May-June
Peleteria apicalis Wlk. Babylon, June, July; Vermont, July
Peleteria iterans Wlk. Peak of Mt. Mansfield, July; Oliver B. C., May

- Phasmophaga antennalis* Tns. Babylon, June
- Phorocera claripennis* Mcqt. Babylon, May, June & Aug.; Heckscher St. Park, May; Near West Rupert, Vt., Mother Myrick Mt., July; East Barre, Vt., July; Middlebury, Vt., July; Salisbury, N. H., July
- Phorocera einaris* Smith. Cold Springs Harbor, Aug.; Babylon, July
- Phorocera* ? *reinhardi* A. & W. Babylon, April
- Phorocera silvatica* Ald. Babylon, May-June; Islip, May; Dix Hills, May
- Phrynodella polita* Tns. Babylon, June-Oct.; Heckscher State Park, May
- Phrynofrontina discalis* Coq. Babylon, Aug., Sept.
- Phryxe vulgaris* Fall. Brandon, Vt., July; Near West Rupert, Vt., Mother Myrick Mt., July; Mt. Equinox, Vt., July; Middlebury, Vt., July; Half Way House—Gorman, N. H., July
- Plagiomima cognata* ? Ald. (discolored). Babylon, Aug.
- Plagiomima similis* Tns. Babylon, June, Aug. & Sept.; Willard, N. C., Oct.
- Polistomyia plumipes* Fabr. Babylon, July
- Pseudochæta argentifrons* Coq. Selden, Sept.; Babylon, Aug.
- Pseudotachinomyia æqualis* Rein. Heckscher State Park, May; Babylon, May
- Pseudotachinomyia webberi* Smith = *P. slossonæ* Tns. Dix Hills, May & June; Halfway Hollow Hills, May; West Hills, June; Babylon, May & June; Farmingdale, June
- Pseudeuantha coquilletti* Ald. Babylon, July-Aug.; Farmingdale, June; Mt. Equinox, Vt., July
- Ptilodexa* sp. (several species). Babylon, May-Sept.; Oak Beach, Selden, May-Sept.
- Pyraustomyia penitalis* Coq. Babylon, June
- Schizotachina* ? *convecta* of Coq. Wlk. Babylon, May; Selden, Sept.; Islip, July; Dix Hills, Aug.
- Schizotachina longicornis* Coq. Babylon, July
- Siphona geniculata* of Coq. de G. Babylon, April-Sept.; Dix Hills, June & Oct.; Flume—North Woodstock, N. H., Aug.
- Siphophyto floridensis* Tns. Babylon, May, July; Islip, June; Selden, Sept.

- Siphosturmiopsis phyciodis* Coq. Babylon, June, August; Farmingdale, June
- Siphosturmiopsis melanpyga* Rein. Babylon, May; East Barre, Vt., July
- Spathmeigenia* ? *aurifrons* Curr. Farmingdale, June; Islip, June
- Sturmia crescentis* Reinhard. Babylon, June (Paratype)
- Sturmia pilatei* Coq. Willard, N. C., Oct.
- Tachinomyia apicata* Curr. Babylon, May & June; Dix Hills, June; Centereach, May; BelleDaire, June; West Hills, June; Heckschers St. Park, May
- Tachinomyia panætins* Wlk. Babylon, April-June; Dix Hills, April; Halfway Hollow Hills, May
- Tachinomyia* ? *variata* Curr. Babylon, May & June; Dix Hills, May; Halfway Hollow Hills, May. Numerous specimens
- Pseudomyothyria ancilla* Wlk. Babylon, July-Aug.; Atlantic City, N. J., Sept.
- Tachinophyto floridensis* Tns. Babylon, Sept.
- Tachinophyto vanderwulpi* Tns. Tin City, N. C., Oct.; Wilmington, N. C., Oct.
- Thelaira americana* Brks. Babylon, June-July; Dix Hills, June-July
- Theresia tandrec* Desv. Babylon, July-Aug. On tree trunks, especially oak trees at end of Paumanake Ave., just before dark.
- Trichopoda pennipes* Fabr. Anawalk, N. Y., Aug.; Trenton, N. J., June; Fairfax, S. C., April
- Viviania georgiæ* BB. Babylon, July-Aug.; Islip, May
- Viviana* sp. Babylon, May-June
- Voria ruralis* Mg. Babylon, July
- Metachæta atra* Coq. Babylon, May-June & August; Middlebury, Vt., July
- Micromintho melania* Tns. Islip, July; Selden, Sept.; Farmingdale, June
- Wagneria vernata* West. Babylon, May
- Winthemia datanæ* Tns. Babylon, July, Aug. & Sept.; Centereach, Sept.; Laural Beach, July; Willard, N. C., May
- Winthemia fumiferanæ* Toth. Halfway Hollow Hills, May

- Winthemia quadripustulata* Fabr. Heckscher St. Park, May; Babylon, June; West Hills, June; Near West Rupert, Vt. Mother Myrick Mt., July
- Winthemia rufopicta* Bigot. Heckscher State Park, May; Babylon, June & Sept.; Middlebury, Vt., July; Near West Rupert, Vt., Mother Myrick Mt., July
- Xanthomelana atripennis* Say. Ocala, Fla., November; Middlebury, Vt., July
- Xanthophyto labis* Tns. Near West Rupert, Vt., July
- Zenillia blanda* O. S. Babylon, June; Islip, June

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