

THIRD SUPPLEMENT TO INSECTS
TAKEN IN LIGHT TRAPS AT THE
ARCHBOLD BIOLOGICAL STATION,
HIGHLANDS COUNTY, FLORIDA

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ABSTRACT

Over 400 new records of species taken in light traps at the Archbold Biological Station have been obtained since the previous lists (Frost 1964, 1966, 1969). These include 38 new records for Florida, 17 new species and many host records especially in the Lepidoptera and the Agromyzidae.

There has been a slight change in the plant association especially near where the light traps have been operated during the past 14 years. In the fall of 1970, a large vegetable garden was discontinued in this area and planted with a mixture of seed consisting of brown top and proso millet, combine peas, sorghum, and sesame. Some notable changes in insect catches in light traps resulted. Prior to 1970, the diamondback moth, *Plutella xylostella* (Linnaeus), a pest of Cruciferae, was trapped in very large numbers. Since 1970, only a few have been taken. Adults of the southern armyworm, *Spodoptera eridania* (Cramer), were common at light traps, and the larvae caused serious damage to beet leaves. Since 1970 very few of these moths were taken in light traps. Numerous butterflies, generally not strongly attracted to light, were common visitors to sesame flowers and a few were taken in light traps.

Several groups which were not previously studied, such as the Coniopterygidae, Carabidae (*Brachinus*), and the Agromyzidae, have been identified by specialists and are added to this list.

Methods of entry and abbreviations are the same as those used by Frost (1964). New abbreviations include: AWK, Wyatt collection, Field Museum, Chicago, Illinois; DHJF, Division of Health, Jacksonville, Florida; SI, Smithsonian Institution, Washington, D. C.; UR, University Rochester; YU, Yale University; ZMHF, Zoological Museum, Helsinki, Finland.

The majority of the material has been placed in the Frost Entomological Museum, The Pennsylvania State University; some to the insect collection, Archbold Biological Station; many in the Florida State Collection of Arthropods, Division of Plant Industry, Florida Department of Agriculture and Consumer Services, Gainesville, Florida; and a few have been retained by C. P. Kimball.

LIST OF INSECTS¹

ORTHOPTERA

Gryllus firmus Scudd. 11, 12, 1, 2, 3, 4, SC

Delete *Gryllus rubens* Scudd. 1964

Delete *Acheta assimilis* Fab. 1969

ISOPTERA (D. R. Smith, SI.)

Kalotermitidae

Cryptotermes sp. 4/4, 5.2

Incistermes snyderi (Light) 4/8, 4/24

Rhinotermitidae

Reticulitermes flavipes (Kollar) 1/21, 2/10

Reticulitermes virginicus (Banks)

¹Recently described species not appearing on previous lists by Frost (1964, 1966, 1969) are indicated by an asterisk preceding the specific name.

NEUROPTERA

- Ascalaphidae (P. A. Adams, UC)
Ameraptus sp. 5/23
Ululodes floridanus Banks 5/23
Ululodes senax (Wlk.) 5/21, 6/1
 Myrmelionidae (P. A. Adams, UC)
Brachynemurus longicaudus Burm. 5/27
 Chrysopidae (P. A. Adams UC)
Abachrysa eureka Banks 5/3, 5/24
Chrysopa intima McLachlan 5/21
 Coniopterygidae (M. Meinander, ZMHF)
 **Coniopteryx diversicornis* Meinander
 4/5, 4/21, 4/27 Paratypes
 **Coniopteryx simplicior* Meinander 5/3
 SC, Paratypes
Coniopteryx westwoodi Fitch 8/10
Parasemidalis fuscipennis (Reuter) 4/8
Semidalis vicina (Hagen) 3/5 SC

ODONATA (G. H. Beatty, State College, Pa.)

- Argia fumipennis atra* Gloyd. 4/10, 4/22
Celithemis eponina Drury 4/23
Enallagma cardenium Selys 1/22
Erythemis simplicicollis Say 4/13
Lestes [vidua] Hagen 4/29
Pachydiplax longipennis Burm. reported
 1964, 96 specimens taken April, May
 1970

PSOCOPTERA (E. L. Mockford, ISNU)

- Aaroniella achrysa* (Banks) 4/24 rare
Caecilius africanus Ribaga 2/18, 2.21,
 2/24, 4, 4/12
 **Caecilius indicator* Mock. 2/27, 4/7,
 4/13, 4/19
Hemipsocus chloroticus (Hagen) 1/3, 1/10
 not previously taken in the field in
 Florida
Lachesilla viezeli Somm. 12/20, 1/24, 1/31
 **Peripsocus alachuae* Mock. 2/21, 3/13
Psocidus insulanus (Chapm.) 1/15
Psocidus sp. 1/10 to 2/3
Psocus leidy Aaron 1964 reported in error
 as new to the U. S., only new to Florida
Trichadenotecum pardus Bord. 1/3

THYSANOPTERA (L. Stannard, INHS)

- Hoplandrothrips* sp. 2/17 rare

HOMOPTERA

- Membracidae (R. C. Froeschner, SI)
Ophiderma definita Woodruff 3/10
Smilia fasciata A.&S. 3/19
 **Telamona archboldi* Froeschner 4/20
 new species
Telamona unicolor Fitch 3/24
 Psyllidae (L. M. Russell, USDA)
Trioza diospyri (Ashm.) 2/1, 2/13, 4/28
 Aphididae (J. O. Pepper, PSU)

- Aphis coreopsidis* Thoms. 11/22, 11/27,
 12/6, 12/30
Aphis gossypii Glover 2/30, 4/13, also
 taken on *Bryophyllum* and *Bidens*
Cinara watsoni Tissot 3/29
Eriosoma americana Riley 1/24
Eulachnus rileyi Williams 1/1, 2/28, 12/20
Macrosiphum euphorbiae Thomas 12/26,
 3/30
 Derbidae (J. P. Kramer, SI)
Otiocerus degeerii Kby. 4/11

HEMIPTERA

- Pentatomidae (R. C. Froeschner, SI)
Brochymena arborea (Say) 5/3
 Coreidae
Zicca taeniola (Dallas) 5/12, 12/2
 Lygaeidae
Peritrechus paludemaris Barber 2/27, 3/4
 Anthocoridae
Orius insidiosus (Say) 11/18
Orius pumilio (Champ.) 11/20, 3/4, also
 on elderberry flowers
 Reduviidae (R. C. Froeschner, SI)
Empicoris orthoneuron (McAt. & Mall.)
 4/3, 4/12
Teleorhinus floridanus Knight 4/17, 4/25,
 5/5

Nabidae

- Nabis alternatus* Parsh. 1/4

Pleidae

- Neoplea harnedi* (Drake) 1/1

COLEOPTERA

- Carabidae (H. Dietrich, CU)
Acupalpus pauperculus Dej. 2/28, 3/3
Brachinus (T. L. Erwin, SI)
 **Brachinus adustipennis* Erwin 3/7, 3/11,
 4/4, 4/28
Brachinus alternans Dej. 1/4 to 4/29 SC
Brachinus conformis Dej. 3/25, 3/33, 4/3,
 4/4, 4/5
Brachinus kansanus Lec. 3/31
Brachinus medius Harris 3/2, 3/27, 4/3,
 4/4, 4/29, 4/30 SC
Brachinus neglectus Lec. 3/3, 3/29
Brachinus oxygonus Chaud. March and
 April SC
Brachinus quadripennis Dej. 1/31 to 5/1
 SC
Brachinus rugipennis Chaud. 11/27, 1/5
Brachinus sublaevis Chaud. 2/17, 4/29 SC
Brachinus deyrollii Laf., *B. fumans* Fab.,
 and *B. pulchellus* Blatch. delete from
 1964 list. All material has been reworked
 by T. L. Erwin, 1970.
Bradycellus tantillus (Dej.) 1/16, 3/3 SC
 (det. H. Dietrich, CU).
Pasimachus sublaevis Bleauv. 4/29

- Tachys obliquus* Casey 1/6, 3/3
 Dytiscidae (H. Dietrich, CU)
Anodocheilus exiguus (Aubé,) 1/1
Bidessus pullus floridanus Fall. 1/1
Cybister occidentalis Aubé. two Mollusca,
Larvapedes fuscus Adams, attached to
 the elytra of this beetle (J. R. Rosewater
 SI).
 Hydrophilidae (H. Dietrich, CU)
Chaetarthria pallida (Lec.) 12/27
Paracymus reductus (Fall.) 12/27
 Staphylinidae
Creophilus villosus (Grav.) 11/18
 Histeridae (R. L. Wenzel, CNHM)
Euspilotus assimilis Payk. 11/18, also
 taken on dead opossum
Euspilotus conformis Lec. 11/18
Euspilotus placidus Er. 4/29
Saprinus pennsylvanicus Payk. 4/14
 Melyridae (J. N. Knull, OSU)
Anthocomus bipunctata Herrer 3/2, An
 introduced species, first record for Fla.
 Lampyridae (J. E. Lloyd, UF)
Photinus sp A 4/29
Photurus lineaticollis (Mots.) group 4/30
Photurus sp. GR 3/31
Pyractomena angulata (Say) 4/22
 Cleridae (J. N. Knull, OSU)
Cymatodera inornata Say 5/3
 Euglenidae
Elonus basalis (Lec.) 5/23
Zonantes signatus (Hald.) 3/8
 Elateridae (J. N. Knull, OSU)
Anchastus binus (Say) 5/5
Conoderus difformis Fall. as *C. falli* Lec.
 in 1964
Conoderus perversus Brown 5/15, 5/19
Conoderus sulfuralis (Lec.) 3/37
Conoderus vespertinus (Fab.) 5/15,
 5/19, 5/28
Dicrepidius corvinus Cand. 5/15
Esthesopus bicolor Horn 5/19
 Helodidae (H. Dietrich, CU)
Cyphon perplexus Blatch. 3/8
 Nitidulidae (H. Dietrich, CU)
Cychramus adustus Er. 3/4
 Erotylidae (H. Dietrich)
Megalodacne fasciata (Fab.) 4/13
 Lathridiidae (H. Dietrich)
Melanophthalma distinguenda Com. 3/3
 Cryptophagidae (H. Dietrich)
Cryptophilus sp. 3/2
 Tenebrionidae (H. Dietrich, CU)
Epitragodes tomentosus (Lec.) 3/27
 Salpingidae
Mycterus scaber Hald. One specimen
 taken by J. G. Needham
 Melandryidae (H. Dietrich)
Canifa pallipes (Melsh.) 2/29, 3/13, 3/14,
 3/29, 4/19, 4/21 SC
 Anobiidae (H. Dietrich, CU)
Caenocara sp 3/13
Ernobius granulatus Lec. 3/13, 11/7
Xyletinus mucoreus Lec. 4/3, 4/4
 Scarabaeidae (O. L. Cartwright, SI)
Onthophagus tuberculifrons Harold 4/21
 Cerambycidae (J. N. Knull, OSU)
Euryptera lateralis (Oliv.) 4/29
Stenodontes dasytomus (Say) 2/23
 Chrysomelidae (H. Dietrich, CU)
Altica litigata Fall 2/25
Bassareus clathratus (Melsh.) 3/12, 4/5
Blepharida dorothea Mignot 12-31 to
 4/28, also feeding on sumac and
 Brazilian pepper.
Blepharida rhois Forst. delete from 1966
 list.
Colaspis favosa Say 12/7
Cryptocephalus notatus Fab. 3/7, 4/6
Griburius equestris (Oliv.) 4/17
Lactica tibialis (Oliv.) 12.17
Oedionychis flavida Horn 2/20
Oedionychis sp. 1/10
Chalepus scapularis (Oliv.) on 1964 list,
 later reared as leaf miner on *Des-
 modium*.
 Mylabridae (J. M. Kingsolver, SI)
Megacerus discoideus (Say) One
 specimen in SI.
 Curculionidae
Derelomus basalis Lec. on 1964 list. later
 found feeding abundantly on the
 flowers of paw paw and elderberry.
 Scolytidae (S. L. Wood, BYU)
Cnesinus strigicollis (Lec.) 4/5, 4/8
Hylastes salebrosus Eichof. 3/6, 3/24, 4/7
Xyleborus pini Eichof. 1/30
 Bostrichidae (S. L. Wood, BYU)
Prostophanus punctatus (Say) 3/3, 3/6,
 3/12
 STREPSIPTERA (T. J. Spilman, SI)
Elenchus koebeli (Pierce) 11/6, 12/8, 2/27,
 3/4, 3/8, 4/10
Triozocera texana (Pierce) 3/8
 LEPIDOPTERA (C. P. Kimball, with addi-
 tions from Lepidoptera of Florida 1965).
 Arctiidae
Apantesis doris (Boisdu.) 2/3
Crambidia uniformis Dyar 2/20
Cycnia inopinatus (H. Edw.) 1/25, 2/16
Estigmene congrua (Wlk.) 3/25
Estigmene prima (Slosson) 1/10, 2/3, 3/3
Utetheisa ornatrix Linn. Jan. YU
 Noctuidae

Acontiinae

- Cobubatha quadrifera* (Zell.) March
Eublemma cinnamomea (H-S.) Dec.,
 Jan., YU
Frwa fasciatella (Grote) April YU, June
 AKW, July Klots AMNH
Heliocontia apicella (Grote) 4/3
Sigela penumbra Hulst 1/18
Spragueia dama (Gn.) Sept., AMNH
Tarachidia erastrides (Gn.) 1/31, 2/12
- Heliothiinae
Schinia gloriosa (Stecker) Sept., Oct., YU
Schinia marginata (Haw.) 1/23, 1/27
Schinia nubila (Stecker) Sept., YU
Schinia nundina (Drury) 11/23
Schinia sordida Smith Sept., Pease YU
- Hadeninae
Polia carbonifera Hamp. 2/16, 2/22, 2/24
- Cuculliinae
Psaphida resumens viridescens (Wlk.)
 3/12
- Amphipyriinae
Arzama densa Wlk. 3/23, June AKW
Balsa labecula (Grote) 3/29, most
 northern record for Florida
Dipterygia patina (Harvey) Feb.
Magusa orbifera (Wlk.) 3/1, 4/1
Phosphila miselioides (Gn.) April YU
Phosphila turbulenta Hbn. 1/30
- Plusiinae
Pseudoplusia includens (Wlk.) 2/22
- Catocalinae
Caenurgina crassiusculus Haw. 1/30
Caenurgina erechtea Cramer 4/28
Catocala amica (Hbn.) 5/14
Catocala gracilis Edw. 5/1
Catocala ilia (Cramer) 4/21
Catocala similis Edw. 4/24, 4/28
Cutina albopunctella Wlk. June AKW
Zalé fictilis (Gn.) Sept. Nov. YU
- Hypeninae
Gabara distema (Grote) April, May YU
Hemeroplanis scopulaepes (Haw.) 4/28
Metalectra quadrisignata (Wlk.) Sept.
 YU
Ophiuche abjurialis (Wlk.) Dec. YU
Ophiuche degasalis (Wlk.) 11/24
Phyprosopus callitrichoides Grote Feb.
 March.
Raparna melanospila (Gn.) 4/4
- Rivulinae
Prosoparia perfuscaria Grote April CU
Rivula pusilla Moesc. April CU
- Hermiiniinae
Epizeuxis diminuendis B. & M. 4/3
Renia larvalis Grote 1/23
Renia sobrialis (Wlk.) 1/23

Erebiinae on 1964 list, several species list-
 ed under Catocalinae

- Anomis illita* Gn. Dec. YU
Coenipeta bibitrix (Hbn.) 1/24
Ephyrodes cacata Gn. Oct. YU
Gonodonta unica Neum. 3/24, 12/24 not
 previously recorded from central or
 northern Florida.
Hypocala andremona (Cramer) 5/10 also
 reared from leaves of persimmon
Massala obvertens (Wlk.) May YU
Noropsis hieroglyphica (Cramer) Sept.
 YU
Panopoda carlicosta combinata (Wlk.)
 3/30, 4/8, 4/9
Panopoda carneicosta unicolorus ? 3/23
Synedoida grandirena (Haw.) 3/21
- Notodontidae
Cerura scitiscrita Wlk. Aug. YU
Datana integerrima G. & R. Sept. YU
Datana major G. & R. 4/10
Datana modesta Beut. Aug. Sept. YU
Fentonia marthesia (Cramer) Jan. March
 YU
Heterocampa manteo Dbld. Sept YU
- Liparidae
Olene atomaria parallela (G.&R.)
Hemerocampa plagiata (Wlk.) Jan. YU
- Lasiocampidae
Tolype minta Dyar 11, 12, 1, 2, 3, VC
- Limacodidae
Limacodes rectilinea latomia Harvey
 1/22, 4/23
Monoleuca erectifascia Dyar June
 AKW
Monoleuca semifascia (Wlk.) July YU
Sibine stimulea (Clem.) 4/5, June YU
Slossonella tenebrosa Dyar 4/5
- Geometridae
 Ennominae
Anacamptodes humaria (Gn.) Aug. YU
Apicia fundaria Gn. March, Sept. YU
Epimecis detexta (Wlk.) 6/24
Episemasia morbosa Hulst 1/20, March
 CU
Euchlaena astylusaria (Wlk.) March YU
Itame gausaparia (Grote) 2/24, 3/8, 4/7,
 4/28
Itame inextricata (Wlk.) 4/10, 4/22, 4/24,
 4/28
Itame latiferrugata brunneata (Pack.)
 3/19
Lychnosea intermicata (Wlk.) 4/30, also
 4/25 Needham CU
Nepheloleuca floridata (Grote) 12/25
Pseudoboarmia umbrosaria (Hbn.) on

- 1964 list later reared from the leaves of turkey oak.
- Semiothisa aequiferaria* (Wlk.) Dec. AMNH
- Semiothisa gnophosaria* (Gn.) June AKW
- Semiothisa punctolineata* (Pack.) June AKW, Aug. YU
- Sphacelodes vulneraria* (Hubn.) Sept. 2 Pease YU
- Geometrinae
- Chlorochlamys paularia* (Mosch.) Dec YU
- Nemoria bifiliata* (Wlk.) 1/11 to 4/1
- **Nemoria outana* Ferguson 1/5, 2/1, 4/7
- Racheospila abdominalaria* B. & McD. delete from 1964 list.
- Larentinae
- Camptolina stellata* (Gn.) 4/30
- Eupithecia jejuna* McD. 2/21, 3/15, 3/19
- Lygris gracilineata* Gn. 1/29, 4/19
- Sterrhinae
- Cosymbia myrtaria ignotaria* (Wlk.) 3/19
- Metasiopsis balistaria* (Gn.) 1/20
- Metasiopsis ossularia* (Geyer) June AKW, July, Dec. CU
- Metasiopsis peralbata* Pack. June AKW
- Scopula indoctaria* (Wlk.) April CU
- Scopula obluridata* (Hulst) 1/17, 1/22
- Scopula plantagenaria* (Hulst) June AKW
- Sterrhoa retractaria* (Wlk.) July AMNH
- Pyrallidae
- Glaphyrinae
- Dicymolomia julianalis* (Wlk.) 3/7
- Glaphyria basiflavalis* (B. & McD.) 3/31
- Pyraustinae
- Condylorrhiza vestigialis tristealis* Wlk. 12/22, first record for Florida
- Desmia funeralis* (Hbn.) 2/20, 4/23, 4/24
- Diastictis argyralis* Hbn. 3/2
- Diastictis holoquinialis* Munroe 2/25
- Diathrausta harliquinialis lauta* Munroe April Needham CU, July CHC Sept. Pease YU
- Eurrhyarodes lygdamis* Druce 4/1
- Geshna cannalis* (Quaintance) 2/26, Dec. YU
- Geshna primordialis* Dyar 3/4
- Hedylepta indicata* (Fab.) April YU
- Loxostege helvialis* Wlk. 4/5, 4/6, 4/8, 5/5, 5/23
- **Loxostege neohelvialis* Capps 4/5, 4/6, 4/9, 4/18, 5/5, 5/23 paratypes
- Marasmia trapezalis* (Gn.) 4/21
- Pachyzancla theseusalis* (Wlk.) 3/26, 4/20, 5/3, 5/4, also reared as leaf folder on royal and cinnamon fern
- Palpita flegia* (Cramer) 1/16
- Pterygus stenialis* (Gn.) 3/31
- Pilemia periusalis* (Wlk.) Jan. Dec. YU
- Pilocrocis ramentalis* Lederer April YU
- Ostrinia penitalis* (Grote) 3/14
- Trischistognatha palindialis* (Gn.) 3/4
- Udea rubigalis* (Gn.) 5/4
- Sylepta silicalis* (Gn.) Sept. YU
- Tholeria pyraustalis* Dyar Dec. 19-25 Pease YU
- Nymphulinae
- Chrysendeton kimballi* Lange Sept. YU
- Chrysendeton medicinalis* (Grote) March, April, Nov., Dec. CU
- **Undulambia polystichalis* Capps 12/12
- Scopariinae
- Eudonia strigalis* (Dyar) 2/16
- Pyralinae
- Omphalocera munroei* Martin 4/21
- Omphalocera dentosa* Grote Aug. Sept. YU
- Chrysauginae
- Tetrastichus leucogramma* Hamp. 5/3
- Tosale oviplagalis* (Wlk.) 3/28
- Schoebiinae
- Patissa flavifascialis* B. & McD. Nov. Dec. CU
- Patissa sordidalis* B. & McD. April, Aug., Sept., YU
- Patissa xantholeucalis* (Gn.) June AKW
- Rupela segregata* Hein. 5/21, 5/23, 5/24
- Rupela tinctella* (Wlk.) April, Sept. YU
- Schoenobius sordidellus* (Zinck.) Jan.
- Scirpophaga repugnatalis* (Wlk.) Oct. YU
- Ancylomiinae
- Eugrotea incertella* (Zinck.) June AKW
- Prionapteryx nebulifera* Stephens May, Evans
- Crambiinae
- Crambus tripsacas* Dyar 4/6 Pease, YU
- Diatraea evanescens* Dyar Aug. YU
- Eoreuma densella* (Zell.) 3/6, 3/21
- Platytes acerata* Dyar, March YU
- Epipaschiinae
- Epipaschia superatalis* Clem. Sept.
- Tetralopha slossoni* (Hulst) March, Dec. YU
- Galleriinae
- Galleria mellonella* (Linn.) March, April, Aug. CPK
- Phycitidae
- Acrobasis vaccinii* Riley Feb. Pease YU
- Anerastia ella* (Hulst) 3/2, 4/21
- Homoesoma electellum* (Hulst) 1/29, 2/5
- Honora mellinella* Grote 1/4
- Moodna ostrinella* (Clem.) on 1964 list, subsequently reared from acorns

- Ollia parvella* Dyar 3/6 Needham CU
Palatka nymphaeella (Hulst) 4/10
Salebria nubiferella Rag. 2/25
Sarasota plumigerella Hulst 3/21, 4/2
 Needham CU
 Pterophoridae
Platyptilia edwardsii Fish Dec. YU
Platyptilia pusillidactyla (Wlk.) Dec. YU
Pselnophorus belfragei (Fish) April, Jan.
 Dec. YU
Oidaematophorus lacteodactylus
 (Chamb.) March, Dec. YU
Trichoptilus defectalis (Wlk.) May YU
 Olethreutidae
 Olethreutinae
Endothenia daeckiana Kearf. Dec. Pease
 YU
Episimus argutanus (Clem.) 2/25
Lobesia lirioidendrana (Kearf.) 4/10
Olethreutes osmundana Fern. 4/23, also
 reared as leaf roller on royal and cin-
 namon fern.
 Eucosminae
Ancylis divisana (Wlk.) 12/28, 3/14, 3/24,
 4/9
Eucosma vandana Kearf. 3/26 YU
Strepsicrates smithiana indentana
 (Dyar) on 1964 list subsequently reared
 as a leaf roller from guava.
 Laspeyresiinae
Gymnandrosoma desotatum Heinr. June
 AKW
Gymnandrosoma punctidiscanum Dyar
 2/17, 4/14
Laspeyresia sp. 1 Kimball near *gal-*
laesaliciana (Riley) 2/7, 2/16, 2/19,
 3/4
Laspeyresia sp. 2 Kimball 2/4, 3/28
Melissopus latiferreanus (Walsh.) June
 AKW
Satronia tantilla Heinr. 12/28
 Tortricidae
 Archipinae
Archips georgianus (Wlk.) 4/4
Archips obsoletana Wlk. 1/23
Argyrotaenia ivana (Fern.) 3/3, 4/1
 Sparganothisinae
Coelostathma discopunctana Clem. 4/8
Platynota rostrana (Wlk.) on 1964 list,
 later reared as leaf roller on *Quercus*
laevis
Platynota stultana (Walsh.) 2/18, 3/6, 5/7
Sparganothis caryae (Rob.) July
 AMNH
Sparganothis distincta (Walsh.) 3/7,
 3/19, 4/9
Sparganothis karacana (Kearf.) 5/21,
 Needham CU
Sparganothis taracana Kearf. Dec. CU
 Phaloniidae
Carolella bimaculana (Rob.) 3/4 CU
Carolella erigeronana (Riley) March YU,
 July AMNH
Phalonia angulatana (Rob.) March CU
Phalonia subolivacea (Walsh.) March
 CU
 Cosmopterygidae
Cosmopteryx abdita Hodges 3/21, 4/4,
 RWH CU
Cosmopteryx damnosa Hodges 3/27
 RWH
Cosmopteryx delicatella (Wlsh.) 3/27
 RWH
Cosmopteryx ebriola Hodges 3/27, 4/4
 RWH
Cosmopteryx scirpicola Hodges 3/27
 RWH
Eteobalea sexnotella (Chamb.) 3/4
 March, April RWH
Melanocinclis lineigera Hodges March
 RWH
Triclonella determinatella (Zell.) 1/18
 Walshiiidae
Perimede falcata Braun 3/29 RWH
 Momphidae
Homaledra heptathalama Busck March,
 also reared from palmetto
Homaledra sabalella (Chamb.) 2/3,
 3/9/3/10 also reared from palmetto
Mompha bottimeri Busck 12/28, 1/21,
 3/31
 Gelechiidae
Aristotelia rubidella (Clem.) March CU
Chionodes maculimarginella (Clem.) 4/2
 Needham CU
Compsolechia coverdalella (Kearf.) 5/8
Dichomeris ligulella Hbn. 2/7
Exoteleia pinifoliella Chamb. 1/22, 2/3,
 2/12, 5/2
Fascista quinella (Zell.) 12/10, 12/24
Glyphidocera floridanella Busck March
 CU
Trichotaphe trinotella Busck 1/1, Pease
 YU
 Oecophoridae
Psilocorsis caryae Clarke 3/3/30, 3/31
Psilocorsis quercicella Clem. 2/4
Psilocorsis reflexella Clem. 3/7
Inga cretacea (Zell.) 4/14, 4/17
 Stenomidae
Setiostoma xanthobasis Zell. 3/10
 Glyphipterygidae
Glyphipteryx sp. 1/10, 4/24, 4/29
 Aegeriidae
Synanthedon acerni Clem. 3/21

- Synanthedon sapygaeformis floridensis* (Grote) 1/10, 2/26 also reared from woody galls on scrub oak produced by *Callirhytes batatoides* Wlshm.
- Gracilariidae
Lithocolletis quercivorella Chamb. 11/17, 11/23, 11/28, a blotch miner on *Xolisma* and *Quercus*
- Acrolophidae
Acrolophus arcanellus (Clem.) Aug., Sept. YU
Acrolophus piger (Dyar) July 15 to 31, Klots AMNH
Acrolophus propinquus (Walsh.) 4/2, 4.4, 4/5, 5/11, 5/12
Acrolophus texanellus (Chamb.) 4/29
- Nepticulidae
Ectoedemia obrutella (Zell.) 4/9, 4/24
- Prodoxidae
Prodoxus quinquepunctella (Chamb.) March, April CU
- Hesperiidae (F. Fee, PSU)
Atalopedes campestris (Boisdv.) 1/31, 3/7
Erynnis brizo (B. & L) 4/17
Erynnis juvenalis Fab. 3/7
Euphyes vestris (Boisdv.) delete from 1964 list
Hylephila phyleus (Drury) 2/12
Lerema accius H. & S. 1/27, 2/9
Polites themistocles (Latr.) 3/24, a common species but taken only once.
Thorybes pylades (Scudd.) 3/11
- Lycaenidae (F. Fee, PSU)
Euristrymon favonius A-S. 5/5
Panhiades m-album Bd. 2/3, 2/23, 4/12
Strymon martialis (H-S.) delete from 1964 list.
- DIPTERA
Tipulidae (C. P. Alexander)
Nephrotoma ferruginea suturalis (Loew) 4/15
- Culicidae (J. W. Knight, DHJF)
Culex restuans Theob. 2/4
- Cecidomyiidae (R. T. Gagné, SI)
Asphondylia sp reported 1964, also reared from galls on *Ambrosia artemisiifolia*
- Stratiomyiidae (H. V. Weems, FDA)
Sargus fasciatus (Fab.) 4/4
Sargus lucens Loew delete from 1969 list
- Tabanidae (L. L. Pechuman, CU)
Chrysops hinei Daecke 11/10
Chrysops pudicus OS. 4/5, 4/8
- Empididae (D. D. Wilder, PSU)
**Syneches frosti* Wilder 2/8, 2/9, 3/10
Syneches simplex Wlk. 2/8, 2/11, 3/10
- Asilidae (H. V. Weems, FDA)
Efferia interrupta (Macq.) 4/9
- Bombyliidae (H. V. Weems, FDA)
Poecilognathus punctipennis Wlk. 4/22
- Syrphidae (H. V. Weems, FDA)
Baccha clavata (Fab.) 12/14
- Conopidae (H. V. Weems, FDA)
Physocephala tibialis (Say) 1/1
- Pyrgotidae
Pyrgota filiosa Loew delete from 1964 list
Sphecomyiella maculipennis (Macq.) 2/28 to 3/24
- Tephritidae (C. C. Steyskal, SI)
Acidogona melanura (Loew) 4/16
- Dioxya picciola* (Bigot) recorded 1964, also reared from seeds *Bidens pilosa*
- **Myoleja rhino* Steyskal 2/24, 3/9, 3/18, 4.2 paratypes
- Lauxaniidae (C. W. Sabrosky, SI)
Poecilominettia valida (Wlk.) 2/8, 2/16, 3/15, 3/28, 4/7 C
- Sciomyzidae (C. W. Sabrosky, SI)
Pherebellia griseascens (Meig), 3/28
- Micropezidae
Taeniptera trivittata Macq 3/27, 4/13, 4/29, 5/8 C
- Agromyzidae Since the papers by Frost 1964, 1966, and 1969, Dr. Kenneth A. Spencer has studied the Florida Agromyzidae in considerable detail making some changes necessary: 4 species, *Liriomyza eupatorii* (Kaltb.), *Liriomyza sorosis* (Will.), *Melanagromyza mallochi* (Hend.), and *Calycomyza verbenae* Hering should be dropped from previous lists.
- Amauromyza maculosa* (Mall.) listed under *Phytobia* 1964, has subsequently been reared from blotch mines in the leaves of *Baccharis*, *Emile*, *Erechtites*, and *Gaberia*. Several larvae feed within a single mine.
- Calycomyza ambrosiae* Frick 3/1, making small blotch mines on *Ambrosia artemisiifolia*.
- **Calycomyza crotolarvora* Spencer 3/8, making linear mines on *Crotolaria* sp.
- Calycomyza jucunda* VdW. 4/24, making blotch mines on *Bidens pilosa*
- Calycomyza lantanae* Frick 3/5, 5/30, 12/30 blotch mines on *Lantana camara*
- Calycomyza malvae* (Burgess) 3/6 linear mines on *Urena lobata*
- Calycomyza majuscula* Frick 2/15, first record for Florida
- **Calycomyza sidae* Spencer 4/3, 4/20
- **Cerodontha frosti* Spencer Holotype 11/28

- Haplomyza minuta* (Frost) 3/28, 5/11, a linear-blotch mine on *Amaranthus*
Liriomyza commelinae Frost 1/3, 2/6, 2/12, 2/21, C, a linear miner on *Commelina elegans*.
Liriomyza marginalis (Mall.) 11/9, 1/12
Liriomyza trifolii (Burgess) 3/4, 4/9, 4/11
 **Melanagromyza caribbea* Spencer 1/23 Paradise Key, Fla.
 **Melanagromyza floridensis* Spencer 11/9, 11/10, 11/20, 1/11
 **Melanagromyza floris* Spencer 1/9
Nemorimyza posticata (Meig.) 3/29, 4/7, Large blotch mines on *Baccharis halimifolia*.
Phytomyza ilicicola Lw. 4/4, 4/5, 12/24, small blotch mines on *Ilex cassinae*.
Phytomyza opacae Kulp. 4/3, linear mines on *Illex opaca*.
 3/2 also reared from blotch mines on blackberry leaves.
- HYMENOPTERA
 Tenthredinidae
Metallus rhoweri (MacG.) 2/6, 2/8, 3/1,
- Schizocerella pilicornis* (Holmg.) reared from blotch mines on leaves of purslane, not blackberry as stated 1969
- Braconidae
Agathis crassicornis (Mues.) 3/16, 3/25
Agathis spiracularis (Mues.) 1/4
Agathis texanus (Cress.) parasite of leaf crumpler *Pachyzancla thesausalis* 11, 17, 12/5
- Vespidae
Vespula maculifrons (Buy.) 11/7, 11/24 C
- Scoliidae (K. V. Krombein, SI)
Campsomeris plumipes fossulana (Fab.) 1/28, 1/31, 2/1, 2/24, 3/10, 3/23
- PSEUDOSCORPIONIDA (W. B. Muchmore UR)
Lamprochernes 3/16, an undescribed species.
Parachelifer superbus Hoff. 3/4
Ocalachelifer cribratus Chamb.
Parachernes latimanus Banks 1/30, 3/2

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ANNUAL MEETING

The Florida Entomological Society annual meeting will convene in Gainesville, Florida, at 1:30 PM, Wednesday, September 3, and will adjourn at noon, Friday, September 5. The Gainesville Hilton is the meeting site, and a barbeque has been planned in lieu of the regular banquet. The bull session is scheduled Wednesday evening.