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University of Maine

MAINE AGRICULTURAL EXPERIMENT STATION
ORONO, MAINE

**The Caddisflies (Trichoptera) of Maine
Excepting the Family Hydroptilidae**

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Durham, New Hampshire

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FOREWORD

This welcome addition to lists of insects taken in Maine is a result of the cooperation of the Maine Forest Service and taxonomic specialists working at Maine's sister institution, the University of New Hampshire.

Dr. A. E. Brower of the Maine Forest Service has been responsible for light trap surveys—mostly in wooded areas of the state—for many years. It was through his interest that light trap specimens belonging to the order Trichoptera were made available for a study resulting in the present publication.

It is our belief that the information made available in this bulletin will be of interest to many groups, among them sports fishermen—since Trichoptera provide food for many species of fish—students interested in the distribution of animals, taxonomists and biologists.

The Maine Agricultural Experiment Station is happy to have had a hand in making this information available to all who may be interested.

Geddes W. Simpson
Professor of Entomology

November, 1966.

THE CADDISFLIES (TRICHOPTERA) OF MAINE EXCEPTING THE FAMILY HYDROPTILIDAE

R. L. BLICKLE AND W. J. MORSE

A survey of the Trichoptera taken from light trap collections made during July and August, 1959, form the basis of the present paper. A check list of the family Hydroptilidae known from Maine has been published, Blickle (1964). The collections mentioned above were made for the most part in the Boreal Region of Maine.

Literature records are included in this publication and these are in part: The Caddisflies or Trichoptera of New York, Betten (1934); The Caddisflies, or Trichoptera, of Illinois, Ross (1944); and The Biological Survey of the Mount Desert Region, Part VII, The Insect Fauna, Procter (1946). The first two give very good accounts of the biology of the insects.

A comparison with check lists of New Hampshire, Morse and Blickle (1953, 1957), will give a very good indication of the species that should occur in the western and southwestern part of the state. Many of these collections were made within a score of miles of Maine's western boundary.

The list follows the arrangement of Ross (1944) except for the family Limnephilidae and here the synonymy of Schmid (1955) has been used. The data given for each species are the earliest and latest dates of capture. The year of capture is 1959 unless otherwise indicated except for those records taken from the literature. The literature records from the Mount Desert Survey are listed with a (P), for Procter, following the locality and date. Similarly, other literature records are listed with a (B) for Betten (1934), an (F) for Flint (1960), an (R) for Ross (1944) or (W) for Wiggins (1960). The present survey was made possible through the cooperation of the Maine Forest Service through Dr. A. E. Brower, Augusta, Maine.

The approximate number of specimens examined was 27,000. These include 13 families, 53 genera and over 170 species. If the Hydroptilidae are included, the total number of species now known from Maine is over 220. In view of the New Hampshire records, the total number of species in Maine should be well over 300.

Family PHILOPTAMIDAE

Genus CHIMARRA Stephens 1829

- aterrima** Hagen Bubble Brook (P). Bar Harbor (P). Long Pond (P). Seal Cove (P) St. Francis, Aug. 4. Tim Pond, July 23. Topsfield, July 9. Maine (R).
obscura (Walker) Baker Lake, July 5. East Machias, Aug. 1. Guerette, July 8-23. Kellyland, July 24-30. Oquossoc, July 31. Oxbow, Aug. 4. Round Pond (T13 R12), July 24-28. Waldoboro, May 29-June 5 (B). Maine (R).

socia Hagen Allagash, July 6-Aug. 8. Guerette, July 13. Kellyland, July 24-30. Oquossoc, July 17-Aug. 4. Oxbow, Aug. 4. Round Pond, July 13-26. St. Francis, July 5. Tramway, Aug. 3. T9 R5 (near Oxbow), July 15. Maine (R).

Genus SORTOSA Navas 1918

Subgenus DOLOPHILOIDES Ulmer 1909

distincta (Walker) Allagash, July 5-Aug. 1. Corfield, Aug. 3 (P). Dennistown, July 14-25. Duck Brook, July 30 (P). Kellyland, July 24. Oquossoc, July 17-Aug. 4; Aug. 17, 1965. Oxbow, July 6. Round Pond, July 28. St. Francis, July 5. Tim Pond, July 23. Topsfield, July 9, 1961. T9 R5, Aug. 4. Maine (R).

Genus WORMALDIA McLachlan 1865

moesta (Banks) Allagash, July 10. Bar Harbor, Aug. 12 (P). Breakwater Brook (P). Bubble Brook, June 14-23 (P). Oxbow, July 6. Witch Hole (P). Somes Sound Inlet (P).

Family GLOSSOSOMATIDAE

Genus AGAPETUS Curtis 1834

hessi Leonard and Leonard Allagash, July 10-13. Topsfield, July 9, 1961. Guerette, July 8-9.
iridus Ross Topsfield, July 9, 1961.
pinatus Ross Allagash, July 5-Aug. 2. Dennistown, July 25. Jim Pond, Aug. 3. Oquossoc, Aug. 4.
sp. Allagash, July 14-Aug. 1. Baker Lake, July 5. Dennistown, July 22-24. Guerette, July 8-13. Jim Pond, July 11. Oquossoc, July 25-Aug. 4.

Genus GLOSSOSOMA Curtis 1834

lividum (Hagen) Allagash, July 8-Aug. 2. Dennistown, July 19. Guerette, July 8-9. Oxbow, July 6. Round Pond, July 13-28. T9 R5, July 14, 1965.
sp. Allagash, July 6-30. Baker Lake, July 5. Dennistown, July 22-25. Guerette, July 8-31. Oquossoc, July 4. Round Pond, July 24.

Genus PROTOPTILA Banks 1904

cantha Ross Allagash, July 14. Kingfield, Aug. 13, 1964.
maculata (Hagen) Allagash, July 10-30. Dennistown, July 17, 1961. Guerette, July 8-13.
palina Ross Allagash, July 14-27. Dennistown, July 25. Guerette, July 23.
sp. Guerette, July 9-31.

Family RHYACOPHILIDAE

Genus RHYACOPHILA Pictet 1834

carolina Banks Topsfield, July 9, 1961.
fuscula (Walker) St. Francis, July 1. Mt. Desert (P). Maine (R).
glaberrima Ulmer Mt. Desert (P).
invaria (Walker) Mt. Desert (P).
mainensis Banks Moosehead, July 18 (B). Unidentified ♀ Maine (R).
melitta Ross Allagash, July 5-10. Guerette, July 8-13.
torva Hagen Mt. Desert (P).
sp. Allagash, July 6-8. Baker Lake, July 5.

Family PSYCHOMYIIDAE

Genus LYPE McLachlan 1879

diversa (Banks) Allagash, July 5. Dennistown, July 14-25. Jim Pond, July 11. Oquossoc, July 11-31; Aug. 17, 1965. Tim Pond, July 8.

Genus **PHYLOCENTROPUS** Banks 1907

- carolinus** Carpenter Guerette, July 8-31. Oquossoc, July 17-20.
hansoni Root Lower Cupsuptic, July 5. Oquossoc, July 20-28.
lucidus (Hagen) Bar Harbor, July 17-30 (P). East Machias, July 7-Aug. 1.
 Echo Lake (P). Guerette, July 23. Hunter Beach Brook, June 19 (P).
 Topsfield, July 9, 1961. T9 R5, July 12-15, 1965.
placidus (Banks) Allagash, July 5-10. Baker Lake, July 5. Chesuncook, Aug.
 7-9. East Machias, July 10-Aug. 5. Guerette, July 8-23. Jim Pond, July 11-
 30. Kellyland, July 24-30. Lower Cupsuptic, July 5. Mt. Desert, June 28
 (P). Oquossoc, July 6-Aug. 4. Oxbow, Aug. 4. Round Pond, July 13-18.
 Tim Pond, July 8-28. Tramway, Aug. 3. Topsfield, July 9, 1961. T9 R5,
 June 15, 1965. Maine (R).

Genus **POLYCENTROPUS** Curtis 1835

- albipunctus** (Banks) Bar Harbor, July 6-7, 18 (P). Dennistown, July 22.
 Guerette, July 8-23. Jim Pond, July 11. Kellyland, July 24. Oquossoc,
 July 28. Oxbow, Aug. 4. Tim Pond, July 23.
aureolus (Banks) Allagash, July 29. East Machias, July 10-20. Jim Pond,
 July 30-Aug. 5. Oquossoc, July 30. Round Pond, July 13-18. Tim Pond,
 July 8-Aug. 5. Topsfield, July 9, 1961.
cinereus (Hagen) Allagash, July 5-Aug. 2. Baker Lake, July 5-Aug. 4. Bar
 Harbor, June 28 (P). Chesuncook, Aug. 5-9. Dennistown, July 17-24.
 East Machias, July 10-Aug. 1. Guerette, July 8-Aug. 2. Jim Pond, July 30-
 Aug. 5. Kellyland, July 24-30. Lower Cupsuptic, July 5. Oquossoc, July 17-
 Aug. 4. Oxbow, July 6-Aug. 4. Pittston Farm, July 29. Round Pond,
 July 24-28; Aug. 5, 1965. Tim Pond, July 8-Aug. 5. Topsfield, July 9, 1961.
 Tramway, Aug. 3. T8 R19, July 12, 1962. T9 R5, July 12-15, 1965. Maine
 (R).
confusus Hagen Allagash, July 10. Baker Lake, July 5. Bar Harbor, July 21
 (P). East Machias, July 19-Aug. 1. Guerette, July 8-23. T9 R5, July 14,
 1965.
crassicornis Walker Bar Harbor, July 7 (P). Chesuncook, Aug. 7. Corfield,
 Aug. 15 (P). East Machias, July 20. Sea Wall Bog, June 12 (P).
flavus (Banks) Allagash, July 6-24. Baker Lake, July 5. Dennistown, July 2.
 East Machias, July 10-Aug. 1. Guerette, July 8-9. Kellyland, July 25. Lower
 Cupsuptic, July 5. Oquossoc, July 20-31. Oxbow, July 6. Pittston Farm,
 July 29. Round Pond, July 28. Topsfield, July 9, 1961. T9 R5, July 12,
 1965.
interruptus (Banks) Allagash, July 8-27. Dennistown, July 15-17. East Machias,
 July 8-20. Guerette, July 8-9. Oquossoc, July 16-Aug. 4. Oxbow, July 6-19.
 St. Francis, July 1. S. W. Harbor, June 20 (P). T8 R19, July 12, 1962. T9 R5,
 July 12-15, 1965.
maculatus Banks Oxbow, July 6. Round Pond, July 24. T9 R5, July 12, 1965.
pentus Ross Oxbow, July 6-Aug. 4. T9 R5, July 12-15. 1965.
remotus Banks Allagash, July 24-27. Baker Lake, July 5-Aug. 4. Dennistown,
 July 14-22. East Machias, July 10-20. Guerette, July 8-Aug. 2. Jim Pond,
 July 11-Aug. 3. Kellyland, July 24-30. Oquossoc, July 17-Aug. 4; Aug. 17,
 1965. Oxbow, July 6-Aug. 4. Round Pond, July 28. St. Francis, Aug. 4.
 Tim Pond, July 8-Aug. 5. Tramway, Aug. 3. T9 R5, July 12-15, 1965.
weedi Blickle and Morse Kellyland, July 24-28. Oxbow, July 6. Topsfield,
 July 9, 1961.
sp. Guerette, July 13. Jim Pond, July 11. Oquossoc, Aug. 4. Round Pond,
 July 24. Tim Pond, July 23.

Genus **PSYCHOMYIA** Pictet 1834

- flavida** Hagen Allagash, July 5-30. Dennistown, July 14-19. Guerette, July 23.
 Lower Cupsuptic, July 5. Oquossoc, July 20. Oxbow, July 6.
nomada (Ross) Allagash, July 8-Aug. 1.
sp. ♀♀ Allagash, Aug. 1. Baker Lake, July 5. Dennistown, July 22-Aug. 17.
 Guerette, July 8-11. Jim Pond, July 11. Pittston Farm, July 29. Round
 Pond, July 24.

Genus NEURECLEPSIS McLachlan 1864

- bimaculatus** (Linne) Allagash, July 5-10. Jim Pond, July 11. Kellyland, July 24-30. Maine (R).
crepuscularis (Walker) Allagash, July 5-Aug. 1. Guerette, July 8-Aug. 2. Jim Pond, July 11. Kellyland, July 24-28. Oquossoc, Aug. 4. Oxbow, Aug. 4. Maine (R).

Genus NYCTIOPHYLAX Brauer 1865

- uncus** Ross Baker Lake, July 5. East Machias, Aug. 5. Guerette, July 5-31. Jim Pond, July 11. Kellyland, July 24-26. Tim Pond, July 23-27. Topsfield, July 9, 1961.
vestitus (Hagen) Allagash, July 5-Aug. 2. Baker Lake, July 5-Aug. 4. Chesuncook, Aug. 7. Corfield, June 18-Aug. 10 (P). Dennistown, July 14-28. East Machias, July 10-Aug. 5. Guerette, July 8-Aug. 2. Jim Pond, July 8-Aug. 3. Kellyland, July 24-30. Oquossoc, July 17-Aug. 4. Oxbow, July 6-Aug. 4. Pittston Farm, July 29. Round Pond, July 13-28. St. Francis, July 1-5. Tim Pond, July 8-Aug. 5. Topsfield, July 9, 1961. T9 R5, July 15, 1965.

Genus CERNOTINA Ross 1938

- spicata** Ross Maine (R).

FAMILY HYDROPSYCHIDAE**Genus PARAPSYCHE Betten 1934**

- apicalis** (Banks) Long Pond, July 16 (P). Round Pond, July 13. Tim Pond, Aug. 5.

Genus HYDROPSYCHE Pictet 1834

- betteni** Ross East Machias, July 8. Oxbow, Aug. 4. Topsfield, July 9, 1961.
bronta Ross Oquossoc, Aug. 4. T8 R19, July 12, 1962. T9 R5, July 15, 1965.
cockerelli Banks Kellyland, July 26-30.
morosa Hagen Allagash, July 6-Aug. 1. Baker Lake, July 5-Aug. 4. Dennistown, July 18, 1961. Guerette, July 11-Aug. 2. Kellyland, July 24-30. Lower Cupsuptic, July 5. Oquossoc, July 30-Aug. 4. Oxbow, July 6-19. Round Pond, July 13. St. Francis, July 1-5. T9 R5, July 12-15, 1965.
recurvata Banks Baker Lake, July 5-Aug. 4. Kellyland, July 24-28.
scalaris Hagen Allagash, July 8-10. Kellyland, July 26-30. Guerette, July 8.
slossonae Banks Allagash, July 30. Kellyland, July 26-30.
sparna Ross East Machias, Aug. 1. Topsfield, July 9, 1961.
ventura Ross Oxbow, July 6. Topsfield, July 9, 1961.
vexa Ross Allagash, July 10.
walkeri Betten and Mosely Allagash, July 6-30. Oxbow, July 6-Aug. 4.
sp. Allagash, July 5-30. Baker Lake, July 5-Aug. 4. Chesuncook, Aug. 9. East Machias, July 19-20. Dennistown, July 14. Guerette, July 8-Aug. 2. Jim Pond, July 11-30. Kellyland, July 24-30. Oquossoc, July 20-31. Oxbow, July 6. Pittston Farm, July 29. Round Pond, July 28. St. Francis, July 5. Tim Pond, July 27.

Genus CHEUMATOPSYCHE Wallengren 1891

- analis** (Banks) Allagash, July 10. Bar Harbor, June 22 (P). Oquossoc, July 17-28.
campyla Ross Baker Lake, July 5-Aug. 8. Guerette, July 8-Aug. 2. Kellyland, July 24-30.
ela Denning Allagash, July 10.
near gracilis (Banks) Allagash, July 8-30. Guerette, July 9-13. Oquossoc, Aug. 17, 1965.
helma Ross Allagash, July 8-30. Baker Lake, July 5. Guerette, July 8. Round Pond, July 13.
minusculus (Banks) Allagash, July 5-Aug. 1. Baker Lake, July 5-Aug. 1. East Machias, July 19-20. Guerette, July 8-23. Kellyland, July 24-30. Oxbow, July 6-Aug. 4. Round Pond, July 13-28. T13 R12, Aug. 6, 1965.

- pasella** Ross Allagash, July 8-10. Gardiner, June 3, 1963 (A. E. Brower). Guerette, July 23. Oquossoc, July 20-Aug. 4. T8 R19, July 12, 1962.
- pinaca** Ross Dennistown, July 28.
- sordida** (Hagen) Allagash, July 5-Aug. 1. Guerette, July 8. Oquossoc, July 30. St. Francis, July 5.
- n. sp.** 2 ♂ Allagash, July 10.
- sp.** Many records from Allagash, Baker Lake, Chesuncook, Dennistown, East Machias, Guerette, Lower Cupsuptic, Kellyland, Oquossoc, Oxbow, Pittston Farm, Round Pond, St. Francis, dating from July 6-Aug. 2.

Genus MACRONEMUM Burmeister 1839

- zebratum** (Hagen) Kellyland, July 24-30. Maine (R).

Family PHRYGANEIDAE

Genus BANKSIOLA Martynov 1924

- concatenata** (Walker) Jim Pond, July 30.
- crotchi** Banks Allagash, July 6-10. Dennistown, July 17, 1961. Guerette, July 23. Jim Pond, July 11. Kellyland, July 24-26. Oxbow, July 8. Penikese, June 14-July 15 (P). Tim Pond, July 8-Aug. 5. T8 R19, July 11, 1962. T9 R5, July 12-14, 1965.
- dossuaria** (Say) Allagash, July 6-8. Baker Lake, July 5. Dennistown, July 17-19. East Machias, July 10. Guerette, July 13-23. Jim Pond, July 11. N. E. Harbor, July 1 (P). Oquossoc, July 19. Tim Pond, July 27. Topsfield, July 9, 1961. T8 R19, July 12, 1962.
- smithi** (Banks) Jim Pond, July 11. Mt. Desert, July 28 (P). Oxbow, July 8.

Genus HAGENELLA Martynov 1924

- canadensis** (Banks) Corfield (P). East Machias, July 8-20. Kellyland, July 24-26. Round Pond, July 13. S. W. Harbor (P). T8 R19, July 12, 1962.

Genus AGRYPNIA Curtis 1835

- improba** (Hagen) Allagash, July 8. Bar Harbor, July 1 (P). Dennistown, July 18, 1961. Eustis, June 25. Guerette, July 13. Jim Pond, July 11. Oxbow, July 8. T9 R5, July 15, 1965. Maine (Banks, 1943).
- straminea** Hagen Guerette, July 23.
- vestita** (Walker) Guerette, Aug. 2. Jim Pond, July 11. Mt. Desert, Aug. (P). Maine (W).
- sp.** Guerette, July 31. Jim Pond, July 11.

Genus PHRYGANEIA Linnaeus 1758

- cinerea** Walker Allagash, July 5. Baker Lake, July 5. Chesuncook, Aug. 5. Dennistown, July 18. East Machias, July 19-Aug. 5. Guerette, July 8-23. Kellyland, July 26. N. E. Harbor, Aug. 24 (P). Round Pond, July 13. Tramway, Aug. 3. Maine (B), (W).
- sayi** Milne Penikese, July 21 (P). Maine (W).

Genus PTILOSTOMIS Kolenati 1859

- ocellifera** (Walker) Allagash, July 10. Dennistown, July 18, 1961. East Machias, July 10. Round Pond, July 24-28. Tramway, Aug. 3.
- postica** (Walker) Mt. Desert (P).
- semifasciata** (Say) Allagash, July 13. Corfield (P). East Machias, Aug. 5. Guerette, July 13-23. Penikese (P). S. W. Harbor (P).

Family LIMNEPHILIDAE

Genus ONOCOSMOECUS Banks 1943

- quadrinotatus** Banks Mt. Katahdin (F).

Genus APATANIA Kolenatic 1848

- stigmatica** (Zetterstedt) Mt. Desert (P).

Genus PLATYCENTROPUS Ulmer 1905

- indistinctus** (Walker) Round Pond, Aug. 6, 1965. Topsfield, July 19, 1961. T9 R5, July 16, 1965.
radiatus (Say) Corfield and Penikese (P). Kellyland, July 30. Oquossoc, July 31. Tim Pond, July 28. Topsfield, July 9, 1961.

Genus NEMOTAULIUS Banks 1906

- hostilis** (Hagen) Allagash, July 6. Chesuncook, Aug. 9. East Machias, July 19. Guerette, July 8. Oquossoc, July 31. Penikese, June 1-Aug. 8 (P). T9 R5, July 12, 1965.

Genus HYDATOPHYLAX Wallengren 1891

- argus** (Harris) Dennistown, July 18, 1961. Guerette, July 13. Mt. Desert Survey, p. 210 (P). Maine (R).
victor Banks Round Mt., July 15, 16, 17 (Types) (Banks, Psyche 1950). St. Francis, July 1.

Genus HESPEROPHYLAX Banks 1916

- designatus** (Walker) Mt. Katahdin, Aug. (Banks, 1943), (F).

Genus LIMNEPHILUS Leach 1815

- canadensis** Banks Maine (B). Maine (Schmid, 1955).
externus Hagen Oquossoc, Aug. 4. Tim Pond, Aug. 5. Ireson Hill Pond (P). Maine (R. & M., 1952).
hyalinus Hagen Baker Lake, Aug. 4. East Machias, July 10-Aug. 5. Oquossoc, July 31-Aug. 4. Pittston Farm, July 29. Round Pond, July 13. Tim Pond, July 28-Aug. 5. Tramway, Aug. 3.
indivisus Walker Maine (B).
janus Ross Allagash, July 5.
moestus Banks Allagash, July 5-30. Baker Lake, July 5-Aug. 4. Corfield (P). Dennistown, July 14. Eden (P). East Machias, July 8-Aug. 1. Guerette, July 8-23. Kellyland, July 24-28. Jim Pond, July 11-Aug. 3. Oquossoc, July 23-Aug. 4. Oxbow, July 6-7. Round Pond, July 24-28. Topsfield, July 9, 1961. T9 R5, July 12-15, 1965. Various localities on Mt. Desert (P).
ornatus Banks Allagash, July 6-30. Baker Lake, July 5. Corfield (P). East Machias, July 8-Aug. 5. Guerette, July 8-Aug. 2. Jim Pond, July 11. Oquossoc, July 31. Oxbow, July 8. Penikese (P). Round Pond, July 13-28. Tim Pond, July 27. Topsfield, July 9, 1961. T9 R5, July 15, 1965. Maine (R). Maine (B).
parvulus Banks No date, locality; Maine.
partitus Walker Eagle Lake (Banks, 1943).
rhombicus (Linne) Allagash, July 6. Maine (R), Maine (B).
sericeus (Say) Baker Lake, Aug. 4. Jim Pond, July 30. Oquossoc, July 24-Aug. 4. Round Pond, July 28. Topsfield, July 9, 1961. T8 R19, July 12, 1962. Maine (F).
sublunatus Provancher Orono (B).
submonilifer Walker Corfield (P). East Machias, July 19. Jim Pond, July 30. Mt. Katahdin, July 4, 1958 (A. E. Brower). Penikese (P). Maine (R). Maine (B).

Genus ANABOLIA Stephens 1837

- bimaculata** (Walker) Allagash, July 13. Chesuncook, Aug. 9. Dennistown, July 18, 1961. East Machias, July 8-Aug. 5. Guerette, July 13. Jim Pond, July 11. Pittston Farm, July 29. Round Pond, July 13-28. Tim Pond, July 27-Aug. 5.
consocia (Walker) Guerette, July 23. Round Pond, July 24. Mt. Desert (P). Maine (R).
ozburni (Milne) Topsfield, July 9, 1961.
sordida Hagen Tim Pond, July 23.

Genus ASYNARCHUS McLachlan 1880

- curtus* (Banks) T9 R5, July 15, 1965. Maine (F).
lapponicus Zett. Jim Pond, Aug. 3.
montanus Banks Mt. Katahdin (B).

Genus PYCNOPSYCHE Banks 1905

- aglona* Ross Norway (Betten, 1950).
circularis Provancher Mt. Desert, Aug. 28 (P). Maine (Betten, 1950).
gentilis McLachlan N. E. Harbor, Aug. 13 (P). Orono, July (Banks, 1943).
 Maine (Betten, 1950).
guttifer Walker Mt. Desert Region, Sept. 3-Oct. 6 (P). Maine (Betten, 1950).
lepida (Hagen) Allagash, July 5-Aug. 1. Oquossoc, Aug. 4.
limbata (McLachlan) Bar Harbor, Sept. 17-Nov. 5 (P). Oquossoc, Aug. 4.
luculenta (Betten) Bar Harbor, Sept. 23 (P). Maine (Betten, 1950).
scabripennis (Rambur) Mt. Desert Region, Aug. 27-Sept. 23 (P). Allagash,
 July 6-8. Jim Pond, July 11. St. Francis, July 1-5.

Genus IRONOQUIA Banks 1916

- lyrata* Ross Bar Harbor (P).
punctatissima (Walker) Mt. Desert (P). Maine (B).

Genus FRENESIA Betten and Mosely 1940

- difficilis* (Walker) Bar Harbor (P). Calais, Nov. 7, 1963. Cutler, Nov. 12, 1963.
missa (Milne) Augusta, Nov. 15, 1958. Bar Harbor, Nov. 7 (P). Calais, Nov. 7,
 1963. Cutler, Nov. 12, 1963. East Machias, Nov. 8, 1963.

Genus GLYPHOPSYCHE Banks 1904

- irrorata* (Fabricius) Calais, Nov. 7, 1963. Maine (B).

Genus PSYCHOGLYPHA Ross 1944

- alaskensis* (Banks) Calais, Nov. 7. Millinocket (F).

Genus PSEUDOSTENOPHYLAX Martynov 1909

- sparsus* (Banks) Mt. Desert (P).
uniformis (Betten) St. Francis, July 5.
virginicus (Banks) Guerette, July 9.

Genus NEOPHYLAX McLachlan 1871

- concinus* McLachlan Mt. Desert (P).
oligius Ross Albion, July 24. Oquossoc, Aug. 4.

Genus GOERA Curtis 1834

- calcarata* Banks Allagash, July 5-29. Pittston Farm, July 9. Round Pond, July
 28.
sp. Baker Lake, July 5.

Family MOLANNIDAE**Genus MOLANNA Curtis 1834**

- musetta* Betten Allagash, July 8-Aug. 1. Baker Lake, July 5-Aug. 4. Chesun-
 cook, Aug. 5-9. East Machias, July 10-Aug. 1. Guerette, July 8-23. Jim Pond,
 July 11-Aug. 3. Kellyland, July 26-30. Oquossoc, July 20. Round Pond,
 July 13-28. Tim Pond, July 23-Aug. 5. Topsfield, July 9, 1961. Tramway,
 Aug. 3. T8 R19, July 12, 1962. Round Pond, Aug. 5, 1965.
tryphena Betten Baker Lake, Aug. 4. East Machias, July 20. Guerette, July 8-
 Aug. 4. Kellyland, July 24. T9 R5, July 15, 1965.

Family **LEPTOCERIDAE**Genus **LEPTOCERUS** Leach 1815*americanus* (Banks) Oquossoc, July 19.Genus **LEPTOCELLA** Banks 1899

- exquisita* (Walker) Baker Lake, July 5. Guerette, July 8-22. Jim Pond, July 11. Long Pond, June 20 (P). Millinocket, July 10. Oquossoc, Aug. 4. Tim Pond, July 25. Topsfield, July 9, 1961. Maine (R).
- pavida* (Hagen) Kellyland, July 26. Round Pond, July 31-Aug. 6. Toad Hole, July 26 (P). Tramway, Aug. 3.

Genus **ATHRIPSOIDES** Billberg 1820

- alagmus* Ross East Machias, Aug. 1-5. Guerette, July 23-Aug. 2. Pittston Farm, July 29.
- alces* Ross Kellyland, July 30.
- ancylus* (Vorhies) Guerette, July 8-23. Round Pond, July 13.
- angustus* (Banks) Baker Lake, Aug. 4. East Machias, July 8. Guerette, July 23. Kellyland, July 28-30. Oquossoc, July 23. Oxbow, Aug. 4. Tim Pond, July 28. Tramway, Aug. 3. T9 R5, July 15, 1965. Maine (R).
- annulicornis* (Stephens) Dennistown, July 14.
- cancellatus* (Betten) Allagash, July 30. Chesuncook, Aug. 5. East Machias, July 8-Aug. 1. Guerette, July 8-23. Kellyland, July 30. Oxbow, July 6-Aug. 4. Tim Pond, July 23-25. Tramway, Aug. 3.
- dilutus* (Hagen) Allagash, July 5-Aug 1. Baker Lake, July 5. East Machias, July 5-Aug. 5. Guerette, July 8-23. Jim Pond, July 11. Kellyland, July 24-30. Oquossoc, July 20. Oxbow, July 6. Round Pond, July 24-28. Tim Pond, July 23. Topsfield, July 9, 1961. T9 R5, July 12-15, 1965.
- near ophioderus* Ross Allagash, July 24-27. Guerette, July 11-Aug. 2. Kellyland, July 24-30. Round Pond, July 28.
- punctatus* (Banks) Baker Lake, Aug. 4. East Machias, Aug. 1. Kellyland, July 26-30. Round Pond, July 28. Tramway, Aug. 3.
- resurgens* (Walker) Baker Lake, July 5. Kellyland, July 26. Oquossoc, Aug. 4.
- near scopulosus* Leonard & Leonard Kingfield, Aug. 12, 1964.
- tarsi-punctatus* (Vorhies) Allagash, July 26. Chesuncook, Aug. 9. East Machias, Aug. 5. Guerette, July 11-31. Jim Pond, Aug. 3. Kellyland, July 26-30. Oquossoc, July 26-Aug. 4; Aug. 17, 1965. Round Pond, July 28; Aug. 6, 1965. Tim Pond, July 23-Aug. 5. Topsfield, July 9, 1961. Tramway, Aug. 3. T8 R19, July 12, 1962.
- transversus* (Hagen) Allagash, July 10. Chesuncook, Aug. 9. East Machias, July 10-Aug. 5. Guerette, July 23. Mt. Desert (P). Oquossoc, Aug. 4. Round Pond, July 28; Aug. 6, 1965. Tim Pond, July 23-25.

Genus **OECETIS** McLachlan 1877

- avara* (Banks) Allagash, July 8-Aug. 1. Baker Lake, Aug. 4. East Machias, July 8-10. Guerette, July 8-Aug. 4. Oquossoc, July 19. Round Pond, July 28-Aug. 6. Tramway, Aug. 3.
- cinerascens* (Hagen) Bar Harbor (P). Guerette, July 23-Aug. 2. Kellyland, July 26-30. Oxbow, Aug. 4. Penikese (P). Round Pond, July 13-28; Aug. 5-6, 1965. Maine (R).
- immobilis* (Hagen) Guerette, July 23-Aug. 2. Oquossoc, July 19-Aug. 4. Round Pond, Aug. 5-6, 1965. Tramway, Aug. 3, 1965.
- inconspicua* (Walker) Allagash, July 8-30. Baker Lake, July 5-Aug. 7. Chesuncook, Aug. 7-9. Dennistown, July 14; July 18, 1961. East Machias, July 10-Aug. 5. Guerette, July 8-Aug. 2. Jim Pond, July 11-Aug. 3. Kellyland, July 24-30. Tim Pond, July 8-Aug. 5. Topsfield, July 9, 1961. Tramway, Aug. 3. T9 R5, July 12-15, 1965. T13 R12, Aug. 5-6, 1965. Mt. Desert (P). Maine (R).
- osteni* Milne Corfield, Sept. 8 (P). East Machias, July 10-20. Guerette, July 11-31. Oxbow, July 6. Round Pond, July 28. Tim Pond, July 8-27.
- persimilis* (Banks) Chesuncook, Aug. 7. East Machias, July 10. Guerette, July 7-Aug. 2. Kellyland, July 24-30. Mt. Desert (P).

Genus TRIANODES McLachlan 1865

- aba** Milne East Machias, July 19-Aug. 5. Kellyland, July 26.
baris Ross Allagash, July 5-10. Dennistown, July 14-22. East Machias, July 10-Aug. 1. Guerette, July 8-Aug. 2. Kellyland, July 26-30. Jim Pond, July 11-Aug. 3. Oquossoc, July 20. Tim Pond, July 8-28. Tramway, Aug. 3. T9 R5, July 15, 1965.
flavescens Banks Mt. Desert (P).
ignita (Walker) Guerette, July 11. Mt. Desert, Old Beaver Dam, Apr. 21 (P).
injusta (Hagen) Allagash, July 10. Guerette, July 8-11. East Machias, July 10. Oquossoc, Aug. 4. Oxbow, July 8. Round Pond, July 13-28; Aug. 6, 1965. Tim Pond, July 25. Topsfield, July 9, 1961.
nox Ross East Machias, July 19-20.
tarda Milne East Machias, July 19-20. Round Pond, Aug. 6, 1965.

Genus MYSTACIDES Berthold 1827

- longicornis** (Linne) Chesuncook, Aug. 5-9. Guerette, July 23-Aug. 2. Tramway, Aug. 3.
sepulcharis (Walker) Allagash, July 10-30. Baker Lake, July 5. Guerette, July 2-31. Jim Pond, Aug. 3. Mt. Desert (P). Oquossoc, July 31. Round Pond, Aug. 5-6, 1965. Tim Pond, July 25. Topsfield, July 9, 1961. T9 R5, July 12, 1965. Maine (R).

Genus SETODES Rambur 1842

- incerta** (Walker) Allagash, July 5-Aug. 8. Guerette, July 8-Aug. 2. Oquossoc, July 23-Aug. 4. Round Pond, Aug. 5, 1965. T8 R19, July 12, 1962.
oligia Ross Allagash, July 10-13. Guerette, July 8-13.

Family LEPIDOSTOMATIDAE**Genus LEPIDOSTOMA Rambur 1842**

- americanum** (Banks) Bar Harbor (P). Dennistown, July 28. Tim Pond, July 23-28.
bryanti (Banks) Allagash, July 13. Topsfield, July 9, 1961.
carrolli Flint Sunset, Deer Isle: Aug. 19-26. (Flint and Wiggins, 1961).
costalis (Banks) Allagash, July 6-10. Dennistown, July 15. Jim Pond, July 30-Aug. 3. Oxbow, July 6. Tim Pond, July 28-Aug. 5.
frosti (Milne) Maine (Flint and Wiggins, 1961).
griseum (Banks) Maine (Flint and Wiggins, 1961).
ontario Ross Allagash, July 24. Lower Cupsuptic, July 5. Oquossoc, July 17-25. St. Francis, July 1-5.
sackeni (Banks) Allagash, Aug. 1. Dennistown, July 22-25. Jim Pond, July 30-Aug. 3. Oquossoc, Aug. 4. Oxbow, Aug. 4. Tim Pond, July 23-Aug. 5.
togatium (Hagen) Allagash, July 5-Aug. 2. East Machias, July 10-Aug. 1. Guerette, July 9-23. Lower Cupsuptic, July 5. Jim Pond, July 11-Aug. 3. Kellyland, July 24-28. Mt. Desert (P). Oquossoc, July 19-Aug. 4. Oxbow, July 6-Aug. 4. Round Pond, July 13. Tim Pond, July 8-28. Topsfield, July 9, 1961. T9 R5, July 15, 1965.

Family BRACHYCENTRIDAE**Genus MICRASEMA McLachlan 1876**

- rusticum** (Hagen) Allagash, July 10.
wataga Ross Allagash, July 5-Aug. 2. East Machias, July 8-Aug. 1. Kellyland, July 26-30.

Family SERICOSTOMATIDAE**Genus SERICOSTOMA Berthold 1827**

- distinctum** (Ulmer) East Machias, July 8-20. Guerette, July 8-23. Kellyland, July 24-30. Round Pond, July 13. T9 R5, July 15, 1965. Maine (B).

Family **HELICOPSYCHIDAE**Genus **HELICOPSYCHE** Hagen 1866

borealis (Hagen) Allagash, July 5-Aug. 1. Baker Lake, July 5. East Machias, July 20-Aug. 1. Guerette, July 11-23. Jim Pond, July 11. Mt. Desert (P). Tim Pond, July 23-25. T8 R19, July 12, 1962.

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