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**LIST OF THE LEPIDOPTERA OF BLACK STURGEON LAKE,
NORTHWESTERN ONTARIO,
AND DATES OF ADULT OCCURRENCE**

C.J. Sanders¹

ABSTRACT

From May to September each year from 1960 through 1968, a collection of Lepidoptera was made at Black Sturgeon Lake, northwestern Ontario, from specimens captured in a light trap and from specimens netted during the day. A total of 564 species was recorded from 70 families. A list of the species with dates of capture is presented.

From 1960 through 1968, a 15-watt black-light trap was operated each year at a Forestry Canada field station at Black Sturgeon Lake, northwestern Ontario. The trapping program was initiated by R.E. Fye in 1960 and was taken over by C.J. Sanders in 1965. Each year from 1960 through 1968, the light trap was set up when the station was opened in early May and it was operated continually until the station was closed in mid-to late September. In 1969 the research program at the Black Sturgeon Lake field station was curtailed, and operation of the light trap was discontinued.

Black Sturgeon Lake is located about 100 km from the northwestern shore of Lake Superior, 110 km northeast of Thunder Bay at latitude 49°20'N, longitude 88°54'W, at an altitude of 250 m, in the Superior (B9) Boreal Forest Region of Rowe (1972) (Fig. 1). The corresponding Universal Transverse Mercator coordinates are 16 36 546. The physical, environmental and vegetational characteristics of the study site have been described by Lethiecq and Régnière (1988). The site lies in the Black Sturgeon District of the Lake Nipigon Site Region, which is characterized by: "Flat topped basaltic ridges with deeper deposits—(i) granitic and clay forming sand, (ii) silt, and (iii) limy clay, in the depressions." (Hills 1959). The vegetation is boreal mixedwood, composed of fairly uniform stands of balsam fir (*Abies balsamea*), white spruce (*Picea glauca*), black spruce (*P. mariana*), white birch (*Betula papyrifera*), and trembling aspen (*Populus tremuloides*). Understorey species include hazel (*Corylus cornuta*), alders (both *Alnus crispa* and *A. rugosa*), and mountain maple (*Acer spicatum*).

Continuous weather records are not available for the Black Sturgeon Lake area, so instead information is presented for Cameron Falls, which is 42 km to the southeast of Black Sturgeon Lake (49°09'N, 88°21'W, 229 m altitude), at the southern end of Lake Nipigon (Anon. 1980). The mean annual air temperature is 1.7°C. The mean low temperature for January is -16.6°C, with the lowest recorded temperature -46.1°C. The mean high for July is 17.0°C, with the highest temperature recorded 38.9°C. The mean annual rainfall is 559.1 mm, and the snowfall 233.6 cm.

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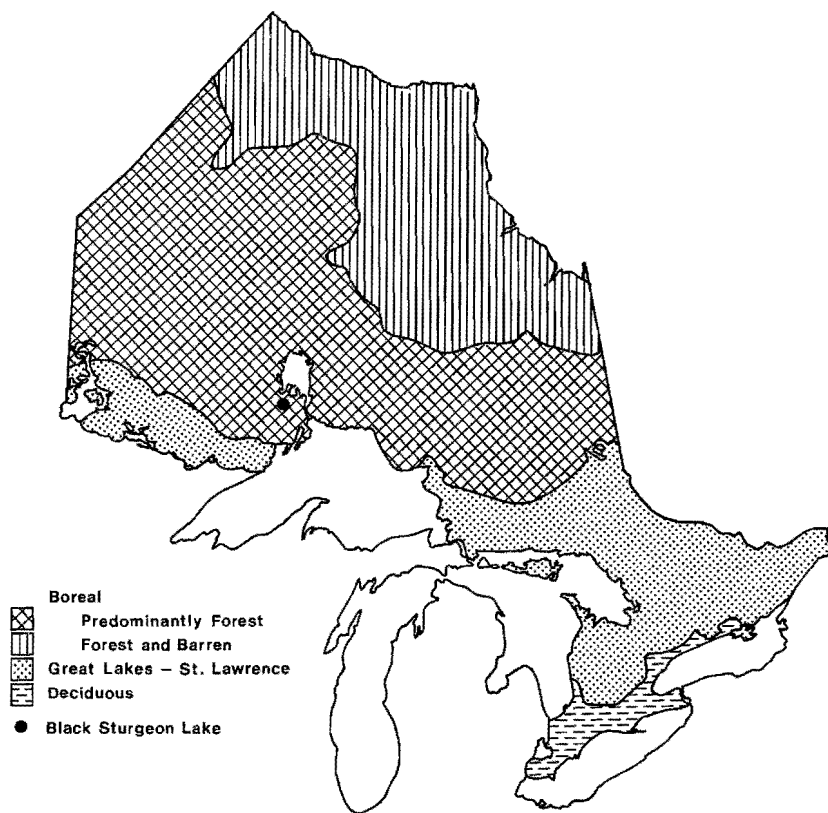


Figure 1. Map of Ontario, showing location of Black Sturgeon Lake and boundaries of Forest Regions (Rowe 1972).

The primary purpose of the light trap was to monitor the numbers of pest species such as spruce budworm (*Choristoneura fumiferana* [Clem.]), jack pine budworm (*C. pinus pinus* Free.) and forest tent caterpillar (*Malacosoma disstria* Hbn.), but the opportunity was taken to assemble a collection representative of the Lepidoptera in the area. The contents of the light trap were examined each morning, and representative specimens of each species were collected. Particular attention was paid to obtaining the first specimens that were captured in the light trap each year. Additional specimens of each species were collected thereafter throughout the flight period, but no attempt was made to collect them in proportion to the numbers that were collected in the trap. The collection is therefore an indication of the period over which the insects were captured, and is not an indication of their abundance. In addition to the light-trap material, specimens of day-flying Lepidoptera were collected by net.

All collected specimens were pinned and spread, and then sent for identification to the Biosystematics Research Centre (Agriculture Canada, Ottawa, Ontario, Canada) or, after a reference collection had been assembled, identifications were made by comparing specimens with the previously identified voucher specimens. Repre-

sentative specimens have been retained in the Canadian National Collection, in the collection of the Forest Insect and Disease Survey (Forestry Canada, Ontario Region, Sault Ste. Marie, Ontario) and in the personal collection of the author. Insects in the following listing are catalogued according to Hodges et al. (1983). Nomenclature has not been updated beyond that of Hodges et al. with the following two exceptions: *Anavitrinella* (checklist #6590) is incorrectly spelled by Hodges et al. and has been corrected to *Anavitrinella* (e.g., McGuffin 1977). *Cydia youngana* (Kft.) (checklist # 3466) is now considered to be a junior synonym of *C. strobilella* (L.) (Brown and Miller 1983), and has been changed accordingly.

In several cases, entries at the subspecific level are accompanied by entries at the corresponding specific level. In these instances, specimens under the species label have not been identified to the subspecies level, and may therefore contain representatives of one or more subspecies, including the accompanying subspecies that is listed.

ANNOTATED LIST OF LEPIDOPTERA

HEPIALIDAE

- 19 *Sthenopis purpurascens* (Pack.) 15-30 Jul
20 *Sthenopis quadriguttatus* (Grt.) 15 Jul
29 *Hepialus novigannus* B. & Benj. 20 Aug-20
Sep

TINEIDAE

- 261 *Nemapogon acapnopennella* (Clem.) 25
Jun-5 Jul
264 *Nemapogon defectella* (Zell.) 15 Aug
421 *Monopis spilotella* Tengström 5 Jun-30 Jun

LYONETIIDAE

- 560 *Bucculatrix canadensisella* Cham. 20 Jun

GRACILLARIIDAE

- 587 *Caloptilia alnivorella* (Cham.) 15-30 May,
30 Jul-5 Aug, 20 Sep
601 *Caloptilia coronella* (Clem.) 10-30 May
609 *Caloptilia invariabilis* (Braun) 10 May
655 *Parectopa pennsylvaniella* (Engel) 25 Jun

OECOPHORIDAE

- 911 *Bibarrambula allenella* (Wlsm.) 30 Jun
913 *Semioscopis merricella* Dyar 20 May-5 Jun
914 *Semioscopis inornata* Wlsm. 25 Aug
916 *Semioscopis aurerella* Dyar 20 May

BLASTOBASIDAE

- 1144 *Gerdana caritella* Bsk. 30 Jul-25 Aug

MOMPHIDAE

- 1458 *Mompha unifasciella* (Cham.) 30 Jun

COSMOPTERIGIDAE

- 1515 *Limnaecia phragmitella* Staint. 20 Jul-10
Aug

GELECHIIDAE

- 1792 *Coleotechnites atrupicella* (Dietz) 15-25
Jul
1826 *Coleotechnites piceaella* (Kft.) 15 Jun-20
Aug
1869 *Pseudotelphusa belangerella* (Cham.) 5-15
Jun
1923 *Bryotropha clandestina* (Meyr.) 10-25 Jul
1985 *Gnorimoschema gallaeasterella* (Kellicott)
25 Jul-15 Aug
2069 *Chionodes continuella* (Zell.) 30 Jun-10
Jul, 5-15 Aug
2090 *Chionodes lugubrella* (F.) 15 Jun-5 Jul
2093 *Chionodes mediofuscella* (Clem.) 30
May-20 Jun
2198 *Aroga trialbamaculella* (Cham.) 15-20 Jun
2267 *Brachmia fernaldella* (Bsk.) 10-30 Jun
2277 *Dichomeris georgiella* (Wlk.) 20 May-10
Jun
2302 *Trichotaphe setosella* Clem. 5-10 Aug

ALUCITIDAE

- 2313 *Alucita hexadactyla* L. 20-30 May, 5-20
Aug

PLUTELLIDAE

- 2366 *Plutella xylostella* (L.) 15-20 May
2376 *Ypsolopha dentiferella* (Wlsm.) 25 Jul-25
Aug
2380 *Ypsolopha fatciferella* (Wlsm.) 20 Jul-5
Aug, 10 Sep

YPONOMEUTIDAE

2413 *Swammerdamia caesiella* (Hbn.) 15-20
Jun, 15 Jul

SESIIDAE

2554 *Synanthedon acerni* (Clem.) 25 Jun-5 Jul

CHOREUTIDAE

2651 *Choreutis diana* (Hbn.) 20 Jul-10 Aug

COSSIDAE

2675 *Acosuss centerensis* (Lint.) 25 Jun-5 Aug

2677 *Acosuss undosus* (Lint.) 15-25 Jul

2693 *Prionoxystus robiniae* (Peck) 5 Jul

TORTRICIDAE

2745 *Endothenia albolineana* (Kft.) 30 Jun

2747 *Endothenia impudens* (Wlsm.) 20-30 Jul

2755 *Apotomis funerea* (Meyr.) 5-25 Jul

2757 *Apotomis spinulana* (McD.) 10-30 Jun

2759 *Apotomis tertiana* (McD.) 30 Jun

2766 *Apotomis dextrana* (McD.) 10 Jul-5 Aug

2769 *Pseudosciaphila duplex* (Wlsm.) 10-15 Jul

2770 *Orthotaenia undulana* (D. & S.) 5-25 Jul

2778 *Olethreutes olivaceana* (Fern.) 30 Jul

2783 *Olethreutes zelleriana* (Fern.) 30 Jul-15
Aug

2786 *Olethreutes punctana* (Wlsm.) 25 Jul

2787 *Olethreutes connectus* (McD.) 10 Jul

2836 *Olethreutes constellatana* (Zell.) 20 Jul

2837 *Olethreutes astrologana* (Zell.) 15 Jul

2848 *Olethreutes bipartitana* (Clem.) 25 Jul

2859 *Olethreutes cespitana* (Hbn.) 20 Aug

2892 *Petrova albicapitana* (Bsk.) 30 Jun

2898 *Petrova gemistrigulana* (Kft.) 15 Jul

2900 *Petrova burkeana* (Kft.) 15-30 Jul

2911 *Phaneta awemeana* (Kft.) 25-30 May

3116 *Eucosma dorsisignatana* (Clem.) 25 Aug-10
Sep

3116b. *Eucosma dorsisignatana similana* (Clem.)
10 Aug

3120 *Eucosma derelecta* Heinr. 25 Aug

3211 *Notocelia culminana* (Wlsm.) 20 Jul-10
Aug

3269 *Griselda radicans* Heinr. 20 Aug-10 Sep

3276a. *Rhopobota unipunctana geminana*
(Steph.) 20-25 Jul

3280 *Epinotia stroemiana* (F.) 30 Aug-15 Sep

3283 *Epinotia solandriana* (L.) 15 Jul-5 Aug

3286 *Epinotia medioviridana* (Kft.) 20 Aug-5
Sep

3302 *Epinotia rectiplicana* (Wlsm.) 30 Jun-20
Jul

3304 *Epinotia sollicitana* (Wlk.) 30 May-25 Jun

3306 *Epinotia nisella* (Cl.) 20-30 Jul, 10 Sep

3312 *Epinotia momonana* (Kft.) 25 Jun-5 Jul,
15 Aug

3313 *Epinotia terracoctana* (Wlsm.) 10 Aug

3347 *Epinotia septemberana* Kft. 30 Aug-15
Sep

3351 *Epinotia lindana* (Fern.) 15 Aug-10 Sep

3355 *Ancylis subaequana* (Zell.) 15 Jun

3361 *Ancylis semiovana* (Zell.) 20 Jun

3380 *Ancylis goodelliana* (Fern.) 30 May-20
Jun

3384 *Ancylis mediofasciana* (Clem.) 5-25 Jun

3386 *Ancylis tineana* (Hbn.) 15 Jun

3420 *Pammene signifera* (Heinr.) 20-30 Jun, 20
Jul

3428 *Grapholita packardi* Zell. 30 Jun

3466 *Cydia strobilella* (L.) 10 Jun, 5 Aug

3502 *Croesia albicomana* (Clem.) 20-25 Jul

3506 *Acleris macdunnoughi* Obr. 10 Sep

3508 *Acleris caliginosana* (Wlk.) 20 May, 20-25
Sep

3514 *Acleris cervinana* (Fern.) 20 May-10 Jun

3520 *Acleris fuscana* (B. & Bsk.) 25 May-15
Jun

3521 *Acleris semiannula* (Rob.) 15 May

3523 *Acleris cornana* (McD.) 10 Jun

3525 *Acleris forbesana* (McD.) 20 Aug-25 Sep

3531 *Acleris hastiana* (L.) 15 May

3533 *Acleris celiana* (Rob.) 15 May-10 Jun

3540a. *Acleris logiana placidana* (Rob.) 30
Aug-25 Sep

3543 *Acleris maculidorsana* (Clem.) 30 Aug-5
Sep

3548 *Acleris variana* (Fern.) 20 Jul-20 Aug, 30
Aug, 20 Sep

3549 *Acleris maccana* (Tr.) 15 May

3551 *Acleris inana* (Rob.) 20-30 Aug

3556 *Acleris nigrolinea* (Rob.) 20 May-5 Jun, 30
Aug

3557 *Acleris maximana* (B. & Bsk.) 10 May

3565 *Eulia ministrana* (L.) 20 Jun-5 Jul

3595 *Pandemis canadana* Kft. 15 Jul-20 Aug

3625 *Argyrotaenia mariana* (Fern.) 5-10 Jun

3632 *Choristoneura fractivittana* (Clem.) 5-10
Jul

3633 *Choristoneura parallela* (Rob.) 25 Jul

3635 *Choristoneura roseaceana* (Harr.) 20-30 Jul

3637 *Choristoneura conflictana* (Wlk.) 30
Jun-15 Jul

3638 *Choristoneura fumiferana* (Clem.) 25
Jun-5 Aug

3643 *Choristoneura pinus* Free. 25 Jul-5 Aug

3648 *Archips argyrosipila* (Wlk.) 25-30 Jul

3658 *Archips purpurana* (Clem.) 5-15 Aug

- 3661 *Archips cerasivorana* (Fitch) 30 Jul-10 Aug
 3664 *Archips striana* (Fern.) 25 Jun-20 Jul
 3665 *Archips alberta* (McD.) 10-30 Aug
 3672 *Syndemis affliciana* (Wlk.) 20-25 Jun
 3682 *Clepsis persicana* (Fitch) 5-20 Jul
 3686 *Clepsis melaleucana* (Wlk.) 30 Jun
 3688 *Ptycholoma peritana* (Clem.) 20-25 Jul
 3689 *Ptycholoma virescana* (Clem.) 20-25 Jun
 3697 *Sparganothis lycopodiana* (Kft.) 15 Aug
 3706 *Sparganothis xanthoides* (Wlk.) 10-20 Jul
 3720 *Sparganothis reticulatana* (Clem.) 30 Jul-10 Aug, 20 Sep
 3740 *Platynota idaeusalis* (Wlk.) 25 Jul
- COCHYLIDAE
- 3787 *Carolella vitellinana* (Zell.) 25-30 Jun
 3802 *Hysterosia riscana* Kft. 15-20 Jul
- HESPERIIDAE
- 3910 *Thorybes pylades* (Scudder) 10 Jul
 3945 *Erynnis icelus* (Scudder & Burgess) 20 Jun
 4041 *Polites themistocles* (Latr.) 20 Jul
 4105 *Amblyscirtes vialis* (Edw.) 20 Jun
- PAPILIONIDAE
- 4176 *Papilio glaucus* L. 30 May-20 Jun
- PIERIDAE
- 4195d. *Artogeia napi oleracea* (Harr.) 15 Jun, 30 Jul-5 Aug
 4197 *Artogeia rapae* (L.) 10 Jul
 4210 *Colias eurytheme* Bdv. 30 Jun, 20 Aug
 4220 *Colias interior* Scudder 15 Jul
- LYCAENIDAE
- 4362 *Everes amyntula* (Bdv.) 15-20 Jun
 4372 *Glaucopsyche lygdamus* (Doubleday) 15 Jun
- NYMPHALIDAE
- 4423 *Polygonia faunus* (Edw.) 5-25 Aug
 4429 *Polygonia progne* (Cram.) 5 Aug, 25 Aug, 20 Sep
 4430a. *Nymphalis vau-album j-album* (Bdv. & Leconte) 5 Aug, 5-15 Sep
 4432 *Nymphalis antiopa* (L.) 30 Jun, 5 Sep
 4433 *Aglais milberti* (Godt.) 5 Aug
 4435 *Vanessa cardui* (L.) 25 May-5 Jun
 4459 *Speyeria atlantis* (Edw.) 20-30 Jul
 4464f. *Clossiana selene atrocotalis* (Huard) 30 Jun, 30 Jul-5 Aug
- 4465a. *Clossiana bellona toddi* (Holl.) 20 Jun
 4481 *Phyciodes tharos* (Drury) 30 Jul-30 Jul
 4490 *Charidryas nycteis* (Doubleday) 25 Jun
 4522 *Basilarchia arthemis* (Drury) 30 Jun-15 Jul
- SATYRIDAE
- 4568 *Enodia portlandia* (F.) 15-20 Jul
- LIMACODIDAE
- 4652 *Tortricidia testacea* Pack. 30 Jun-25 Jul
- PYRALIDAE
- 4703b. *Gesneria centuriella caecalis* (Wlk.) 10-15 Jul
 4716 *Scoparia biplagiata* Wik. 30 Jun, 20 Jul-5 Aug
 4737 *Eudonia lugubralis* (Wlk.) 15-20 Jun, 5 Jul
 4748 *Munroessa icciusalis* (Wlk.) 15-30 Jul
 4759 *Parapoynx maculalis* (Clem.) 10-20 Jul, 10 Aug
 4760 *Parapoynx obscuralis* (Grt.) 20-25 Jul
 4897 *Evergestis pallidata* (Hufn.) 10-25 Jul
 4935 *Saucrobotys fumoferalis* (Hulst) 20-30 Jun
 4936 *Saucrobotys futilalis* (Led.) 10-20 Jul
 4950 *Fumibotys fumalis* (Gn.) 20-25 Jul, 25 Aug-10 Sep
 4953a. *Phlytaenia coronata tertialis* (Gn.) 15-25 Jun
 4956a. *Nealgedonia extricalis dional* (Wlk.) 20-25 Jun
 4957 *Mutuuraia mysippusalis* (Wlk.) 25-30 Jun
 5060a. *Pyrausta subsequalis borealis* Pack. 10 Jun
 5079 *Udea rubigalis* (Gn.) 30 May, 15 Jun, 30 Jun
 5156 *Nomophila nearctica* Mun. 10 Jun-20 Jul, 20 Sep
 5159 *Desmia funeralis* (Hbn.) 30 Jun-10 Jul
 5262 *Framinghamia helvalis* (Wlk.) 25 Aug
 5275 *Herpetogramma pertextalis* (Led.) 10-25 Aug
 5339 *Crambus pascuellus* (L.) 30 Jun-5 Jul, 20 Jul, 20 Aug
 5341a. *Crambus alienellus labradoriensis* Christoph 10 Jul
 5343a. *Crambus pertellus innotatellus* Wik. 15 Jul-5 Aug
 5344 *Crambus unistriatellus* Pack. 25 Jul-10 Aug
 5357 *Crambus leachellus* (Zinck.) 10 Aug-5 Sep
 5362 *Crambus agitatellus* Clem. 20 Jul
 5379 *Crambus luteolellus* Clem. 15-30 Jun

- 5380 *Crambus zeellus* Fern. 20 Jul
 5391 *Chrysoteuchia topiaria* (Zell.) 30 Jun-20 Jul
 5403 *Agriphila vulgivaella* (Clem.) 10-20 Aug
 5408 *Catoptria latiradiella* (Wlk.) 25 Jul-15 Aug
 5413 *Pediasia trisecta* (Wlk.) 10-20 Aug
 5517 *Agllossa caprealis* (Hbn.) 15-30 Jul
 5529 *Herculia thymetusalis* (Wlk.) 30 Jun-15 Jul
 5655 *Acrobasis tricolorella* Grt. 15-30 Jun
 5688 *Acrobasis betulella* Hulst 30 Jun-10 Aug
 5716 *Myelopsis conielle* (Rag.) 10 Aug
 5718 *Myelopsis subtetricella* (Rag.) 5-20 Jun
 5721 *Apomyelois bistratella* (Hulst) 15 Aug, 10 Sep
 5745 *Glyptocera consobrinella* (Zell.) 25 Jun
 5798 *Nephopterix carneella* (Hulst) 20-30 Jun
 5812 *Telethusia ovalis* (Pack.) 15 Aug
 5843 *Dioryctria reticulelloides* Mutuura & Mun. 10 Jun, 10-15 Jul, 15 Aug
 5999 *Eulogia ochrifrontella* (Zell.) 30 Jun-10 Jul, 15 Aug
 6053 *Peoria approximella* (Wlk.) 5 Jul
- PTEROPHORIDAE
- 6102 *Trichoptilus lobidactylus* (Fitch) 20-25 Jul
 6157 *Adaina montana* (Wlsm.) 20 Aug
 6213 *Oidaematophorus lacteodactylus* (Cham.) 10 Jun
- THYATIRIDAE
- 6235 *Habrosyne scripta* (Gosse) 20-30 Jun, 20 Jul
 6237 *Pseudothyatira cymatophoroides* (Gn.) 20-25 Jun, 5-30 Jul
 6240 *Euthyatira pudens* (Gn.) 20 May-5 Jun
- DREPANIDAE
- 6251 *Drepana arcuata* Wlk. 5 Jun-10 Jul
 6252 *Drepana bilineata* (Pack.) 20-25 May, 10-15 Aug
 6255 *Oreta rosea* (Wlk.) 10 Jul-10 Aug
- GEOMETRIDAE
- 6256 *Archiearis infans* (Mösch.) 20 May
 6279 *Itame occiduaria* (Pack.) 25 Jul
 6286 *Itame brunneata* (Thunb.) 10-15 Jul
 6304 *Itame bitactata* (Wlk.) 15 Jul-20 Aug
 6330 *Semiothisa ulsterata* (Pears.) 30 Jun-20 Jul
 6352 *Semiothisa granitata* (Gn.) 30 Jun
 6373 *Semiothisa denticulata* Grt. 25 Jun
 6394 *Semiothisa hebetata* (Hulst) 10 Jul
 6428 *Orthofidonia tinctaria* (Wlk.) 5-10 May, 15 Jun
 6570 *Aethalura intertexta* (Wlk.) 10-15 Jun
 6583 *Anacamptodes ephyriaria* (Wlk.) 15-20 Aug
 6588 *Iridopsis larvaria* (Gn.) 25 Jun
 6590 *Anavitrinella pampinaria* (Gn.) 30 Jun
 6597 *Ectropis crepuscularia* (D. & S.) 25 May-5 Jun
 6621 *Melanolopia signataria* (Wlk.) 5 Jun
 6640a. *Biston betularia cognataria* (Gn.) 10-25 Aug
 6666 *Lomographa semiclarata* (Wlk.) 20-25 May
 6668 *Lomographa glomeraria* (Grt.) 20-30 May
 6678 *Cabera variolaria* Gn. 25 Jun-20 Jul
 6726 *Euchlaena obtusaria* (Hbn.) 30 Jun-5 Jul
 6731 *Euchlaena madusaria* (Wlk.) 5-20 Jul
 6734 *Euchlaena marginaria* (Minot) 30 May-15 Jun
 6740 *Xanthotype urticaria* Swett 30 Jun
 6743 *Xanthotype sospeta* (Drury) 30 Jun-20 Jul
 6754 *Pero hubneraria* (Gn.) 5-30 Jun
 6796 *Campaea perlata* (Gn.) 10-25 Jul
 6797 *Ennomos magnaria* Gn. 10-25 Aug
 6807 *Tacparia detersata* (Gn.) 25-30 May
 6818 *Selenia kentaria* (G. & R.) 20 May-10 Jun
 6819 *Metanema inatormaria* Gn. 30 May, 15 Jun-5 Jul
 6820 *Metanema determinata* Wlk. 15 Jun-20 Jul
 6822 *Metarranthis duaria* (Gn.) 25 May-5 Jun
 6836 *Anagoga occiduaria* (Wlk.) 25 May-20 Jun
 6838 *Probole amicaria* (H.-S.) 25 Jun-15 Jul
 6841 *Plagodis kuetzingi* (Grt.) 30 Jun
 6842 *Plagodis phlogosaria* (Gn.) 30 May-15 Jun
 6863 *Caripeta divisata* Wlk. 20 Jun-10 Jul
 6885 *Besma quercivoraria* (Gn.) 20 Jun
 6888 *Lambdina fiscellaria* (Gn.) 30 Aug-25 Sep
 6906 *Nepytia canosaria* (Wlk.) 25 Aug-20 Sep
 6912 *Sicya macularia* (Harr.) 10-30 Aug
 6964 *Tetracis cachexiata* Gn. 25-30 Jun
 6982 *Prochoerodes transversata* (Drury) 10 Aug-20 Sep
 7009 *Nematocampa limbata* (Haw.) 10-15 Aug
 7048 *Nemoria mimosaria* (Gn.) 20 Jun
 7058 *Synchlora aerata* (F.) 5-25 Jul
 7139 *Cyclophora pendulinaria* (Gn.) 15-30 Jun, 20 Jul
 7159 *Scopula limboundata* (Haw.) 15 Jul
 7162 *Scopula ancillata* (Hulst) 25 Jul
 7164 *Scopula junctaria* (Wlk.) 10 Jul
 7182 *Dysstroma citrata* (L.) 15-25 Aug, 15 Sep
 7187a. *Dysstroma truncata traversat* (Kellcott) 5 Jul

- 7196 *Eulithis diversilineata* (Hbn.) 20-25 Aug
 7201 *Eulithis testata* (L.) 25 Aug-10 Sep
 7203 *Eulithis molliculata* (Wlk.) 5-15 Aug
 7206 *Eulithis explanata* (Wlk.) 20 Jul-15 Aug
 7213a. *Ecliptopera silaceata albolineata* (Pack.) 15
 Jun-30 Jul
 7216 *Plemyria georgii* Hulst 20 Aug, 20 Sep
 7239 *Hydriomena pluviana* (Gn.) 30 Jun
 7254 *Hydriomena ruberata* (Freyer) 30 May-15
 Jun
 7257 *Hydriomena furcata* (Thunb.) 5 Sep
 7285 *Triphosa haesitata* (Gn.) 10-25 May
 7285a. *Triphosa haesitata affirmari* (Wlk.) 20-30
 May, 5-25 Sep
 7291 *Hydria undulata* (L.) 30 Jul
 7293 *Rheumaptera hastata* (L.) 5-20 Jun
 7294 *Rheumaptera subhastata* (Nolcken) 10-25
 Jun
 7307 *Mesoleuca ruficillata* (Gn.) 30 Jun
 7312 *Spargania magnoliata* Gn. 30 Jun, 25 Jul
 7313 *Spargania luctuata* (D. & S.) 30 Jun
 7313a. *Spargania luctuata obducta* (Mösch.) 30
 Jun-15 Aug
 7316 *Perizoma basaliata* (Wlk.) 10-15 Aug
 7329 *Anticlea vasiliata* Gn. 15 May-5 Jun
 7330 *Anticlea multiferata* (Wlk.) 20-25 Jun
 7368 *Xanthorhoe labradorensis* (Pack.) 10 Jul
 7384 *Xanthorhoe munitata* (Hbn.) 30 Aug
 7388 *Xanthorhoe ferrugata* (Cl.) 5-30 Jun
 7390 *Xanthorhoe lacustrata* (Gn.) 15 Jun
 7394 *Epirrhoe alternata* (Müller) 5 Jul, 25 Jul
 7414 *Orthonama obstipata* (F.) 20 May
 7416 *Orthonama centrostrigaria* (Woll.) 25 Jun
 7422 *Hydrelia inornata* (Hulst) 10 Jul
 7425 *Venusia cambrica* (Curt.) 20-30 Jul, 30
 Aug
 7428 *Venusia comptaria* (Wlk.) 30 May-5 Jun
 7445 *Horisme intestinata* (Gn.) 15-25 Jun
 7459 *Eupithecia columbiata* (Dyar) 20-25 May
 7476 *Eupithecia misturata* (Hulst) 5 Jun
 7481 *Eupithecia coloradensis* (Hulst) 20-25 Jun
 7522 *Eupithecia nimbicolor* (Hulst) 25 Jun
 7526 *Eupithecia russeliata* Swett 10-15 Jun
 7529 *Eupithecia coagulata* Gn. 20 May-25 Jun,
 10-20 Aug
 7543 *Eupithecia annulata* (Hulst) 25-30 May
 7575 *Eupithecia mutata* Pears. 20 Jun
 7594 *Eupithecia anticaria* Wlk. 30 Jun
 7605 *Eupithecia ravocostaliata* Pack. 25-30
 May
 7635 *Acasis viridata* (Pack.) 30 May-5 Jun
 7637 *Cladara limitaria* (Wlk.) 15 May-5 Jun
 7639 *Cladara atroliturata* (Wlk.) 20 May-5 Jun

EPIPLEMIDAE

- 7650 *Callizzia amorata* Pack. 30 Jun-20 Jul

LASIOCAMPIDAE

- 7673 *Tolype laricis* (Fitch) 25 Aug-10 Sep
 7687 *Phylodesma americana* (Harr.) 15 May-5
 Jul
 7698 *Malacosoma dissiria* Hbn. 5 Aug
 7702c. *Malacosoma californicum pluvial* (Dyar)
 30 Jul

SATURNIIDAE

- 7757 *Antheraea polyphemus* (Cram.) 20-25 Jun
 7758 *Actias luna* (L.) 20 Jun-10 Jul

SPHINGIDAE

- 7787 *Ceratomia undulosa* (Wlk.) 30 Jun-30 Jul
 7809 *Sphinx kalmiae* J. E. Smith 15 Aug
 7810 *Sphinx gordius* Cram. 20-30 Jun
 7811 *Sphinx luscitiosa* Clem. 30 Jun
 7817 *Lapara bombycoides* Wlk. 10-15 Jul
 7821 *Smerinthus jamaicensis* (Drury) 5 Jun, 20
 Jun-5 Jul, 15-20 Jul
 7822 *Smerinthus cerysi* Kby. 5-20 Jun, 5 Jul
 7824 *Paonias excaecatus* (J. E. Smith) 10-25
 Jun
 7827 *Laothoe juglandis* (J. E. Smith) 30 May-5
 Jul
 7828 *Pachysphinx modesta* (Harr.) 25-30 Jun, 5
 Sep
 7854 *Hemaris gracilis* (G. & R.) 15-25 Jun
 7855 *Hemaris diffinis* (Bdv.) 25 Jun
 7893 *Hyles gallii* (Rottemburg) 5-15 Jul, 5 Aug

NOTODONTIDAE

- 7895 *Clostera albosigma* Fitch 25 May-15 Jun,
 15 Jul, 5 Aug
 7915 *Nadata gibbosa* (J. E. Smith) 10 Jun-10
 Jul, 20 Jul
 7921 *Peridea ferruginea* (Pack.) 15 Jun-30 Jul
 7922 *Pheosia rimosa* Pack. 15 Jul, 10 Aug
 7924 *Odontosia elegans* (Stkr.) 20 Jun-10 Jul, 25
 Aug
 7926 *Notodonta scitipennis* Wlk. 10-15 Jul
 7928 *Notodonta simplaria* Graef 30 May-30
 Jun, 15 Jul, 10 Aug
 7934 *Gluphisia linnleri* (Grt.) 20 May-15 Jun
 7939 *Furcula occidentalis* (Lint.) 5-10 Jun, 5
 Jul
 7941 *Furcula modesta* (Hudson) 30 May-20 Jul
 7990 *Heterocampa umbrata* Wlk. 25 Jun-15 Jul
 7990a. *Heterocampa umbrata pulverea* (G. & R.)
 20 Jun-10 Jul

- 8005 *Schizura ipomoeae* Doubleday 5-20 Jul
 8007 *Schizura unicornis* (J. E. Smith) 15 Jul-5 Aug
 8011 *Schizura leptinoides* (Grt.) 20 Jun-25 Aug
- ARCTIIDAE
- 8045.1 *Crambidia pallida* Pack. 25 Aug
 8051 *Crambidia casta* (Pack.) 20 Aug-10 Sep
 8090 *Hypoprepia fucosa* Hbn. 10 Aug
 8098 *Clemensia albata* Pack. 10-25 Aug
 8111 *Haploa lecontei* (Guér.-Méneville) 30 Jun-20 Jul
 8114a. *Holomelina laeta treatii* (Grt.) 25 Jun-15 Jul
 8123 *Holomelina ferruginosa* (Wlk.) 25 Jun-20 Jul, 5 Aug
 8127 *Parasemia plantaginis* (L.) 25 Jun-10 Jul
 8134 *Spilosoma congrua* Wlk. 5-20 Jun
 8136 *Spilosoma dubia* (Wlk.) 20 Jun
 8137 *pilosoma virginica* (F.) 20-30 Jun
 8158 *Phragmatobia assimilians* Wlk. 25 May-10 Jun
 8162 *Platarctia parthenos* (Harr.) 20 Jun-5 Jul
 8166 *Arctia caja* (L.) 15-30 Aug
 8175 *Apantesis virguncula* (W. Kirby) 25-30 Jul
 8176 *Apantesis anna* (Grt.) 25 Jul
 8186 *Apantesis williamsii* (Dodge) 5-15 Jul
 8187 *Apantesis celia* (Saund.) 20 Jul
 8196 *Apantesis parthenice* (W. Kirby) 15 Jul-20 Aug
 8197 *Apantesis virgo* (L.) 15 Jul
 8214 *Lophocampa maculata* Harr. 20-30 Jun
 8262 *Ctenucha virginica* (Esp.) 10 Jul-5 Aug
 8267 *Cisseps fulvicollis* (Hbn.) 10-20 Jul
- NOCTUIDAE
- 8322 *Idia americanalis* (Gn.) 25 Jul, 10 Aug
 8334 *Idia lubricalis* (Gey.) 25 Jul-10 Aug
 8338 *Phalaenophana pyramusalis* (Wlk.) 10 Jun
 8341 *Zanclognatha therialis* (Wlk.) 5-20 Jul
 8349 *Zanclognatha protumnusalis* (Wlk.) 5 Jul
 8352 *Zanclognatha jacchusalis* (Wlk.) 15 Jul
 8356 *Chytolita petrealis* Grt. 20-30 Jun
 8362 *Phalaenostola metonalis* (Wlk.) 5-25 Jul
 8370 *Bleptina caradrinalis* Gn. 10 Jul, 20 Aug
 8397 *Palthis angulalis* (Hbn.) 15-25 Jun
 8413 *Mycterophora inexplicata* (Wlk.) 10-20 Jul
 8443 *Bomolocha bijugalis* (Wlk.) 25 Jul
 8444 *Bomolocha palparia* (Wlk.) 5 Jul
 8455 *Lomanaltes educialis* (Wlk.) 25 Jul
 8461 *Hypena humuli* Harr. 20 Aug
 8479 *Spargaloma sexpunctata* Grt. 30 Jun-10 Jul, 5 Aug
 8490 *Pangrapta decoralis* Hbn. 30 Jun
 8500 *Metalectra quadrisignata* (Wlk.) 30 Jun-10 Jul, 25 Jul
 8554 *Alabama argillacea* (Hbn.) 5 Sep
 8694 *Zale aeruginosa* (Gn.) 25 May-15 Jun
 8697 *Zale minerea* (Gn.) 5-15 Jun
 8697a. *Zale minerea norda* (Sm.) 25 Jun-5 Jul
 8703 *Zale duplicata* (Bethune) 10-15 Jun
 8716 *Zale unilineata* (Grt.) 25 May-5 Jun
 8731 *Euclidia cuspidata* (Hbn.) 10 Jun-5 Jul
 8738 *Caenurgina crassiuscula* (Haw.) 25 Jun, 30 Jul, 15 Aug
 8803 *Catocala relicta* Wlk. 20 Aug-5 Sep
 8805 *Catocala unijuga* Wlk. 5-20 Aug
 8817 *Catocala briseis* Edw. 20 Aug-20 Sep
 8821 *Catocala semirelicta* Grt. 20 Aug
 8833 *Catocala concumbens* Wlk. 30 Aug-10 Sep
 8846 *Catocala sordida* Grt. 5 Aug
 8857 *Catocala ultronia* (Hbn.) 20 Aug-15 Sep
 8867 *Catocala blandula* Hulst 30 Jul-25 Aug
 8896 *Diachrysis aeroides* (Grt.) 20 Jul-10 Aug
 8897 *Diachrysis balluca* Gey. 25 Jul-15 Aug
 8899 *Pseudeva purpurigera* (Wlk.) 30 Jul-10 Aug, 25 Aug
 8904 *Chrysanympha formosa* (Grt.) 5 Jul-15 Aug
 8908 *Autographa precatationis* (Gn.) 15 Jun, 15-20 Jul, 25 Aug, 20 Sep
 8909 *Autographa rubida* Ottol. 15 Jun-5 Jul
 8911 *Autographa bimaculata* (Steph.) 25 Jul-25 Aug
 8912 *Autographa mappa* (G. & R.) 30 Jun-5 Aug
 8913 *Autographa pseudogamma* (Grt.) 5-15 Jul
 8916 *Autographa flagellum* (Wlk.) 25-30 Jul, 5 Sep
 8923 *Autographa ampla* (Wlk.) 15 Jul-15 Aug
 8924 *Anagrapha falcifera* (Kby.) 25 May, 15-30 Jun, 25 Aug-10 Sep
 8926 *Syngrapha octoscripta* (Grt.) 10 Jul, 5-25 Aug
 8927 *Syngrapha epigaea* (Grt.) 15-25 Aug
 8928 *Syngrapha selecta* (Wlk.) 15 Jul-20 Aug
 8939 *Syngrapha alias* (Ottol.) 25 Jun, 10 Aug
 8942 *Syngrapha rectangula* (W. Kirby) 5 Jul, 25 Jul, 15-25 Aug
 8945 *Syngrapha montana* (Pack.) 30 Jun
 8946a. *Syngrapha microgamma nearctica* Fgn. 30 Jun
 8950 *Plusia putnami* Grt. 30 Jun-10 Sep
 8953 *Plusia venusta* Wlk. 30 Jul-5 Aug
 8969 *Baileya doubledayi* (Gn.) 30 Jun
 8970 *Baileya ophthalmica* (Gn.) 5 Jun
 8974 *Characoma nilotica* (Rogenhofer) 25 Jun, 30 Jul
 9046 *Lithacodia bellicula* Hbn. 10 Jul
 9048 *Lithacodia albidula* (Gn.) 20-25 Jun

- 9053 *Lithacodia carneola* (Gn.) 30 Jun-15 Jul
 9059 *Capis curvata* Grt. 10-20 Jul
 9090 *Tarachidia candefacta* (Hbn.) 15 Sep
 9177 *Panthea acronyctoides* (Wlk.) 20 Jun-5 Jul
 9183 *Panthea pallescens* McD. 30 Jun, 25-30 Jul
 9183a. *Panthea pallescens centralis* McD. 15 Jul
 9185 *Colocasia propinquilinea* (Grt.) 30 May-15 Jun, 5 Jul
 9189 *Charadra deridens* (Gn.) 20 Jun, 15-20 Jul
 9193 *Raphia frater* Grt. 15-20 Jun
 9203 *Acronicta dactylina* Grt. 20-30 Jun, 5 Sep
 9205 *Acronicta lepusculina* Gn. 20 Jun
 9207 *Acronicta innotata* Gn. 5-25 Jun, 10-20 Jul, 10-20 Aug
 9212 *Acronicta grisea* Wlk. 20 Jun-10 Jul
 9226 *Acronicta superans* Gn. 25-30 Jun
 9229 *Acronicta hasta* Gn. 25 Jun
 9241 *Acronicta fragilis* (Gn.) 20-25 Jun, 10-15 Jul, 15 Aug
 9257 *Acronicta impleta* Wlk. 20 Jun
 9259 *Acronicta noctivaga* Grt. 10-20 Jun
 9286 *Harrisimemna trisignata* (Wlk.) 30 Jun-5 Jul
 9326 *Apamea verbascooides* (Gn.) 20 Jul-5 Sep
 9344 *Apamea plutonia* (Grt.) 25 Jul-5 Aug
 9351 *Apamea alia* (Gn.) 25 Jun, 15 Jul
 9359 *Apamea commoda* (Wlk.) 5-30 Jul
 9360 *Apamea impulsiva* (Gn.) 15 Jul
 9365 *Agroperina lateritia* (Hufn.) 30 Jun-10 Jul
 9367 *Agroperina dubitans* (Wlk.) 20 Jul, 20 Aug
 9367a. *Agroperina dubitans cogitata* (Sm.) 10-15 Jul, 30 Jul, 25 Aug
 9374 *Protagrotis niveivenosa* (Grt.) 5-10 Aug
 9382 *Crymodes devastator* (Brace) 10 Aug-5 Sep
 9391 *Luperina passer* (Gn.) 10 Aug
 9415 *Oligia bridghami* (G. & R.) 25 Aug
 9419 *Oligia mactata* (Gn.) 20 Jul, 20 Aug-15 Sep
 9420 *Oligia illocata* (Wlk.) 20-30 Jul, 25 Aug
 9431 *Parastichtis discivaria* (Wlk.) 15 Aug-5 Sep
 9437 *Hypocoena inquinata* (Gn.) 25 Aug
 9439 *Hypocoena basistriga* (McD.) 5-20 Sep
 9449 *Archanara oblonga* (Grt.) 5-10 Sep
 9450 *Archanara subflava* (Grt.) 5 Sep
 9453 *Helotropha reniformis* (Grt.) 5-20 Sep
 9454 *Amphipoea velata* (Wlk.) 20 Aug
 9457 *Amphipoea americana* (Speyer) 5 Aug-10 Sep
 9472 *Papaipema harrisii* (Grt.) 20 Aug-20 Sep
 9474 *Papaipema sauzalita* (Grt.) 30 Aug-5 Sep
 9480 *Papaipema pterisii* Bird 20 Sep
 9509 *Papaipema unimoda* (Sm.) 5-25 Sep
 9520 *Achatodes zaeae* (Harr.) 30 Jul, 25 Aug
 9523 *Bellura gortynoides* f. *diffusa* (Grt.) 25 Jun
 9525 *Bellura obliqua* (Wlk.) 20 Jun-20 Jul
 9545 *Euplexia benesimilis* McD. 25-30 Jun
 9546 *Phlogophora iris* Gn. 20-30 Jun
 9547 *Phlogophora periculosa* Gn. 30 Jul-25 Aug
 9549 *Enargia decolor* (Wlk.) 15 Aug-20 Sep
 9555 *Ipimorpha pleonectusa* Grt. 15 Aug-20 Sep
 9556 *Chytonix palliatricula* (Gn.) 20 Jun-15 Jul, 15-25 Aug
 9560 *Dypterygia rozmani* Berio 10-20 Jul
 9564 *Andropolia contacta* (Wlk.) 15-30 Aug
 9578 *Hyppa xylinoides* (Gn.) 20 Jun-20 Jul, 5 Sep
 9633 *Callopietria cordata* (Ljungh) 25 Jun-20 Jul
 9637 *Magusa orbifera* (Wlk.) 10 Sep
 9647 *Proxenus miranda* (Grt.) 20-30 Jun
 9649 *Proxenus mendosa* McD. 20 Jul
 9657 *Platyperigea multifera* (Wlk.) 10 Aug-10 Sep
 9666 *Spodoptera frugiperda* (J. E. Smith) 10-20 Sep
 9681 *Elaphria festivooides* (Gn.) 5 Jun-10 Jul
 9873 *Xylena nupera* (Lint.) 5 May
 9874 *Xylena curvima* (Morr.) 20 May-5 Jun, 20 Sep
 9876 *Xylena cinerita* (Grt.) 10-25 May, 30 Aug-20 Sep
 9878a. *Lithomia solidaginis germana* (Morr.) 20 Aug-25 Sep
 9884 *Lithomia napaea* (Morr.) 10-25 May, 10-25 Sep
 9889 *Lithophane petulca* Grt. 20-25 May, 20 Sep
 9891 *Lithophane amanda* (Sm.) 5 Jun
 9902 *Lithophane baileyi* Grt. 15-25 Sep
 9913 *Lithophane georgii* Grt. 10 May
 9916 *Lithophane unimoda* (Lint.) 15 May-5 Jun, 25 Sep
 9917 *Lithophane fagina* Morr. 10 May-10 Jun, 25 Sep
 9922 *Lithophane pexata* Grt. 10-20 May, 10-25 Sep
 9928 *Lithophane thaxteri* Grt. 10-20 May, 20 Sep
 9935 *Eupsilia tristigmata* (Grt.) 10 May, 20 Sep
 9939 *Eupsilia devia* (Grt.) 15-20 May
 9952 *Eucirroedia pampina* (Gn.) 15 Aug-15 Sep
 9961 *Anathix ralla* (G. & R.) 5 Sep
 9962 *Anathix puta* (G. & R.) 15 Aug, 5-20 Sep

- 9965 *Xanthia togata* (Esp.) 30 Aug-10 Sep
 9967 *Hillia iris* (Zett.) 5-15 Sep
 9974 *Fishia enthea* Grt. 10-25 Sep
 9976 *Platypolia anceps* (Steph.) 5-20 Sep
 9980 *Xylotype acadia* B. & Benj. 30 Aug-25 Sep
 9990 *Sutyna profunda* (Sm.) 25 Aug-20 Sep
 9998 *Brachylomia algens* (Grt.) 10 Sep
 10005 *Feralia jocosa* (Gn.) 15 May-10 Jun
 10007 *Feralia major* Sm. 15-20 May, 5 Jun
 10008 *Feralia comstocki* (Grt.) 25 May-10 Jun
 10011 *Brachionycha borealis* (Sm.) 5 May-30 Jun
 10059 *Homohadena badistriga* (Grt.) 30 Jul-30 Aug
 10065 *Homohadena infixa* (Wlk.) 10 Jul-20 Aug
 10123 *Oncocnemis piffardi* (Wlk.) 10 Sep
 10198 *Cucullia postera* Gn. 15 Jul
 10223 *Discestra trifolii* (Hufn.) 10 Sep
 10265 *Sideridis rosea* (Harv.) 10-20 Jun
 10275 *Polia nimbosea* (Gn.) 20 Jul-10 Aug
 10276 *Polia imbrifera* (Gn.) 20 Jul-5 Aug
 10280 *Polia purpurisatta* (Grt.) 15 Jul-20 Aug
 10288 *Polia detracta* (Wlk.) 10 Jul
 10288a. *Polia detracta neoterica* (Sm.) 15-25 Jul
 10290 *Polia obscura* (Sm.) 15-25 Jun
 10292 *Melanchnra adjuncta* (Gn.) 10-25 Jun, 10-25 Jul
 10294 *Melanchnra pulverulenta* (Sm.) 15-30 Jun
 10295 *Melanchnra assimilis* (Morr.) 30 Jun-15 Jul
 10296 *Lacanobia nevadae* (Grt.) 10 Jun-5 Jul, 15 Aug
 10298 *Lacanobia radix* (Wlk.) 5-15 Jun
 10300 *Lacanobia grandis* (Gn.) 5 Aug
 10301 *Lacanobia lutra* (Gn.) 10-25 Jun
 10303 *Lacanobia tacoma* (Stkr.) 10-25 Jun
 10310 *Papestra quadrata* (Sm.) 30 May-5 Jun
 10312 *Papestra cristifera* (Wlk.) 5-30 Jun
 10370 *Lacinipolia lustralis* (Grt.) 20 Jun-10 Jul
 10372 *Lacinipolia anguina* (Grt.) 5-15 Jun
 10397 *Lacinipolia renigera* (Steph.) 25 Jul-30 Aug
 10405 *Lacinipolia lorea* (Gn.) 30 Jun-10 Jul
 10436 *Aletia oxygala* (Grt.) 20 Jul, 10-25 Aug
 10438 *Pseudaletia unipuncta* (Haw.) 10 Jun
 10446 *Leucania multilinea* Wlk. 10-20 Aug
 10447 *Leucania commoides* Gn. 5-30 Jun
 10449 *Leucania insueta* Gn. 15 Jun
 10471 *Stretchia plusiaeformis* Hy. Edw. 15-20 May
 10471a. *Stretchia p. coloradicola* Strand. 5-20 May
 10490 *Orthosia revicta* (Morr.) 10-25 May
 10513 *Egira dolosa* (Grt.) 25 May-10 Jun
 10563 *Protorthodes oviduca* (Gn.) 10-25 Jun
 10578 *Pseudorthodes vecors* (Gn.) 30 Jun-5 Jul
 10587 *Orthodes cynica* Gn. 10 Jun, 15 Jul
 10644 *Agrotis mollis* Wlk. 25 Jul
 10651 *Agrotis venerabilis* Wlk. 20 Aug-15 Sep
 10659 *Agrotis volubilis* Harv. 25 Jun
 10660 *Agrotis obliqua* (Sm.) 15 Jul
 10663 *Agrotis ipsilon* (Hufn.) 5-25 Sep
 10670 *Feltia jaculifera* (Gn.) 30 Aug-15 Sep
 10676 *Feltia herilis* (Grt.) 25 Jul-10 Sep
 10702 *Euxoa divergens* (Wlk.) 30 Jun-30 Jul
 10715 *Euxoa scandens* (Riley) 25-30 Jul, 10-15 Sep
 10738 *Euxoa mimaltonis* (Grt.) 5 Aug-5 Sep
 10755 *Euxoa declarata* (Wlk.) 5-25 Aug
 10801 *Euxoa ochrogaster* (Gn.) 5-15 Aug
 10891 *Ochropleura plecta* (L.) 5-15 Jul, 25 Aug
 10915 *Peridroma saucia* (Hbn.) 15 May-20 Jun, 5-25 Sep
 10917 *Diarsia rubifera* (Grt.) 30 Jul-20 Aug
 10918 *Diarsia dislocata* (Sm.) 30 Jul-15 Aug
 10919 *Diarsia jucunda* (Wlk.) 15 Jul-10 Sep
 10928 *Graphiphora haruspica* (Grt.) 30 Jul-25 Aug
 10929 *Eurois occulta* (L.) 5 Jul, 10-25 Aug
 10930 *Eurois astricta* Morr. 20 Jul-25 Aug
 10942 *Xestia adela* Franc. 5 Aug-10 Sep
 10943 *Xestia normaniana* (Grt.) 20 Jul-20 Aug
 10944 *Xestia smithii* (Snell.) 20 Jul, 10-20 Aug
 10947 *Xestia oblata* (Morr.) 5 Jul-10 Aug
 10951 *Xestia tenuicula* (Morr.) 5 Aug
 10954 *Xestia collaris* (G. & R.) 25 Aug
 10957 *Anomogyna atrata* (Morr.) 25-30 Jun
 10962 *Anomogyna perquiritata* (Morr.) 10-30 Aug
 10967 *Anomogyna elimata* (Gn.) 10 Aug-10 Sep
 10969 *Anomogyna dilucida* (Morr.) 5 Aug
 10988a. *Eugraphe subrosea opacifrons* (Grt.) 20 Aug
 10992 *Paradiarsia littoralis* (Pack.) 5-15 Jul
 10996 *Metalepsis salicarum* (Wlk.) 15-25 May
 10997 *Metalepsis fishii* (Grt.) 30 Jun
 10999 *Aplectoides condita* (Gn.) 20-25 Jun, 20 Jul
 11000 *Anaplectoides prasina* (D. & S.) 30 Jun-5 Jul, 15 Jul, 15 Aug-15 Sep
 11001 *Anaplectoides pressus* (Grt.) 5 Jul-10 Sep
 11003 *Chersotis juncta* (Grt.) 25 Jul-15 Aug
 11004 *Protolampra rufipectus* (Morr.) 5-25 Aug
 11008 *Eueretagrotis perattenta* (Grt.) 5 Jul

11009 <i>Eueretagrotis attenta</i> (Grt.) 30 Jun-20 Aug	11043 <i>Rhynchagrotis cupida</i> (Grt.) 15 Sep
11010 <i>Heptagrotis phyllophora</i> (Grt.) 25 Jul	11064 <i>Pyrrhia exprimens</i> (Wik.) 25 Jun-5 Jul
11012 <i>Cryptocala acadensis</i> (Bethune) 10 Jul-15 Aug	11068 <i>Heliothis zea</i> (Boddie) 15-20 Sep

DISCUSSION

Black Sturgeon Lake is in a relatively remote area, where only limited collecting has been carried out in the past. In his review of the state of knowledge on the Lepidoptera in Canada, Munroe (1979) lists a number of locations from which faunal samples are needed. Among these he names "the Lakehead district of Ontario, and the whole region from there to the Lake of the Woods, along the U.S. border." Black Sturgeon Lake is situated at the eastern end of this area, and this listing is therefore a contribution to meeting this lack of knowledge.

In all, 564 species of Lepidoptera plus 8 subspecies were collected at Black Sturgeon Lake during the years 1960-1968, representing 36 families, 5 butterflies, 1 skipper and 30 moths. This compares with 4692 species from 70 families listed by Munroe (1979) for the whole of Canada. It is probable that the listing for Black Sturgeon Lake is incomplete. The collections were made by staff trained in forest entomology, but with no taxonomic expertise, who may have overlooked rarer species, especially if they were inconspicuous or resembled other, more numerous, species. However, it is unlikely that many species were overlooked. The stated objective was to make a representative collection, and so the collectors were continually on the look out for new species. The listing may then be considered fairly reliable, but absence from the listing cannot be taken as conclusive evidence that the species is absent from the area.

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