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

C.J. Sanders<sup>1</sup>

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.

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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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<sup>1</sup>Forestry Canada, Ontario Region, P.O. Box 490, Sault Ste Marie, Ontario, Canada, P6A 5M7.

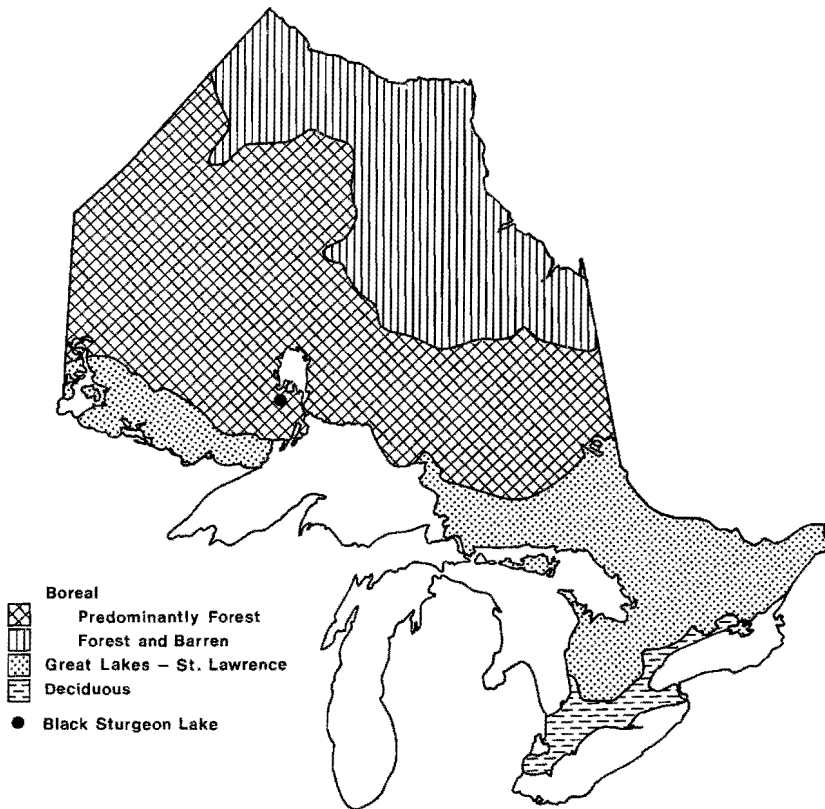


Figure 1. Map of Ontario, showing location of Black Sturgeon Lake and boundaries of Forest Regions (Rowe 1972).

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 *Bibarramba allenella* (Wlsm.) 30 Jun  
913 *Semioscopis merricella* Dyar 20 May-5 Jun  
914 *Semioscopis inornata* Wlsm. 25 Aug  
916 *Semioscopis aurella* 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 *Ancylys subaequana* (Zell.) 15 Jun  
3361 *Ancylys semiovana* (Zell.) 20 Jun  
3380 *Ancylys goodelliana* (Fern.) 30 May-20  
Jun  
3384 *Ancylys mediofasciana* (Clem.) 5-25 Jun  
3386 *Ancylys 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 biplagialis* Wlk. 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* Wlk. 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 *Aglossa 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 inatomaria* 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 *Tolyte laticis* (Fitch) 25 Aug-10 Sep  
 7687 *Phyllodesma 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.-Ménéville) 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 *Cissepis 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 impulsu* (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 zea* (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* (Sikr.) 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 stricta* 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> (Wlk.) 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.

## ACKNOWLEDGMENTS

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