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A CHECK LIST OF THE LEPIDOPTERA OF BEAVER CREEK STATE PARK,
COLUMBIANA COUNTY, OHIORoy W. Rings¹ and Eric H. Metzler²

ABSTRACT

Results of a comprehensive survey of Lepidoptera occurring at a 12,334 hectare natural area in Columbiana County, Ohio conducted in 1985 and 1990 is presented. Ten species of skippers, 27 species of butterflies and 597 species and forms of moths were identified and recorded. *Euagrotis forbesi*, and *Spodoptera eridania* had not previously been collected in Ohio; and *Polia nimbosa* and *Idia laurenti* have been designated as special interest since they are considered rare Ohio residents. The gypsy moth, *Lymantria dispar* was taken in bait traps and is the first record for that species in the Park. The presence of the gypsy moth, and the possibility of attempted eradication poses a definite threat to the survival of the species mentioned above with the exception of the southern army worm, *S. eridania* which was undoubtedly a fall migrant.

This is the sixth in a series of papers that document the species and present status of Lepidoptera in Ohio's recreational areas and nature preserves. We previously reported on the Lepidoptera of the Wilderness Center in Stark County, Atwood Lake Park in Carroll and Tuscarawas counties, Mohican State Forest and Mohican State Park in Ashland County, Fowler Woods State Nature Preserve in Richland County, and Goll Woods State Nature Preserve in Fulton County (Rings et al 1987, Rings and Metzler 1988, 1989, 1990, 1991).

The immediate objective of this paper was to publish a check list of the species of butterflies, moths and skippers collected by various means at Beaver Creek State Park. The publication of this information establishes a data base upon which to build a more comprehensive body of knowledge of the non-game wildlife of this recreational area. The threat of chemical spraying to control the gypsy moth, *Lymantria dispar*, if it were eventually found in this area, was a determining factor in the decision to undertake this project.

Subsequent studies may show that the survival and abundance status of some species at these sites has changed as a result of insect control as well as other factors.

DESCRIPTION OF THE STUDY SITE

Beaver Creek State Park is located 13 km northwest of East Liverpool, just off State Route 7, in Columbiana County, Ohio. It is in the foothills of

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the Appalachians and is one of eastern Ohio's most scenic parks. The beautiful Little Beaver Creek was the first to be included in the state wild and scenic rivers system.

The exact collecting sites were from the east 40°42'22" to the west 40°43'41" lat. and 80°35'11" long. in St. Clair and Middleton Townships, respectively.

A brief description is given of the soils in the valley near the center of visitor activity and in the vicinity of the Park Office. Most of the soils are Chili loam with varying slopes. This moderately steep soil occurs on irregular, hummocky slopes and terrace escarpments. It includes small areas of Chili gravelly loam. Surrounding the Chili loam are Lobdell and Negley soil series. Lobdell soils have a moderately thick root zone, are moderately permeable, and have high available moisture capacity. Negley soils are sloping and occupy kames and terraces. They contain large amounts of gravel and tend to be droughty. Runoff is slow and the erosion hazard is moderate (Lessig et al. 1968).

A plant community survey was conducted at the Beaver Creek Conservation Easement, several km northeast of the park (Pat Jones, pers. comm. 1990) and many of the species listed also are also present in the various areas of the park in which collecting was done. The woodlot studied was an oak-maple type. Tree species present, in order of decreasing predominance were: sugar maple, *Acer saccharum*; black oak, *Quercus velutina*; red oak, *Quercus rubra*; American basswood, *Tilia americana*; hornbeam, *Ostrya virginiana*; beech, *Fagus grandifolia*; black cherry, *Prunus serotina*; shagbark hickory, *Carya ovata*; white oak, *Quercus alba*; ash, *Fraxinus* spp.; red maple, *Acer rubrum*; slippery elm, *Ulmus rubra*; tulip tree, *Liriodendron tulipifera*; chestnut oak, *Quercus prinus*; and cucumber magnolia, *Magnolia acuminata*. Sycamores, *Platanus occidentalis*, were common along the banks of Little Beaver Creek. Some reforestation was performed in the 1950's. Park Manager Robert Sheehan estimated that 173 hectares of white pine, were planted at the rate of 1683 trees per hectare in various sections of the park.

The Natural Heritage data base lists the following rare plant species in the park: mountainfringe, *Adlumia fungosa*; shale barren pussy-toes, *Antennaria virginica*; lyreleaf rock-cress, *Arabis lyrata*; oak fern, *Gymnocarpium dryopteris*; American water-pennywort, *Hydrocotyle americana*; and Bowman's-root, *Gillenia (Porteranthus) trifoliata*.

MATERIALS AND METHODS

Collecting was done when maximum daily temperatures exceeded 16.9°C. In 1985 nine collecting trips were made to collect Lepidoptera at various sections of the park: 27-28 March, 5-6 May, 10-11, 16-18 July, 11-13 and 27 August, 21-22 September and 5 and 9 October. In 1990 16 collecting trips were made on the following dates: 8 February, 12 March, 9 and 22-23 April, 8 May, 1 and 25-26 June, 7-8, and 24-25 July, 9 and 17 August, 9-10 and 26-27 September, 6-7 and 17 October, and 1 November. In addition to these collections made by the senior author The Ohio Lepidopterists scheduled a field day at Beaver Creek on 15 May 1988 and collected 21 species of butterflies and skippers (Metzler 1988).

Butterflies and skippers were netted with standard insect nets. Foliage was searched and jarred for lepidopterous larvae, cocoons and galls. Moths were collected from about an hour after sunset to 1:00 or 2:00 AM. These collecting techniques have been described in previous publications by the authors.

The moths that were collected were placed in plastic boxes, lined with moist paper toweling, and taken to the laboratory at OARDC where they were identified, sexed and recorded. Klots (1951), Covell (1984), Rockburne and Lafontaine (1976), Forbes (1923-60) and Holland (1903) were the primary resources for identification. Metzler identified difficult and unusual arctiid, noctuid and notodontid moths. Moths in other families were identified by specialists listed under acknowledgments. Choice and unusual specimens were spread and labeled and deposited in the Ohio Agricultural Research and Developmental Center's Insect Reference Collection at Wooster.

The following areas were regularly sampled in an alternating pattern.

(1) Primitive family camp near Oak Tree Overlook on Leslie Road. This was primarily an upland forested area. The predominant tree species were sugar maple, black oak, red oak, white oak, black cherry, shagbark hickory, ashes, *Fraxinus* spp., dogwoods, *Cornus* spp.; and willows, *Salix* spp. The undergrowth consisted of wild grape, *Vitis* spp.; greenbrier, *Smilax* spp.; poison ivy, *Rhus radicans*; Virginia creeper, *Parthenocissus quinquefolia*; mayapple, *Podophyllum peltatum*; black raspberry, *Rubus occidentalis*; and unidentified mosses, lichens and liverworts.

(2) At Service Building just off Bell School Road. To the north there was a forested area containing oaks, *Quercus* spp.; maples, *Acer* spp.; sassafras, *Sassafras albidum*; seedling apple trees, *Pyrus malus*; staghorn-sumac, *Rhus typhina* and tulip tree. To the south and east there were open fields of grasses, goldenrods, *Solidago* spp.; milkweeds, *Asclepias* spp.; asters, *Aster* spp.; and Indian hemp, *Apocynum* spp.

(3) In a chestnut, *Castanea dentata*, grove 200 m north of Service Building.

(4) In open field across road from (3) in which there were various species of goldenrods; milkweeds; asters; grasses; giant ragweed, *Ambrosia trifida*; teasel, *Dipsacus sylvestris*; common elder, *Sambucus canadensis*; wild carrot, *Daucus carota*; Canada thistle, *Cirsium arvense*; and tall ironweed, *Vernonia altissima*. An adjacent open field contained American elm, *Ulmus americana*, maples and ashes.

(5) In central park, picnic area east of Park Office at south turnabout. Sycamores were predominant along Little Beaver Creek with the typical oak-maple community at a greater distance from the creek. Virginia creeper, poison ivy and Solomon's seal, *Polygonatum* spp., were the principal undergrowth species.

(6) In central park picnic area east of Park Office at north turnabout. Plant species were the same as at site (5).

(7) North of parking lot in Primitive Group Camp area. This was an open area bordered by an oak-maple woodland on the north and east and by sycamores along the creek on the west.

(8) At Primitive Horseman's Camp on top of hill on Sprucevale Road; 3.22 km north of Sprucevale Lookout. The predominant trees here were American elm and quaking aspen, *Populus tremuloides*. The ground cover here was mostly Roman ragweed, *Ambrosia artemisiifolia*.

RESULTS AND DISCUSSION

Species and forms collected during this study are listed in Table 1 according to the most recent regional check list (Hodges et al. 1983) and updated by Brown (1983 and 1986), Ferris (1989), Gall (1990), Kononenko et al (1989), Lafontaine et al (1986), McCabe (1980) and Poole (1989). The numbers preceding the scientific name are the check list numbers from the Hodges check list.

Following the check list number is the genus, species, subspecies, author, and date of collection. When more than one collection date is listed, the first is the earliest seasonal record of collection, and the second is the latest. Following the date of collection is the method of collection abbreviated as indicated at the bottom of Table 1. The number following the method of collection is the number of individuals collected by that method.

A total of 634 species of Lepidoptera, representing 29 families, was collected and identified. This total is composed of 1,972 records and 3,326 specimens. A record may include from 1 to 161 individuals. Of the total number of species 27 were butterflies, 10 were skippers and 597 were moths (Table 1).

In 1990 two species were discovered at Beaver Creek State Park which had not been previously recorded for Ohio: *Euagrotis forbesi* Franc. and *Spodoptera eridania* (Cram.). One male *E. forbesi* was collected on 26 June while a single specimen of *S. eridania* was collected on 6 October.

The gypsy moth was first discovered in the Park during this study. On 24 Jul 1990 two males were captured in a bait trap 3 m north of the Service Building. That same evening four more gypsy moth males were recorded from an Ellisco black light trap operated 1.5 m north of the Service Building. Four more gypsy moth males were collected in a black light trap on 9 August 1990 in the same area.

The collection of *Polia nimbosa* is only the second record for Ohio and the species appears to be a rare resident. The first recorded capture for *P. nimbosa* was in Cuyahoga County. Forbes (1954) described its range from Quebec to the mountains of Virginia and "west". Its host plant(s) are unknown so its residential status cannot be related to its host plant range.

Similarly the occurrence of the single specimen of *Idia laurenti* represents the second specimen collected in the State. This is believed to indicate that it, too, is a rare resident. The first Ohio specimen was taken in Hocking County. The previously known range of *I. laurenti* was from central New York State to western Pennsylvania (Forbes, 1954). These two records extend its known range many km to the west. The larval food plants of *laurenti* have not yet been discovered but it is most probably associated with the fungi occurring on dead leaves as are all other species in this genus.

The collection of a single male *Euagrotis forbesi*, and the fact that it has never before been collected in Ohio, indicates that it is a rare resident. Its known range substantiates this theory since it was described by Forbes (1954) as "Canada and the northern states." Forbes also adds "the distribution uncertain through confusion with the preceding (*Euagrotis illapsa* Wlk.), but not reaching that of true (*Euagrotis*) *lubricans*." The collection of *Spodoptera eridania* undoubtedly represents the capture of a species which readily migrates.

Three of the species collected at Beaver Creek State Park, *Polia nimbosa*, *Idia laurenti*, and *Euagrotis forbesi* have been designated as special interest. The special interest category includes local, or very rare, species because Ohio is at the extreme edge of their geographical range. The three species mentioned above are believed to be rare residents of Ohio and in the event that this Park is treated for gypsy moth the chances of survival of all three species in Ohio could be seriously decreased.

Table 1. Check list of Lepidoptera collected at Beaver Creek State Park, Columbiana County, Ohio, 1985 and 1990. Abbreviations for methods of collection are: BL, black light and sheet; BLT, black light trap; BT, sugar-baited trap; E, egg; G, gall; L, larval collection; N, netted; O, observed; S, sugaring.

	TINEIDAE	
372	<i>Acrolophus plumifrontella</i> (Clem.)	7 Jul 1990 BLT 1.
373	<i>Acrolophus popeanella</i> (Clem.)	7 Jul–9 Aug 1990 BLT 3, MVL 1, S 2.
	PSYCHIDAE	
443	<i>Astala confederata</i> (G. & R.)	1–25 Jun 1990 L 2.
	OECOPHORIDAE	
951	<i>Machimia tentoriferella</i> Clem.	9–26 Sep 1990 MVL 2.
982	<i>Ethmia maceliosiella</i> Bsk.	17 Oct 1990 MVL 1.
992	<i>Ethmia zelleriella</i> (Cham.)	17 Aug 1990 MVL 3.
1011	<i>Antaeotricha schlaegeri</i> (Zell.)	12 Aug 1985 BLT 1.
1014	<i>Antaeotricha leucillana</i> (Zell.)	8 May–1 Jun 1990 BLT 3, MVL 1.
	GELECHIIDAE	
1986	<i>Gnorimoschema gallaesolidaginis</i> (Riley)	21 Sep 1985 G 3.
	YPONOMEUTIDAE	
2401	<i>Atteva punctella</i> (Cram.)	21 Sep–5 Oct 1985 BL 2, 24 Jul–17 Oct 1990 BLT 3, MVL 1.
	SESIIDAE	
2550	<i>Synanthedon pictipes</i> (G. & R.)	10 Jul 1985 L 1, 23 Apr 1990 L 1.
2554	<i>Synanthedon acerni</i> (Clem.)	25 Jun 1990 BLT 1.
	COSSIDAE	
2693	<i>Prionoxystus robiniae</i> (Peck)	26 Jun 1990 MVL 1.
	TORTRICIDAE	
2738	<i>Endothenia hebesana</i> (Wlk.)	8 May 1990 BLT 1.
2749	<i>Eumaroza malachitana</i> (Zell.)	9 Aug 1990 MVL 2.
2772	<i>Phaecasiophora niveiguttana</i> Grt.	25 Jul–17 Aug 1990 BLT 6, MVL 1.
2776	<i>Olethreutes furfurana</i> (McD.)	9 Aug 1990 MVL 1.
2788	<i>Olethreutes inornatana</i> (Clem.)	9 Aug 1990 BLT 2.
2823	<i>Olethreutes fasciatana</i> (Clem.)	26 Jun 1990 MVL 1.
2859	<i>Olethreutes cespitana</i> (Hbn.)	1 Jun 1990 MVL 2.
2860	<i>Hedya separatana</i> (Kft.)	9 Aug 1990 MVL 2.
2973	<i>Phaneta striatana</i> (Clem.)	8 May 1990 BLT.
3073	<i>Eucosoma monitorana</i> Heinr.	8 May 1990 MVL 1.
3074	<i>Eucosoma tocullionana</i> Heinr.	8 May 1990 BLT 1.
3116.1	<i>Eucosoma similiana</i> (Clem.)	10 Sep 1991 MVL 1.
3201	<i>Epiblema infelix</i> Heinr.	1 Jun 1990 MVL 1.
3230	<i>Proteoteras aesculana</i> Riley	23 Apr 1990 MVL 1.
3247	<i>Pseudexentera mali</i> Free.	9 Apr 1990 BLT 1.
3253.1	<i>Pseudexentera sepia</i> Miller	9 Apr 1990 BLT 3.
3253.2	<i>Pseudexentera hodsoni</i> Miller	9 Apr 1990 MVL 1.
3258	<i>Pseudexentera virginiana</i> (Clem.)	9 Apr 1990 BLT 1.
3261	<i>Gretchena watchungana</i> (Kft.)	8 May 1990 BLT 1.
3263	<i>Gretchena bolliana</i> (Slingerland)	8 May 1990 MVL 1.
3265	<i>Gretchena delicatana</i> Heinr.	8 May 1990 BLT 2, MVL 2.
3333	<i>Catastega timidella</i> Clem.	8 May 1990 MVL 2. (<i>Epinotia</i> in Hodges et al 1983; updated by Brown 1986).
3334	<i>Catastega aceriella</i> Clem.	8 May 1990 BLT 4. (<i>Epinotia</i> in Hodges et al 1983; updated by Brown 1986).
3354	<i>Ancylis nubeculana</i> (Clem.)	1 Jun 1990 MVL 1.
3370	<i>Ancylis platanana</i> (Clem.)	8 Jun 1990 BLT 1.
3375	<i>Ancylis divisana</i> (Wlk.)	8 May–9 Aug 1990 BLT 3.
3438	<i>Grapholita eclipsana</i> Zell.	8 May 1990 BLT.
3492	<i>Cydia pomonella</i> (L.)	9 Aug 1990 BLT 1.
3494	<i>Cydia latiferreanus</i> (Wlsm.)	24 Jul–17 Aug 1990 BLT 2, MVL 2. (<i>Melissopus latiferreanus</i> in Hodges et al. 1983; updated by Brown 1983).
3495	<i>Ecdytoplopha punctidiscana</i> (Dyar)	26 Jun–9 Aug 1990 MVL 3.
3497	<i>Ecdytoplopha insiticihana</i> Zell.	1 Jun–6 Jul 1990 MVL 3.
3510	<i>Acleris nivisellana</i> (Wlsm.)	8 May 1990 BLT 1.

(continued)

- 3517 *Acleris subnivana* (Wlk.) 9 Apr 1990 BLT 2.
 3594 *Pandemis limitana* (Rob.) 27 Aug 1985 BL 1.
 3602 *Argyrotaenia pinatubana* (Kft.) 8 May 1990 BLT 2.
 3607 *Argyrotaenia occultana* Free. 9 Apr 1990 BLT 1.
 3625 *Argyrotaenia mariana* (Fern.) 8 May 1990 BLT 1.
 3635 *Choristoneura rosaceana* (Harr.) 25–26 Jun 1990 BLT 2, MVL 1.
 3672 *Syndemis afflictana* (Wlk.) 8 May 1990 MVL 1.
 3686 *Clepsis melaleucana* (Wlk.) 1 Jun 1990 MVL 3.
 3695 *Sparganothis sulfureana* (Clem.) 24 Jul–9 Sep 1990 MVL 3.
 3732 *Platynota flavedana* Clem. 17 Aug 1990 MVL 1.
 3740 *Platynota idaeusalis* (Wlk.) 9 May 1990 BLT 1.
 3748 *Amorbia humerosana* Clem. 1 Jun 1990 MVL 2.
 HESPERIIDAE
 3870 *Epargyreus clarus* (Cram.) 14 May 1988 N 1, 25 Jul–10 Sep 1990 N 4.
 3945 *Erynnis icelus* (Scudder & Burgess) 14 May–2 Jun 1988 & 1990 N 4.
 3946 *Erynnis brizo* (Bdv. & LeConte) 14 May 1988 N 1.
 3947 *Erynnis juvenalis* (F.) 8 May–25 Jul 1988 & 1990 N .
 3959 *Erynnis baptisiae* (Fbs.) 24 Jul–10 Sep 1990 N 4.
 4041 *Polites themistocles* (Latr.) 18 Sep 1990 N 1.
 4048 *Pompeius verna* (Edw.) 7–24 Jul 1990 N 7.
 4051 *Atrytone delaware* (Edw.) 7–24 Jul 1990 N 2.
 4059 *Poanes hobomok* (Harr.) 7 Jul–24 1990 N 2.
 4105 *Amblyscirtes vialis* (Edw.) 14 May–2 Jun 1988 & 1990 N 3.
 PAPILIONIDAE
 4159a *Papilio polyxenes asterius* Stoll 14 May–2 Jun 1988 & 1990 N 2.
 4176 *Papilio glaucus* L. 14 May–12 Aug 1985, 1988 & 1990 N 4.
 4181 *Papilio troilus* L. 14 May–10 Sep 1988 & 1990 BT 1, N 4.
 PIERIDAE
 4196 *Artogeia virginiana* (Edw.) 23 Apr–14 May 1988 & 1990 N 5.
 4197 *Artogeia rapae* (L.) 23 Apr–10 Jun 1985 N 4, O 2.
 4209 *Colias philodice* Godt. 8 May–8 Jul 1988 & 1990 N 4.
 4210 *Colias eurytheme* Bdv. 14 May–10 Jul 1985 & 1988 N 6.
 LYCAENIDAE
 4249 *Fenisica tarquinius* (F.) 10 Sep 1990 N 1.
 4251b *Lycaena phlaeas hypophlaeas* (Bvd.) 14 May–24 Jul 1988 & 1990 N 3.
 4285 *Satyrium liparops* (Leconte) 7 Jul 1990 N 1.
 4328 *Incisalia niphon* (Hbn.) 14 May 1988 N 1.
 4361 *Everes comyntas* (Godt.) 7 Jul 1990 N 1.
 4363 *Celastrina ladon* (Cram.) 23 Apr–10 Jun 1988 & 1990 N 3.
 NYMPHALIDAE
 4420 *Polygonia interrogationis* (F.) 24 Jul–17 Oct 1990 BT 2, N 4.
 4421 *Polygonia comma* (Harr.) 14 May–6 Oct 1985 & 1990 BT 1, N 5.
 4432 *Nymphalis antiopa* (L.) 14 May–17 Oct 1985, 1988 & 1990 BT 2, N 5.
 4434 *Vanessa virginiensis* (Drury) 14 May 1988 N 1.
 4437 *Vanessa atalanta* (L.) 5 May–6 Oct 1985 & 1990 BLT 1, N 4, O 1.
 4450 *Speyeria cybele* (F.) 18 Jun 1985 N 2.
 4451 *Speyeria aphrodite* (F.) 18 Jun 1985 N 2.
 4465 *Clossiana bellona* (F.) 14 May–10 Sep 1988 & 1990 N 4.
 4481 *Phyciodes tharos* (Drury) 8 May–24 Jul 1988 & 1990 N 3.
 SATYRIDAE
 4568 *Enodia portlandia* (F.) 18 Aug 1990 BT 1.
 4578 *Megisto cymela* (Cram.) 10 Jun–7 Jul 1985 & 1990 N 4.
 4587b *Cercyonis pegala alope* (F.) 7 Jul–9 Aug 1990 BLT 1, BT 3, N 5.
 DANAIDAE
 4614 *Danaus plexippus* L. 7 Jul–22 Sep 1985 & 1990 N 2.
 ZYGAENIDAE
 4624 *Harrisina americana* (Guer.) 7 Jul–9 Aug 1990 BLT 2, MVL 1.
 LIMACODIDAE
 4652 *Tortricidea testacea* Pack. 1 Jun 1990 BLT 4, MVL 5.
 4654 *Tortricidea flexuosa* (Grt.) 26 Jun–9 Aug 1990 BLT 2, MVL 3.
 4659 *Packardia geminata* (Pack.) 26 Jun 1990 MVL 2.
 4669 *Apoda biguttata* (Pack.) 25 Jun–10 Jul 1985 & 1990 BL 1, MVL 2.
 4671 *Prolimacodes badia* (Hbn.) 7–25 Jul 1985 & 1990 BL 2, 5, MVL 1.

- 4681 *Isa textula* (H.-S.) 7–10 Jul 1985 & 1990 BL 3, MVL 2.
 4697 *Euclea delphinii* (Bdv.) 25 Jun–10 Jul 1985 & 1990 BL 2, MVL 2.
 4698 *Parasa chlothis* (H.-S.) 10–25 Jul 1985 & 1990 BL 1, BLT 1.
 4700 *Sibine stimulea* (Clem.) 7 Jul 1990 BLT 1.
- PYRALIDAE
- 4897 *Evergestis pallidata* (Hufn.) 27 Aug 1985 BLT 1.
 4944 *Crocidophora serratissimalis* Zell. 7 Jul 1990 S 1.
 4945 *Crocidophora tuberculalis* Led. 7 Jul 1990 S 2.
 4947 *Ostrinia obumbratalis* (Led.) 8 Jul 1990 S 1.
 4949 *Ostrinia nubilalis* (Hbn.) 1 Jun–21 Sep 1985–1990 BLT 24, MVL 10.
 4962 *Hahncappisia marculenta* (G. & R.) 8 May–27 Aug 1990 MVL 4, S 1.
 4975 *Achyra rantalis* (Gn.) 6 Oct 1990 BLT 1.
 5040 *Pyrausta bicoloralis* (Gn.) 17 Aug 1990 MVL 1.
 5079 *Udea rubigalis* (Gn.) 8 Jul 1990 S 2.
 5156 *Nomophila nearctica* Mun. 10 Sep 1990 MVL 2.
 5159 *Desmia funeralis* (Hbn.) 8 May–10 Aug 1985 & 1990 BL 1, BLT 8, S 1.
 5182 *Blepharomastix ranalis* (Gn.) 18–26 Jun 1985 & 1990 BL 1, BLT 1, MVL 2, S 1.
- 5226 *Palpita magniferalis* (Wlk.) 18 Jun–9 Aug 1985 & 1990 BL 1, BLT 1.
 5228 *Polygrammodes flavidalis* (Gn.) 7 Jul–25 Jul 1990 BLT 1, MVL 1, S 2.
 5241 *Pantographa limata* (G. & R.) 7 Jul–13 Aug 1985 & 1990 BLT 6, MVL 2.
 5250 *Lygropia rivulalis* Hamp. 7–8 Jul MVL 1, S 1.
 5275 *Herpetogramma pertextalis* (Led.) 10 Jul 1985 BL 1.
 5277 *Herpetogramma thestealis* (Wlk.) 8 Jul 1990 S 3.
 5280 *Herpetogramma aeglealis* (Wlk.) 7 Jul 1990 S 1.
 5362 *Crambus agitatellus* Clem. 26 Jun–9 Aug 1990 BLT 4, S 1.
 5363 *Crambus saltuellus* Zell. 26 Jun 1990 S 1.
 5365 *Crambus girardellus* Clem. 26 Jun 1990 S 1.
 5378 *Crambus laqueatellus* Clem. 1 Jun 1990 MVL 2.
 5391 *Chrysoteuchia topiaria* (Zell.) 7 Jul 1990 MVL 2.
 5420 *Microcrambus elegans* (Clem.) 26 Jun–9 Aug 1990 BLT 2, MVL 1.
 5450 *Parapediasia decorella* (Zinck.) 9 Aug 1990 MVL 1.
 5451 *Parapediasia teterella* (Zinck.) 9 Aug 1990 BLT 1.
 5464 *Urola nivalis* (Drury) 7 Jul 1990 MVL 1.
 5518 *Aglossa cuprina* Zell. 9 Aug 1990 BLT 2.
 5524 *Hypsopygia costalis* (F.) 25 Jun–21 Sep 1985 & 1990 BLT 4, S 22.
 5533 *Herculia olinalis* (Gn.) 7–10 Jul 1985 & 1990 BL 1, MVL 1.
 5579 *Epipaschia zelleri* (Grt.) 10 Jul–9 Aug 1990 BLT 2.
 5619 *Tetralopha baptisiella* Fern. 17 Aug 1990 BLT 1, MVL 2.
 5622 *Galleria mellonella* (L.) 24 Jul 1990 MVL 1.
 5797 *Nephoterix virgatella* (Clem.) 9 Aug–10 Sep 1990 MVL 2.
 5847 *Dioryctria disclusa* Heinr. 25 Jun–10 Aug 1990 BLT 1, MVL 1.
 5926 *Canarsia ulmiarrosorella* (Clem.) 8 May 1990 BLT 1.
- THYATIRIDAE
- 6235 *Habrosyne scripta* (Gosse) 18 Jun–13 Aug 1985 & 1990 BL 2, MVL 1, S 3.
 6237 *Pseudothyatira cymatophoroides* (Gn.) 21 Jun–9 Sep 1985 & 1990 BL 1, BLT 1, MVL 1, S 2.
- 6240 *Euthyatira pudens* (Gn.) 23 Apr–5 May 1985 & 1990 BL 1, BLT 3, S 4.
- DREPANIDAE
- 6251 *Drepana arcuata* Wlk. 9 Apr–9 Aug 1990 BLT 2, MVL 8.
 6255 *Oreta rosea* (Wlk.) 26 Jun 1990 BLT 1.
- GEOMETRIDAE
- 6261 *Heliomata cycladata* G. & R. 8 May–10 Jul 1985 & 1990 BL 3, BLT 5, MVL 10.
 6272 *Eumacaria latiferrugata* (Wlk.) 13 Aug 1985 BL 1.
 6273 *Itame pustularia* (Gn.) 25 Jun–12 Aug 1985 & 1990 BL 2, BLT 1, MVL 1.
 6299 *Itame coortaria* (Hulst.) 26 Jun 1990 MVL 1, BLT 100, S 1.
 6303 *Itame subcessaria* (Wlk.) 25 Jun 1990 BLT 2.
 6326 *Semiothisa aemulataria* (Wlk.) 8 May–12 Aug 1985 & 1990 BL 1, BLT 15, MVL 3.
 6331 *Semiothisa promiscuata* Fgn. 10 Jul 1985 BL 1.

(continued)

- 6340 *Semiothisa minorata* (Pack.) 9 Aug 1990 BLT 1.
 6341 *Semiothisa bicolorata* (F.) 25 Jun–8 Jul 1990 BLT 4.
 6347 *Semiothisa pinistrobata* Fgn. 8 Jul 1990 BLT 2.
 6348 *Semiothisa fissinotata* (Wlk.) 22 Apr–8 Jul 1990 BLT 6, MVL 3.
 6386 *Semiothisa ocellinata* (Gn.) 8 May–24 Jul 1985 & 1990 BLT 1, MVL 1, S 2.
 6584 *Anacamptodes humaria* (Gn.) 5 May–30 Jul 1985 BL, BLT 3.
 6588 *Iridopsis larvaria* (Gn.) 5–8 May 1985 & 1990 BL 4, BLT 5, MVL 6.
 6590 *Anavitrinella pampinaria* (Gn.) 13 Aug 1985 BL 3.
 6597 *Ectropis crepuscularia* (D. & S.) 8 May 1990 BLT 1.
 6598 *Protoboarmia porcelaria* (Gn.) 22 Apr–19 Jun 1985 & 1990 BLT 1, MVL 1.
 6599 *Epimecis hortaria* (F.) 23 Apr–10 Jun 1985 & 1990 BL 5, BLT 2.
 6620 *Melanolophia canadaria* (Gn.) 9 Apr–8 May 1990 BLT 13, MVL 3, S 2.
 6638 *Eufidonia notataria* (Wlk.) 1 Jun 1990 MVL 4.
 6640a *Biston betularia cognataria* (Gn.) 8 May–10 Jun 1985 1990 BL 3, BLT 2, MVL 2.
 6654 *Hypagyrtis unipunctata* (Haw.) 19 Jun–12 Aug 1985 BL 3.
 6658 *Phigalia titea* (Cram.) 12 Mar–23 Apr 1990 BLT 48, MVL 24.
 6660 *Phigalia strigataria* (Minot) 15 Mar–9 Apr 1990 BLT 4, S 1.
 6662 *Palaearcta vernata* (Peck) 12 Mar 1990 BL 1, BLT 32.
 6665 *Erannis tiliaria* (Harr.) 1 Nov 1990 BLT 2.
 6667 *Lomographa vestaliata* (Gn.) 5–8 May 1985 & 1990 BL 1, BLT 5, MVL 2.
 6668 *Lomographa glomeraria* (Grt.) 9 Apr 8 May 1990 BLT 87, BT 1, MVL 43.
 6720 *Lytrosis unitaria* (H.-S.) 26 Jun–10 Jul 1985 & 1990 BL 3, MVL 1, BLT 3.
 6724 *Euchlaena serrata* (Drury) 10–26 Jun 1985 & 1990 BL 2, BLT 7.
 6726 *Euchlaena obtusaria* (Hbn.) 1 Jun–13 Aug 1985 & 1990 BL 1, BLT 6.
 6729 *Euchlaena johnsonaria* (Fitch) 17 Aug–9 Sep 1990 BLT 2.
 6733 *Euchlaena amoenaria* (Gn.) 26 Jun–12 Aug 1985 & 1990 BLT 2.
 6735 *Euchlaena pectinaria* (D. & S.) 1 Jun–12 Aug 1985 & 1990 BLT 3.
 6737 *Euchlaena tigrinaria* (Gn.) 1 Jun 1990 MVL 2.
 6739 *Euchlaena irrorata* (B. & McD.) 18 Jun 1985 BLT 2.
 6740 *Xanthotype urticaria* Swett 1 Jun–27 Aug 1985 & 1990 BLT 8, MVL 1.
 6753 *Pero honestaria* (Wlk.) 22 Apr–22 Jun 1985 & 1990 BL 5, BLT 52.
 6754 *Pero hubneraria* (Gn.) 23 Apr 1990 MVL 1.
 6755 *Pero morrisonaria* (Hy. Edw.) 1 Jun 1990 BLT 1.
 6763 *Nacophora quernaria* (J. E. Smith) 1–25 Jun 1990 BLT 1, MVL 1.
 6796 *Campaea perlata* (Gn.) 12 Aug 1985 BL 1, BLT 9.
 6797 *Ennomos magnaria* Gn. 21 Sep–17 Oct 1985 & 1990 BLT 18, MVL 9.
 6818 *Selenia kentaria* (G. & R.) 23 Apr–10 Jul 1985 & 1990 BL 2, BLT 21, MVL 4.
 6819 *Metanema inatormaria* Gn. 25 Jun–17 Aug 1985 & 1990 BL 2, BLT 1, MVL 2.
 6826 *Metarranthis hypochraria* (H.-S.) 10 Jun 1985 BLT 3.
 6836 *Anagoga occiduaria* (Wlk.) 8 May–28 Jul 1990 BL 1, BLT 1.
 6837.1 *Probole alienaria nyssaria* (Gn.) 9 Apr–8 May 1990 BLT 1, MVL 2.
 6838 *Probole amicaria* (H.-S.) 8 May–10 Jul 1985 & 1990 BL 3, BLT 1, MVL 2.
 6840 *Plagodis serinaria* H.-S. 8 May–26 Jun 1990 BLT 4, MVL 6.
 6841 *Plagodis keutzingeri* (Grt.) 8 May–12 Aug 1985 & 1990 BLT 7, MVL 7.
 6843 *Plagodis fervidaria* (H.-S.) 8 May 1990 MVL 5.
 6844 *Plagodis alchoolaria* (Gn.) 1 Jun–12 Aug 1985 & 1990 BL 5, MVL 2.
 6863 *Caripeta divisata* Wlk. 13–27 Aug 1985 BLT 3.
 6885 *Besma quercivoraria* (Gn.) 8 May–13 Aug 1985 & 1990 BLT 7, MVL 2.
 6888 *Lambdina fuscicollaria* (Gn.) 26 Sep 1985 BLT 3.
 6892 *Lambdina pellucidaria* (G. & R.) 22 Apr–9 Aug 1990 BLT 14, MVL 3.
 6894 *Lambdina fervidaria* (Hbn.) 1 Jun 1990 BLT 1.
 6906 *Nepytia canosaria* (Wlk.) 26 Sep 1990 MVL 1.
 6941 *Eusarca confusaria* Hbn. 7 Jul–27 Aug 1985 & 1990 BL 1, BLT 3, MVL 1, S 1.
 6963 *Tetracis crocallata* Gn. 1–26 Jun 1990 BLT 3, MVL 5.
 6964 *Tetracis cachexiata* Gn. 8 May 1990 BLT 1.
 6965 *Eugonobapta nivosaria* (Gn.) 19 Jun–8 Jul 1985 & 1990 BL 1, MVL 2.
 6966 *Eutrapela clemataria* (J. E. Smith) 9 Apr–7 Jul 1985 & 1990 BL 23, MVL 4.
 6982 *Prochoerodes transversata* (Drury) 5 May–17 Oct 1985 & 1990 BL 14, MVL 3.
 6987 *Antepione thisoaria* (Gn.) 22 Apr 1990 BLT 1.
 7046a *Nemoria bistriaria rubromarginaria* (Pack.) 22 Apr–10 Jul 1985 & 1990 BL 5, BLT 10, MVL 1.
 7053 *Dichorda iridaria* (Gn.) 13 Aug 1985 BL 2.

- 7075 *Chloropteryx tepperaria* (Hulst) 5 May 1985 BL 1.
 7084 *Hethemia pistasciaria* (Gn.) 8 May 1990 BLT 3, MVL 4.
 7132 *Pleuroprucha insularia* (Gn.) 26 Sep–17 Oct 1990 BLT 1, MVL 4.
 7139 *Cyclophora pendulinaria* (Gn.) 8 May 1990 MVL 1.
 7159 *Scopula limboundata* (Haw.) 18 Jun–18 Jul 1985 & 1990 BLT 3, MVL 1.
 7189 *Dysstroma hersiliata* (Gn.) 25 Jun 1990 BLT 2.
 7196 *Eulithis diversilineata* (Hbn.) 12 Aug–17 Oct 1985 & 1990 BL 1, BLT 13, MVL 2.
 7214 *Ecliptopera atricolorata* (G. & R.) 13 Aug 1985 BL 1.
 7235 *Hydriomena divisaria* (Wlk.) 9–23 Apr 1990 MVL 3.
 7237 *Hydriomena transfigurata* Swett 8 May 1990 BLT 1.
 7292 *Hydria prunivora* (Fgn.) 1 Jun 1990 BLT 1.
 7307 *Mesoleuca ruficollata* (Gn.) 1 Jun 1990 MVL 1.
 7329 *Anticlea vasiliata* Gn. 22 Apr–5 May 1985 & 1990 BL 1, BLT 2, MVL 3.
 7330 *Anticlea multifera* (Wlk.) 8 May 1990 BLT 2.
 7333 *Stamnodes gibbicostata* (Wlk.) 26 Sep 1990 MVL 1.
 7388 *Xanthorhoe ferrugata* (Cl.) 9 Mar–13 Aug 1985 & 1990 BLT 9, MVL 5, S 2.
 7390 *Xanthorhoe lacustrata* (Gn.) 9 Apr–19 Jun 1985 & 1990 BL 5, BLT 2, MVL 1.
 7399a *Euphyia unangulata intermedia* (Gn.) 11 Jul–13 Aug 1985 BL, BLT 5.
 7414 *Orthonama obstipata* (F.) 26 Sep 1990 BLT 1.
 7416 *Orthonama centrostrigaria* (Woll.) 18 Jun–27 Aug 1985 BL 1, BLT 9.
 7430 *Trichodezia albovittata* (Gn.) 8 May–13 Aug 1985–1990 BL 1, BLT 8, N 1.
 7440 *Eubaphe mendica* (Wlk.) 1 Jun–13 Aug 1985 & 1990 BLT 8, MVL 1.
 7445 *Horisme intestinalis* (Gn.) 13 Aug 1985 BLT 1.
 7474 *Eupithecia miserulata* Grt. 23 Apr–17 Oct 1990 MVL 2.
 7637 *Cladara limitaria* (Wlk.) 22 Apr 1990 MVL 1.
 7638 *Cladara anguilineata* (G. & R.) 22 Apr 1990 MVL 1.
 7639 *Cladara atroliturata* (Wlk.) 23 Apr–5 May 1985 & 1990 BL 2, BLT 2, MVL 2.
 7647 *Heterophleps triguttaria* H.-S. 1 Jun–8 Jul 1985 & 1990 BL 3, BLT 1, S 5.
 7648 *Dyspteris abortivaria* (H.-S.) 1 Jun 1990 MVL 1.
 EPIBLEMIDAE
 7653 *Calledapteryx dryopterata* Grt. 9 Aug 1990 MVL 1.
 APATELODIDAE
 7663 *Apatelodes torrefacta* (J. E. Smith) 25 Jun–24 Jul 1985 & 1990 BL 2, BLT 1, MVL 4.
 7665 *Olceclostera angelica* (Grt.) 10 Jul 1985 BL 3.
 LASIOCAMPIDAE
 7670 *Tolyte velleda* (Stoll) 21–26 Sep 1985 & 1990 BL 1, BLT 18, MVL 1.
 7673 *Tolyte laricis* (Fitch) 9 Sep 1990 MVL 2.
 7687 *Phylodesma americana* (Harr.) 9 Apr–8 May 1990 BLT 4, MVL 3.
 7698 *Malacosoma dissτρια* Hbn. 18 Jun–10 Jul 1985 & 1990 BL 12, BLT 35.
 7701 *Malacosoma americanum* (F.) 18 Jun–10 Jul 1985 & 1990 BL 4, BLT 35, E 31.
 SATURNIIDAE
 7704 *Eacles imperialis* (Drury) 7 Jul–9 Aug 1985 & 1990 BL 3, MVL 7.
 7715 *Dryocampa rubicunda* (F.) 1 Jun–12 Aug 1985 & 1990 BL 13, MVL 3.
 7719 *Anisota senatoria* (J. E. Smith) 9–10 Sep 1990 L 3.
 7723 *Anisota virginiana* (Drury) 7–18 Jul 1985 & 1990 BL 2, MVL 2.
 7746 *Automeris io* (F.) 18 Jun–18 Jul 1985 & 1990 BL 5, BLT 3, MVL 11.
 7757 *Antheraea polyphemus* (Cram.) 25 Jun–10 Jul 1985 & 1990 BL 3, BLT 7, MVL 7.
 7758 *Actias luna* (L.) 22 Apr–17 Aug 1985 & 1990 BL 3, MVL 6.
 7764 *Callosamia promethea* (Drury) 18 Jul 1985 BL 1.
 7765 *Callosamia angulifera* (Wlk.) 8 Jul 1990 MVL 2.
 SPHINGIDAE
 7783 *Manduca jasminearum* (Guer.) 25 Jul 1990 BLT 1.
 7786 *Ceratomia amyntor* (Geyer) 1 Jun–9 Aug 1990 BLT 1, MVL 6.
 7787 *Ceratomia undulosa* (Wlk.) 7 Jul–17 Aug 1985 & 1990 BL 3, BLT 2.
 7789 *Ceratomia catalpae* (Bdv.) 8–25 Jul 1990 BLT 1, MVL 1.
 7809 *Sphinx kalmiae* J. E. Smith 11 Jun–27 Aug 1985 & 1990 BL 2, S 1.
 7821 *Smerinthus jamaicensis* (Drury) 13 Aug 1985 BLT 1.
 7824 *Paonias excaecatus* (J. E. Smith) 25 Jun–11 Jul 1985 & 1990 BL 3, BLT 8.

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- 7825 *Paonias myops* (J. E. Smith) 5 May–17 Aug 1985 & 1990 BL 1, BLT 8, MVL 2.
 7827 *Laotioe juglandis* (J. E. Smith) 7–10 Jul 1985 & 1990 BL 3, MVL 1.
 7828 *Pachysphinx modesta* (Harr.) 18 Jul 1985 BL 1.
 7870 *Sphecodina abbottii* (Swainson) 1 Jun–24 Jul 1990 BT 1, MVL 1.
 7871 *Deidamia inscripta* (Harr.) 23 Apr–8 May 1990 BLT 2.
 7873 *Amphion floridensis* B. P. Clark 24 Jul 1990 BT 1.
 7885 *Darapsa myron* (Cram.) 25 Jun–9 Aug 1985 & 1990 B 5, BT 7, S 2.
 7886 *Darapsa pholus* (Cram.) 1 Jul–17 Aug 1985 & 1990 BL 3, MVL 2, S 2.
- NOTODONTIDAE
- 7895 *Clostera albosigma* Fitch 9 Apr–1 Jun 1990 BLT 6.
 7896 *Clostera inclusa* (Hbn.) 5 May 1985 BL 1.
 7898 *Clostera strigosa* (Grt.) 8 May 1990 BLT 1.
 7901 *Clostera apicalis* (Wlk.) 24 Jul 1990 MVL 1.
 7902 *Datana minuscula* (Drury) 26 Jun–9 Aug 1985 BL 3, BLT 3, MVL 2.
 7903 *Datana angusii* G. & R. 25 Jun–10 Jul 1985 & 1990 BL 1, BLT 2.
 7906 *Datana contracta* Wlk. 26 Jun–10 Jul 1985 & 1990 BL 1, BLT 2.
 7907 *Datana integerrima* G. & R. 10 Jul 1985 BL 1.
 7915 *Nadata gibbosa* (J. E. Smith) 26 Jun–12 Aug 1985 & 1990 BL 1, BLT 12.
 7917 *Hyperaeschra georgica* (H.–S.) 8 May 1990 BLT 1.
 7919 *Peridea basitriens* (Wlk.) 24 Jul–13 Aug 1985 & 1990 BL 1, BLT 5.
 7920 *Peridea angulosa* (J. E. Smith) 1 Jun–27 Aug 1985 BL 5, MVL 2.
 7921 *Peridea ferruginea* (Pack.) 10–24 Jul 1985 BL 3, MVL 1.
 7922 *Pheosia rimosa* Pack. 18 Jun–17 Aug 1985 & 1990 BLT 3, MVL 1.
 7924 *Odontotia elegans* (Stkr.) 12 Aug 1985 BL 1.
 7929 *Nerice bidentata* Wlk. 22 Apr–12 Aug 1985 & 1990 BL 1, BLT 11.
 7930 *Ellida caniplata* (Wlk.) 9 Apr–12 Aug 1985 & 1990 BL 7, BLT 1, MVL 4.
 7931 *Gluphisia septentrionis* Wlk. 1 Jun–10 Jul 1985 & 1990 BL 5, BLT 1, MVL 1.
 7933 *Gluphisia avimaculata* Hudson 8 May 1990 MVL 1.
 7936 *Furcula borealis* (Guer.-Meneville) 8 May–27 Aug 1985 & 1990 BL 2, BLT 1, MVL 2.
 7937 *Furcula cinerea* (Wlk.) 8 May 1990 MVL 1.
 7951 *Symmerista albifrons* (J. E. Smith) 22 Apr–17 Aug 1985 & 1990 BL 3, BLT 6, BT 1, MVL 2.
 7952 *Symmerista canicosta* Franc. 23 Apr 1990 BLT 1.
 7957 *Dasylophia anguina* (J. E. Smith) 25 Jun 1990 BLT 1.
 7958 *Dasylophia thyatiroides* (Wlk.) 5 May 1985 BL 1, S 3.
 7975 *Macrurocampa marthesia* (Cram.) 10 Jul–12 Aug 1985 BL 1, BLT 3.
 7990 *Heterocampa umbrata* Wlk. 25 Jun 1990 MVL 1.
 7994 *Heterocampa guttivitta* (Wlk.) 8 May–9 Aug 1985 & 1990 BL 3, BLT 1, MVL 2.
 7998 *Lochmaeus manteo* Doubleday 9–13 Aug 1985 & 1991 BLT 1, MVL 2.
 7999 *Lochmaeus bilineata* (Pack.) 1 Jun–13 Aug 1985 & 1990 BL 3, MVL 1.
 8005 *Schizura ipomoeae* Doubleday 18 Jun 1985 BLT 1.
 8007 *Schizura unicornis* (J. E. Smith) 7 Jul 1990 MVL 1.
 8010 *Schizura concinna* 9 Aug 1990 MVL 1.
 8011 *Schizura leptinoides* (Grt.) 10 Jul 1985 BL 1.
 8012 *Oligocentria semirufescens* (Wlk.) 11 Jul 1985 BL 1.
 8017 *Oligocentria lignicolor* (Wlk.) 10 Jul–27 Aug 1985 BL, BLT 4, MVL 2.
- ARCTIIDAE
- 8098 *Clemensia albata* Pack. 27 Aug 1985 BLT 1.
 8104 *Comachara cadburyi* Franc. 8 May–1 Jun 1990 MVL 3.
 8107 *Haploa clymene* (Brown) 24 Jul 1990 MVL 2, BLT 7.
 8111 *Haploa lecontei* (Guer.-Meneville) 7–8 Jul 1990 MVL 3.
 8112 *Haploa confusa* (Lyman) 7 Jul 1990 MVL 1.
 8121 *Holomelina aurantia* (Hbn.) 27 May 1990 BLT 1.
 8124 *Holomelina immaculata* (Reak.) 12–27 Aug 1985 & 1990 BL 1, BLT 4.
 8129 *Pyrrharctia isabella* (J. E. Smith) 1 Jun–9 Sep 1985 & 1990 BL 1, BLT 15, MVL 2.
 8131 *Estigmene acrea* (Drury) 9 Aug 1990 BLT 1.
 8133 *Spilosoma latipennis* Stretch 18 Jun 1985 BLT 1.
 8134 *Spilosoma congrua* Wlk. 8 May–18 Jun 1985 & 1990 BLT 3.
 8137 *Spilosoma virginica* (F.) 23 Apr–18 Jun 1985 & 1990 BLT 11, MVL 3.
 8140 *Hyphantria cunea* (Drury) 10 Jun 1985 BL 3, 23 Apr–9 Aug 1990 BLT 42.

- MVL 1.
- 8146 *Epantheria scribonia* (Stoll) 18 Jun–7 Jul 1985 & 1990 BL 3, MVL 2.
 8169 *Apantesis phalerata* (Harr.) 1 Jun–21 Sep 1985 & 1990 BL 1, BLT II, MVL 6.
 8188 *Grammia figurata* (Drury) 1 Jun 1990 BLT 1, MVL 2.
 8196 *Grammia parthenice* (W. Kirby.) 10 Sep 1990 BLT 1, MVL 2.
 8197 *Grammia virgo* (L.) 10 Jul 1985 BL 1.
 8203 *Halysidota tessellaris* (J. E. Smith) 18 Jun–27 Aug 1985 & 1990 BL 1, BLT II.
 8211 *Lophocampa caryae* Harr. 1 Jun 1990 BLT 1, MVL 1.
 8230 *Cynia tenera* Hbn. 18 Jun–27 Aug 1985 & 1990 BL 1, BLT 9, MVL 2.
 8231 *Cynia oregonensis* (Stretch) 1 Jun 1990 BLT 1.
 8238 *Euchaetes egle* (Drury) 8–10 Jul 1985 & 1990 BL 1, MVL 1.
 8267 *Cissepis fulvicollis* (Hbn.) 1 Jun–17 Oct 1985 & 1990 BL 1, BLT 32, MVL 1.
- LYMANTRIDAE
- 8296 *Dasychira basiflava* (Pack.) 19 Jun–13 Aug 1985 & 1990 BL 1, BLT 4.
 8302 *Dasychira obliquata* (G. & R.) 25 Jul–12 Aug 1985 & 1990 BL 1, BLT 5, MVL 2.
 8314 *Orgyia definita* Pack. 21 Sep–6 Oct 1985 & 1990 BL 3, BLT 2.
 8316 *Orgyia leucostigma* (J. E. Smith) 9 Aug–1 Nov 1985 & 1990 BL 5, BLT 15, MVL 32.
 8318 *Lymantria dispar* (L.) 24 Jul–9 Aug 1990 BLT 8, BT 2.
- NOCTUIDAE
- 8322 *Idia americalis* (Gn.) 26 Jun–21 Sep 1985 & 1990 BL 12, S 3.
 8323 *Idia aemula* Hbn. 1 Jun–1 Nov 1985 & 1990 BL 5, BLT 5, MVL 7, S 6.
 8326 *Idia rotundalis* (Wlk.) 24 Jun–9 Aug 1990 MVL 4, S 1.
 8327 *Idia forbesi* (French) 24 Jul 1990 S 4.
 8328 *Idia julia* (B. & McD.) 8 Jul 1990 S 7.
 8329 *Idia diminuendis* (B. & McD.) 17 Aug 1990 MVL 1.
 8331 *Idia laurenti* (Sm.) 10 Jul 1985 BLT 1. (State record)
 8334 *Idia lubricalis* (Gey.) 25 Jun–9 Aug 1990 S 18.
 8338 *Phalaenophana pyramusalis* (Wlk.) 5 May–8 Jul 1985 & 1990 BL 1, BLT 1, S 2.
 8345 *Zanclognatha laevigata* (Grt.) 25 Jun–9 Aug 1990 BLT 6, MVL 1, S 25.
 8347 *Zanclognatha obscuripennis* (Grt.) 24 Jul 1990 MVL 1, S 2.
 8352 *Zanclognatha jacchusalis* (Wlk.) 24 Jul 1990 S 1.
 8353 *Zanclognatha ochreipennis* (Grt.) 24 Jul–9 Oct 1990 BLT 1, MVL 3, S 10.
 8355 *Chytolita morbidalis* (Gn.) 25 Jun 1990 S 1.
 8360 *Hormisa orciferalis* Wlk. 27 May–1 Jul 1990 BLT 1, MVL 2.
 8362 *Phalaenostola metonalis* (Wlk.) 1 Jun–7 Jul 1990 MVL 2, S 1.
 8364 *Phalaenostola larentioides* Grt. 27 Aug 1990 MVL 1.
 8368 *Tetanolita floridana* (Sm.) 9–10 Sep 1990 MVL 4.
 8370 *Bleptina caradrinalis* Gn. 10 Jun–7 Jul 1990 BLT 3, MVL 5, S 3.
 8389 *Renia nemoralis* B. & McD. 9 Aug 1990 MVL 1.
 8381 *Renia discoloralis* Gn. 8 Jul–9 Aug 1990 BLT 1, MVL 2, S 3.
 8384.1 *Renia flavipunctalis* (Gey.) 24 Jul 1990 S 1.
 8393 *Lascoria ambiguaalis* Wlk. 5 May 1985 BL 1.
 8397 *Palthis angulalis* (Hbn.) 1 Jun–17 Oct 1990 BLT 1, MVL 4.
 8398 *Palthis asopialis* (Gn.) 1 Jun–21 Sep 1985 & 1990 BL 2, BLT 3, MVL 2.
 8404 *Rivula propinquialis* Gn. 10 Sep 1990 MVL 2.
 8427 *Dyspyralis puncticosta* (Sm.) 24 Jul 1990 S 12.
 8442 *Bomolocha baltimoralis* (Gn.) 23 Apr–2 Aug 1985 BL 5, BLT 1, MVL 14, S 1.
 8443 *Bomolocha bijugalis* (Wlk.) 5 May–1 Jun 1985 & 1990 BL 1, MVL 2.
 8445 *Bomolocha abalienalis* (Wlk.) 8 May–27 Aug 1985 & 1990 BL 5, BLT 1, MVL 7.
 8446 *Bomolocha deceptalis* (Wlk.) 11 Jul–13 Aug 1985 BL 2, BLT 1, S 2.
 8447 *Bomolocha madefactalis* (Gn.) 26 Jun–17 Aug 1990 BLT 2, MVL 1, S 1.
 8452 *Bomolocha edictalis* (Wlk.) 7 Jul 1990 BLT 1.
 8461 *Hypena humuli* Harr. 9 Apr 1990 BLT 1.
 8465 *Plathypena scabra* (F.) 26 Sep–17 Oct 1985 & 1990 BL 1, BLT 14, MVL 4.
 8479 *Spargaloma sexpunctata* Grt. 17 Aug 1990 BLT 1, MVL 1.
 8499 *Metalectra discalis* (Grt.) 25 Jun–24 Jul 1990 BLT 3, MVL 1, S 8.
 8500 *Metalectra quadrisignata* (Wlk.) 7 Jul 1990 S 4.
 8514 *Scolecocampa liburna* (Gey.) 8–24 Jul 1990 MVL 1, S 4.

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- 8534 *Plusiodonta compressipalpis* Gn. 8 May 1990 BLT 1.
 8536 *Calyptera canadensis* (Bethune) 13 Aug 1985 BLT 1.
 8555 *Scoliopteryx libatrix* (L.) 23 Apr 1990 S 2.
 8574 *Anticarsia gemmatalis* Hbn. 6 Oct 1990 S 1.
 8587 *Panopoda rufimargo* (Hbn.) 25 Jun–24 Jul 1985 & 1990 BL 3, BLT 2, MVL 6.
 8588 *Panopoda carneicosta* Gn. 25 Jun–17 Aug 1990 BLT 1, MVL 2.
 8591 *Phoberia atomaris* Hbn. 9 Apr–8 May 1990 BLT 16, MVL 2.
 8592 *Cissula spadix* (Cram.) 8 May 1990 S 1.
 8641 *Synedoidea grandirena* (Haw.) 25 Jun–10 Jul 1985 & 1990 BL 1, BLT 1, MVL 1.
 8689 *Zale lunata* (Drury) 5 May–10 Oct 1985 & 1990 BL 1, BLT 1, BT 2, S 8.
 8692 *Zale galbanata* (Morr.) 5 May 1985 BL 4.
 8695 *Zale undularis* (Drury) 8 May–1 Jun 1990 MVL 1, S 2.
 8697 *Zale minerea* (Gn.) 9 Apr–11 Jul 1985 & 1990 BL 3, BLT 41, MVL 7, S 30.
 8698 *Zale phaeocapna* Franc. 5–8 May 1985 & 1990 BL 1, MVL 1.
 8704 *Zale helata* (Sm.) 8 May 1990 S 1.
 8713 *Zale lunifera* (Hbn.) 22 Apr–8 May 1990 BLT 18, S 3.
 8716 *Zale unilineata* (Grt.) 8 May 1990 BLT 4, S 21.
 8717 *Zale horrida* Hbn. 25 Jun–24 Jul 1990 BLT 1, MVL 1, S 7.
 8719 *Euparthenos nubilus* (Hbn.) 1 Jun–17 Aug 1985 & 1990 BL 1, BLT 21, MVL 4, S 7.
 8721 *Allotria elonympha* (Hbn.) 8 May–24 Jul 1990 MVL 1, S 2.
 8727 *Parallelia bistraris* Hbn. 8 May–27 Aug 1985 & 1990 BL 3, BLT 1, S 12.
 8738 *Caenurgina crassiuscula* (Haw.) 10 Jul–27 Aug 1985 BL 1, BLT 3.
 8739 *Caenurgina erechtea* (Cram.) 5 May–27 Aug 1985 BL 2.
 8764 *Argyrostromis anilis* (Drury) 1 Jun–10 Jul 1985 & 1990 BL 1, BLT 5.
 8773 *Catocala epione* (Drury) 17 Aug 1990 BLT 1.
 8778 *Catocala habilis* Grt. 9–21 Sep 1985 & 1990 MVL 1, S 2.
 8779 *Catocala serena* Edw. 24 Jul 1990 MVL 1.
 8782 *Catocala flebilis* Grt. 10 Sep 1990 BLT 1.
 8784 *Catocala obscura* Stkr. 26 Sep 1990 BLT 1.
 8788 *Catocala resecta* Grt. 17 Aug–21 Sep 1985 & 1990 BLT 2, MVL 1, S 3.
 8795 *Catocala palaeogama* Gn. 17 Aug–10 Sep 1990 BLT 5, MVL 1.
 8796 *Catocala nebulosa* Edw. 9–17 Aug 1990 MVL 3, S 1.
 8797 *Catocala subnata* Grt. 12–17 Aug 1985 & 1990 BLT 2, MVL 1, S 1.
 8798 *Catocala neogama* (J. E. Smith) 21 Sep 1985 S 1.
 8801 *Catocala ilia* (Cram.) 8 Jul–21 Sep 1985 & 1990 BL 1, BLT 1, BT 1, S 6.
 8802 *Catocala cerogama* Gn. 9 Aug–21 Sep 1985 & 1990 S 2.
 8803 *Catocala relicta* Wlk. 9–21 Sep 1985 & 1990 BLT 3, S 5.
 8832 *Catocala cara* Gn. 21–26 Sep 1985 & 1990 BT 1, S 2.
 8834 *Catocala amatrix* (Hbn.) 21 Sep 1985 S 1.
 8857 *Catocala ultronia* (Hbn.) 24 Jul–26 Sep 1985 & 1990 BLT 14, S 9.
 8863 *Catocala mira* Grt. 9–17 Aug 1990 BLT 1, MVL 1.
 8864 *Catocala grynea* (Cram.) 17–27 Aug 1985 BL 1, BLT 1, MVL 1.
 8867 *Catocala blandula* Hulst 7–8 Jul 1990 BLT 2, S 6.
 8878 *Catocala amica* (Hbn.) 12–17 Aug 1985 & 1990 BL 1, MVL 2.
 8887 *Trichoplusia ni* (Hbn.) 6 Oct 1990 MVL 1.
 8890 *Pseudoplusia includens* (Wlk.) 9 Sep–6 Oct 1990 BLT 1, MVL 2.
 8897 *Diachrysia balluca* Gey. 10 Jul 1985 BL 1.
 8898 *Allographa aerea* (Hbn.) 1 Jun–17 Oct 1985 & 1990 BL 6, MVL 2.
 8905 *Eosporopteryx thyatyroides* (Gn.) 24 Jul–6 Oct 1990 BLT 1, S 2.
 8908 *Autographa precatonidis* (Gn.) 10 Jul–1 Nov 1985 & 1990 BL 3, BLT 11, MVL 4.
 8924 *Anagrapha falcifera* (Kby.) 11 Jul–9 Oct 1985 BL 3.
 8952 *Plusia contexta* Grt. 10 Sep 1990 BLT 1.
 8955 *Marathyssa inficita* (Wlk.) 25 Jun–10 Jul 1985 & 1990 BL 1, BLT 1, MVL 3.
 8957 *Paectes oculatrix* (Gn.) 1 Jun–27 Aug 1985 & 1990 BLT 4, MVL 2, S 1.
 8970 *Baileya ophthalmica* (Gn.) 1 Jun–12 Aug 1985 & 1990 BLT 2, MVL 1.
 8971 *Baileya dormitans* (Gn.) 23 Apr 1990 BLT 1.
 8972 *Baileya levitans* (Sm.) 23 Apr–12 Aug 1985 BL 3, BLT 4, MVL 3.
 8983 *Meganola minuscula* (Zell.) 9 Aug 1990 BLT 1.
 8983.1 *Meganola phylla* (Dyar) 8 May 1990 MVL 2.
 8992 *Noia triquetrana* (Fitch) 22 Apr 1990 22 BLT 1.

- 9037 *Hyperstrotia pervertens* (B. & McD.) 8 May–10 Sep 1990 BLT 1, MVL 2.
 9040 *Hyperstrotia secta* (Grt.) 1 Jun 1990 MVL 1.
 9047 *Lithacodia muscosula* (Gn.) 25 Jun–10 Jul 1985 & 1990 BL 2, BLT 2, S 5.
 9048 *Lithacodia albidula* (Gn.) 17 Aug 1990 BLT 1.
 9049 *Lithacodia synochitis* (G. & R.) 26 Jun 1990 BLT 2, MVL 2.
 9051 *Lithacodia musta* (G. & R.) 27 Aug 1990 BLT 1.
 9053 *Pseudostrotia carneola* (Gn.) 1 Jun–6 Oct 1985 & 1990 BLT 7, MVL 2, S 2.
 9057 *Homophoberia apicosa* (Haw.) 13 Aug 1985 BLT 1.
 9062 *Cerma cerintha* (Tr.) 1 Jun–10 Jul 1985 & 1990 BL 3, BLT 11, MVL 3, S 2.
 9065 *Leuconycta diphteroides* (Gn.) 1 Jun–27 Aug 1985 & 1990 BLT 8, MVL 2.
 9066 *Leuconycta lepidula* (Grt.) 13–17 Aug 1985 & 1990 BLT 3.
 9070 *Amyna octo* (Gn.) 4 Oct 1990 BLT 1.
 9090 *Tarachidia candefacta* (Hbn.) 1 Jun 1990 BLT 4.
 9095 *Tarachidia erastriodes* (Gn.) 26 Jun 1990 BLT 2, MVL 2.
 9182 *Panthea furcilla* (Pack.) 25 Jun–9 Aug 1990 BLT 16, MVL 18.
 9184 *Colocasia flavicornis* (Sm.) 22–23 Apr 1990 BLT 2, MVL 1.
 9185 *Colocasia propinquininea* (Grt.) 9 Apr–8 May 1990 BLT 7, MVL 8.
 9189 *Charadra deridens* (Gn.) 17 Aug 1990 BLT 1.
 9193 *Raphia frater* Grt. 25 Jun–10 Jul 1985 & 1990 BL 3, MVL 1.
 9200 *Acronicta americana* (Harr.) 8 May–12 Aug 1985 & 1990 BL 2, BLT 2, MVL 2, S 4.
 9203 *Acronicta dactylina* Grt. 15 Jun 1990 MVL 1.
 9207 *Acronicta innotata* Gn. 7–8 Jul 1990 BLT 2.
 9221 *Acronicta funeralis* G. & R. 1 Jun–13 Aug 1985 & 1990 BL 2, BLT 1.
 9225 *Acronicta vinnula* (Grt.) 8 May–12 Aug 1985 & 1990 BL 3, BLT 2, MVL 1, S 2.
 9227 *Acronicta laetifica* Sm. 23 Jun 1990 S 1.
 9229 *Acronicta hasta* Gn. 23 Apr–12 Aug 1985 & 1990 BL 1, BLT 64, MVL 12, S 9.
 9237 *Acronicta interrupta* Gn. 8 May–13 Aug 1985 & 1990 BLT 2, S 1.
 9238 *Acronicta lobeliae* Gn. 23 Apr–25 Jun 1990 BLT 2, MVL 1, S 1.
 9241 *Acronicta fragilis* (Gn.) 7 Jul 1990 BLT 1.
 9243 *Acronicta ovata* Grt. 25 Jun–9 Aug 1990 BLT 10.
 9245 *Acronicta haesitata* (Grt.) 1 Jun–9 Sep 1985 & 1990 BL 1, BLT 7, MVL 3.
 9246 *Acronicta clarescens* Gn. 1 Jun 1990 BLT 2.
 9249 *Acronicta increta* Morr. 25 Jun 1990 MVL 1.
 9251 *Acronicta retardata* (Wlk.) 1 Jun 1990 BLT 2.
 9254 *Acronicta afflicta* Grt. 25 Jun–11 Jul 1985 & 1990 BL 2, BLT 1.
 9257 *Acronicta impleta* Wlk. 8 May–25 Jun 1990 MVL 5.
 9261 *Acronicta impressa* Wlk. 23 Apr–25 Jul 1990 BLT 2.
 9264 *Acronicta longa* Gn. 23 Apr–13 Aug 1985 BLT 4.
 9281 *Agriopodes fallax* (H.-S.) 8 May 1990 BLT 1, S 1.
 9285 *Polygrammate hebraeicum* Hbn. 25 Jun–10 Jul 1985 & 1990 BL 3, BLT 3, MVL 2.
 9299 *Eudryas unio* (Hbn.) 13 Aug 1985 BLT 1.
 9301 *Eudryas grata* (F.) 25 Jun–13 Aug 1985 & 1990 BLT 3, BLT 3, MVL 26.
 9328 *Apamea nigrior* (Sm.) 25 Jun 1990 MVL 1.
 9333 *Apamea lignicolora* (Gn.) 7 Jul 1990 BLT 1.
 9348 *Apamea amputatrix* (Fitch) 25 Jun–24 Jul 1990 MVL 1, S 3.
 9373 *Agroperina helva* (Grt.) 13 Aug 1985 BLT 1.
 9391 *Luperina passer* (Gn.) 7 Jul–21 Sep 1985 & 1990 BL 2, BLT 1.
 9406 *Oligia fractilinea* (Grt.) 13–17 Aug 1985 & 1990 BLT 2.
 9419 *Oligia mactata* (Gn.) 26 Sep–6 Oct 1990 MVL 1, S 12.
 9453 *Helotropha reniformis* (Grt.) 13 Aug 1985 BLT 1.
 9456 *Amphipoea interoceanica* (Sm.) 26 Jun–7 Jul 1990 BLT 2, S 1.
 9457 *Amphipoea americana* (Speyer) 24 Jul–9 Aug 1990 BLT 2, MVL 1.
 9466 *Papaipema cataphracta* (Grt.) 12 Sep–9 Oct 1985 BLT 3.
 9471 *Papaipema arctivorens* Hamp. 17 Aug–9 Sep 1990 BLT 1, MVL 3.
 9473 *Papaipema impeccinosa* (Grt.) 26 Sep–10 Oct 1985 BL 3, BLT 7.
 9483 *Papaipema inquaesita* (G. & R.) 27 Aug–9 Oct 1985 & 1990 BL 5, BLT 2, MVL 1.
 9485 *Papaipema baptisiae* (Bird) 21 Sep 1985 BLT 3.
 9486 *Papaipema birdi* (Dyar) 21 Sep 1985 BLT 1.

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- 9495 *Papaipema furcata* (Sm.) 10 Sep 1990 BLT 1.
 9501 *Papaipema eupatorii* (Lyman) 6-9 Oct 1985 & 1990 BL 3, BLT 1.
 9502 *Papaipema nelita* (Stkr.) 13-27 Aug 1985 BLT 2.
 9503 *Papaipema rigida* (Grt.) 21 Sep 1985 BL 1.
 9505 *Papaipema cerussata* (Grt.) 26 Sep-9 Oct 1985 & 1990 BL 5, BLT 8, MVL 1.
 9509 *Papaipema unimoda* (Sm.) 9 Oct 1985 BL 2.
 9520 *Achatodes zeae* (Harr.) 8 Jul 1990 BLT 1.
 9545 *Euplexia benesimilis* McD. 5 May-12 Aug 1985 & 1990 BL 1, BLT 8, MVL 3, S 3.
 9547 *Phlogophora periculosa* Gn. 12 Sep 1985 BLT 2.
 9555 *Ipimorpha pleonectusa* Grt. 21 Sep 1985 BL 1.
 9556 *Chytonix palliatricula* (Gn.) 8 May-17 Aug 1985 & 1990 BL 2, BLT 3, MVL 1, S 3.
 9560 *Dypterygia rozmani* Berio 25 Jun-10 Jul 1985 & 1990 BL 1, S 8.
 9578 *Hyppa xylinoides* (Gn.) 12 Aug 1985 BLT 2.
 9582 *Nedra ramosula* (Gn.) 23 Apr-10 Sep 1985 & 1990 BL 3, BLT 1, MVL 2.
 9631 *Calloptistria mollissima* (Gn.) 7-10 Jul 1985 & 1990 BL 1, BLT 1.
 9638 *Amphipyra pyramidoides* Gn. 24 Jul-1 Nov 1985 & 1990 BL 1, BLT 8, MVL 1, S 31.
 9637 *Amphipyra trogopoginis* (Cl.) 25 Jun 1990 S 1.
 9647 *Proxenus miranda* (Grt.) 1 Jun 1990 MVL 1.
 9650 *Anorthodes tarda* (Gn.) 8 May-27 Aug 27 1985 & 1990 BLT 5, MVL 6.
 9662 *Balsa malana* (Fitch) 8 May-26 Jun 1990 BLT 5, MVL 3.
 9663 *Balsa tristrigella* (Wlk.) 1 Jun-26 1990 BLT 1, MVL 6, S 1.
 9664 *Balsa labecula* (Grt.) 5 May-10 Jul 1985 & 1990 BL 1, BLT 4, MVL 6.
 9665 *Spodoptera exigua* (Hbn.) 9 Oct 1990 MVL 5.
 9666 *Spodoptera frugiperda* (J. E. Smith) 10 Sep-9 Oct 1985 & 1990 BL 1, BLT 25, MVL 17, S 107.
 9669 *Spodoptera ornithogalli* (Gn.) 26 Sep-6 Oct 1990 BLT 1, MVL 1, S 5.
 9672 *Spodoptera eridania* (Cram.) 6 Oct 1990 BLT 1. (State record).
 9678 *Elaphria versicolor* (Grt.) 25-26 Jun 1990 BLT 1, MVL 24.
 9681 *Elaphria festivooides* (Gn.) 1-25 Jun 1990 BLT 1, S 1.
 9684 *Elaphria grata* Hbn. 23 Apr-9 Sep 1985 & 1990 BL 5, BLT 3, MVL 3.
 9688 *Galgula partita* Gn. 13 Aug-10 Oct 1985 & 1990 BLT 12, MVL 2, S 2.
 9689 *Perigea xanthioides* Gn. 1 Jun 1990 MVL 1.
 9690 *Platysenta videns* (Gn.) 23 Apr-9 Aug 1990 BLT 3.
 9696 *Platysenta vecors* (Gn.) 8 May-10 Jul 1985 & 1990 BL 3, BLT 4.
 9699 *Platysenta sutor* (Gn.) 6 Oct 1990 S 2.
 9720 *Ogdoconta cinereola* (Gn.) 13 Aug 1985 BLT 5.
 9781 *Basilodes pepita* Gn. 9-13 Aug 1985 & 1990 BLT 2.
 9886 *Lithophane patefacta* (Wlk.) 9-23 Apr 1990 BLT 1, BT 2, S 3.
 9887 *Lithophane bethunei* (G. & R.) 12 Mar-23 Apr 1990 BLT 1, BT 10, S 1.
 9888 *Lithophane innominata* (Sm.) 9 Apr-8 May 1990 BLT 3, BT 2, S 2.
 9893 *Lithophane hemina* Grt. 9-23 Apr 1990 BLT 5, BT 2.
 9895 *Lithophane signosa* (Wlk.) 9-23 Apr 1990 BLT 1, BT 1, S 1.
 9910 *Lithophane antennata* (Wlk.) 12 Mar-8 May 1985 & 1990 BLT 7, MVL 1, S 6.
 9914 *Lithophane laticinerea* Grt. 8 Feb 1990 BLT 1, S 1.
 9915 *Lithophane grotei* Riley 12-27 Mar 1985 & 1990 BLT 1, S 5.
 9916 *Lithophane unimoda* (Lint.) 8 Feb-23 Apr 1985 & 1990 BL 5, BLT 2, BT 1, S 9.
 9929 *Pyreferra hesperidago* (Gn.) 26 Mar-23 Apr 1985 & 1990 BL 1, BLT 16, MVL 3, S 10.
 9930 *Pyreferra citromba* Franc. 22 Apr 1990 BLT 2.
 9932 *Pyreferra pettiti* (Grt.) 12 Mar-9 Apr 1985 & 1990 BLT 5, BT 1, S 4.
 9933 *Eupsilia vinulenta* (Grt.) 8 Feb-23 Apr 1985 & 1990 BL 1, BLT 1, BT 56, MVL 1, S 45; 9 Oct 1985 S 3.
 9933.1 *Eupsilia sidus* (Gn.) 8 Feb-9 Apr 1990 BLT 2, BT 1, S 1.
 9934 *Eupsilia cirripalea* Franc. 9 Apr 1990 S 1.
 9935 *Eupsilia tristigmata* (Grt.) 27 Mar-23 Apr 1985 & 1990 BLT 4, BT 6, S 5.
 9936 *Eupsilia morrisoni* (Grt.) 8 Feb-27 Mar 1985 & 1990 BLT 10, BT 72, MVL 1, S 91.
 9939 *Eupsilia devia* (Grt.) 12 Mar-23 Apr 1985 & 1990 BLT 9, S 10.
 9941 *Sericaglaea signata* (French) 5 May 1985 BL 2.

- 9943 *Metaxaglaea inulta* (Grt.) 6-17 Oct 1990 BLT 3, BT 1, MVL 2, S 1.
 9946 *Epiglaea decliva* (Grt.) 26 Sep-1 Nov 1985 & 1990 BL 3, BLT 1, BT 5, S 8.
 9948 *Chaetoglaea cerata* Franc. 6 Oct 1990 BT 2.
 9950 *Chaetoglaea sericea* (Morr.) 9 Oct-1 Nov 1985 & 1990 BL 1, BLT 1, S 2.
 9952 *Eucirroedia pampina* (Gn.) 6-17 Oct 1985 & 1990 BL 2, BLT 8, MVL 4, S 7.
 9957 *Sunira bicolorago* (Gn.) 21 Sep-1 Nov 1985 & 1990 BL 1, BLT 59, BT 5, MVL 8.
 9961 *Anathix ralla* (G. & R.) 9-26 Sep 1990 BLT 5, MVL 5.
 10008 *Feralia comstocki* (Grt.) 5-8 May 1985 BL 1, MVL 1.
 10012 *Eutolyte electilis* (Morr.) 8 May 1990 BLT 1.
 10013 *Eutolyte grandis* Sm. 9 Apr 1990 BLT 2.
 10016 *Copipanolis styracis* (Gn.) 12 Mar-9 Apr 1990 BLT 2.
 10021 *Copivaleria grotei* (Morr.) 9 Apr-8 May 1990 BLT 19, MVL 11.
 10067 *Adita chionanthi* (J. E. Smith) 8 Sep 1990 MVL 3.
 10202 *Cucullia convexipennis* G. & R. 13 Aug 13 1985 BLT 1.
 10275 *Polia nimbosea* (Gn.) 11 Jul 1985 BL 1.
 10280 *Polia purpurissata* (Grt.) 17 Aug 1990 BLT 1.
 10288 *Polia detracta* (Wlk.) 19-26 Jun 1985 BL 3, BLT 1, MVL 2, S 1.
 10289 *Polia goodelli* (Grt.) 11-24 Jul 1985 & 1990 BL 3, S 1.
 10291 *Polia latex* (Gn.) 18 Jun-24 Jul 1985 & 1991 BLT 9, MVL 5, S 15.
 10292 *Melanchnra adjuncta* (Gn.) 17 Aug 1990 BLT 2.
 10299 *Lacanobia subjuncta* (G. & R.) 17 Aug 1990 BLT 1.
 10304 *Lacanobia legitima* (Grt.) 5 May 1985 BL 1.
 10368 *Lacinipolia meditata* (Grt.) 9 Sep-27 Aug 1985 & 1990 BL 3, MVL 1.
 10372 *Lacinipolia anguina* (Grt.) 1 Jun 1990 BLT 1.
 10393 *Lacinipolia teligera* (Morr.) 9-10 Sep 1990 BLT 1, MVL 1.
 10397 *Lacinipolia renigera* (Steph.) 1 Jun-9 Oct 1985 & 1990 BL 1, BLT 27, MVL 3, S 1.
 10405 *Lacinipolia lorea* (Gn.) 18 Jun-6 Oct 1985 & 1990 BLT 3, MVL 3, S 17.
 10414 *Lacinipolia implicata* McD. 27 Aug-21 Sep 1985 & 1990 BLT 5, MVL 4.
 10438 *Pseudaletia unipuncta* (Haw.) 22 Apr-1 Nov 1985 & 1990 BL 23, BLT 7, BT 5, MVL 6, S 4.
 10440 *Leucania linita* Gn. 26 Jun 1990 S 1.
 10444 *Leucania phragmitidicola* Gn. 1-25 Jun 1990 BLT 1, S 2.
 10446.1 *Leucania lapidaria* (Grt.) 1 Jun-13 Aug 1985 & 1990 BLT 9, S 1.
 10447 *Leucania commoides* Gn. 24 Jul-13 Aug 1985 & 1990 BLT 3, S 1.
 10461 *Leucania ursula* (Fbs.) 1 Jun-21 Sep 1985 & 1990 BL 6, MVL 4, S 1.
 10462 *Leucania pseudargyria* Gn. 25-26 Jun 1990 BLT 3.
 10487 *Orthosia rubescens* (Wlk.) 9 Apr-8 May 1985 & 1990 BLT 30, MVL 4.
 10488 *Orthosia garmani* (Grt.) 22 Apr 1990 BLT 1.
 10490 *Orthosia revicta* (Morr.) 22-23 Apr 1990 BLT 2.
 10495 *Orthosia hibisci* (Gn.) 12 Mar-8 May 1985 & 1990 BLT 284, BT 62, MVL 66, S 66.
 10501 *Crocigrapha normani* (Grt.) 23 Apr-1 Jun 1990 BLT 38, MVL 4.
 10502 *Himella intractata* (Morr.) 8 May-1 Jun 1990 MVL 2.
 10518 *Achatia distincta* Hbn. 23 Apr-8 May 1990 BLT 8, MVL 4, S 1.
 10520 *Morrisonia evicta* (Grt.) 23 Apr-8 May 1985 & 1990 BL 3, BLT 17, MVL 2.
 10521 *Morrisonia confusa* (Hbn.) 5 May-1 Jun 1985 & 1990 BL 1, BLT 37, MVL 12.
 10524 *Nephelodes minians* Gn. 27 Aug-26 Sep 1985 & 1990 BLT 10, BT 5, MVL 5.
 10563 *Protorthodes oviduca* (Gn.) 14 May-1 Jun 1988 & 1990 BLT 4, MVL 1.
 10567 *Ulolonche culea* (Gn.) 1 Jun 1990 MVL 1.
 10578 *Pseudorthodes vecors* (Gn.) 1 Jun-13 Aug 1985 BL 1, BLT 20, MVL 5, S 1.
 10585 *Orthodes crenulata* (Butler) 27 Aug 1985 BLT 3.
 10587 *Orthodes cynica* Gn. 17 May-12 Aug 1985 BLT 15, MVL 11, S 2.
 10627 *Tricholita signata* (Wlk.) 9-17 Aug 1985 & 1990 BLT 5.
 10648 *Agrotis gladiaria* Morr. 21 Sep-6 Oct 1985 & 1990 BL 1, BLT 14.
 10651 *Agrotis venerabilis* Wlk. 21 Sep-6 Oct 1985 & 1990 BLT 23.
 10663 *Agrotis ipsilon* (Hufn.) 9 Apr-1 Nov 1985 & 1990 BLT 24, BT 9, MVL 4, S 5.
 10670 *Feltia jaculifera* (Gn.) 21 Sep-17 Oct 1985 & 1990 BLT 9.
 10675 *Feltia tricolora* (Lint.) 21 Sep 1985 BLT 2.
 10676 *Feltia herilis* (Grt.) 12 Aug-21 Sep 1985 BLT 5.

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- 10698.2 *Trichosilia geniculata* G. & R. 12 Aug–10 Sep 1985 & 1990 BL 1, BLT 6.
 10705 *Euxoa messoria* (Harr.) 10 Jul 1985 BL 1.
 10753 *Euxoa immixta* (Grt.) 25 Jun–11 Jul 1985 BL 1, MVL 2.
 10793 *Euxoa scholastica* McD. 10 Jul 1985 BL 1.
 10803 *Euxoa velleripennis* (Grt.) 9–26 Sep 1985 & 1990 BLT 10, MVL 1.
 10807 *Euxoa albipennis* (Grt.) 27 Aug 1985 BLT 1.
 10812 *Euxoa bostoniensis* (Grt.) 6 Oct 1990 BLT 1, S 1.
 10851 *Euxoa redimicula* (Morr.) 10 Sep 1990 BLT 3.
 10891 *Ochropleura plecta* (L.) 1 Jun–12 Aug 1985 & 1990 BLT 11, MVL 1.
 10902 *Euagrotis forbesi* Franc. 26 Jun 1990 BLT 1. (State record).
 10903 *Euagrotis illapsa* (Wlk.) 17 Aug–21 Sep 1990 BLT 4, MVL 2.
 10915 *Peridroma saucia* (Hbn.) 10 Jul–1 Nov 1985 & 1990 BL 8, BT 1, S 1.
 10919 *Diarsia jucunda* (Wlk.) 8 Jul–13 Aug 1985 & 1990 BLT 1, MVL 1, S 1.
 10926 *Spaelotis clandestina* (Harr.) 25 Jun–9 Oct 1985 & 1990 BL 1, BLT 10, BT 1, MVL 4, S 1.
 10942a *Xestia c-nigrum adela* Franc. 11 Jul 1985 BL 9.
 10942.1 *Xestia dolosa* Franc. 1 Jun–9 Oct 1985 & 1990 BL 13, BLT 14, BT 3, MVL 4, S 1.
 10943 *Xestia normaniana* (Grt.) 9 Sep–6 Oct 1985 & 1990 BL 6, MVL 2.
 10944 *Xestia smithii* (Snell.) 9 Sep–6 Oct 1985 & 1990 BLT 6, MVL 1, S 1.
 10950 *Xestia bicarnea* (Gn.) 17–27 Aug 1985 BL 2, BLT 1.
 10955 *Xestia badinodis* (Grt.) 9 Sep–9 Oct 1985 & 1990 BLT 4, BT 1, MVL 2, S 1.
 10994 *Cerastis tenebrifera* (Wlk.) 27 Mar–23 Apr 1985 & 1990 BL 4, BLT 13, MVL 1, S 1.
 11000 *Anaplectoides prasina* (D. & S.) 13 Aug 1985 BLT 1.
 11006 *Protolampra brunneicollis* (Grt.) 25 Jun–10 Sep 1990 BLT 4, MVL 2.
 11029 *Abagrotis alternata* (Grt.) 25 Jun–6 Oct 1990 BLT 18, BT 2, MVL 6, S 1.
 11043 *Rhynchagrotis cupida* (Grt.) 25 Jun–7 Jul 1990 BLT 2.
 11068 *Heliothis zea* (Boddie) 10 Sep–17 Oct 1985 & 1990 BL 3, BLT 20, MVL 8, S 1.
 11117 *Schinia lynx* (Gn.) 25 Jun 1990 S 1.
 11135 *Schinia rivulosa* (Gn.) 17 Aug 1990 BLT 1.

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