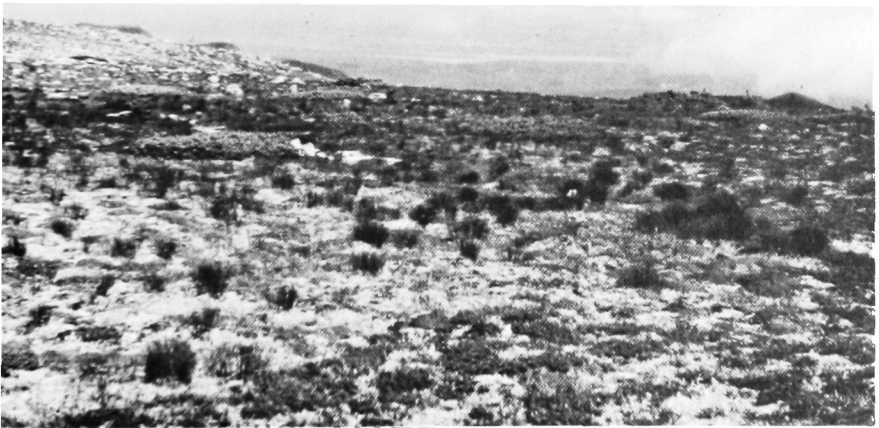


A LIST OF THE LEPIDOPTERA OF MAINE - PART 1 THE MACROLEPIDOPTERA

Auburn E. Brower



Northwest Plateau. Mt. Katahdin, Maine

Prostrate mats of fir and spruce, commonly single trees. The foreground with lichens, reindeer lichens, prostrate heaths and willows, with upright clumps of sedges (6-10 inches) which die back each fall.

**LIFE SCIENCES AND AGRICULTURE EXPERIMENT STATION
UNIVERSITY OF MAINE AT ORONO**

A LIST OF THE LEPIDOPTERA OF MAINE

PART I MACROLEPIDOPTERA

AUBURN E. BROWER*

A well-done list of the insects of a State is of continuous value to entomologists, and is used as a reference work and source of information by workers in many other disciplines. After many years of work on general entomology in Maine, I find that I still refer for answers to questions to what I consider to be the best State list of insects - "A List of the Insects of New York" by M. D. Leonard; just as I turn to similar works on birds, plants and other biological groups for similar information. The New England area has no satisfactory State list of insects. Maine has been fortunate in having one of the best and most comprehensive local lists in the United States - the William Procter list "Biological Survey of the Mount Desert Region - The Insect Fauna", Vols. VI and VII (1938 and 1946); however, this covers a limited insular fauna. It was privately printed and quite limited in distribution.

Protruding so far to the northeast, Maine is particularly in need of its own insect list. An annotated list can give a great deal of supplementary information which will serve to answer part of the questions which arise concerning individual species of insects.

Repeatedly having a personal and professional need for a Maine list, I have, during over 40 years of active entomological work in Maine, continually gathered specimens and records toward such a list. I actively participated in the accumulation of the records for the Procter list and supplied many records for Farquhar's "A List of the Lepidoptera of New England," an unpublished Ph.D. thesis (Harvard).

A preliminary descriptive list of the butterflies of Maine was published by C. H. Fernald in 1884, and in 1934 C. F. dos Passos and L. P. Grey published a more complete and a partially annotated list of the butterflies of Maine. Later (1956), I assisted the Portland Society of Natural History in putting out a more complete and up-to-date list of Maine butterflies which was more generally distributed in Maine. Professor Fernald published a number of important papers on Lepidoptera between 1878 and 1905, and Mrs. Fernald published in the Canadian Entomologist in 1884 three lists of the larger moths which she collected

* Visiting Professor of Entomology, University of Maine at Orono; mail address: 8 Hospital Street, Augusta, Maine 04330.



Figure 2. Raised bog: Addison, grassy sphagnum—heath plants on one of the unique raised bogs of southeast Maine.



Figure 1. Kettle Hole Bog, Belgrade, Maine. Quaking sphagnum, black-spruce bog with deep water hole and high glacial esker, "horseback"; sundew, cranberry, pitcher-plant, leatherleaf and other acid soil plants and low heaths grow here. In background, larch and a number of higher shrubs.



Figure 3. The Saco Heath: many species of heath plants with sphagnum and Coast White Cedar, *Chamaecyparis*.

at light at Orono. C. O. Dirks (1937) published a list of the cutworm moths and larger moths taken during four summer seasons on the Orono campus. John C. Parlin published in the *Maine Naturalist* 1922-23-24 records of Lepidoptera from Albion, Freedom and other places. Some of these records are quite questionable and since the collection was destroyed by flood, only parts of these records are used, some with qualification. The old practice of putting only a date label on the specimens in some collections often leads to uncertainty. Frederick Allen Eddy of Bangor followed this practice and he purchased or exchanged for specimens similarly labelled, particularly the whole collection of G. R. Pilate of Cincinnati, Ohio. After the Eddy collection was bequeathed to Harvard University, printed F. A. Allen labels were applied to all specimens, and some workers have mistaken out-of-state specimens as originating in Maine.

The value of any insect list depends basically upon the authenticity of the determinations of the included species. Many of the older determinations are of uncertain value, because we do not know what the author had or saw, as a basis for listing the name. The number of species to be taken in an area was then thought to be much fewer than we now know to be the true situation since closely similar species had often not yet been separated, and sibling species were not yet differentiated. All of this led to putting more than one species under one name. Original types had not been carefully checked in many cases (which is most important) and the very important genitalia had had but little study up to that time. Many places still exist in our classification where additional rearing, study, and special collecting are greatly needed. Formerly the great importance of a knowledge of all of the species in the area considered, and also that of having accurately identified material of all of the species separated for comparison when making identifications was not fully realized. In addition, the necessity of long-time persistent collecting in many different places in Maine has been given too little attention. Many species are not readily secured by the collecting methods we know and use. A large part of the species are strongly cyclic in nature. The duration of the cycles is a subject for much speculation, but for some species it is a long period of years or possibly unfavorable weather conditions mask some of the peaks in the cycles. Many species are quite local in occurrence and, unless at a peak of abundance or, because of unusual weather conditions, do not stray far from the limited local area. Thus two collectors who stop at the very same spot a few years apart may make a very different catch of species, and weather can make a pronounced change in captures from day to day.

I have made a definite effort to reach and collect in unusual and local habitats of all sorts from sea level to the highest mountains, and

to do this at different times during the year. The variety of local habitats in Maine cannot be imagined without personal contact and experience. Some species of Lepidoptera are known from but one to a few of these areas or even a small part of one area, and they have not been found at all in other areas which appear equally favorable. Further, the time of year, the time of day or night, temperature, sunlight, cloudiness or wind movement can be of utmost importance to the collector. Sand areas, open glades, barrens, heaths, mucky areas, marshes, bogs, local plants and micro-habitats have been sought from Kittery and York to Lubec, Van Buren, the mountain tops, and the borders with New Hampshire, Quebec and New Brunswick. I have collected at many places along the Maine-Quebec border and on some of the islands off the coast of Maine. Areas which appear similar may produce very different plants and insects when located on an offshore island, near a farm field, enclosed by large trees, on the flood plain of a lake or river, or on a mountain top. North facing mountains may provide moister habitats with colder and less variable summer temperatures.

Hundreds of visits have been made to the various kinds of bogs, and more than 100 to above the tree line. Methods of collecting have been varied according to the information available regarding species to be found in these special habitats. From the beginning of my residence in Maine, I have collected in many different ways, at or with different types of light or light traps, bait or bait traps and I have also supplied equipment to others to collect specimens. A number of private collectors have saved specimens for me over the years. Notable among these are Charles Gay (Bar Harbor), Walter Clayton (Lincoln), Dr. William Procter (Bar Harbor) (to whom the writer supplied identifications, specimens, or both, of a large part of the Lepidoptera recorded in the Mt. Desert list), Paul Grey (Lincoln-Enfield), Viola H. dos Passos (Rangeley), Bruno M. Spies (Farmington, 1956-65), and Leland Haywood (East Vassalboro, 1966-72), who has, in particular, taken many southern migrants.

Bait or sugar mixtures have been used at intervals and attention has been paid to attractive flowers. Interesting larvae, when encountered, have been collected and reared. The biology of various groups has been investigated. Eggs, larvae and pupae of borers and other groups have been sought out in their special habitats. Some species in this list have been secured only by rearing larvae from their hosts, others only by a trip at the right time to their very local food plants; still others were taken only at favorite flowers. Some fly for but a brief period in the night. In most of these local areas and in by far the larger part of Maine, an inadequate amount of collecting has been done. After 42 years of con-

tinual collecting, I turn up every year species of Lepidoptera new to the Maine list.

Before this project started, because of the numbers of inaccuracies in the collections (even large museum collections) and in published records, I decided to accept as records of most species, without reservation, only those specimens personally seen, identified and checked against my use of the name. I also decided to solicit determinations to be made for me by specialists on different groups. If otherwise, that fact is indicated. This does not guarantee an identification, but it does limit the errors to one individual who is constantly checking and rechecking specimens against his own collection—the largest and most complete collection of Maine material in existence; as well as against types when available. Many old records are based on specimens now lost, or which cannot be positively identified. Therefore the present list is a list of the Maine specimens in my collection, plus those identified or examined, and it makes no attempt to include all published records, though these have been sought out and a part of them used while other records are included with a citation to each. Another source of records and information has been obtained through the checking of Maine material in many collections. This has been of large extent, but small in comparison to the number of specimens collected, determined, or taken in the modern light trap catches.

The following collections have been checked so far as Maine specimens could be found. The present location of the more important of these collections is given in parentheses. Professor S. I. Smith made an important collection beginning about 1860, mostly in the Norway area (Yale University) where he secured the only known Maine specimens of *Phyciodes batesi* and *Incisalia irus* and made very early records for *Pieris rapae* and other species. In the 1870's and 80's Professor and Mrs. C. H. Fernald made important collections on the University of Maine campus, publishing some lists and supplying types for some new species. At this time Dr. Alpheus S. Packard made many rearing and other records around Brunswick and elsewhere. His monumental works on moths were published: Geometridae in 1876, and the three volumes on Bombycine moths in 1895, 1905 and 1914. In the 1880's Charles Fish at Old Town (Bowdoin College), Frederick Allen Eddy of Bangor (Harvard University) and others in that area were collecting. Eddy continued his collecting for a considerable period of years. Professor Roland Thaxter (Harvard University) began collecting at his summer home at Kittery Point, probably in 1884. During many following years he collected a large number of moths at light. These were almost wholly the medium and larger sized species. In the first years of the 1900's, John H. Lovell collected bees and published several papers on them, and he gathered a considerable collection of Lepidoptera from the Waldoboro area (Uni-

versity of Louisville, Ky.). Around the turn of the century there was considerable collecting activity about Norway, Bridgton, Brunswick and especially in the Orono area, where this was continued by Dr. Patch, and more recently by Drs. Phipps, Hawkins, Reed, Simpson and those following. During 1909-1911 Dr. Charles S. Minot collected about 150 species of moths at Northeast Harbor. Early in this century, C. A. Frost began collecting in Monmouth and Wales (Museum of Comparative Zoology). C. B. Hamilton collected choice material at Norway. Professor E. F. Hitchins and then his son, Sam, at Bucksport, Waterville and Skowhegan, took some rare species. In 1918 Charles W. Johnson began field work on his New England Insect Survey. Mt. Desert Island received special attention leading to the publication of the Johnson list of the Lepidoptera of that area in 1927-1928 (Boston University). Professor Charles O. Dirks made important light trap collections at Orono between 1931 and 1934. In the 1920's and since, amateur workers have been more numerous: Ruth DeCoster of Buckfield; Walter Clayton of Lincoln; Olaf Nylander of Woodland, Aroostook Co.; Paul Grey of Lincoln-Enfield; Cyril F. and Viola H. dos Passos of Nile Brook Camp, Rangeley (American Museum of Natural History and Brower); followed by William Procter, Bar Harbor (University of Massachusetts); and John F. Reed of Orono and Unity. All of the material of all of these collections which could be found has been examined and usually listed with data. Beginning with Clayton, I have tried to work with all active collectors.

Many smaller collections have been formed in Maine and an attempt has been made to see those brought to my attention. These were usually in the area where formed. All or part of the following small collections have been examined: Misses Alice, Elizabeth and Josephine Bacon (Northfield-Wesley); Miss Jessie Beech (Woodfords Jct.-Portland); Glen Belyea (Biddeford-Orono); Mrs. Jo Brewer (Islesboro); Henry Briggs (Corinth); John H. Brower (Monmouth 1956-58); Kate M. Burke (Bingham); Roger Cobb (Millinocket, etc.); Professor Manton Copeland (Brunswick) now in the University of Maine collection; Richard Dearborn (Mt. Vernon); Ruth Delano (Dixfield); Mrs. Harvard Dow (Bar Harbor); Henry Dillenbach (South China); Robert Gobeil (Biddeford); Robert Gordon (Hall Quarry, Mt. Desert Island); Mrs. Ellen Greer (Starks); Professor F. L. Harvey (Orono); John Hawes, Jr. (Smithfield); Emma G. Holland (Norway-Sweden); Dr. F. M. Jones (Katahdin Iron Works, etc.); S. C. Kleene (Hope), some rare material; John C. Kuschke (Sebago Lake); the Lindsley family (Winslow); Jean McKay (Orono-Old Town); Susan B. McLeer (Hallowell); Mrs. Henry Quinn (Milltown-Calais); Fernald Richards (Dover-Foxcroft); William E. Rogers (Portland); David Round (Enfield); John V. Schaffner (many points in Maine); Dale Schweitzer (Camden-Lin-

colnville); C. Chesman Spratt (Bridgton); the Misses Rose and Marie Wadsworth (Manchester-Hallowell); and William D. Winter (Newagen).

Very few collectors have made a definite effort to secure the early spring and late season species. Walter Clayton and Paul Grey in the Lincoln-Enfield area gave attention to this need. I have sought these species on many occasions. Bruno Spies, Farmington (1956-1965) carried out the most complete yearly collections which have been made in Maine, and saved a large number for me. Leland Haywood and family, for whom I provided a walk-in black light trap, have collected a large quantity of early and late season material (1966-1972). The Federal, winter-moth, trapping project (1962-1968) secured material which I worked over and which provided many desirable records from along the eastern coast from late October into December.

In 1943 the increasing presence of the spruce budworm in Maine led the Maine Forest Service to monitor budworm numbers by the establishment of light trap collecting stations throughout the spruce-fir forested parts of Maine. The traps have been operated very largely in the great forested area of unorganized towns or townships where spruce and fir dominate most of the area, an area rarely collected previously. Occurrence in Maine, general distribution, time of flight of both sexes, which sex is most often taken in the present-day light traps, and other information is to be found in the data secured. The traps have been operated by fire control personnel from July 4 to August 5, and some earlier or later. A killing agent was used to kill the catch, which was packed daily on sheets of cellucotton or glazed cotton interleaved with newspaper. Where electricity was available, electric lights were used; some had ultraviolet bulbs, but many stations had other forms of lighting, especially those located on mountains. This set-up soon increased to about 26 traps and has operated for 30 years. From actual counts of the Lepidoptera in a number of boxes, the catch was estimated at 150,000-200,000 moths per year. I checked nearly all of these for important economic pests and so far as possible on my own time worked all of the other material. This consumed much time, but in 30 years has provided an enormous amount of material. The material has had drawbacks such as poor condition, and the lack of all spring, late summer and fall dates. My own collecting at light and that of other collectors greatly supplements this. Further, a large number of species are but poorly attracted to light, part of these because of being diurnal. Some are flower and bait frequenters and rarely stray to a light trap. All of these sources have provided a number of millions of specimens, which have been worked so far as possible for records.

Accurate determination of specimens is of the utmost importance. This often must start with the type of a name. Studies of the related

species, genitalia, biology, etc. may be helpful. I brought a considerable named collection to this project in May 1931. Work began immediately on a list of the species probably occurring in Maine, and steps were taken to secure by exchange or purchase all species from the Northeast not already possessed. These activities and many especially planned collecting trips coupled with the large numbers of specimens from light traps have given quantities of specimens to work with. In both collected material and acquired specimens a special effort was made to secure both sexes, and to make the genitalia available for comparison. Soon the large and valuable collection of S. A. Shaw of Hampton, New Hampshire, collected 1896-1941 was secured. He supplied to and received from leading specialists of that time types, other specimens, determinations and literature. Thus, an essentially complete collection of the Macrolepidoptera known from Maine, much work on structural characters, checks against published descriptions and keys, some rearing, and a large number of trips to museums and specialists—all have been the basis of identifications of the species recorded in this list. A definite attempt has been made to look for specimens of all species of which records are needed, in all Maine collections, and in all of the important collections of northeastern America. In this way, many rare specimens have been examined, some of which have been the basis of published records. A part of the specimens must be examined with a microscope to sex them, a part must have the genitalia or other structures examined before they can be determined to species; this work requires considerable time and the necessary equipment. Thousands of specimens have been mounted for various needs, and this has given material to check and recheck determinations. Active taxonomic work on the Lepidoptera has been going on during this period, and many sibling species, subspecies, food plant associations and other categories have been brought forward. Much of this knowledge of the structures necessary for accurate determination of species has become known as the result of these recent studies. Because of this more detailed knowledge, many hundreds of my earlier records which were based on specimens identified, recorded and discarded, have now been eliminated as too uncertain to use.

With much information accumulated on which species of Lepidoptera are present in Maine and on others to be looked for in the State, I was in a position to seek records of Maine specimens in the collections of eastern America, to secure information on their occurrence, range, food plants and other data. The commonest species received the least attention, and the rarer ones the most. Many times when quantities of light trap material were at hand, only the rarer material was identified and recorded. This means the numbers of specimens recorded are not directly comparable and these figures must not be so used.

The following museum, institutional, and the larger private collections have been visited from once to many times in search of Maine specimens: United States National Museum; Museum of Comparative Zoology; Maine Agricultural Experiment Station, which has a large percentage of reared specimens; American Museum of Natural History; Boston Society of Natural History; Boston College; University of New Hampshire; Yale University; Cornell University; Philadelphia Academy; Colby College and Bates College. In Canada, the Canadian National Collection in Ottawa has been especially helpful; also the Peter Redpath Museum with the collections of MacDonal College in Ste. Anne de Bellevue; Dominion Entomological Laboratories in Fredericton; Experimental Farm, Fredericton; University of New Brunswick; and the Natural History Museum, St. Johns, New Brunswick. I express my gratitude to the authorities in charge of these collections for making them available for my use. Appreciation is also expressed to the many taxonomists at these institutions who gave me priceless help on identifications or undertook the task of making these.

A good reference library is another necessity in connection with this list. A small working library was acquired along with the basic collection. Since this list was started, many useful publications have been secured. Early in the forties the large and important library of S. A. Shaw was acquired. Another important adjunct has been a species card file, made on my numerous trips to work on other collections containing specimens from Maine and northeastern America. This has been amplified with records from the literature. An adequate number of correctly identified specimens stands high amongst the requirements. For this list a very large number of record slips was made, sometimes more than 200 for one species, and a slip might have up to several hundred specimen records on it. There were so many specimens of some abundant species that little attempt was made to record them.

In the arrangement and nomenclature, with minor exceptions resulting from more recent research, this list follows the format of the McDunnough Check List of 1938. This has more advantages than disadvantages and permits workers in other disciplines to readily make use of it. The continual changes in names and their application is often frustrating even to lepidopterists. The best known old and new names are given in parentheses so far as practical to assist in following through past name changes and into the future, with generic dates to assist in finding technical information. Species entries are preceded by the McDunnough list numbers. If additions of species are made either by elevation of names of subspecific rank or because of more recent descriptions, these have the addition of a period and a subnumber. Some species for which there is no definite Maine record, but which have been taken close to the south-

west Maine-New Hampshire border by the active New Hampshire collecting in that area have been included and are preceded by an asterisk, if I believe they occur in Maine.

Maine has over 800 land and political divisions. It would be possible with enough collecting to record many species for nearly all, if not all, of these 800 plus localities; therefore, for most species, a statement is made of the number of recorded localities, and the number of each sex recorded with inclusive dates. If the species does not appear to be widely distributed generally, a statement is made of its known range, unless ten or fewer localities have been recorded; in these cases records are given in full.

Many of these records should not be used for various purposes. Different species, and the sexes of one species, may differ greatly in their habits; so the recorded numbers do not give the proportion of each sex in nature, which is nearly equal. Species, or one sex of a species, may fly wholly or largely by day and the sexes vary greatly in the percentage attracted by light. Females of some species are partly or wholly wingless, and females of species with well developed wings apparently may fly much less or merely flutter about as do the females of the Gypsy Moth and other Liparidae. Proportionately larger numbers of the rarer species are recorded because these have always been watched for and recorded, while very common species were given the least importance and for lack of time left unrecorded. When three or more specimens of a species were taken in one night in one trap, the original record was made thus, following the date: (3-1) which means three males and one female or whatever number of each sex was present. This occurs in this list for species taken in a small number of localities where all data are given. At a given place where specimens of nearly all species have been taken by one collector, his name is associated with the locality in the list of important localities. At some localities other collectors have secured many of the species, and if some special species, their names may be given in parentheses.

Following the retreat of the last ice sheet, Maine apparently received its insect fauna from diverse sources. Some local insects lend strong evidence to the existence of refugia in the region of the Georges Banks, and these moved northward up the larger river valleys where they now appear localized. Even today, some few migrants seem to come northward over or near the Gulf Stream and strike the coast far to the northeast. Others seem to move northward by land, but near the ocean. The larger part of our species have probably moved into Maine overland. Numerous species found locally in the western edge or southwest Maine south of the mountains have apparently moved into that area from the west with or because of the limited range of their food plants in our area.

Many midwestern species have followed the great, broad St. Lawrence valley down beyond Montreal, and some of these have evidently reached Maine from that source. A largely unrecorded contingent of species has come into the very northern portion of the State from the north. Some, such as *Plebeius saepiolus* and *Hesperia laurentina* have colonized Maine from the north in the recent historic period, and both reached an offshore island, Mt. Desert, in the early thirties. Another element, which is surprisingly large in number of species, is composed of the migrants from the south and west. Some of these rarely fail to come every year, such as the Alfalfa Butterfly, Painted Lady, Eastern Painted Lady, Red Admiral, Question Mark and Comma Butterfly. These species appear to produce one or more broods, after which they die out. Some, like the Regal Fritillary, establish themselves for varying periods of years before they die out. One, the Monarch Butterfly, comes each season, produces one or perhaps a partial second brood and these adults migrate to the area of the Gulf Coast, from which an unknown small part apparently returns the following season. Apparently one species, the Cloudless Sulphur, *Phoebis sennae* L. visits Maine at intervals of years during fall migrations. The Satyr Angle Wing, *Polygonia satyrus*, will doubtless be found in some years to invade Maine from the north and reproduce. Doubtless the largest group of butterfly visitors comes merely as visitors or chance breeders from the south and west; often these are recorded only at intervals of many years. The Pipe-vine Swallowtail, *Papilio philonor*, The Variegated Fritillary, *Euptoieta claudia*, and the Buckeye, *Junonia coenia* are noteworthy. Much less is known about our moth visitors, because they fly at night. We know that the Army Worm Moth, *Leucania unipuncta*, comes up from the south by the time the willows are in bloom. Later the Corn Earworm Moth, *Heliothis obsoleta* comes. It is during the summer and fall that most southern species reach Maine. Part of these have no known food plant in the northern states.

A bibliography is usual in a state list. By the time I began work on this list, my experience with records in the literature had been disillusioning and many mistakes have been current in collections. A large part of the published records cannot be verified, something so desirable, that I decided my list would be based on specimens I possess or which I examined, with the addition of other important records which are attributed to the collector, or especially of records of recent specialists. The name of the collector in parentheses after a name may mean an unusual record, he is away from home locality, or that he is responsible for the determination. I have examined all such I could and commonly have my own duplicating records. I have tried to examine one or more times every collection of which I could learn. This approach has resulted in largely limiting the errors to one person, and repeated identifications of the

different species has led to the discovery of nearly all errors. A great many references to Maine Lepidoptera do not contain anything which I felt would add appreciably to this list.

RHOPALOCERA

Family PAPILIONIDAE

Genus PAPILIO Linnaeus 1758

- 1 **philenor** Linnaeus, Pipevine Swallowtail Bar Harbor, Can. Ent. 39:104 (E. M. Aaron). I have been shown another specimen said to have been taken in Bar Harbor or on the nearby mainland.
- 4 **ajax** Linnaeus (**asterius** Cramer), Black Swallowtail, Parsleyworm 31 localities, 24 April - 16 September, 41 ♂; 20 May - 17 September, 30 ♀. Two variable sized broods occur.
- 12 **crephontes** Cramer, Orangedog Eastport, one seen at Augusta, both fide Henry Edwards. A flight was recorded in the Boston, Mass. area in 1883.
- 15 **glaucus** Linnaeus, Tiger Swallowtail 64 localities, 2 May - 5 July, 56♂; 8 June - 18 June, 4 ♀, plus many specimens not sexed. A number of localities have such notations as many, abundant, common, a number; latest recorded date 16 July.
- race **canadensis** Rothschild & Jordan North Belgrade, 18 June, 1954. One specialist called general Maine material race *canadensis*, another would restrict *canadensis* to smaller darker northern and mountain top specimens.
- race **australis** Maynard I have a nice example of *P. glaucus australis* taken by S. A. Shaw at Hampton, N. H. about 14 miles from Maine, an easy half-hour flight.
- 20 **troilus** Linnaeus, Spicebush Swallowtail The only definite records are York ♀ and York, 1934. It undoubtedly occurs with sassafras and spicebush along the southwest border of Maine and New Hampshire. In nearby New Hampshire eight dates of capture are from May 24 to June 21, and another July 21.

Family PIERIDAE

Genus COLIAS Fabricius 1807

- 41 **eurytheme** Boisduval (**ariadne** Edwards), Alfalfa Caterpillar Of this lightly orange-marked form at hand are: Augusta, and Augusta ♂, 21 August ♀; Southwest Harbor, 25 July ♂.
- form **amphidusa** Boisduval 17 localities, 18 July - 6 September, 15 ♂; 28 June - 24 September, 29 ♀; dates without sex to 11 October. This Mississippi Valley species moved east recently. One or two were seen at Bar Harbor by Roland Thaxter many years ago. In late August and September, 1932 I recorded a male and five females in the Bar Harbor area, and in 1932 collectors in Lincoln-Enfield reported 3 collected and 3 or more seen. The same year the Bacon sisters in Northfield saw two.

about 20 miles from the New Brunswick border. Found in the cultivated portion of the State.

- 42 **philodice** Godart, Clouded Sulphur 49 localities, 7 May 13 October, 84 ♂; 30 April - 1 November, 40 ♀. Many recorded were not sexed.
- 45 **interior** Scudder 26 localities, 27 June 12 August, 36 ♂; 5 July 10 August, 32 ♀. Found from Rangeley, Weld, Augusta, Hope and Islesboro north and eastward.

Genus ZERENE Hubner 1819

- 55 **caesonia** Stoll No Maine records. In nearby New Hampshire there are three records in June and July near our western border. This species may also come into the northwest portion of Maine from one of the movements of *caesonia* down the St. Lawrence River.

Genus PHOEBIS Hubner 1819

Specimens of this genus stray widely in late summer.

- 57 **sennae** Linnaeus Canton, 19 August 1927, (Parlin) 1922 Maine Nat. 2: 72-73.
- 58 **philea** Johansson Maine, August 1930 (Haskin)
- 60 **agarithe** Boisduval Kittery Point, 3 September 1930, ♀ (Thaxter)

Genus EUREMA Hubner 1819

- 72 **lisa** Boisduval & LeConte 11 Localities, 3 July 3 September, 2 ♂; 14 August, 1 ♀; a number not sexed. Most common on islands and along the coast, but one reported at the summit of Mt. Katahdin, 17 July 1953, Sidney Hessel. Reported as numerous at Passadumkeag early July 1968.

Genus PIERIS Schrank 1801

- 82 **protodice** Boisduval & LeConte, Southern Cabbageworm Augusta, 9 August 1951 ♂ (J. H. Brower). My son and I found this in a truck garden.
- 83 **napi** Linnaeus 26 localities, first brood dates: 29 May 19 June; second brood dates: 14 July 16 September. Northern Maine.
- 86 **rapae** Linnaeus, Imported Cabbageworm 27 localities, 15 April 13 September, 15 ♂; 29 May 27 July, 5 ♀; many sight records not sexed. This is probably the most abundant butterfly in Maine. Introduced from Europe to the Montreal area about 1859-60, it spread with great rapidity. Professor S. I. Smith took it at Norway in 1865 and a number at Calais, 4 July 1866.

Family DANAIDAE

Genus DANAUS Kluk 1802

- 89 **plexippus** Linnaeus, Monarch Butterfly 55 localities, 12 May 20 October, 354 + specimens, most not sexed.
- aberration **formosus** Hulst from Augusta and Lincoln at hand.

This wide ranging migratory species varies greatly in abundance in Maine. Its food is normally lacking east of the Penobscot River and the butterflies are few. One migratory flight has been recorded in the Frenchman Bay area; another of about 60 on goldenrod in one area in Southwest Harbor, 23

September, 1933; and in the southern tip of the State aggregations of hundreds are reported. Some years the species is not seen until migrants arrive from the northwest in midsummer or later. Several times I have seen, during the first week in June, adults on lilac blossom, and one emerged as late as 13 October.

Family SATYRIDAE

Genus ENODIA Hubner 1819 (LETHE Hubner 1819)

- 96 *portlandia anthedon* Clark 24 localities, 1 July 6 August, 16 ♂; 16 July 8 August, 9 ♀. Scarce and local, about sap flows on willow and poplar. Part of the types of *E. p. borealis* Clark were from Maine. An attempt has been made to restrict *borealis* to Canada.

Genus MEGISTO Hubner 1819 (EUPTYCHIA Hubner 1818)

- 103 *eurytus* Fabricius (*cymela* Cramer) 29 localities, 5 June 7 July, 29 ♂; 22 June - 25 June, 2 ♀, plus many specimens not sexed. A species of the southwest quarter of Maine, it becomes rare beyond Waterville and Unity. One specimen was reported by Jean McKay on the blueberry barrens of Amherst.

Genus SATYRODES Scudder 1875

- 106 *eurydice* Johansson 20 localities, 13 June 1 August, 25 ♂; 15 June 3 August, 12 ♀. No records from north and east of the Lincoln area.

Genus COENONYMPHA Hubner 1816

- 109 *inornata* Edwards Passadumkeag, 5 July 1968, ♂ (Ferris) Det. F. M. Brown

Genus MINOIS *auctorum nec* Hubner [1819] (CERCYONIS Scudder 1875)

- 117 *alope* Fabricius Found in the lower tip of Maine.
 race *maritima* Edwards is common some years in spots along the coast from Kittery to about Bar Harbor. Berwick, 9 August (2-2); Cape Elizabeth; Phippsburg, 15 September; Popham Beach, 5 August, ♂; Friendship, "commoner than type" Forbes, *Psyche* 16:34; 1909.
 race *nephele* Kirby 39 localities, 30 June 11 September, 68 ♂; 29 July 11 September, 14 ♀. *Nephele* is found throughout and displaces the other races eastward and northward.

Genus OENEIS Hubner 1819

- 130 *jutta* Hübner 20 localities, 26 May - 29 June, 41 ♂; 28 May - 19 June, 14 ♀. Long known only from the Bangor-Orono bog, I have found it in suitable bogs from Jonesport and Southwest Harbor to the northwest portion of the State and eastward to Indian Township and Ashland.
 136 *polixenes katahdin* Newcomb Plateau of Mt. Katahdin, 24 June 28 July, 6 ♂; 6 July 27 July, 10 ♀.

Family NYMPHALIDAE

Genus EUPTOIETA Doubleday 1848

- 159 *claudia* Cramer Portland, August (Lyman) Ent. News 21:84; Gerrish Is.; Kittery, 11 September (Minot) Ent. News 20:437; Old Orchard. A stray from the south.

Genus ARGYNNIS Fabricius 1807 (SPEYERIA Scudder 1872)

- 161 *idalia* Drury Biddeford, 3 August; North Bridgton, 6 July, ♂ ♀ (Spratt); Portland (a series); Brunswick; Manchester; Waterville; Skowhegan. About the turn of the century it reached St. Johns, New Brunswick, being taken at many intervening Maine points.
- 166 *cybele* Fabricius 39 localities, 19 June - 16 September, 59 ♂; 25 July - 16 August, 18 ♀.
race *novascotiae* McDunnough St. John (St. Francis), 15 July, ♂. This race grades into *cybele*; it is taken from Augusta eastward.
- 167 *aphrodite* Fabricius 18 localities, 16 July - 14 September, 15 ♂; 13 July - 19 August, 15 ♀. Much less common than *cybele*; it has not been seen some years.
race *winni* Gunder Probably applies to Maine specimens.
- 171 *atlantis* Edwards 24 localities, 23 June - 16 August, 20 ♂; 3 July - 20 August, 21 ♀.
race *canadensis* dos Passos T11R17, (Lac Frontiere), 3 August, ♀♀; Klondike Basin, Mt. Katahdin, 7 July (3-), and generally in northern Maine.

Genus BRENTHIS Hubner 1819

- 200 *myrina* Cramer (*selene* Dennis & Schiffermüller) 33 localities, 29 May - 7 September, 33 ♂; 20 June - 4 September, 10 ♀. This name is applied to the species in northern Maine.
- 202 *aphiraphe* Hübner (*eunomia dawsoni* Barnes & McDunnough) Passadumkeag, 23 June, ♀; Mt. Katahdin, 7 July, ♂, 9 July, ♀; Klondike Basin, Mt. Katahdin, 29 June, 30 June, 7 July; T5R6 (Mt. Chase), 6 June; Ft. Kent, 19 June, ♂ ♂, 27 June, 28 June.
- 206 *chariclea grandis* Barnes & McDunnough (*titania* Esper) T11R17, (Lac Frontiere), 3 June, ♂ (Brower). This species is taken in Quebec north-west of Maine, and a short distance north of Madawaska. Years ago Professor A. S. Morse took it in Charlotte Co., New Brunswick near Calais. It flies in July.
- 212 *bellona toddi* Holland 25 localities, 10 May - 20 June, 1st brood; 2nd brood, 3 July - 12 September; possibly a 3rd brood beginning 19th August; total all broods, 41 ♂, 7 ♀.

Genus EUPHYDRYAS Scudder 1872

- 217 *phaeton borealis* Chermock & Chermock, The Baltimore 11 localities, 5 June - 16 July, 31 ♂; 5 June - 5 July, 21 ♀. Reared from turtlehead.
borealis aberrations Lincoln, 15 June, ♂ ♂, 16 July, ♀. A productive tiny bog yielded aberrations of this for some years.

Genus MELITAEA Fabricius 1807

- 256 **harrisi**; Scudder 48 localities, 8 June - 21 July, 43 ♂; 13 June - 9 July, 19 ♀. Small larvae of this species overwinter in colonies on *Aster umbellatus* and complete feeding in the spring.

Genus PHYCIODES Hubner 1819

- 263 **nycteis** Doubleday & Hewitson Portland (Lyman); Lewiston, July (Sprague); Norway, 19 June, ♀ ♀ (Smith); Orono, middle of June, Fernald list, p. 47; Wassatiquock River (Newcomb); Mt. Katahdin (Newcomb); Bar Harbor, 7 June (Johnson); Southwest Harbor, 25 June, ♂ (Johnson).
- 265 **tharos** Drury 34 localities, 18 May - 12 September, 73 ♂; 16 June - 21 September, 10 ♀. Two broods, poorly separated.
- 266 **batesii** Reakirt Norway (Smith) a specimen det. by Hessel, Remington and Brower. In Johnson list 1928 "Specimens that seem referable to this species have been taken at Bar Harbor and Southwest Harbor, June 25 and July 24." Machias (Parlin) 1922 Maine Nat. 2:72-73. All except the Norway record are considered incorrect. I have taken very pale *tharos* in the Lexington area.

Genus POLYGONIA Hubner 1819 (GRAPTA Kirby 1837)

- 285 **interrogationis** Fabricius 22 localities, 13 July - 14 November, 11 ♂; 19 June - 26 August, 5 ♀. Brooklin, 6 August many emerged ex hop. Brood on elm emerged August 1959 (J. H. Brower). Dark variety (*umbrosa* Lintner) from several localities; early date Augusta, 18 May 1949.
- 286 **comma** Harris 11 localities, 11 June - 21 September, 6 ♂; 11 June - 16 July, 6 ♀. Both forms of this rather rare species occur.
- 287 **satyrus** Edwards Wade (Ashland), 12 June, 1973, ♀ (Brower). It is found in adjacent Quebec and New Brunswick.
- 288 **faunus** Edwards 40 localities, 5 June - 10 September, 32 ♂; 25 July - 5 September, 6 ♀. The commonest of its genus in the wooded portion of Maine. Reared from willow.
- 292 **gracilis** Grote & Robinson 17 localities, 9 June - 6 September, 13 ♂; 30 July, 1 ♀. Appears sporadically and widely some years, and then is not taken for many years.
- 294 **progne** Cramer 34 localities, 29 May - 16 September, 46 ♂; 5 June - 6 September, 7 ♀. General in moderate or small numbers. Reared from currant.

Genus NYMPHALIS Kluk 1802

- 295 **j-album** Boisduval & LeConte 22 localities, 13 March - 3 October, 10 ♂; 30 June - 25 September, 9 ♀; one brood; hibernator; dates into November. Feeds on yellow birch.
- 297 **milberti** Godart 23 localities, 23 May - 12 August, 15 ♂; 3 and 4 July, 2 ♀. Rather rare, erratic in appearance from islands at sea to top of Mt. Katahdin. Feeds on nettle.
- 298 **antiopa** Linnaeus, Mourning Cloak Butterfly 46 localities, 22 March - 17 October, many specimens, but very few sexed. Scarce to abundant colonial feeder on willow, aspen and elm. Comes out of hibernation to fly over the snow.

Genus VANESSA Fabricius 1807

The species of *Vanessa* come to us as migrants most years.

- 299 *atalanta* Linnaeus, Red Admiral 40 localities, 22 May 3 October. Many specimens, most not sexed. This may swarm on nettles on islands at sea. There was a great migratory flight northward across Maine in June 1957.
- 300 *virginiensis* Drury, Painted Beauty 26 localities, 18 May 3 September, 16 ♂; 22 July - 2 August, 2 ♀; last date 6 October. Feeds in a larval nest on pearly everlasting and cudweed, *Gnaphalium*.
- 301 *cardui* Linnaeus, Painted Lady 17 localities, 15 May 9 October, most specimens not sexed. Called the Thistle Butterfly, this species may be few to abundant. It eats thistles and hollyhock.

Genus JUNONIA Hubner 1819

- 303 *coenia* Hübner 12 localities, 27 July 21 August; about 20 specimens recorded. Strays mostly along the coast and along railroads.

Genus BASILARCHIA Scudder 1872

- 321 *arthemis* Drury 36 localities, 19 May 23 August, 48 ♂; 20 June August, 19 ♀. Mostly in the wooded areas with its food birch and aspen. Some years a small number of males of an abortive second brood appear in August and September.
- form *proserpina* Edwards Brunswick; Echo Lake, Mt. Desert Is., 17 July, ♂; Lincoln, September.
- 322 *atyanax* Fabricius York, 8 July, ♂, 11 July, ♂ ♂ (Hamilton). The true identity of these may be questioned.
- 325 *archippus* Cramer, Viceroy 39 localities, 5 June 16 September, 36 ♂; 14 June 5 September, 16 ♀. Its little hibernacula are found on small willows and aspens. A second brood is included.

Family LIBYTHEIDAE**Genus LIBYTHEA Fabricius 1807**

- 336 *bachmanii* Kirtland Lincoln, 10 July (Dave Round) a frayed specimen on dogbane. A long way from its home in the Sonoran subregion.

Family LYCAENIDAE

Most species of this family are so scarce and local that the range is poorly known.

Genus STRYMON Hubner 1818

- 373 *melinus* Hübner, Cotton Square Borer 15 localities, 21 May 31 August, 9 ♂; 10 August, 1 ♀. Southern, north to Oquossoc, Augusta, Passadumkeag and Jonesport. Reared several times on beans.
- 375 *ontario* Edwards The Monmouth report (Frost) has been considered erroneous. There is good reason to believe that the usual collecting methods do not secure this species as with some other Theclinae; it probably occurs.

- 380 **titus** Fabricius York (Farquhar); Portland (Lyman) Fernald 1884, p. 85; Norway, 3 ♂, 3 ♀ (Smith)
- 381 **acadica** Edwards 10 localities, 4 July - 14 July, 9 ♂; 8 July - 28 July, 11 ♀. Very local north to Belgrade, Augusta and Lincoln (Clayton). About clumps of willows in fields and waste areas.
- 385 **edwardsi** Grote & Robinson Augusta, 12 July, ♂♀, 14 July, ♂, 22 July, ♂; Hallowell (A. Wadsworth); Bar Harbor, 9 August, ♂.
- 387 **falacer** Godart (**calanus** Hübner) York, 19 July, ♂, 22 July, ♂, 1 August, ♂ (Hamilton); Norway, 13 July, ♂ (Hamilton); Belgrade, 11 July, ♂; Augusta, 12 July (13-2), 13 July, ♀, 14 July (2-3), 16 July (44-9), 20 July, 21 July, ♀, 23 July (16-3), 24 July (29-6), 28 July, unusually common; Hope, 11 July, ♂, 30 July, ♀; Islesboro, Waldo Co., 20 July, ♂; Salisbury Cove, 18 July, ♂, 24 July; Bar Harbor, 2 July, 4 specimens. Rests on oak sprouts on which the larva feeds.
- 389 **strigosa** Harris (**liparops** Boisduval & LeConte) York Beach (Farquhar); Mt. Agamenticus (Belkin); Weld, 4 July, ♂; Norway (Smith); Augusta, 8 July, ♀, 11 July, ♀, 12 July (7), 13 July, ♀, 16 July (3-1), 18 July (2-1), 22 July, ♀, 26 July, ♀, 28 July, ♂; Bar Harbor; Passadumkeag, 3 August, ♀; Lincoln (Clayton).

Genus MITOURA Scudder 1872

- 401 **damon** Cramer (**gryneus** Hübner) Porter, 24 May, ♂ ♀ (Brower). Associated with *Juniperus virginiana*.

Genus INCISALIA Scudder 1872

- 403 **augustus** Kirby (**augustinus** Westwood) 33 localities, 5 May - 9 June, 59 ♂; 5 May - 7 June, 32 ♀. General, at least northeast to Caribou. Most often associated with Sheep Laurel (*Kalmia angustifolia*) and Leatherleaf (*Chamaedaphne calyculata*).
- 405 **irus** Godart Norway, 31 May, ♂ (Smith). Determined by Brower, Hessel and Remington.
- 407 **henrici** Grote & Robinson Augusta, 26 May, ♀♀; Bar Harbor, 26 May, ♂, Mt. Desert Is. (Blackburn); Old Town (Fish); Enfield; Passadumkeag, 2 June; Lincoln, 26 May (Clayton), 29 May, ♀, 30 May, ♂; T5N. D. 24, (Springfield) May, ♀.
- 409 **polios** Cook & Watson 22 localities, 13 April - 1 June, 14 ♂; 18 May - 2 June, 13 ♀. From the lower tip of Maine I have found it north to Stratton, Flagstaff and Masardis and east to T5N.D. and East Machias.
- 411 **lanoraieensis** Sheppard 11 localities, 18 May - 3 June, 46 ♂; 24 May - 2 June, 7 ♀. This species was discovered in the Lincoln area by W. J. Clayton in the 1920's and recognized as distinct. For years it was known only locally. After learning its habitat, I have been able to take it in Berwick, Bar Harbor, Harrington and Wesley. The Forest Insect Survey of Maine has collected it as larvae on spruce in additional towns. I identified a male taken by Weed and Fiske about 1900 in Spruce Hole southwest of Durham, New Hampshire. I found specimens from several localities in New Brunswick, reared from spruce, to be this species.
- 413 **niphon clarki** Freeman 27 localities, (25 April 1973, ♂), 6 May - 7 June, 39 ♂; 25 April - 25 June, 39 ♀. Records are from the southwestern portion north to Mt. Vernon, Lincoln and east to Bar Harbor.

Genus ERORA Scudder 1872

- 418 *laeta* Edwards Streaked Mt. near Paris, 22 July (Smith); Dallas Pt. (Rangeley), 16 June, ♀; T2R12 (Greenville), 4 July, ♂; Orono, 18 May; Lincoln (Clayton); Bar Harbor, 19 May, ♂, 25 May, ♀.

Genus FENISECA Grote 1869

- 419 *tarquinius* Fabricius 19 localities, 14 May - 19 August, 23 ♂; 24 May - 18 August, 7 ♀. Found in the southern portion of Maine northeast to Kingfield, Lincoln, and Bar Harbor. Two broods occur. The larvae can sometimes be found in numbers feeding on the Alder Blight Aphid.

Genus LYCAENA Fabricius 1807

- 424 *thoe* Guerin York, 17 July, 18 July, ♀ (Hamilton); York Beach, common (Farquhar) (Belkin); Bowdoin, 16 September, ♀ (Lennox); Gardiner, 1 July, ♀; Augusta, 15 June, ♀, 19 June (2-3), 30 June, ♂, 8 July, ♂, 20 July, ♀, 9 August, ♀, 21 August (-3), 26 August, ♀, 31 August, ♂, 8 September, ♂, 16 September (3); Windsor, 7 July. A southern species found in Maine to Brunswick and Enfield rarely, usually near the larger docks on which it feeds.
- 433 *dorcea claytoni* Brower Lee, 3 August (12-10); Springfield, many specimens 20 July - 25 August. This species is restricted to the vicinity of Shrubby Cinquefoil on which the larvae feed, in this one known area, but may have been seen near Topsfield.
- 434 *epixanthe* Boisduval & LeConte York Beach (Farquhar); Alfred, 7 July (3). Waterboro, 8 July (5); Portland. Applied to specimens from southwestern Maine; intergrades with the next. Together they cover the State, feeding on cranberry.
- race *phaedrus* Hall 15 localities, 13 June - 7 September, 229 ♂; 22 June - 25 July, 28 ♀; many from several localities not sexed. In suitable localities in remainder of the State.
- 435 *hypophlaeas americana* Harris General, 38 localities, 30 May into November, 91 ♂; 3 June - 19 September, 12 ♀. During several seasons this was flying the first week in November in Aurora about its food, *Rumex acetosella*. The forms *obliterata* Scudder and *fasciata* Strecker are rather rare but commoner in spots.

Genus EVERES Hubner 1819

- 447 *comyntas* Godart 17 localities, 1 June - 3 October, 16 ♂; 26 May - 14 September, 19 ♀. Records are northward to Rangeley, Lincoln and Princeton.

Genus PLEBEIUS Kluk 1802

- 452 *aquilo* Boisduval Frank Chermock wrote that, with his wife Midge, on July 1, 1941 two *aquilo* were taken on top of Mt. Katahdin. He said these show good racial difference from northern *aquilo*. I have been up on Mt. Katahdin a great many times during the season it would be expected to fly and I have never seen anything of the sort. Very many other collectors likewise.

- 453 *saepiolus* Boisduval 18 localities, 18 May - 13 July, 32 ♂; 2 June - 19 July, 14 ♀. In the last century this was known only from up in Canada and west. It was found in Maine in 1929, and on 18 May, 1933 I took it on Mt. Desert Island. After a flush of abundance northward, it is taken as scattered individuals only.

Genus GLAUCOPSYCHE Scudder 1872

- 473 *lygdamus couperi* Grote Lincoln: St. Agatha, 26 June, ♂; Allagash, 27 June (2-1); Topsfield, 14 June, ♂. I collected the first Maine specimen near Topsfield, 14 June 1936.

Genus LYCAENOPSIS Felder & Felder 1865

- 475 *pseudargiolus* Boisduval & LeConte General, 70 localities, 1 May - 25 July, 85 ♂; 1 May - 18 August, 50 ♀. Two broods. This species doubtless appears in April some years and flies to the latter part of June, and apparently the second brood in July - August is only partial.

Family HESPERIIDAE

Genus EPARGYREUS Hubner 1819

- 484 *tityrus* Fabricius York, 11 July (2-1) (Hamilton), Biddeford, 5 August; Norway (1); Canton (Parlin); Fayette, 27 May, ♂; Winthrop, 5 June (1); Hallowell (Scudder); Augusta, 4 June (3), 16 June, ♂♂, 17 June, ♂, 18 June, 25 June, 27 June, ♂, 29 June, 3 July, ♂, 6 July, ♂, 16 July, ♂, 17 July, ♂. Has been reared from Black Locust and cultivated *Amorpha fruticosa*.

Genus THORYBES Scudder 1872

- 503 *bathyllus* Abbot & Smith Norway, ♀ (Smith).
505 *pylades* Scudder 20 localities, 6 June - 15 July, 32 ♂; 4 June - 15 July, 8 ♀. Occurs in numbers at times, though scarce northward.

Genus PHOLISORA Scudder 1872

- 531 *catullus* Fabricius Norway (Smith).

Genus ERYNNIS Schrank 1801

- 541 *icelus* Scudder & Burgess 51 localities, 2 May - 16 July, 73 ♂; 20 May - 28 June, 14 ♀. General, in moderate or small numbers.
542 *brizo* Boisduval Berwick, 24 May, ♂; Lebanon, 10 May, ♂; Bridgton, late May; Waterville (Fernald 1884, p. 103); Bar Harbor, 24 July (Johnson list, p. 83); Lincoln, ♀ (Clayton). Some of these reports are questionable.
546 *persius* Scudder Norway (Smith), Moosehead Lake (Scudder, p. 1473). No records for this century are at hand.
*547 *lucilius* Scudder & Burgess The presence of three specimens in the Weed and Fiske material from Durham, New Hampshire indicates its presence in Maine. Columbine, *Aquilegia canadensis*, is the food plant.
551 *juvenalis* Fabricius Alfred, 11 July, ♂; Lebanon, 10 May, ♂♂; North Bridgton, ♂♂; Topsham, 28 May (3), 31 May, ♂; Vassalboro, ♀ (Sturgis); Bucksport, 2 June (1), 3 June, ♂, 4 June, ♂♀; Orland, 4 June (2); Bar Harbor, 20 May, ♀♀, 27 May, ♂. I took these in rocky or sandy oakwoods.

Genus CARTEROCEPHALUS Lederer 1852

- 563 **palaemon** Pallas 30 localities, 1 June 7 July, 58 ♂; 11 June 27 June, 9 ♀. Statewide.

Genus ANCYLOXYPHA Felder 1862

- 567 **numitor** Fabricius 23 localities, 20 June 28 August, 30 ♂; 30 June 15 September, 9 ♀. General northeast to Rangeley, T8R19 n.w. of Baker Lake, Mt. Katahdin and Nicauous Lake.

Genus ADOPAEA Billburg 1820 (THYMELICUS Hubner 1819)

- 572 **lineola** Ochseneimer Madawaska, 22 July 1970 (Hensel) very common.

Genus HESPERIA Fabricius 1793

- 581 **metea** Scudder Cape Neddick (Farquhar); Lebanon, 24 May (3) (Brower) on the foodplant, *Andropogon*.
- 584 **comma laurentina** Lyman 15 localities, 6 August - 2 September, 35 ♂; 2 August - 9 September, 21 ♀. In the last century this species was known from north of the St. Lawrence River to the Pacific. In the early 1930's it was found at Rangeley, Lincoln and Bar Harbor in numbers locally, soon becoming rare or absent. At Bar Harbor it was in an old low-lying mowing field. No records are at hand from southwest of these localities.
- 591 **leonardus** Harris 14 localities, 16 August 31 August, 11 ♂; 21 August - 9 September, 5 ♀. Rarely north to Rangeley, Madison, Lincoln and Bar Harbor. Reported at Machias by Parlin.
- 598 **sassacus** Harris 32 localities, 29 May 4 July, 25 ♂; 5 June - 15 July, 31 ♀. General, but few records north and east.

Genus POLITES Scudder 1872

- 610 **manataaqua** Harris (**origines** Fabricius) 12 localities, 15 June - 25 July, 8 ♂; 10 June - 23 July, 9 ♀. Northward to Caratunk, Passadumkeag and Bar Harbor. Reported from Machias (Parlin).
- 611 **themistocles** Latreille (**cernes** Boisduval & LeConte) 17 localities, 13 June - 9 August, 20 ♂; 15 June - 9 August, 14 ♀. Widespread and common, but no records beyond Rangeley, Lincoln and Bar Harbor.
- 614 **peckius** Kirby 29 localities, 14 June - 3 August, 35 ♂; 7 July - 9 August, 7 ♀. One of the most abundant species, but records are lacking from Ft. Kent to Princeton.
- 618 **mystic** Scudder 33 localities, 9 June - 31 July, 44 ♂; 9 June 18 August, 25 ♀. Presumably general, but records are south of Rangeley, Mt. Bigelow and Lincoln.

Genus CATIA Godman 1900

- 621 **otho egeremet** Scudder Norway, ♀ (Smith); Canton, reported by Parlin; Echo Lake, Mt. Desert Is., 12 July (in Johnson list 1927). Perhaps the only trustworthy record of this southern species is Norway by S. I. Smith, but nearby New Hampshire records 13 July to 3 August show it is to be expected.

Genus *POANES* Scudder 1872

- 624 **hobomok** Harris 43 localities, 31 May - 30 June, 107 ♂; 5 June - 1 July, 16 ♀. One of the commonest skippers in Maine. The sexes are different and well-marked forms are not uncommon.
- *625 **zabulon** Boisduval & LeConte Scudder, Fernald and other workers confused the variable *hobomok* and more southern *zabulon*. All of the Maine records apply to *hobomok*.

Genus *ATRYTONE* Scudder 1872

- 635 **logan** Edwards Biddeford, 31 July 1961, ♀ (Gobeil).
- 641 **bimacula** Grote & Robinson 16 localities, 24 June - 21 July, 120 ♂; 24 June - 15 July, 20 ♀. Northward to Farmington, Lincoln, Mt. Desert Is. and probably farther, very local in swamps and bogs and erratic in numbers.
- 642 **uricola** Boisduval (*vestris* Boisduval, *metacomet* Harris) 13 localities, 29 June - 21 July, 8 ♂; 2 July - 9 August, 14 ♀. In southern Maine regularly present in small numbers, becoming fewer northward.

Genus *ATRYTONOPSIS* Godman 1900

- 644 **hianna** Scudder Taken nearby at Durham, New Hampshire, this should be found with *Andropogon*, its food plant in late May and June.

Genus *OLIGORIA* Scudder 1872

- 652 **maculata** Edwards Lee, New Hampshire, ♂♂; Lee, N. H., 18 June, ♀. Records of this species in New Hampshire in June within miles of Maine leads to its inclusion as probable.

Genus *AMBLYSCHIRTES* Scudder 1872

- 660 **vialis** Edwards 37 localities, 22 May - 22 July, 51 ♂; 27 May - 20 June, 12 ♀. Records are north to Rangeley, Eustis, Jackman, Corinna, Lincoln, Springfield and Jonesboro.
- 661 **hegon** Scudder (*samoset* Scudder) 26 localities, 29 May - 30 June, 31 ♂; 3 June - 26 June, 15 ♀. Records are north to Rangeley, Jackman, Lincoln, Springfield and Princeton.

Family SPHINGIDAE

Genus *HERSE* Oken 1815 (*AGRIUS* Hubner 1819)

- 693 **cingulata** Fabricius, Sweetpotato Hornworm Yarmouth, 1960, ♂; Augusta, 15 September, 1971, ♀; Vassalboro, 20 September, 1971, ♂; Orono, late August (Fernald).

Genus *PHLEGETHONTIUS* Hubner 1819 (*MANDUCA* Hubner 1807)

- 697 **quinquemaculata** Haworth, Tomato Hornworm Farmington; Augusta, 28 June, ♀; 16 July, ♀, 4 August, ♀, 8 October, ♀, 26 October, 28 October; Winslow (Lindsley); Bar Harbor, 7 - 12 September, several. Larva on tomato.

- 7698 *rustica* Fabricius Orono, 28 June 7 August, (10) (Dirks). A subtropical species. Available specimens are 707 *Ceratonia undulosa* Walker.

Genus DOLBA Walker 1856

- 703 *hyloeus* Drury Norway, 7 July, ♂ ♀ (Hamilton); Augusta, 8 August, ♂; Vassalboro, 18 July, ♀, 31 July, ♂, 12 August, ♂, 30 August, ♂; Hope, 7 June, ♂; Orono (Fernald); Enfield; Lincoln; Bar Harbor; Biddeford, 8 July (3), 9 July (6+) (Winn). Reared from privet and black alder, *Ilex verticillata*.

Genus CERATOMIA Harris 1839

- 706 *amyntor* Hübner, Elm Sphinx 14 localities, 15 June - 29 July, 14 ♂; 16 June 1 August, 10 ♀. Several rearings from elm. General but in small numbers.
- 707 *undulosa* Walker 47 localities, 31 May 12 August, 730 ♂; 19 June 1 August, 22 ♀. Reared many times from ash. General and common.
- 708 *catalpae* Boisduval Orono, 9 June, ♂, 10 July, ♂. A local infestation was present in 1932-33 (Dirks) and again in 1961 when specimens were reared from *Catalpa*.

Genus ATREIDES Holland 1903 (PARATREA Grote 1903)

- 711 *plebeja* Fabricius Northfield, a specimen in the Bacon collection. Possibly this specimen was from Connecticut.

Genus SPHINX Linnaeus 1758

- 713 *eremitus* Hübner North Bridgton, 1 July, ♂ (Spratt); Albion, recorded by Parlin, Maine Nat. 2:13; Northeast Harbor (W. C. Wood, Ent. News 20:345). A rare more southern species.
- 719 *chersis* Hübner, Great Ash Sphinx 23 localities, 18 June - 25 August, 55 ♂; 10 June - 10 August, 17 ♀. Reared from cherry and ash.
- 725 *canadensis* Boisduval 31 localities, 15 June 6 August, 117 ♂; 13 July 4 August, 7 ♀. Clayton at Lincoln reared it on ash. Widespread but scarce.
- 727 *kalmiae* Abbot & Smith 59 localities, 11 June 10 August, 213 ♂; 18 June 10 August, 19 ♀. Reared from sheep laurel, *Kalmia angustifolia* and ash.
- 728 *gordius* Cramer 46 localities, 28 May 9 August, 582 ♂; 3 June - 30 July, 24 ♀. Reared from meadow-sweet, *Spiraea latifolia* and blueberry.
- 729 *luscitiosa* Clemens 18 localities, 19 May 15 July, 20 ♂; 8 June 17 July, 15 ♀. Reared from willow. Adult, sunny midday at lilac in northern Maine. Rather rare.
- 730 *drupiferarum* Abbot & Smith 18 localities, 5 June 4 August, 14 ♂; 12 June - 9 July, 5 ♀. Reared from wild cherry. An uncommon species.

Genus LAPARA Walker 1856

- 735 *coniferarum* Abbot & Smith Kittery (Thaxter); Old Orchard Beach 11 July, ♂, 11 July (Newcomb); Oquossoc, 6 July, ♂; and possibly Lincoln (Clayton).

- 736 *bombycoides* Walker 43 localities, 7 June - 7 August, 380 ♂; 16 July, 1 ♀. Reared from white, red and pitch pine.

Genus SMERINTHUS Latreille 1802

- 739 *jamaicensis geminata* Say 71 localities, 23 May - 28 August, 923 ♂; 28 June - 4 August, 16 ♀. Reared from aspen and willow.
740 *cerisyi* Kirby 53 localities, (Augusta 2 May 1973 ♂), 16 May - 9 August, 446 ♂; 17 May - 21 July, 21 ♀. Reared on aspen.

Genus PAONIAS Hubner 1819

- 741 *excaecata* Abbot & Smith 60 localities, 31 May - 1 September, 1564 ♂; 9 July - 26 July, 12 ♀. Reared from birch and aspen.
742 *myops* Abbot & Smith 45 localities, 26 May - 28 July, 412 ♂; 12 June - 29 July, 7 ♀. Reared from cherry.
743 *astylus* Drury 11 localities, 12 July - 17 July, 7 ♂, 27 June - 16 July, 3 ♀. Southern, eastward to Dennysville and northward to T9R5 (Oxbow). Rare.

Genus CRESSONIA Grote & Robinson 1865

- 744 *juglandis* J. E. Smith, Walnut Sphinx 14 localities, 4 June - 28 July, 30 ♂; 1 ♀ 1958, Farmington. Widespread, but usually lone individuals.

Genus PACHYSPHINX Roth-child & Jordan 1903

- 745 *modesta* Harris 54 localities, 5 June - 5 August, 353 ♂; 30 June - 30 July, 28 ♀. General, but commoner northward with increase in aspen, its food.

Genus AELLOPOS Hubner 1819

- 765 *titan* Cramer Salisbury Cove, 23 July, ♂ (U. Dahlgren), Bar Harbor, 5 July 1941, ♀ (Brower). About midday at dogbane flowers.

Genus HEMARIS Dalman 1816 (HAEMORRHAGIA Grote & Robinson 1865)

- 767 *thysbe* Fabricius 18 localities, 30 May - 17 July, 13 ♂; 31 May - 21 July, 5 ♀; 15 August, 1 ♀ of second brood at Benton. All species of this genus are day-fliers, and are probably double brooded. All fluctuate greatly in numbers. Reared from *Lonicera* and *Viburnum*.
768 *gracilis* Grote & Robinson 17 localities, 7 June - 21 July, 15 ♂; 6 June - 21 June, 5 ♀; Records lacking from east of Mount Desert Island, but north to Fort Kent.
770 *diffinis* Boisduval 17 localities, 30 May - 19 July, 9 ♂; 31 May - 25 June, 3 ♀. General, but few in number. Reared from *Lonicera*.

Genus PHOLUS Hubner 1819 (EUMORPHA Hubner 1807)

- 772 *satellitiae pandorus* Hübner Kittery; Biddeford, 9 July, 13 July, ♂, 19 July, ♂ (Winn); Portland (Fernald); 27 July, ♀ (Lyman); Bar Harbor (Procter).
773 *achemon* Drury, Achemon Sphinx Kittery; Biddeford, 9 July '00 (Winn); Bridgton, ♂; Farmington (Grey); Lewiston, ♀ (Spratt coll.); Augusta, 28 June 1933 - 1934 ♂, emerged, larva on Virginia creeper.

- 777 *labruscae* Linnaeus Wyman Dam at Bingham; Woodland (Caribou), 11 September (Nylander).

Genus AMPELOECA Rothschild & Jordan 1903 (DARAPSA Walker 1856)

- 778 *versicolor* Harris York, 1 or 7 July, ♂; Norway, 1 July, ♂, 28 July, ♂ (Hamilton).
 779 *myron* Cramer, Virginia Creeper Sphinx Biddeford, 9 July '01 (Winn), plentiful; Farmington, 28 June, ♂; Monmouth, 14 July, ♂; Vassalboro, 9 July, ♂, 15 July, ♂, 17 July, ♂, 28 July, ♂ ♂, 29 July, ♂ ♂; Unity, 30 June, ♂, 6 July, ♂.

Genus DARAPSA Walker 1856

- 780 *pholus* Cramer (*choerilus* Cramer) 17 localities, 3 June - 2 August, 57 ♂; 7 June 16 July, 3 ♀. Throughout, but collected uncommonly. Reared from *Viburnum*.

Genus SPHECODINA Blanchard 1840

- 781 *abbottii* Swainson Kittery; Gorham; East Sumner, 19 June; Fayette, 10 June; Farmington, 10 June, 28 July. ♀; Belgrade, 13 June; Augusta, 18 May, 2 June, ♂ ♀; Vassalboro, 11 May, ♂, 26 May, ♂, 4 June, ♂, 7 June, ♂, 11 June, ♀. Uncommon. Larvae feeding on Virginia Creeper cause complaints at times. All records from southwest Maine.

Genus AMPHION Hubner 1819

- 785 *nessus* Cramer 11 localities, 5 June - 17 June, 4 ♂; 7 June, 1 ♀, June, ♀; Smithfield. Usually rare but widespread northeast to Woodland (Caribou) (Nylander).

Genus PROSERPINUS Hubner 1819

- 790 *flavofasciata* Walker Bangor, 30 May, ♀; Orono (Fernald); Enfield (Grey); Lincoln, 5 June; Perham, 31 May (Nylander). A rare widespread species. Professor Braun reared it on willow-herb, *Epilobium*.

Genus CELERIO Oken 1815 (HYLES Hubner 1819)

- 798 *gallii intermedia* Kirby 17 localities, 21 June 2 August, 12 ♂; 11 June 26 July, 10 ♀. A rare northern species; occurs singly. Reared from willow-herb, *Epilobium*.
 799 *lineata* Fabricius, Whitelined Sphinx Biddeford, 9 July '01 (Winn) Orneville (Milo), one emerged 4 June; Lincoln (Clayton); Bar Harbor, 4 September, ♂. A western and southern species. Reared on willow-herb and lettuce.

Family SATURNIIDAE

Genus PLATYSAMIA Grote 1865 (HYALOPHORA Duncan 1841)

- 804 *cecropia* Linnaeus 18 localities, 4 June 20 July, 10 ♂; 9 June 28 June, 4 ♀. Statewide, but becomes rare northward and eastward. Reared from willow, apple, plum, cherry and maple.

- 806 **columbia** Smith 20 localities, 5 June - 24 June, 3 ♂; 2 June - 11 July, 7 ♀. A number of records are of larvae or cocoons found by different people on larch and other plants, Norway to central New Brunswick.

Genus CALLOSAMIA Packard 1864

- 809 **promethea** Drury, Promethea Moth 14 localities, 10 June - 12 June, 2 ♂; 12 June - 14 June, 2 ♀. Rare, mostly found as cocoons, North to Hartford, Wyman Dam at Bingham, Moscow, Millinocket, Aurora, and a teacher at Calais said they gathered local cocoons one year. Feeds on white ash, cherry and basswood.

Genus ACTIAS Leach 1815 (TROPAEA Hubner 1819)

- 811 **luna** Linnaeus, Luna Moth 29 localities, 29 May - 28 July, 42 ♂; 9 June - 9 July, 5 ♀. Statewide and uncommon. Larva on birch and beech.

Genus TELEA Hubner 1822

- 812 **polyphemus** Cramer, Polyphemus Moth 49 localities, 12 June - 5 August, 214 ♂; 9 June - 19 July, 11 ♀. Reared from elm, birch, oak, maple, hawthorn and mountain ash.

Genus AUTOMERIS Hubner 1819

- 818 **io** Fabricius, Io Moth 14 localities, 1 June - 1 August, 66 ♂; 17 June - 26 June, 5 ♀. Scarce. Larvae from cherry, birch, corn and other plants. Northeast to Wyman Dam, Enfield and Bar Harbor.

Genus HEMILEUCA Walker 1855

- 830 **maia** Drury, Buck Moth Bridgton. ♂; Surry, a large colony emerged 22 September to 4 October from larvae collected on oak and birch (Hitchings). Report of the State Entomologist of Maine for 1907, p. 211. Food oak. These two records seem authentic. I have the Bridgton specimen. This and *lucina* are difficult to separate and need more careful checking as eggs and larvae.
- 831 **lucina** Henry Edwards 11 localities, 15 September - 6 October, 13 ♂; 15 September - 6 October, 11 ♀. Usually rare, north to Skowhegan, Lincoln, and a report from memory in Washington County. Reared from meadow-sweet, *Spiraea latifolia* and *S. tomentosa*.

Family CITHERONIDAE

Genus ANISOTA Hubner 1822

- 844 **senatoria** Abbot & Smith, Orangestriped Oakworm Sagadahoc and Cumberland Counties, Maine. Abundant (Packard, p. 125).
- 846 **virginiensis** Drury, Pinkstriped Oakworm 14 localities, 10 June - 11 July, 7 ♂; 12 June - 24 June, 4 ♀. Reared from oak and beech. North to Moscow, Millinocket and Princeton.
- 848 **rubicunda** Fabricius, Greenstriped Mapleworm 37 localities, 26 May - 1 August, 315 ♂; 14 June - 6 July, 8 ♀. Statewide, sometimes abundant. Reared from maple.

Genus CITHERONIA Hubner 1822

- 858 *sepulchralis* Grote & Robinson Norway, 20 June, ♂ (Hamilton); Brunswick; larva on pine (Packard).

Genus EACLES Hubner 1822 (BASILONA Boisduval 1868)

- 860 *imperialis* Drury, Imperial Moth York, 22 July, ♂ (Hamilton); Portland, 23 August, 1972 (L. Dow); North Bridgton, August, ♂ (Spratt); Norway, 7 July, ♂, 9 July, ♂ (Hamilton); Lincoln, reported by L. P. Grey. Reported to feed on many trees.

Family AMATIDAE**Genus SCEPSIS Walker 1854 (CISSEPS Franclemont 1936)**

- 871 *fulvicollis* Hübner 50 localities, 3 June - 15 October, 524 ♂; 6 August - 25 September, 4 ♀. Larva on lichens and miscellaneous plant material.

Genus LYCOMORPHA Harris 1839

- 877 *pholus* Drury 14 localities, 24 July - 1 August, 2 ♂; 27 July - 6 September, 8 ♀, a number not sexed. In sunlight at flowers. Northeast to Farmington. Mt. Kineo, Enfield and Winter Harbor. Rare.

Genus CTENUCHA Kirby 1837

- 884 *virginica* Charpentier 47 localities, 1 June - 6 August, 2019 ♂; 22 June - 23 July, 6 ♀.

Genus MACROCNEME Hubner 1818

- 884.1 A specimen of this genus reared from bananas, Hollowell.

Family NOLIDAE**Genus CELAMA Walker 1865 (NOLA Leach 1815)**

- 887 *pustulata* Walker Kittery Pt., 5 July, ♀ ♀. These are all I have identified. Reported at Unity by John Reed and at Orono (Fernald).
- 888 *cilicoides* Grote, 32 localities, 7 July - 10 August, 426 ♂; 18 July - 7 August, 10 ♀.
- 890 *triquetra* Fitch Augusta, 23 May, 1972, ♂. In nearby New Hampshire it flies in May.
- *892 *ovilla* Grote Packard, p. 132-133 says he has frequently found the larvae in Maine on oak leaves in September; the moths appear in May and June. Numbers have been collected about Montreal.
- 893 *clethrae* Dyar Kittery Pt. Patches of its food, *Clethra*, occur in York and Cumberland Counties. Nearby New Hampshire dates are 5 May - 6 June.

Genus SARBENA Walker 1862 (MEGANOLA Dyar 1898)

- 897 *minuscule* Zeller Kittery Pt., 29 June 1886. ♂: Biddeford, 10 July 1909, ♂ (Winn); Augusta, 17 June, ♀, 28 June, ♂, 1 July, ♂, 11 July, ♂; Mt. Vernon, 5 July, ♂; Vassalboro, 12 June, ♂, 4 July, ♂; Farmington, 13 June, ♂; Hope, 6 July, ♀; Kingfield, 2 August, ♂; Orono (Fernald).
- 897.1 *phylla* Dyar Kittery Pt. 29 June 1886, ♂.
- 89- sp. Kittery Pt., 29 June ♂; Vassalboro, 28 June ♂. Another species.

Family ARCTIIDAE**Genus LEXIS Hampson 1900 (Fide Forbes) (TRIGRIOIDES Butler 1877)**

- 905 *bicolor* Grote 38 localities, 30 June 23 August, 2304 ♂; 18 July 24 July, 3 ♀. Reared from spruce and fir. From a trap in T17R5, July 8-15, 1972, 609 specimens were received.

Genus CRAMBIDIA Packard 1864

- 906 *pallida* Packard 25 localities, 10 July 1 September, 670 ♂; 23 July - 16 August, 2 ♀.
- 911 *casta* Packard Bar Harbor, 31 August, ♂ (Brower); Enfield, 28 August, ♂; Millinocket, 17 July, ♂, 25 July, ♂, 26 July, ♂; T6R7, Camp Colby (Patten), 28 July, ♂; Topsfield, 26 July, ♂, 28 July, ♂ ♂, 30 July, ♂ ♂, 1 August, ♂ ♂, 2 August, ♂, 3 August, ♂ ♂, 4 August, ♂ ♂, 6 August, 7 ♂.

Genus CLEMENSIA Packard 1864

- 952 *albata* Packard 45 localities, 2 July 24 August, 936 ♂; 14 July 24 August, 10 ♀.

Genus HYOPREPIA Hubner 1825

- 958 *miniata* Kirby 28 localities, 10 July 18 August, 40 ♂; 15 July 12 August, 11 ♀.
- 959 *fucosa* Hübner 53 localities, 2 July 18 August, 1695 ♂; 8 July 23 August, 36 ♀.

Genus HALYSIDOTA Hubner 1822 (HALYSIDOTA Hubner 1822)

- 977 *caryae* Harris, Hickory Tussock Moth Kittery; Biddeford; Norway, 23 June, ♂, 27 June, ♂ (Hamilton); Farmington, 27 June, ♂; Augusta, 24 June, 1972, ♂; Orono (Fernald); Enfield; Lincoln; Houlton, 14 July, ♂, 28 July, ♂. Widespread but rare. Numbers of larvae were found at Bangor in 1884; Biddeford, 1971 and '72; Newport 1971 and '72.
- 980 *maculata* Harris, Spotted Tussock Moth 37 localities, 27 May 4 August, 969 ♂; 6 June 28 July, 149 ♀.
- 984 *tessellaris* Abbot & Smith, Pale Tussock Moth 29 localities, 19 June - 31 August, 782 ♂; 19 June 31 August, 626 ♀.

Genus CYCNIA Hubner 1818 (AMMALO Walker 1855)

- 991 *tenera* Hübner 24 localities, 5 June - 13 August, 158 ♂; 23 June - August, 11 ♀. North to Wyman Dam (Bingham), Ashland and Topsfield

Genus EUCHAETIAS Lyman 1902

- 1001 *egle* Drury 12 localities, 13 June - 1 August, 41 ♂; 13 June - 8 August 12 ♀. Rarely found north to Eustis, Ashland and Lincoln. Reared from milkweed.
- 1005 *oregonensis* Stretch 19 localities. 16 May - 18 August, 50 ♂; 4 June - 1 August, 14 ♀. Generally as single individuals. Reared on dogbane *Apocynum*.

Genus EUBAPHE Hubner 1823 (HOLOMELINA Herrich-Schaeffer 1855)

- 1016 *lacta treatii* Grote 30 localities, 29 June - 6 August, 159 ♂; 9 July - 18 July, 5 ♀.
- 1019 *aurantiaca* Hübner 27 localities, 25 June - 27 September, 575 ♂; July - 26 July, 10 ♀. More or less a day flyer.
form *quinaria* Grote Forms a portion of the population, 14 July - 31 August, Bar Harbor to St. Francis.
- *1022 *opella* Grote Hampton, New Hampshire, 25 May - 7 July, 6 ♂; 1 June - 29 July, 5 ♀ (S. A. Shaw).
- 1023 *ferruginosa* Walker This name has been applied to a part of the very variable *aurantiaca*. Application of names in this section of *Eubaphe* is uncertain.
- 1023.1 *lamae* Freeman Southwest Harbor, 18 July - 26 August in moderate numbers in its extremely local bog habitat, only by day collecting.

Genus PHRAGMATOBIA Stephens 1830

- 1028 *fuliginosa rubricosa* Harris 32 localities, 9 May - 28 August, 234 ♂; 6 June - 17 August, 23 ♀.
- 1028.1 *lineosa* Newman & Donahue This recently recognized species is represented by an undated male from Lincoln. In New Hampshire it flies June 20 to end of July.
- 1029 *assimilans* Walker 14 localities, 20 May - 9 July, 40 ♂; two females 17 and 23 May. Throughout Maine, usually as single individuals.

Genus APANTESIS Walker 1855

- 1033 *virgo* Linnaeus 41 localities, 18 June - 15 August, 1571 ♂; 9 July - 6 August, 53 ♀. A common species with several variations.
- 1034 *intermedia* Stretch Specimens from Lincoln and elsewhere have been identified as this, but confusion with both *virgo* and *parthenice* makes its status uncertain.
- 1035 *parthenice* Kirby 38 localities, 26 June - 9 September, 228 ♂; 20 July - 7 August, 8 ♀.
- 1036 *oithona* Strecker Augusta, 18 August, ♂; T6R7 Camp Colby (Patten) 25 July, ♂. At Hampton, New Hampshire this was taken May 29 to August 26.
form *rectilinea* French is most often taken in Maine. This species is sometimes combined with *phyllira*.

- 1037 *doris* Boisduval Norway, 6 August, ♂ (Hamilton); Farmington, 12 June, ♂; Salisbury Cove; Bar Harbor, 1 June - 16 August; Lincoln, 23 June, ♂, ♀, ♀ (Clayton).
- 1038 *arge* Drury Kittery Pt.; Bridgton, 30 May, ♂; Monmouth, 10 August, ♂ (J. H. Brower); Topsfield, 27 July, ♀. This southern species is rarely found.
- 1040 *anna* Grote and form *persephone* Grote Kittery Pt.; Lincoln; Jackman, 2 July (3-), 3 July, ♂, 7 July, ♂, 13 July, ♂; Masardis, 5 July, ♂; Topsfield, 7 July, ♂, 10 July, ♂, 11 July, ♂, 31 July, ♂.
- 1041 *quensellii gelida* Moeschler The plateau and above of Mt. Katahdin, 10 July, ♂ ♀, 16 July, ♂ ♀, 17 July, ♂ ♀, 25 July, ♂.
- 1044 *virguncula* Kirby 36 localities, 13 June - 12 August, 251 ♂; 21 June - 8 July, 4 ♀.
- 1051 *celia* Saunders Sebec Lake (near Monson), 8 - 14 July (McDunnough); Millinocket, 17 June, ♂; Patten, 18 July, ♀. Somewhat larger and with yellower hindwings than *williamsii*.
- 1052 *figurata* Drury Norway, 10 June, ♂; Dixfield, 27 July, ♂ (Ruth Delano); Farmington, 20 August, ♀; Vassalboro, 4 July, ♂, Orono (Fernald); Lincoln (Clayton); Enfield, 2 July, ♀.
- 1053 *williamsii* Dodge 24 localities, 18 June - 17 August, 490 ♂; no ♀. One at Farmington, but the others in the northern townships. Maine specimens look more like typical Colorado *williamsii* than like the Great Plains *celia*.
- 1054 *phyllira* Drury One as *phyllira excelsa* Neumoegen (det. by H. G. Dyar) Riggsville (Woolwich) 26 June 1905, ♀; Orono, 26 June, 1933, ♂ ♂.
- 1058 *nais* Drury Kittery Pt.; Norway, 7 June, ♂, 14 June, ♂; Farmington, 27 May, ♂, 10 June, ♂ ♂, 16 August, ♀; Vassalboro, 7 June, ♂.
The names *Apantesis vittata* Fabricius and the Lower Austral *A. radians* Walker have been applied to Maine specimens, but these probably belong under other names.
- 1061 *phalerata* Harris Kittery Pt., Augusta, 1 August, ♂, 3 August, ♂, 20 August, ♂; Vassalboro, 15 August, ♂, 16 August, ♂, 2 September, ♂; Farmington, 16 June, ♂, 14 August, ♂, 18 August, ♂; Oquossoc, 15 July, ♂.

Genus DIACRISIA Hubner 1827 (SPILOSOMA Stephens 1828)

- 1064 *latipennis* Stretch Augusta, 20 May, ♂, 26 June, ♂; Passadumkeag, 24 June (3-1) (Brower); Lincoln, 8 July, ♂; Patten, 5 July, ♂; T8R13 (Tramway), a series of males 1 July to 10 July.
- 1065 *virginica* Fabricius, Yellow Woollybear 43 localities, 11 May - 5 August, 1660 ♂; 15 June - 6 August, 92 ♀.

Genus ISIA Walker 1856 (PYRRHARCTIA Packard 1864)

- 1069 *isabella* Abbot & Smith 48 localities, 5 June - 4 August, 587 ♂; 30 May - 5 August, 141 ♀.

Genus ESTIGMENE Hubner 1822

- 1070 *acrea* Drury, Saltmarsh Caterpillar 29 localities, 25 May - 2 August, 336 ♂; 4 June - 29 July, 48 ♀.

- 1072 **prima** Slosson 15 localities, 17 May 6 July, 97 ♂; 17 May 14 July, 7 ♀. Norway (Smith), Augusta and Bar Harbor northward.
- 1073 **congrua** Walker 31 localities, 20 May 30 July, 107 ♂; 12 June 12 July, 15 ♀.

Genus HYPHANTRIA Harris 1841

- 1074 **textor** Harris 39 localities, 27 May 3 August, 995 ♂; 15 June 31 July, 14 ♀. Throughout the farm country becoming uncommon near the St. Johns River.
- 1075 **cunea** Drury, Fall Webworm York: Augusta, 10 July, ♂ ♂, 11 July, ♂ ♀, 12 July (7-); Orono, 7 June - 13 August; Lincoln, 6 July, ♂; T18R12, (Rocky Mt.), 9 July, ♂; Dennysville, 8 July, ♂, 10 July, ♂, 12 July, ♂; Topsfield, 12 July, ♂ ♂, 14 July (4-), 15 July (3-), 18 July (4-), 19 July (6-), 22 July, ♂ ♂, 25 July (3-), 27 July, ♂ ♂. Normally this is found near the coast, appears later, looks different from *textor*. Only one specimen of a second brood is at hand, and is white like *textor*, Augusta, 19 September, ♂, at black light.

Genus PARASEMIA Hubner 1822 (HYPHORAIA Hubner 1822)

- 1092 **parthenos** Harris 52 localities, 25 June - 11 August, 1293 ♂; 6 July 20 July, 24 ♀. Statewide, but erratic in occurrence except northward.

Genus ARCTIA Schrank 1802

- 1098 **caja americana** Harris 33 localities, 27 June 14 August, 256 ♂; 5 July - 17 August, 19 ♀. From Rangeley, Greenville, Orono and Woodland, Washington Co. northward.

Genus UTETHESIA Hubner 1823

- 1099 **bella** Linnaeus, Bella Moth York Beach; Ogunquit (Johnson); Mt. Desert Island, 11 September (Johnson); Bar Harbor, 16 July, ♂ (Brower); Ironbound Island (Dwight Blaney); Orono, (Fernald); Lincoln, 6 July (Clayton).

Genus HAPLOA Hubner 1822

My specimens of *Haploa* are on loan, and records are unavailable.

- 1101 **clymene** Brown Vassalboro, 10 August, 1966, ♂.
- 1103 **lecontei** Guérin 17 localities, 25 June 10 August, 35 ♂; 4 July 5 August, 5 ♀.
- 1104 **confusa** Lyman 15 localities, 8 July 31 July, 51 ♂; 10 July 27 August, 7 ♀.
- The variety *lymani* Dyar occurs.
- There is probably some confusion of *lecontei* and *confusa* records.

Family AGARISTIDAE

Genus ALYPIA Hubner 1825

- 1112 **octomaculata** Fabricius, Eightspotted Forester Hallowell, 24 May, ♂, (Brower); Augusta, 20 June, ♂; Vassalboro.

- 1116 *langtoni* Couper Norway, (4-2) (Smith); Augusta, 20 April, 1955, ♂, flying, 12 June, ♂, 20 June, at pea flowers; Vassalboro, 28 June; Farmington, 27 May, ♂; Orono (Fernald); Eustis, on *Epilobium*, 22 June, ♂ ♀ (Brower); Lincoln (Grey); Little Duck Island (Mt. Desert Island), 16 July, (Brower); Houlton, 11 June, ♀; Presque Isle (Norton).

Family PHALAENIDAE (Noctuidae)

Genus COLOCASIA (Ochsenheimer 1816 of authors) Hubner 1816 (DEMAS Stephens 1829)

- 1122 *flavicornis* Smith Farmington, 7 May, ♂, 9 May, ♂♂, 10 May, (3-), 13 May, (3-), 15 May, ♂, 16 May, ♂♂, 18 May, ♂♂, 20 May, (8-), 23 May, ♂, 27 May, (3-1), 29 May, ♂♂, 30 May, (5-1), 31 May, ♂, 2 June, ♂, 7 June, ♂, 8 June, (4-), 10 June, (2-1), 12 June, (2-2), 24 June, ♂, 28 June, ♂; Mt. Vernon, 6 June, ♂; Augusta, 20 June, ♂; Vassalboro, 30 May, ♀; Rockwood, 12 July, ♂; T11R8, Round Mt., 6 July, ♂; Bar Harbor, 2 July; Marion, 14 July, ♂♂.
- 1122.1 *infanta* Smith 11 localities, 8 June - 19 July, 22 ♂; 23 June - 2 July, 2 ♀. This may be a variety of another species.
- 1123 *propinquinelinea* Grote 18 localities, 16 May - 23 July, 40 ♂; 20 May - 19 June, 3 ♀.

Genus PANTHEA Hubner 1816

- 1125 *aeronyctoides* Walker 40 localities, 4 July - 10 August, 223 ♂; 28 June - 6 August, 19 ♀. A spruce-fir feeder.
- 1130 *fureilla* Packard 37 localities, 25 May - 27 August, 424, ♂; 5 July - 5 August, 28 ♀. General with its food, white pine.
- race *pallescens* McDunnough Lincolnville, 11 July, ♂; and in eastern Maine.

Genus CHARADRA Walker 1865

- 1135 *deridens* Guenée 35 localities, 29 May - 5 August, 330 ♂; 18 June - 28 July, 35 ♀.

Genus RAPHIA Hubner 1816

- 1141 *frater* Grote 40 localities, 20 May - 5 August, 770 ♂; 25 May - 26 August, 277 ♀.

Genus ACRONICTA Ochsenheimer 1816

- 1148 *americana* Harris, American Dagger Moth 41 localities, 10 June - 10 August, 133 ♂; 10 June - 9 August, 114 ♀.
- 1149 *hastulifera* Abbot & Smith 16 localities, 4 June - 22 July, 23 ♂; 11 July - 12 August, 4 ♀.
- 1151 *dactylina* Grote 50 localities, 1 June - 5 August, 264 ♂; 30 May - 16 July, 4 ♀.
- 1152 *hesperida* Smith Lincoln, 3 July, ♀, 15 July, ♀. Determined by F. H. Benjamin. Looks unlike *dactylina* but its specific distinctness is uncertain.
- 1153 *lepusculina* Guenée, Cottonwood Dagger Moth 43 localities, 18 June - 5 August, 65 ♂; 29 July - 3 August, 37 ♀.

- 1154 *leporina vulpina* Grote 52 localities, 4 June - 9 August, 115 ♂; 1 June - 19 August, 58 ♀.
- 1155 *innotata* Guenée 42 localities, 4 June - 15 August, 768 ♂; 4 May - 31 August, 287 ♀. This was reared from aspen.
- 1157 *radcliffei* Harvey Kittery Pt., 19 May, ♀; Norway; Eustis, 12 July, c Bangor, 13 July, ♀. Pittston Farm, 9 July, ♀; St. Francis, 6 July, c Bridgton.
- 1159 *tritona* Hübner 11 localities, 9 July - 27 August, 7 ♂; 9 July - 5 September, 8 ♀.
- 1160 *grisea* Walker 51 localities, 25 May - 15 August, 455 ♂; 26 June - 9 August, 124 ♀.
- 1168 *funeralis* Grote & Robinson 31 localities, 6 June - 26 July, 51 ♂; 1 July - 28 July, 9 ♀.
- 1172 *vinnula* Grote Farmington, 17 May, 6 June, ♂♂, 12 June, ♂, 16 June ♂, 18 June, ♀♀; Augusta, 11 June, ♂; Vassalboro, 26 May, ♂, 29 May ♂, 30 May (2-1), 5 June, ♂, 6 June, ♂♂, 7 June (6-2), 11 June, ♂ 12 June (1-3), 14 June, ♂♀, 15 June (3-), 18 June (2-2), 19 June, ♂♂ 21 June, ♂♂, 24 June, ♂; Eustis, 13 July, ♂; Greenville, 15 July ♂♀ Monmouth, 10 August, ♂; Orono, 8 July, ♂, 9 July, ♂; Lincoln, 2^d June, ♂, 15 July, ♂; Pittston Farm, 11 July ♀.
- 1173 *superans* Guenée 33 localities, 24 May - 24 August, 54 ♂; 29 May - 29 July 30 ♀.
- 1174 *laetifica* Smith 24 localities, 27 May - 5 August, 35 ♂; 31 May - 28 July, 22 ♀.
- 1175 *furcifera* Guenée 15 localities, 11 June - 5 August, 21 ♂; 8 June - 18 July, 10 ♀. Forbes thinks this and *hasta* are one species.
- 1176 *hasta* Guenée 17 localities, 18 May - 22 July, 57 ♂; 27 May - 15 July, 12 ♀.
- 1180 *spinigera* Guenée Farmington, 4 June, ♂, 4 July, ♀, 11 July, ♀. A rare and poorly known species.
- 1181 *morula* Grote & Robinson 27 localities, 30 May - 4 August, 43 ♂; 3 July - 6 August, 19 ♀.
- 1182 *interrupta* Guenée (*occidentalis* Grote & Robinson) 19 localities, 18 May - 18 August, 18 ♂; 10 June - 22 July, 8 ♀.
- 1183 *lobeliae* Guenée Kittery Pt., 8 June, ♂, 27 July, ♀; Farmington, 4 June (3-1), 12 June, ♂♀, 13 June, ♂, 15 June, ♂, 30 June, ♀; Rangeley, 21 June, ♀; Vassalboro, 6 June, ♂, 7 July, ♂, 29 July, ♀; Hope, 21 June, ♂, 6 July, ♂; Bar Harbor, 29 May, ♂; Old Town; Lincoln (Grey): T9R5 (Oxbow), 13 July, ♂; T18R12. (Rocky Mt.), 10 July, ♂.
- 1184 *pruni* Harris Kittery Pt., 30 June, ♀; Norway (S.I. Smith); Orono (Fernald); Lincoln, 1 July, ♂.
- 1185 *fragilis* Guenée 46 localities, 10 June - 9 August, 449 ♂; 3 July - 3 August, 98 ♀.
- 1186 *exilis* Grote Enfield, 3 June, ♂.
- 1187 *ovata* Grote Bridgton, ♀; Maine Agricultural Station, Orono? Packard, in his 5th Report, as common in Maine.
- 1189 *haesitata* Grote Kittery Pt., 3 July, ♂♂, 6 July, ♀; Augusta 18 June, ♂; Mt. Vernon, 4 July, ♂; Bangor? 22 June, ♀, 5 July, ♀; Enfield (Grey): T11R8, (Round Mt.), 12 July, ♂, 6 August, ♂.

- 1190 *clarescens* Guenée Norway. Mayfield, emerged 6 May 1932, ♂; Farmington, 23 June, ♂; Mt. Vernon, 11 July, ♂; Enfield (det. Benjamin); Lincoln, ♀, 23 June, ♂, 25 June, ♂, 4 July, ♂, 7 July, ♂, 8 July, ♀, 9 July, ♂♀, 10 July, ♀, 14 July, ♂♂, 15 July, ♂, 20 July, ♀, 21 July, ♀, 22 July, ♂, 23 July, ♂; Kellyland, (Princeton), 2 July, ♂; Shin Pond, 8 July, ♂; T11R8, (Round Mt.), 7 July, ♂, 8 July, ♀♀, 9 July, ♀♀, 10 July (2-1), 11 July, ♀♀.
- 1191 *inclara* Smith 14 localities, 24 June - 25 July, 7 ♂; 23 June - 5 August, 7 ♀.
- 1192 *tristis* Smith Kittery Pt., 15 June, ♂, 30 June, ♂; Augusta, 11 July, ♀; Surry, emerged 12 July; Enfield, 7 July, ♂; Lincoln, 12 July, ♀, 22 July ♀; Millinocket, 23 July, ♂.
- 1193 *hamamelis* Guenée 19 localities, June - 2 August, 198 ♂; 5 June - 9 August, 87 ♀. This name has been applied to more than one species.
- 1194 *incrata* Morrison Kittery Pt., 11 June, ♂, June, ♂, 8 July, ♀, July, ♀; Farmington, 28 June, ♂, 2 July, ♀, 3 July, ♂, 11 July, ♀; Mt. Vernon, 4 July, ♀; Vassalboro, 4 July, ♂; Millinocket, 24 July, ♀.
- 1195 *retardata* Walker 24 localities, 11 June - 29 July, 155 ♂; 28 June - 15 September, 40 ♀.
- 1196 *caesarea* Smith Eustis, 15 July, ♀. Probably only a darker form of *retardata*.
- 1197 *subochrea* Grote Greenville, 8 July, ♂; Maine Agriculture Experiment Station, Orono? (as *brumosa*): T11R8, (Round Mt.), 28 July, ♀; Topsfield, 18 July, ♂, 22 July, ♀; Kellyland (Princeton), 11 July, ♀.
- 1198 *afflicta* Grote Kittery Pt., 11 June, ♂, 7 July, ♀.
- 1199 *brumosa* Guenée Bridgton, ♀, apparently this; Southport 12 August, ♀; Mt. Vernon, 16 July, ♂; Vassalboro 9 July, ♂.
- 1201 *impleta* Walker 18 localities, 18 May - 24 July, 24 ♂; 22 May - 12 July, 14 ♀.
- 1202 *sperata* Grote 19 localities, 24 May - 22 August, 68 ♂; 2 June - 22 July, 13 ♀.
- 1203 *noctivaga* Grote 17 localities, 20 May - 9 July, 12 ♂; 11 May - 30 July, 22 ♀.
- 1204 *imprensa* Walker 24 localities, 3 May - 23 August, 111 ♂; 8 May - 5 August, 15 ♀.
- 1206 *distans* Grote 6 localities, 11 May - 13 August, 21 ♂; 25 May - 5 August, 6 ♀; one reared from *Viburnum recognitum*.
- 1207 *longa* Guenée Kittery Pt., 27 June, 14 August, ♂, 1 September, ♂.
- 1209 *lithospila* Grote Kittery Pt., 13 June, ♂♀; Norway (Smith); Hope, 24 July, ♂; Bar Harbor, 8 August.
- 1215 *oblivita* Abbot & Smith, Smear-dagger Moth 50 localities, 4 June - 1 August, 102 ♂; 25 June - 29 July, 18 ♀. The brightly colored larva in old fields is better known than the moth.
- 1216 *lanceolaria* Grote Cape Neddick, larva, 1 August, emerged June; Kittery Pt.; Dennistown, 10 July, ♂; Seboomook, larva, 25 August, emerged May, ♂; Old Town (Fish coll.); Lincolnville, bred ♂; Bar Harbor, larva on *Spiraea latifolia*; Dickey, 6 July, ♂, 9 July, ♂, 11 July, ♂; Denysville, 9 June, ♂, 10 June, ♀.

Genus SIMYRA Ochsenheimer 1816 (ARSILONCHE Lederer 1857)

- 1222 **henrici** Grote Monmouth, 11 August, ♂, 14 August, ♂, 16 August (3-); Farmington, 8 May, ♂, 18 May, ♂, 2 June, ♂♂; August emerged 1 June from oak, 11 August, ♂; Mt. Vernon, 29 May, ♂, June, ♂, 5 June, ♂, 11 June, ♂♂, 24 June, ♂; Vassalboro, 11 May (6- 18 May, ♂♂, 23 May (4-), 26 May, ♂, 30 May (6-), 1 June, ♂, 2 July (4-), 4 June, ♂, 5 June, ♂, 6 June (5-), 7 June, ♂, 10 June, ♂, 13 July (3-), 18 June, ♂, 15 July, ♂, 20 July (7-), 24 July, ♂, 26 July, ♂♂, July (5-), 30 July, ♂♂, 1 August (4-1), 5 August (3-1), 6 August, ♂, 7 August, ♂♂, 8 August, ♂, 12 August, ♂, 13 August, ♂, 24 September ♀; Orono, 30 May, ♂, 5 June; Lincoln, 5 May, ♂, 4 June, ♂, 20 July ♀, 4 September, ♂.

Genus HARRISMEMNA Grote 1873

- 1223 **trisinata** Walker 33 localities, 12 June - 5 August, 51 ♂; 26 June - 17 July, 8 ♀.

Genus EUXOA Hubner 1822

- 1272 **detersa** Walker Kittery Pt., ♀, 21 August, ♂, 2 September, ♂♀, 1 September, ♂♀, 18 September, ♂♀, 23 September, ♀; York Beach; Poquam Beach, 15 September, ♀; Norway, 1865 (4 specimens), 23 July, ♂; Augusta, 19 September, ♀; Fayette, 14 September, ♂; Farmington, 12 September, ♀; Unity, 4 specimens, 31 August - 10 September; Bar Harbor, 22 September; Lincoln, 4 September, ♂. Millinocket, 8 September (2-1), 9 September, ♂.
- 1272.1 **personata** Morrison Hog Island (Bristol), 27 August, ♀; Lincoln, 2 August, ♀.
- 1292 **perpolita** Morrison Vassalboro, 26 August, ♂, 28 August, ♂, 2 September, ♂, 9 September (4-), 10 September, ♂; Kingfield, 18 August, ♂; Brownville, 3 September, ♂; Orono; Old Town, 2 specimens (Fis coll.); Lincoln, 31 July, ♂, 28 August, ♀; Millinocket, 17 July, ♀; Bar Harbor, 1 September, ♂; Southwest Harbor.
- 1296 **velleripennis** Grote Kittery Pt.: Naples, 29 August, ♂; Augusta, September (4-), 5 September, ♂, 8 September, ♂; Farmington, 31 August, ♂♀, 1 September, ♂, 12 September, ♂, 15 September, ♂, 2 September, ♂; Bar Harbor, 23 August.
- 1297 **scandens** Riley White Cutworm 21 localities, 17 June - 3 August - 243 ♂; 1 July - 4 August, 52 ♀. Usually found in sandy areas.
- 1309 **mimallonis** Grote 16 localities, 22 July - 30 August, 10 ♂; 6 August - 20 September, 8 ♀.
- 1310 **messoria** Harris Darksided Cutworm 15 localities, 27 July - 7 October, 47 ♂; 11 July - 5 September, 17 ♀.
- 1315 **scholastica** McDunnough Augusta, 14 July, ♂, Camden, 4 August, ♂; Lincolnville, 15 August, ♂♂; Mt. Desert Is., 17 August; East Machias, 1 August, ♂.
- 1321 **fumalis** Grote Kittery Pt., 1 August, ♂, 1 September, ♂, 10 September, ♀; Oquossoc, 5 August, ♂♀; Augusta, 8 September, ♂, 13 September, ♂♂; Vassalboro, 9 October, ♀; Orono; Lincoln, 9 August, ♂, 25 August, ♂, 28 August, ♀; Mt. Desert Is., 29 August, ♂; Northeast Harbor. This species has often been misdetermined.

- 1322 **ontario** Smith 25 localities, 1 July - 30 August, 415 ♂; 11 July - 31 August, 88 ♀. It is much commoner in northern Maine, but has reached the coast at Bar Harbor and eastward.
- 1328 **bostoniensis** Grote Kittery Pt., ♂.
- 1329 **quebecensis** Smith 18 localities, 28 June - 3 August, 43 ♂; 1 July - 7 August, 27 ♀. A rare northern species with specimens at Oquossoc and Greenville.
- 1341 **tessellata** Harris, Striped Cutworm 28 localities, 4 July - 27 September, 108 ♂; 29 June - 7 August, 51 ♀.
- 1346 **pleuritica** Grote Kittery Pt.
- 1351 **declarata** Walker 18 localities, 4 July - 15 September, 103 ♂; 13 July - 31 July, 55 ♀.
- 1354 **albipennis** Grote Kittery Pt., 7 September, ♀, 19 September, ♀; Farmington, 25 July, ♀, 13 August, ♂, 31 August (3-), 3 September, 5 September, ♂, 9 September (3-), 11 September, ♂, 13 September (2-1), 14 September, ♂♂, 15 September, ♀, 17 September, ♀, 20 September (1-3), 23 September, ♂, 25 September, ♀♀, 26 September, ♂, 28 September (3-3), 30 September, ♂♀; Vassalboro, 24 September, ♀, Hope, 16 July, ♂, 20 July, ♂, 22 July, ♀, 25 July, ♀, 28 July, ♀, Orono, 19 September, ♀, Lincoln, 9 July, ♂, 6 September, ♀, 15 September, ♀, 17 September, ♂, 20 September, ♂, 28 September, ♀, T15R9, (De Boulie Mt.), 18 July, ♂.
- 1362 **dissona** Moeschler T3R9, Mt. Katahdin, 8 July, ♂, 9 July, ♀, many, 4600 ft., 16 July, ♀, 17 July, ♀, 4800 ft., 17 July, ♂ newly emerged; T6R7, (Camp Colby), 17 July, ♂
form **opipara** Morrison Found with *dissona* in about equal numbers.
- 1366 **divergens** Walker 42 localities, 24 June - 12 August, 348 ♂; 3 July - 21 August, 147 ♀.
- 1366.1 **sinelinea** Hardwick Oquossoc, 9 July, ♀, (Det. by Dr. D. W. Hardwick).
- 1370 **obeliscoides** Guenée Kittery Pt.; Farmington, 9 August, ♂♂, 14 August, ♂, 21 August, ♀, 23 August, ♀, 29 August, ♀, 1 September, ♂♂, 14 September, ♂; Augusta, 2 August, ♂, 3 August, ♂, 10 August, ♀, 12 August, ♂, 19 August, ♀, 21 August, ♀, 23 August, ♂; Vassalboro, 2 September, ♀, 3 September, ♂; Orono, 12 August to 11 September; Lincoln, 10 August, ♀; Millinocket, 8 August (4-), 9 August (3-), 16 August, ♀, 17 August, (3-), 18 August, ♂, 8 September (4-), 9 September, ♀.
- 1371 **redimicula** Morrison 27 localities, 1 July - 13 August, 41 ♂; 11 June - 14 September, 13 ♀. Confused with *servita* and probably part of these records should be with it.
- 1371.1 **servita** Smith 17 localities, 13 July - 5 August, 43 ♂; 11 July - 4 August, 17 ♀.
- 1378 **ochrogaster** Guenée, Redbacked Cutworm 25 localities, 12 July - 20 September, 94 ♂; 8 July - 31 August, 86 ♀.
- 1382 **tristicula** Morrison Edmunds, 2 July, ♀; Orono, type locality. (Philadelphia Academy).

Genus **EUCOPTOCNEMIS** Grote 1874

- *1410 **fimbriaris** Guenée Taken at Hampton, New Hampshire 9 to 13 September.

Genus AGROTIS Ochsenheimer 1816

- 1416 *vetusta* Walker Kittery Pt., 25 August; Higgins Beach, 30 August, ♂ Brunswick, 29 August, 30 August, 1 September; Naples, 22 August, ♂ 29 August, ♂♂, 31 August, ♂, 1 September, ♂; Farmington, 1 September ♂, 3 September, ♀♀, 20 September, ♂; Camden, 5 September; Oquossoc 13 July, ♂, 7 August, ♂, 22 August, ♂; Bar Harbor, September; Millinocket, 24 August, ♂.
- 1419 *mollis* Walker 33 localities, 24 June - 8 August, 498 ♂; 29 June - 21 July, 22 ♀. Most common northward.
- 1422 *gladiaria* Morrison Kittery Pt., 5 September, ♂, 18 September, ♂ Naples, 31 August, ♂; Farmington, 5 September, ♂, 13 September, ♂ Augusta, 4 September, ♀, 10 September (4-), 13 September (2-2) Vassalboro, 15 September, ♀, 3 October, ♂; Unity, 3 September, ♂ Orono, 22 August, ♂, 28 August, ♂, 2 September, ♀, 25 September, ♀ Greenville, 4 July, ♀; T18R12, (Rocky Mt.), 10 July, ♂.
- 1425 *venerabilis* Walker 14 localities, 22 August - 30 October, 233 ♂; 20 July - 3 October, 10 ♀.
- 1432 *volubilis* Harvey 28 localities, 16 May - 7 September, 183 ♂; 29 May - 4 September, 25 ♀.
- 1435 *ypsilon* Rottenberg, Black Cutworm 58 localities, 20 May - 26 September, 157 ♂; 4 June - 28 December, 198 ♀. Several overlapping broods.
- 1439 *manifesta* Morrison Mt. Vernon, 2 June, ♂.

Genus FELTIA Walker 1856

- 1442 *ducens* Walker 16 localities, 21 July - 5 October, 237 ♂; 28 July - 26 September, 16 ♀.
- 1445 *subgothica* Haworth (*jaculifera* Guenée), Dingy Cutworm 30 localities, 13 July - 4 October, 278 ♂; 17 August - 14 September, 16 ♀.
- 1446 *herilis* Grote 45 localities, 19 June - 17 November, 1500 ♂; 12 July - 3 October, 89 ♀.
- 1450 *annexa* Treitschke, (*subterranea* Fabricius), Granulate Cutworm Kittery Pt.; Augusta, 6 September, ♂, 7 September (2-1); Orono, (Fernald); Bar Harbor, 28 October.
- 1451 *geniculata* Grote & Robinson 18 localities, 11 July - 4 November, 25 ♂; 12 August - 11 September, 13 ♀.

Genus ACTEBIA Stephens 1829

- 1452 *fennica* Tauscher, Black Army Worm 25 localities, 22 July - 28 September, 24 ♂; 10 July - 1 September, 14 ♀. Maine Bulletin 340 "Part of York, Cumberland, Penobscot, Hancock, and Washington counties heavily infested in the 1923 outbreak."

Genus SPAELOTIS Boisduval 1840

- 1472 *clandestina* Harris, W-marked Cutworm 24 localities, 19 June - 8 October, 60 ♂; 11 June - 6 October, 63 ♀. Overlapping broods?

Genus EUROIS Hubner 1822

- 1475 *occulta* Linnaeus 48 localities, 20 June - 20 September, 96 ♂; 7 July - 13 September, 101 ♀.

- 1476 *astrieta* Morrison 56 localities, 5 July - 28 August, 3067 ♂, 13 July
22 August, 135 ♀.

Genus OCHROPLEURA Hubner 1822

- 1480 *plecta* Linnaeus 39 localities, 25 May - August, 850 ♂, 30 May - 6
August, 260 ♀

Genus ANICLA Grote 1874

- 1481 *infecta* Ochsenheimer Augusta, 15 August, ♂ at light; T2R4, (Pittston
Farm), 15 July, ♂.

Genus EUAGROTIS McDunnough 1928

- 1482.1 *forbesi* Franclemont 27 localities, 28 June - 27 September, 142 ♂, 29
June - 23 August, 22 ♀.
1483 *illapsa* Walker 11 localities, 4 June - 31 August, 60 ♂; 4 June - 4
September, 18 ♀.

Genus METALEPSIS Grote 1875

- 1493 *fishii* Grote Kittery Pt., 27 April, ♂♂, May, ♀; Augusta, 20 May, ♂;
Farmington, 27 April, ♂, 5 May, ♂, 9 May, ♂, 10 May, ♀, 15 May,
♂, 17 May, ♂, 18 May, ♀, 20 May, ♂, 28 May, ♂♂, Old Town, type
locality? (Fish); Lincoln: Mt. Desert, 27 April; Bar Harbor, May ♂.
1494 *salicarum* Walker Kittery Pt.; Farmington, 26 April (3-), 27 April,
28 April, ♂, 30 April (3-), 1 May, ♂, 3 May, 4 May, ♂, 5 May,
♂♂, 6 May, ♂♂, 8 May, ♂♂, 9 May, ♀, 10 May, ♂♂, 11 May, ♂; Vas-
salboro, 3, 5, 7, 17 April 1973, eight ♂♂, 25 April (3-), 27 April,
(3-1), 29 April, ♂, 30 April, ♀, 1 May, ♂♂, 2 May (3-), 5 May, (5-),
6 May, (7-2), 16 May, ♂, 18 May, ♂♂, 19 May, ♂, 2 June, ♂, Bar
Harbor, 26 April, 28 April, ♂, 29 April, ♂, 10 May, ♂♂, Old Town
(Fish coll.); Orono 2 - 23 May (8); Enfield; Lincoln: Mattawamkeag,
25 May, ♀; Jonesboro, 25 April (3-).

Genus CERASTIS Ochsenheimer 1816

- 1495 *tenebrifera* Walker Farmington, 26 April, ♂, 1 May, ♂♂, 4 May,
♂, 5 May, ♂♂, 7 May, ♂, 9 May, ♂, 10 May, ♂, 14 May, ♂, 15
May, ♀, 16 May, ♂, 17 May, ♂♂, 18 May, ♀, 20 May, ♂, 21 May,
♂; Mt. Vernon, 18 May, ♂; Augusta, 30 April, ♂, 13 May, ♂; Vassal-
boro, 27 April, ♂, 30 April, ♂, 5 May, ♂, 11 May, ♂, 13 May, ♂, 19
May, ♂

Genus PERIDROMA Hubner 1822

- 1496 *margaritosa* Haworth 44 localities, 11 May - 27 November, 85 ♂, 5
July - 20 November, 84 ♀.
form *saucia* Hübner, Variegated Cutworm Bar Harbor, 20 September,
♂.

Genus HEMIPACHNOBIA McDunnough 1928

- 1497 *monochromatea* Morrison 16 localities, 20 June - 17 July, 35 ♂; 6
June - 21 July, 9 ♀.

Genus PARADIARSIA McDunnough 1928

- 1498 *littoralis* Packard 56 localities, 8 June 30 August, 3376 ♂; 3 July 25 July, 97 ♀. Northern and eastern in distribution.

Genus PSEUDOSPAELOTIS McDunnough 1928

- 1499 *haruspica* Grote 59 localities, 6 July - 24 August, 635 ♂; 8 July - 10 August, 125 ♀.

Genus CHERSOTIS Boisduval 1840

- 1501 *juncta* Grote 25 localities, 4 July 12 August, 222 ♂; 21 July 3 August, 17 ♀.

Genus HEPTAGROTIS McDunnough 1928

- 1502 *phyllophora* Grote 47 localities, 27 June - 18 August, 609 ♂; 8 July - 5 August, 45 ♀.

Genus DIARSIA Hubner 1822

- 1505 *rubifera* Grote (*cynica* Smith) 44 localities, 3 July - 24 August, 1084 ♂; 18 June - 15 September, 135 ♀.
- 1507 *perconflua* Grote (*jucunda* Walker) 40 localities, 18 May 13 August, 1180 ♂; 16 May - 10 August, 497 ♀.
- 1510.1 *pseudorosaria freemani* Hardwick 36 localities, 30 June 7 August, 294 ♂; 2 July - 7 August, 54 ♀.

**Genus GRAPHIPHORA Ochseneimer 1816 (AMATHES Hampson)
(NEAVE Hubner [1821])**

- 1511 *c-nigrum* Linnaeus, Spotted Cutworm 49 localities, 14 June 12 November, 1011 ♂; 18 June - 17 November, 373 ♀.
- 1512 *smithi* Snellen 37 localities, 12 July - 13 September, 309 ♂; 20 July 31 August, 75 ♀.
- 1513 *normaniana* Grote 47 localities, 6 July 8 September, 416 ♂; 29 July - 8 September, 56 ♀.
- 1517 *oblata* Morrison 32 localities, 1 July 4 August, 217 ♂; 8 July 4 August, 73 ♀.
- *1520 *badinodis* Grote "Maine" (Packard). Of this widespread and common species, the S. A. Shaw collection has five specimens from August 9 to October 20 from Hampton, New Hampshire near the Maine border. It should be expected along the southern part of the western border.
- 1522 *collaris* Grote & Robinson 22 localities, 25 July 10 October, 100 ♂; 2 August - 23 September, 10 ♀.
- 1523 *bicarnea* Guenée 38 localities, 4 June - 2 November, 454 ♂; 10 July - 30 October, 120 ♀.
- 1525 *tenuicula* Morrison 41 localities, 5 July - 29 August, 808 ♂; 5 July - 1 September, 209 ♀.
- 1527 *opacifrons* Grote 19 localities, 20 July 14 September, 31 ♂; 10 August - 4 September, 4 ♀.

Genus ANOMOXYNA Staudinger 1871

- 1550 *atrata* Morrison Oquossoc, 29 June, ♂; T15R9, (DeBoulie Mt.), 15 July, ♂.
- 1552 *speciosa* Hübner Oquossoc, 22 July, ♂, 7 August (3-); Tim Pond, 26 July, ♂, 30 July, ♂; Dennistown, 2 August, ♀, 12 August, ♀; T15R9, (De Boulie Mt.), 25 July, ♂♂, 27 July, ♂, 31 July, ♂♂; T18R12, (Rocky Mt.), 25 July, ♀, 5 August, ♂; Guerette, 22 July, ♂; T8R19, Somerset Co., 2 August, ♂; T9R5, (Oxbow), 5 August, ♂.
- 1555 *perquiritata* Morrison 21 localities, 4 July - 25 August, 275 ♂; 13 July - 7 August, 11 ♀. Reared from spruce.
- 1557 *homogena conditoides* Benjamin Saddleback Mt. 3500 feet, 31 July, ♂; Mt. Bigelow, 2 August, ♂; T15R9, (DeBoulie Mt.), 17 July, ♂, 19 July, ♀, 25 July, ♂; T18R12, (Rocky Mt.), 4 August, ♀.
- 1558 *imperita* Hübner Oquossoc, 29 July, ♂, 13 August, ♀, 18 August, ♀; Saddleback Mt., 31 July, ♂; Mt. Katahdin (4600 - 5267 feet), 24 July, ♂; T8R19, Somerset Co., 8 July, ♂, 15 August, ♂; T15R9, (De Boulie Mt.), 15 July, ♂, 18 July, ♂; Allagash, 15 July, ♂; T18R12, (Rocky Mt.), 1 August, ♂, 2 August, ♂; Topsfield, 6 August, ♀; Guerette, 3 August, ♂.
- imperita arufa* Smith Mt. Katahdin, 8 July, ♂.
- 1561 *elimata* Guenée 40 localities, 27 June - 8 September, 413 ♂; 12 July - 27 August, 83 ♀.
- race grisatra* Smith E. Vassalboro, 11 November, ♀; Tim Pond, 23 July, ♂; Greenville, 15 August, ♂, 24 August, ♂♀; Mt. Desert Is., 7 August, ♂; T15R9, (De Boulie Mt.), 29 July, ♀.
- 1561.1 *badicollis* Grote Naples, 22 August, ♂, 24 August, ♂♂, 25 August, ♂, 29 August, ♂♂, 1 September, ♂♂, 2 September (3-1), 6 September (2-2); Augusta, 6 August, ♀; Orono, 22 August, ♂, 23 August, ♂, 25 August, ♂, 4 September, ♀; Lincoln, 25 July, ♂; T5R6, (Mt. Chase), 17 August, ♂; Topsfield, 23 July, ♂; Dennysville, 6 August, ♂; Northeast Harbor (Minot); Bar Harbor, 17 July - 13 September.
- 1562 *dilucida* Morrison Sebago Lake, 26 August, ♂; Oquossoc, 22 July, ♀; Augusta, 10 September, ♂; Vassalboro, 15 September, ♀; Lincoln, 24 July, ♂; Bar Harbor, 23 August, 27 August, ♀, 7 September.
- 1562.1 *youngi* Smith Farmington, 31 August, ♂; Orono, 18 July, ♂, 11 August, ♂, Pittston Farm, 9 July, ♂; Bar Harbor, 23 August, ♂, 9 September.
- 1562.2 *atoma* Smith Bar Harbor, 23 - 26 August. The names *elimata* through *atoma* represent a complex of poorly known species and forms, which are widely variable locally and geographically.

Genus APLECTOIDES Butler 1878

- 1568 *condita* Guenée 32 localities, 3 June - 5 August, 226 ♂; 19 June - 5 August, 116 ♀.

Genus ANAPLECTOIDES McDunnough 1928

- 1569 *pressus* Grote 48 localities, 2 July - 10 August, 457 ♂; 6 July - 8 August, 370 ♀.
- 1570 *prasina* Schiffermuller 42 localities, 5 July - 17 August, 901 ♂; 7 July - 2 September, 312 ♀.

Genus PROTOLAMPRA McDunnough 1928

- 1571 *rufipectus* Morrison 26 localities, 19 July - 8 September, 66 ♂; 18 July - 8 September, 29 ♀.
- 1572 *brunneicollis* Grote Kittery Pt., 27 June, ♂, 8 July, ♂♂, 10 July, ♂, 18 July, ♀; Mt. Vernon, 8 July, ♀, 16 July, ♂; Monmouth (Frost); Augusta, 27 July, ♀; Vassalboro, 13 August, ♂; Farmington, 14 August, 24 August, ♀; Kingfield, 19 August, ♂; Salisbury Cove (Frost); Bar Harbor, 14 July, ♀; T17R11, (Duckey), 26 July, ♂; Guerette, 7 August, ♂.

Genus CRYPTOALIA Benjamin 1921

- 1575 *acadiensis* Bethune 50 localities, 4 July - 29 August, 1317 ♂; 11 July - 11 August, 239 ♀.

Genus EUERETAGROTIS Smith 1890

- 1576 *sigmoides* Guenée 15 localities, 4 July - 31 July, 60 ♂; 11 July - 1 August, 19 ♀. Becomes quite rare northward.
- 1577 *perattenta* Grote 41 localities, 23 June - 8 August, 911 ♂; 1 July - 7 August, 235 ♀.
- 1578 *attenta* Grote 46 localities, 25 June - 18 August, 485 ♂; 1 July - 18 August, 100 ♀.

Genus ABAGROTIS Smith 1890

- 1593 *placida* Grote Chesuncook Dam (Kokadjo), 25 July, ♀; Rangeley, 5 September, ♀; Hope, 28 August, ♂; Bar Harbor, 20 August; T8R19, (Clayton Lake), ♂, 5 August, ♀; St. Francis, 24 July, ♀; Guerette, 27 July, ♂.
- 1601 *alternata* Grote Rangeley, 7 September, ♂♀; Farmington, 20 July, ♀, 2 August, ♀, 8 August, ♀, 21 August, 3 September, ♂, 5 September (3-11), 6 September, ♂♀, 7 September, ♀, 9 September, ♀, 20 September, ♂♀, 21 September, ♂, 26 September, ♀, 1 October, ♀, 20 October, ♂; Monmouth, 1 August, ♂, 24 August, ♀; Augusta, 19 September; Hope, 13 August, ♀; Orono, 5 August, ♀; Lincoln, 26 July, ♂; Bar Harbor, 6 September.

Genus RHYNCHAGROTIS Smith 1890

- 1602 *cupida* Grote 11 localities, 12 July - 3 September, 11 ♂; 11 July - 3 September, 14 ♀.
- form *brunneipennis* Grote Farmington, 3 September; Bar Harbor, 7 August - 20 August. Specimens determined as this are present. Perhaps a distinct species.
- 1604 *anchoelioides* Guenée Farmington, 18 August, ♂, 20 August, ♂; Orono; Millinocket, 16 August, ♂; Princeton, 20 July, ♀; Bar Harbor, 16 September, ♀; Southwest Harbor, 8 September (Johnson).

Genus UFEUS Grote 1873

- 1611 *satyrius* Grote Farmington, 18 October, ♂; Augusta, 7 October, ♂; Vassalboro, 7 October, ♂; Unity, 14 October, ♂; East Orland, 23 July, ♂; Bar Harbor, 13 October, ♂; Somesville, 28 September; Franklin, 3 November, ♂; Jonesport, 31 October, ♂.

Genus SCOTOGRAMMA Smith 1887

- 1633 *trifolii* Rottenberg, Clover Cutworm Augusta, 23 May, ♂, 14 July, ♂, 14 August, ♂, 18 August, ♀, 20 August, ♂, 21 August, ♂, 23 August, ♂, 30 August, ♂; Vassalboro, 6 June, ♀, 7 June, ♂, 10 June, ♂, 14 June, ♂, 18 June, ♀, 19 June, ♂, 2 July, ♂♂, 2 August, ♂, 18 August, ♂♂, 2 September, ♂, 7 September, 8 September, ♂; Farmington, 25 May, ♂, 28 June, ♂; Eustis, 6 July, ♂; Enfield, 4 August, ♂; Lincoln, 17 July, ♂, 29 July (3-), 5 August, ♀♀, 16 August, ♂♂; Millinocket, 15 July, ♂, 23 July, ♂, 25 July, ♂, 28 July, ♀, 29 July, ♂, 1 August, ♂♂, 3 August, ♂, 4 August, ♀; Presque Isle, 16 August, ♂, 19 August, ♂; Dennysville, 21 July, ♂.
- variety *albifusa* Walker Vassalboro, 29 May, ♂, 2 July, ♂; Lincoln, 20 July, ♂♀, 5 August, ♀♀, Bar Harbor, 16 August.

Genus MAMESTRA Ochsenheimer 1816 (BARATHRA Hübner 1816)

- 1661 *curialis* Smith Kittery Pt., 22 June, Type; Greenville, 7 July, ♀; Lincoln, (Clayton), Millinocket, 26 June, ♂, 28 June, ♀, 29 June, ♂♀, 11 July, ♀, 12 July, ♀, 15 July, ♀, 17 July (3-3), 18 July (4-1), 23 July, ♀, 25 July, ♀, 31 July, ♀; St. Francis, 15 July, ♀; T17R11, (Dickey), 6 July, ♂, 20 July, ♀; Ft. Kent, 6 July, ♀; Frenchville (Gypsy Moth Lab.)

Genus POLIA Ochsenheimer 1816

- 1663 *nimbosa* Guenée 40 localities, 3 July - 14 August, 726 ♂; 6 July - 6 August, 204 ♀.
- 1665 *rogenhoferi* Moeschler Eustis, 12 July, ♂, 13 July, ♂; T9R5 (Oxbow), 7 July, ♂, 14 July, ♂, 21 July, ♂; T18R12, (Rocky Mt.), 14 July, ♂; Kingfield, 7 July, ♂; T17R11, (Dickey), 22 July, ♂; Allagash, 10 July, ♂.
- 1667 *imbrifera* Guenée 42 localities, 19 June - 7 September, 1709 ♂; 18 June - 5 August, 246 ♀.
- 1669 *purpuris-ata* Grote 54 localities, 26 June - 14 September, 1379 ♂; 17 July - 8 September, 111 ♀.
- *1671 *distincta* Hübner Taken in nearby Hampton, New Hampshire, 16 May, 1913, ♂.
- 1672 *grandis* Boisduval 46 localities, 24 May - 29 July, 290 ♂, 23 June - 28 July, 83 ♀.
- 1673 *subjuncta* Grote & Robinson 21 localities, 19 June - 28 July 23, ♂, 23 June - 9 October, 15 ♀.
- 1675 *latex* Guenée 33 localities, 19 May - 12 August, 115 ♂; 28 May - 27 July, 67 ♀.
- 1677 *atlantica* Grote 55 localities, 17 May - 9 September, 449 ♂; 25 May - 9 September, 116 ♀.
- 1678 *nevadæ canadensis* Smith 40 localities, 24 May - 4 August, 67 ♂; 12 June - 5 August, 120 ♀.
- 1679 *radix* Walker 49 localities, 6 June - 4 August, 161 ♂; 18 June - 10 August, 181 ♀.
- 1683 *legitima* Grote, Striped Garden Caterpillar 32 localities, 18 June - 6 August, 359 ♂; 21 June - 4 August, 276 ♀.
- 1684 *tacoma* Strecker 26 localities, 17 May - 10 August, 114 ♂; 23 May - 29 July, 11 ♀.

- 1685 *rugosa* Morrison 29 localities, 30 May - 30 July, 66 ♂; 9 June - 22 July, 13 ♀.
- 1687 *lilacina* Harvey 45 localities, 11 June - 5 August, 770 ♂; 13 June - 5 August, 161 ♀.
form *illabefacta* Morrison 5 localities, 19 June - 5 August, 248 ♂; 16 June - 30 July, 25 ♀.
- 1691 *adjuncta* Boisduval 45 localities, 19 May - 5 August, 233 ♂, 16 June - 14 August, 44 ♀; reported from Farmington? 19 April (1), 28 April (2), 30 April (2), 1 May (4).
- 1693 *assimilis* Morrison 48 localities, 19 June - 10 August, 1561 ♂; 18 June - 19 August, 193 ♀.
- 1694 *pulverulenta* Smith 45 localities, 5 June - 10 August, 126 ♂; 30 June - 28 July, 83 ♀.
- 1696 *ingravis* Smith T9R5 (Oxbow), 20 July, ♀.
- 1696.1 *frustrata* McDunnough T17R4 (Sinclair), 8 July, ♂; T18R12, (Rocky Mt.), 14 July, ♂; Lubec, emerged September ♀, reared from larch; Dennysville, 9 June, ♂.
- 1697 *eristifera* Walker Oquossoc, 14 July, ♀; Tim Pond, 11 July, ♀, 21 July, ♀♀; Eustis, 18 July, ♀; Dennistown, 9 July, ♂; T9R5 (Oxbow), July, ♀♀, 12 July, ♀, 13 July, ♀, 15 July, ♀; St. Francis, 14 July, ♀; Allagash, 10 July, ♀.
- 1699 *lutra* Guenée (*lubens* Grote) 47 localities, 4 June - 6 August, 545 ♂; 27 May - 6 August, 251 ♀.
- 1707 *secedens* Walker T15R9, (DeBoulie Mt.), 3 July, ♂.
- 1709 *detracta* Walker 45 localities, 23 June - 3 August, 1095 ♂; 25 June - 29 July, 193 ♀.
- 1710 *goodelli* Grote 39 localities, 11 June - 10 August, 220 ♂; 27 June - 4 August, 177 ♀.
race *acutermis* Smith Passadumkeag, 24 May, ♂ (det. D. Hardwick)
- 1711 *obscura* Smith Passadumkeag, 29 May, ♂; Chesuncook Dam, 14 July, ♀; St. Francis, 6 July, ♂.

Genus LACINIPOLIA McDunnough 1937

- 1712 *meditata* Grote 26 localities, 18 June - 31 August, 135 ♂; 28 June - 15 August, 14 ♀.
- 1714 *lustralis* Grote 45 localities, 23 June - 6 August, 845 ♂; 23 June - 27 July, 139 ♀.
- 1716 *anguina* Grote 32 localities, 1 May - 12 August, 103 ♂; 26 May - 16 July, 24 ♀.
- 1735 *vicina* Grote Reported from Eddy collection and Forbes as "in Maine"
- 1738 *renigera* Stephens, Bristly Cutworm 40 localities, 23 June - 10 September, 1343 ♂; 1 July - 26 August, 47 ♀.
- 1744 *lorea* Guenée 45 localities, 22 July - 31 July, 1133 ♂; 6 June - 1 August, 108 ♀.
- 1745 *olivacea* Morrison 55 localities, 22 June - 4 September, 1633 ♂; 8 July - 31 August, 291 ♀.
- 1750.1 *implicata* McDunnough Orono, 13 August (abdomenless); Machiasport, 5 November, ♀.

Genus LASIONYCTA Aurivillius 1892

- 1759= new species Oquossoc.
 1763 *subdita* Moeschler Mt. Katahdin, 8-9 July, many.
 1764 *membrosa* Morrison Mt. Katahdin, 4500 feet, 10 July, 1950, ♀; Ashland, 5 July, ♂; T11R17, (Lac Frontiere), 6 July, ♂; T18R12, (Rocky Mt.), 5 July, ♂♀. The identity of this species is uncertain, though it is well marked.

Genus ANARTA Ochseneimer 1816

- 1789 *cordigera* Thunberg Augusta (Sidney Bog), 5 June one or two seen flying about Rhodora; Vassalboro Bog, 8 July, one to three flushed on upper part of bog; Passadumkeag Bog, two July; Lincoln, 31 May, ♀; Chester, 1 June (2-1); Grafton, 30 May, Wilsons Mills, 31 May, ♀.

Genus SIDERIDIS Hubner 1816

- 1800 *rosca* Harvey 24 localities, 17 April - 9 August, 121 ♂; 2 June - 18 July, 21 ♀.
 1801 *congernana* Morrison 14 localities, 7 June - 26 July, 20 ♂; 2 July - 21 July, 7 ♀.
 1802 *maryx* Guenée (*rubefacta* Morrison) 25 localities, 10 June - 25 July, 18 ♂; 27 June - 31 July, 27 ♀.

Genus ANEPIA Hampson 1918

- *1804 *capsularis* Guenée Hampton, New Hampshire, 18 June, ♂.

Genus TRICHOLITA Grote 1875

- 1821 *signata* Walker 48 localities, 2 July - 4 September, 579 ♂; 3 July - 3 September, 122 ♀.
 form *igna* Barnes & Benjamin 16 localities, 21 July - 17 August, 46 ♂; 31 July - 6 August, 6 ♀.

Genus ULOLONCHE Smith 1887

- 1830 *modesta* Morrison Farmington, 23 May, ♀, 7 June, ♂; Augusta, 22 May, ♂; Mt. Vernon, 11 June, ♂♂; Princeton, 10 June, ♂; Bar Harbor, 13 June, ♀; Orono, 26 August, ♂.
 1831 *eulea* Guenée Mt. Vernon, 10 June, ♂♂; Vassalboro, 14 June, ♀.

Genus HIMELLA Grote 1874

- 1840 *intractata* Morrison Augusta, 26 May, ♂.

Genus ORTHODES Guenée 1852

- 1855 *oviduca* Guenée 41 localities, 11 May - 5 August, 381 ♂; 25 May - 5 August, 50 ♀.
 1871 *crenulata* Butler 47 localities, 9 June - 11 August, 530 ♂; 4 July - 5 August, 61 ♀.
 1872 *cynica* Guenée 32 localities, 19 April - 10 August, 2047 ♂; 4 June - 10 August, 253 ♀.
 1876 *vecors* Guenée 51 localities, 28 May - 6 August, 311 ♂; 28 June - 7 August, 149 ♀.

- 1886 *contrahens* Walker Kittery Pt.; Orono (Fernald); Chesuncook Dam (Kokadjo), 12 July, ♂, 13 July, ♂, 26 July (3-), 31 July, ♀; Mt. Desert Is., 7 August.
- 1890 *furfurata* Grote 47 localities, 23 June 18 August, 2190 ♂; 1 July - 7 August, 795 ♀.

Genus *NEPHELODES* Guenee 1852

- 1895 *emmedonia* Cramer (*minians* Guenee), Bronzed Cutworm 28 localities, 23 July - 5 October, 1017 ♂; 30 July - 24 September, 54 ♀.

Genus *MORRISONIA* Grote 1874

- 1901 *mucens* Hübner Rangeley, 28 May, ♀.
form *sectilis* Guenee Ogunquit, 17 September; Mt. Vernon, 2 May, ♂.
- 1903 *evicta* Grote Farmington, 23 April, ♂♂, 30 April, ♂, 1 May, ♂, 4 May, ♂♂, 5 May (3-), 7 May (3-), 8 May, ♂, 14 May, ♂, 16 May, ♂, 17 May (6-1), 18 May, ♂, 19 May (7-), 20 May (5-), 21 May (3-), 23 May (3-), 25 May, ♀, 26 May, ♂♀, 27 May, ♀♀, 29 May (5-2), 30 May, ♂♀; Mt. Vernon, 28 April, ♂, 30 April, ♂, 29 May, ♀, 18 May, ♂; Augusta, 10 May, ♂, 19 May, ♀; Vassalboro, 6 May (4-), 8 May, ♂♂, 10 May (6-), 11 May (12-2), 15 May, ♂, 18 May, ♂, 19 May (3-), 25 May (3-1), 26 May, ♂, 27 May (4-), 29 May, ♂, 2 June (3-), 4 June (5-2), 6 June, ♂, 7 June, ♀; Enfield, 16 May, ♂; Bar Harbor, 30 April, ♂, 8 May, 21 May; Dennysville, 8 June, ♂.
- form *vomerina* Grote Farmington, 30 April, ♂♂, 1 May, ♂, 3 May, ♂♂, 4 May (3-2), 5 May (3-), 7 May (5-), 10 May, ♂, 11 May, ♂, 13 May, ♂, 14 May, ♂, 16 May, ♂, 17 May, ♂, 19 May (3-1), 20 May, ♂♂, 21 May, ♂♂, 22 May, ♂♂, 24 May, ♀, 27 May, ♂; Mt. Vernon, 18 May, ♂♂, 4 June, ♀; Augusta, 6 May, ♂♂, 8 May, ♂♂, 11 May (8-2), 17 May, ♂, 20 May, ♀; Vassalboro, 27 April, ♂♂, 5 May, ♂, 11 May (3-1), 13 May, ♂♂, 19 May, ♂, 14 June, ♀; Greenville, 13 July, ♂; Bar Harbor, 29 April, ♂, 1 May, ♀, 18 May.
- 1904 *confusa* Hübner Norway, ♂; Farmington, 14 May, ♂, 17 May, ♀, 18 May, ♂♀, 20 May, ♂, 22 May, ♂, 28 May (2-1), 30 May, ♂, 31 May, ♂♂, 2 June, ♂; Mt. Vernon, 4 June, ♀, 9 June, ♂♂; Augusta, 13 May, ♂, 20 May, ♂♂; Vassalboro, 13 May, ♂♂, 14 May, ♂, 17 May, ♂, 19 May, ♂, 20 May, ♂, 21 May, ♂, 25 May, ♂, 29 May, ♂, 30 May, ♂, 2 June, ♀, 7 June, ♀, 18 June, ♂♀.

Genus *XYLOMIGES* Guenee 1852

- 1914 *dolosa* Grote Farmington, 5 April, ♂, 23 April, ♂, 24 April, ♂, 28 April, ♂, 29 April, 30 April, ♂, 1 May (5-), 2 May (3-1), 3 May (6-), 4 May (7-2), 5 May (7-3), 7 May (5-2), 9 May, ♀♀, 10 May (3-), 13 May, ♂, 14 May, ♀, 15 May, ♂, 16 May, ♂♂, 17 May, ♀♀, 18 May, ♂, 19 May, ♂, 21 May, ♂, 23 May, ♂, 26 May, ♂, 29 May, ♀, 31 May, ♀; Mt. Vernon, 18 May, ♀; Augusta, 18 May, ♀; Vassalboro, 29 April, ♂♂, 1 May (3-), 2 May, ♂♂, 8 May, ♂, 9 May, ♂♀, 15 May (2-1), 16 May, ♂, 18 May (2-1), 26 May, ♂, 27 May, ♀, 29 May, ♀; Orono, 17 May, ♂♂, 23 May, ♂; Enfield; Lincoln: Bar Harbor, 28 April, 4 May, ♀, 29 May; Ft. Kent, 3 June, ♂♂; St. Francis, emerged ♂, emerged April, ♀.
- 1917 *alternans* Walker Farmington, 18 May, ♀, 30 May, ♂♀, 15 June, ♂; Vassalboro, 16 May, ♂.

Genus ORTHOSIA Oechsenheimer 1816

- 1937 *rubescens* Walker Farmington, 25 April, ♂, 29 May, ♂; Mt. Vernon, 4 June, ♀; Augusta, 2 May, 1973, ♂, 20 May, ♂; Vassalboro, 18 May, ♂; Bar Harbor, 5 May; Houlton, emerged ♂; Topsfield, 10 July, ♂; Dennysville, 8 July, ♂.
- *1938 *garmani* Grote Hampton, New Hampshire, 14 April, ♂.
- 1940 *revicta* Morrison (*subterminata* Smith) 13 localities, 19 April 7 June, 305 ♂; 28 April 7 June, 112 ♀.
- 1943 *hibisci* Guenée 11 localities, 8 April 16 June, 496 ♂; 24 April 6 June, 250 ♀.

Genus CROCIGRAPHA Grote 1889

- 1950 *normani* Grote 15 localities, 26 April 5 August, 220 ♂; 27 April 28 July, 210 ♀.

Genus CERAMICA Guenée 1852

- 1951 *picta* Harrison, Zebra Caterpillar 20 localities, 19 May 19 August, 38 ♂; 6 July - 28 July, 3 ♀.

Genus PROTOLEUCANIA McDunnough 1937

- 1962 *albilinea* Hübner (*diffusa* Walker) 45 localities, 22 May 27 November, 337 ♂; 30 May 8 November, 66 ♀.

Genus MELIANA Curtis 1839

- 1966 *extincta* race *flabilis* Grote Kittery Pt., 14 June, ♂, 16 June, ♂.
- 1969 *rimosa* Grote Kittery Pt. Type. Now considered a synonym of *flabilis*.
- 1970 *linita* Guenée 17 localities, 24 June 20 July, 10 ♂; 16 June 25 July, 11 ♀.
- 1971 *amygdalina* Harvey Orono (Fernald) Type. May be a synonym of *linita*.

Genus LEUCANIA Oechsenheimer 1816 (HELIOPHILA Hubner 1806)

- 1973 *pseudargyria* Guenée 18 localities, 6 June 2 August, 284 ♂; 18 June - 8 August, 87 ♀.
- 1975 *inermis* Forbes 22 localities, 7 June 18 August, 81 ♂; 23 June 19 August, 50 ♀. Northward to Rangeley, Farmington and Lincoln.
- 1977 *commoides* Guenée 34 localities, 16 June - 7 September, 1273 ♂; 4 July - 6 August, 572 ♀.
- 1978 *phragmatidicola* Guenée Rangeley; Augusta, 8 September, ♂, 18 September, ♂; Vassalboro, 2 July, ♂; Orono, 18 July - 11 August, 137 ♂, 16 ♀; Bar Harbor, 30 August; Millinocket, 13 July, ♂♂, 14 July, ♂, 15 July, ♂, 23 July, ♂♂, 28 July, ♂♂, 29 July, ♂♂, 30 July, ♀, 2 August, ♂♂, 3 August, ♂, 4 August, ♂♂, 5 August, ♂; Vanceboro, 19 July, ♂.
- 1982 *multilinea* Walker 38 localities, 23 May 20 September, 641 ♂; 21 May - 27 September, 308 ♀.
- 1992 *insueta* Guenée 45 localities, 13 June 9 August, 1981 ♂; 19 June - 5 August, 455 ♀.

- 1994 **unipuncta** Haworth, Armyworm 68 localities, 10 May 26 November, 1703 ♂; 17 May - 26 November, 776 ♀. *Unipuncta* was placed in *PSEUDALETIA* by Franclemont in 1951.
- 1995 **luteopallens** Smith 41 localities, 16 June 11 October, 1143 ♂; 19 June - 13 August, 217 ♀.

Genus CUCULLIA Schrank 1802

- 2034 **speyeri** Lintner Kittery Pt., 15 August, ♂.
- 2038 **intermedia** Speyer 29 localities, 8 May - 18 August, 127 ♂; 30 May - 6 August, 34 ♀.
- 2041 **florea** Guenée 35 localities, 23 June 4 August, 50 ♂; 1 July 6 August, 56 ♀.
- 2042 **postera** Guenée 30 localities, 16 June 7 August, 174 ♂; 4 July - 5 August, 82 ♀.
- 2043 **omissa** Dod 21 localities, 31 May 3 August, 26 ♂; 23 June 7 August, 18 ♀.
- 2044 **asteroides** Guenée 15 localities, 6 June 6 August, 34 ♂; 1 July 1 September, 10 ♀.
- 2046 **convexipennis** Grote & Robinson 28 localities, 20 June 26 August, 71 ♂; 13 July - 13 August, 14 ♀.

Genus LEPIPOLYS Guenee 1852

- 2063 **perscripta** Guenée Kittery Pt., 15 June, ♂; reported from Albion, 25 June, ♂♂, by J. C. Parlin (Maine Naturalist 2:13, 1922); also reported from Presque Isle, 24 August, ♂. Kittery is the only definite record.

Genus ONCOCNEMIS Lederer 1857

- 2093 **saundersiana** Grote Isles of Shoals (Thaxter)
- 2116 **piffardi** Walker (*atrifascia* Morrison) 17 localities, 2 August 25 September, 12 ♂; 11 August 28 September, 15 ♀.
- 2127 **riparia** Morrison Isles of Shoals (Thaxter); "Maine" fide Forbes.
- 2127.1 **manitoba** McDunnough 13 localities, 5 July 10 August, 855 ♂; 5 July - 10 August, 461 ♀.

Genus HOMOHADENA Grote 1873

- 2147 **badistriga** Grote Kittery (2-1); Millinocket, 18 July, ♂, 28 July, ♂; T11R8, (Round Mt.), 4 August, ♂; St. Francis, 1 August, ♀; Guerette, 20 July, ♀.
- 2153 **infixa dinaldi** Smith 18 localities, 19 July - 7 August, 24 ♂; 19 July - 19 August, 15 ♀.

Genus ADITA Grote 1874

- 2155 **chionanthi** Abbot & Smith Rangeley, 14 August, ♂, 3 September, ♀; Kokadjo, 10 August, ♂; Kingfield, 6 August, ♂, 7 August, ♂; Greenville, 8 August, ♂, 10 August, ♂; Farmington, 21 August, ♀, 6 September, ♀, 13 September, ♀; Monmouth, 16 August, ♂; Hope, 17 August, ♂; Old Town, ♂; T9R5 (Oxbow), 1 August, ♂.

Genus APHARETRA Grote 1901

- 2156 **dentata** Grote 18 localities, 13 July - 6 August, 18 ♂; 12 July 12 August, 16 ♀.

- 2156.1 *purpurea* McDunnough 13 localities, 15 July 18 August, 20 ♂; 30 July - 6 August, 9 ♀.

Genus SYMPISTIS Hubner 1816

- 2163 *funesta* Paykull Mt. Bigelow, 7 July 1937 (3-2), top of mountain. (Brower).

Genus FERALIA Grote 1874

- 2183 *jocosa* Guenée Farmington, 19 April, ♂♂, 26 April, ♂, 28 April (3-2), 29 April, ♂♂, 1 May (3-1), 4 May, ♂♂, 5 May, ♀; Mt. Vernon; Vassalboro, 29 April, ♂♂, 30 April, ♂, 5 May, ♂♂, 6 May (1-2), 8 May (1-2), 11 May (2-7), 15 May, ♀, 18 May, ♀, 21 May, ♀, 22 May, ♂; Ashland, ♂ emerged; Orono, 24 April, ♀, 8 May, ♂, 23 May, ♂; Lincoln; Millinocket, emerged from fir; Bar Harbor, 18 May, ♂; Vassalboro, emerged from fir; northern Maine, ♀ emerged.
 form *furtiva* Smith Farmington, 5 May, ♂, 11 May, ♀, 15 May, ♂, 22 May, ♀; Bar Harbor, 8 May; Enfield 20 May, ♀.
 form *jocosides* Strand Eustis, 17 April; Farmington, 11 May, ♀♀, 17 May, ♀, 22 May, ♀; Bar Harbor, 8 May, ♂.
- 2185 *major* Smith Farmington, 19 April, ♂♂, 23 April, ♂, 28 April (6-), 30 April (3-), 1 May (10-), 4 May, ♂♀, 5 May, ♂♂, 9 May, ♂♀, 10 May, ♂, 12 May, ♂, 15 May, ♂♂, 23 May, ♂♂; Vassalboro, 26 April (3-), 29 April (3-), 30 April, ♂, 6 May, ♂♀, 7 May, ♀♀, 12 May, ♂, 15 May, ♂, 18 May, ♂, 23 May, ♂, 25 May, ♂♀; Orono, 3 May (3-), 23 May, ♂♀, 27 May, ♂; Lincoln, May, ♂, ♂ (Clayton); Bar Harbor, 11 May, 20 May, ♀, 22 May, ♂, 24 May, ♀, 29 May.
- 2186 *comstocki* Grote 13 localities, 4 April 16 July, 60 ♂; 4 April - 18 July, 40 ♀.

Genus PSAPHIDIA Walker 1865 (COPIVALERIA Grote 1883)

- 2191 *grotei* Morrison Augusta, 17 April, ♂♂, 25 April, 1973, 3 ♂, 19 May, ♂, 20 May, ♀; Farmington, 28 April (8-1), 30 April (3-), 1 May (2-3), 2 May, ♂, 3 May (3-), 4 May (1-2), 5 May (3-1), 6 May, ♂♂, 7 May (2-2), 8 May, ♀, 10 May (3-), 11 May, ♂, 12 May, ♂, 15 May, ♀; Mt. Vernon, 5 June, ♂; Vassalboro, 25 April, ♂, 26 April, ♀; Enfield.

Genus EUTOLYPE Grote 1874

- 2196 *rolandi* Grote Lincoln fide Grey. Taken at Hampton, New Hampshire, 16 April, 1906, ♂ by Shaw.

Genus BOMBYCIA Stephens 1829

- 2207 *algens* Grote 15 localities, 24 July - 28 September, 16 ♂; 21 August 6 September 11 ♀. A single male 30 May in the Vassalboro blacklight trap.

Genus BRACHYLOMIA Hampson 1906

- 2209 *discinigra* Walker Farmington, 10 August, ♂, 13 August, ♀, 23 August, ♂, 26 August, ♂, 1 September (7-), 4 September, ♂♂, 5 September, ♂, 6 September (4-), 7 September, ♂, 9 September, ♂♀, 13 September

(6-1), 17 September, ♂, 18 September, ♂, 19 September, 20 September, ♂♂, 23 September (3-), 26 September (3-), 28 September (3-), 30 September (4-), 2 October, ♂♂, 8 October, ♂♂; Vassalboro, 21 September, ♂, 26 September, ♂, 28 September, ♀; Augusta, 30 August, ♂, 5 September, ♂; Unity, 20 August, ♂; T8R19, (Clayton Lake), 2 August, ♀, 14 August; Kellyland, 30 August, ♂; Jonesboro, 20 August, ♂, 23 August, ♂.

Genus *HILLIA* Grote 1883

- 2211 *iris* Zetterstedt Farmington, 30 September, ♂; Unity, 9 September, ♂, 12 September, ♂, 18 September, ♂, 20 September, ♂; Jackman, 15 July, ♂; Greenville, 6 July, ♀; Augusta, 26 September, ♂; Bar Harbor, 17 September, ♂; T11R8, (Round Mt.), 27 July, ♀; T13R12, (Round Pond Mt.), 8 July, ♀; Woodland, Aroostook Co., 29 September, ♂.
form *vigilans* Grote Orono, Type locality; Woodland, Aroostook Co., 25 September, ♂.

Genus *LEMMERIA* Barnes & Benjamin 1926

- 2214 *digitalis* Grote Augusta, 26 September, ♀; Vassalboro, 26 September, ♀; Unity, 22 September, ♀, 23 September, ♀; Bar Harbor, September; "Maine" type locality, Bull. Geol. Survey 6: 584, 1882.

Genus *LITHOLOMIA* Grote 1875

- 2215 *napaea* Morrison Rangeley, 7 September, ♂; Farmington, 2 May, ♀, 4 May, ♂, 5 May (3-2), 19 May, ♀; Bucksport, 26 September, ♀; Bar Harbor, 12 April, ♀, 28 April, ♀, 29 April, ♀, 9 October, ♂, 19 October, ♀; Orono, 16 August - 18 September (7-), 11 September, ♀, 9 October, ♀; Enfield, 10 September (3-1); Lincoln, 16 April, ♂, 20 April, ♀, 1 September, ♂; Millinocket, 8 September, ♂; Presque Isle, 24 August, ♀; Waite, 16 September, ♂.

Genus *LITHOMOIA* Hubner 1816

- 2216 *solidaginis* Hübner 14 localities, 1 September - 9 October, 70 ♂; 6 September - 9 October 12 ♀.

Genus *GRAPTOLITHA* Hubner 1827 (*LITHOPHANE* Hubner 1827)

- 2217 *semiusta* Grote Orono, 8 May, ♂ (in light trap).
2220 *bethunei* Grote & Robinson Farmington, 11 April, ♂, 17 April, ♀, 21 April, ♂, 26 April, ♂, 7 May, ♂; Augusta, 26 April, ♂ (at light), 17 September, ♂, 8 October, ♂; Vassalboro, 30 April, ♂, 19 May (2-1), 24 May, ♂, 25 May, ♂♀, 30 May, ♂, 21 September; Bar Harbor, 5 May, ♂♂, 27 August, ♀.
2221 *innominata* Smith Rangeley, 9 September, ♀; Farmington, 19 April, 27 April, ♂, 26 August, ♀; Camden, 5 September; Dover (Gypsy Moth lab.); Canaan (Gypsy Moth lab.); Bangor (Gypsy Moth lab.); Lincoln, 4 October, ♀; Enfield, 1 September, ♂, 4 September, ♀, 25 September, ♀; Bar Harbor, 27 April, ♂, 26 August - 10 October and 5 - 11 May; Princeton, ♀ emerged from fir; Ashland, ♂ emerged from fir; St. Francis, ♂♂ reared; Brownville.
form *illecebra* Franclemont Farmington, 1 May, ♂, 17 May, ♂.

- 2222 *petulea* Grote Rangeley, 14 September, ♂; Farmington, 14 April, ♀, 15 April, ♂♂, 19 July, ♂, 29 September, ♂; Mt. Vernon, 15 May, ♂; Camden, 5 September (1), 6 September (1); Unity, ♂♂; Orono, 20 May, ♂, (Fernald); Enfield, 3 April, ♂♀, 9 April, ♂, 10 April, ♂♀; Lincoln, 4 October, ♂; Bar Harbor, 18 September, ♂, 23 September, ♀, 20 November, ♂; Steuben, 15 November, ♀; Mt. Desert, 29 August - 9 October. Reared from larva webbing white birch leaves.
- 2223 *ferrealis* Grote Rangeley, 14 September, ♀; Farmington, 14 September, 19 September; Unity; Bangor?; Bar Harbor, 9 September ♂, 25 September, ♀, 7 May; Orono (Fernald); Lincoln, 4 October, ♂; Enfield, 24 April, ♂, 10 April, ♂. A variety of *petulca* according to Franclemont.
- 2224 *amanda* Smith Farmington, 1 May, ♂; Augusta, 6 September, ♂; Unity, 14 May, ♀, 15 May, ♂, 25 May, ♂; Orono, 25 April, ♂, 10 May, ♀; Woodland, Aroostook Co., 21 August, ♂. A northern and western species.
- 2225 *disposita* Morrison Kittery Pt.; Orono, 21 April, ♀, 8 May, ♀, 6 September, ♂; Lincoln, 3 September, ♂; Enfield.
- 2226 *hemina* Grote Farmington, 23 April, ♂, 24 April, ♀; Mt. Vernon, 18 March, ♂; Milbridge, 17 November (1-2); Machiasport, 5 November, ♂, 12 November, ♀.
- 2228 *signosa* Walker Steuben, 15 November, ♀. This is a more southern species.
- 2234 *baileyi* Grote Farmington, 10 April, ♀, 19 April, ♀, 3 May, ♀, 5 May, ♂, 14 September, ♂, 26 September, ♂, 18 October, 30 October, ♀♀; Mt. Vernon, 3 May, ♂, 17 May, ♂; Vassalboro, 7 May, ♂; Orono; Enfield, 7 April, ♂, 10 April (1-3), 12 April, ♀, 16 April, ♂, 20 April, ♂♂, 5 May, ♀, 11 May, ♀; Lincoln; Jonesboro, 25 April, ♀.
- 2236 *querquera* Grote Camden (Schweitzer), 5 and 6 September, 1971. ♂♂, look like *querquera*, but male genitalia unlike. Hampton, New Hampshire, 13 April, ♂, 18 April, ♀, 20 April, ♂, 17 October, ♂.
- 2237 *viridipallens* Grote Camden (Schweitzer), September, ♀, marked like *viridipallens*.
- 2241 *tepida* Grote T3R3 (Davis), 17 August, ♂; Farmington, 19 April, 14 September; Augusta, 15 September, ♂; Howland, 16 September, ♀; Lincoln. A part are the dark form *atincta* Smith.
- 2242 *antennata* Walker, Green Fruitworm Monmouth, 12 May, numerous larvae on apple; Bar Harbor, 5 May, ♂.
- 2244 *georgii* Grote Kittery Pt.; Rangeley, 13 September, ♂?; Farmington, 26 September, ♂, 18 October, ♀; Augusta, August, reared from *Comptonia*; Vassalboro, 21 October, ♂; Orono, 11 September, ♀; Enfield, 30 May, ♀; Lincoln, 30 August, ♂; Bar Harbor, 31 August, ♀ from larva on *Acer rubrum*, also reared from *Comptonia*; Mt. Katahdin, 4 October, ♂; East Machias, 2 November, ♂.
- 2245 *laticinerea* Grote Farmington, 15 October; Augusta, 23 October, ♂; Enfield; Lincoln, 18 September, ♀, 6 - 11 September, many bred from red maple.
- 2246 *cinerosa* Grote (*grotei* Riley) 27 localities, 9 April - 23 November, 57 ♂; 8 April - 15 November, 47 ♀.
- 2247 *unimoda* Lintner Kittery Pt.; Farmington, 19 April, 9 May (1-2);

- Augusta, 1, 7, 12, 13, 17, 19 May (4-3); Hampden; Lincoln.
- 2248 *fagina* Morrison 22 localities, 27 March 18 November, 155 ♂; 8 April 17 November, 64 ♀.
- 2252 *pexata* Grote 15 localities, 9 April - 21 November, 45 ♂; 9 April, 15 November, 32 ♀.
- 2255 *lepida* Lintner Pownal, 25 January, ♀; Old Town, Type (Fish); Lincoln, ♂.
- 2258 *thaxteri* Grote Orono (Fernald); Lincoln; Bar Harbor, 24 September, ♂, emerged from *Myrica gale*, 22 May, ♂.

Genus XYLENA Ochsenheimer 1816

- 2259 *nupera* Lintner Rangeley, 23 September, ♂, 25 September, ♂, 29 September, ♂; Farmington, 15 October, ♀; Vassalboro, 25 April (4-), 27 April (1-3), 29 April, ♀, 30 April (2-2), 5 May (1-2), 6 May (4-2), 8 May, ♂, 11 May, ♀, 15 May, ♂♂, 16 May (2-1), 18 May (3-5), 19 May, ♂♂, 20 May, ♀, 21 May, ♂, 23 May, ♂♀, 25 May, ♀♀, 26 May, .. 30 May, ♂, 12 June, ♂; Augusta, 9 April, 1973, ♂, 16 April, ♀, 2 May (4-). 12 May, ♀, 17 May (3-), 10 and 16 September, ♂♂; Harrington, 4 November, ♀, 12 November, ♂; Orono, 5 19 May (6-); Lincoln; Ashland, 5 October, ♀, 15 October, ♀; Presque Isle (1).
- 2260 *curvifacula* Morrison 11 localities, 28 March 3 November, 74 ♂; 11 April 4 November, 35 ♀.
- 2262 *thoracica* Putnam-Cramer Farmington, 25 April, ♂; Woodland, Aroostook Co., August, ♀. The type of the synonym *brillians* Ottolengui was from Maine.
- 2263 *eineritia* Grote Gray; Farmington, 11 April, ♂, 13 April, ♂, 21 April, ♂, 25 April (2-1), 28 April (2-2), 29 April, ♀, 30 April, ♂, 2 May, ♀♀, 3 May (2-1), 4 May, ♂♀, 5 May, ♂♀, 6 May, ♂, 9 May (1-2), 13 May, ♂, 17 May, ♂, 23 October, ♂; Mt. Vernon, 11 May (3-); Vassalboro, 26 April, ♂♂, 5 May, ♂♂, 11 May (3-1), 13 May, ♂♂; Orono, 2 May (2-1); Lincoln; Bar Harbor, 30 April, ♀, 4 May, ♀; Mt. Desert, 7 November, ♂; Surry, 4 November, ♀; New Sweden, October, ♂.

Genus XYLTYPE Hampson 1906

- 2265 *capax* Grote & Robinson Kittery Pt., 10 August, ♂, 8 September, ♂.
- 2266 *acadia* Barnes & Benjamin Brunswick, 16 September, ♀, 23 September, ♂, 4 October, ♀ (all three Copeland coll.); Farmington (2); Bar Harbor, 25 August, ♂, 1 September, ♀, 13 September, ♂, 16 September, ♂, 22 September, ♀; Northeast Harbor, 24 September; Southwest Harbor, 26 August, ♀, 6 September, ♂; Mt. Katahdin, 25 August, ♀.

Genus PLATYPOLIA Grote 1895

- 2268 *anceps* Stevens (*medialis* Grote) Rangeley, 9 September, ♂, 13 September, ♀; Bar Harbor, 3 October, ♂, 10 October, ♀, 22 October, ♀; Mt. Desert, 26 September, ♂♂; Southwest Harbor, 6 September; Machiasport, 5 November, ♂; Cutler, 7 November, ♂, 12 November, ♀.

Genus CRINO (of authors, Hampson 1906) (MNIOTYPE Franclemont 1941)

- 2272 *ducta* Grote 26 localities, 24 June - 27 July, 14 ♂; 22 June - 25 July, 51 ♀.

- 2276 *miniota* Smith (*versuta* of authors) 23 localities, 6 July - 12 July, 8 ♂: 1 July - 9 August, 43 ♀; (Cadillac Mt., Bar Harbor 1 ♂ emerged from pupa, 19 April, 1945).

Genus FISHIA Grote 1877

- 2283 *enthea* Grote Bar Harbor, 23 September, ♂♂, October (6-); Old Town, ♂ Type (Fish) (specimen is at Bowdoin College); Woodland (Aroostook Co.), 15 September, ♂, 25 September, ♂.

Genus ANYTUS Grote 1873 (SUTYNA Todd 1958)

- 2285 *privata* Walker 11 localities, 8 August - 4 October, 62 ♂; 20 September - 4 October, 8 ♀.
- 2288 *profunda teltowa* Smith Prout's Neck, September, ♀; Farmington, (3), 19 September, ♂, 23 September, ♂, 26 September, ♂; Augusta, 12 September (3-), 18 September, ♀, 22 September, ♀; Vassalboro, 27 September, ♀, 28 September, ♂, Bar Harbor, 18 August, ♂, 23 August, ♀, 28 August, ♀, 3 September, ♂♂, 12 September, ♂, 13 September, ♂, 16 September, ♀, 17 September, ♂, 19 September (2-1), 21 September, ♂, 22 September, ♀; Mt. Desert Island, 28 August, ♀; Woodland, (Aroostook Co.) August.

Genus CHAETAGLAEA Franclemont 1943

- 2288 1 *cerata* Franclemont Augusta, 28 September, ♂; Hope, 10 October, ♂.

Genus HARPAGLAEA Hampson 1906

- 2289 *sericea* Morrison Kittery Pt., September, ♂, 30 October, ♂; Augusta, 21 October, ♂; Bar Harbor, 30 October, ♂♂; Prospect Harbor, 3 November, ♀; Steuben, 15 November, ♀; W. Pembroke, 6 November, ♀; Harrington, 4 November (3-), 15 November (3-1); Eastport, 12 November, ♂; Woodland, (Washington Co.), 14 November, ♂; Buckfield recorded by Parlin, (Maine Nat. 2:13, 1922).
- 2290 *tremula* Harvey Bar Harbor, 30 October, ♂; Northeast Harbor.
- 2291 *pastillican-* Morrison Bar Harbor, 17 September, ♂, 20 - 25 September, 20 October, ♂; Northeast Harbor, 24 September, ♀, 27 September, ♂.

Genus PSECTRAGLAEA Hampson 1906

- 2292 *carnea* Grote Kittery Pt., 16 September, ♂, 21 September, ♂, 24 September, ♀; Unity, 17 September, ♂, 8 October, ♂; Hope, 24 September, (3-); Orono, 24 September, ♀; Old Town, Type.

Genus EPIGLAEA Grote 1878

- 2293 *decliva* Grote Kittery Pt., September, ♂; Farmington, 2 October, ♂, 3 October, ♂, 10 October, ♂, 11 October, ♂, 19 October, ♂, 20 October, ♂, 25 October, ♂♂; Augusta, 13 October, ♂, 17 October, ♂; Hallowell, 20 November, ♂, Farmingdale, 22 November; Vassalboro, 7 October, ♀, 31 October, ♂; Surry, 4 November, ♀, 5 November, ♀♀.
- 2294 *apiata* Grote Augusta, 19 September, ♂♂; Vassalboro, 15 September, ♂, 20 September, ♂, 24 September, ♂, 26 September, ♂, 28 September, ♀, 2 October, ♀, 10 October, ♂; Bar Harbor, 12 September, ♂, 16

September, ♂, 25 September, ♀; Cherryfield, 23 September, ♀; Orono, 17 September, ♀, 18 September, ♀, 24 September, ♂, 25 September (7-3); Red Beach (Perry), 2 November, ♂; East Machias, 5 November, ♂.

Genus METAXAGLAEA Franclemont 1937

- 2296 *inulta* Grote 12 localities, 30 August - 14 November, 30 ♂; 20 September - 9 October, 5 ♀.
 2297 *viatica* Grote Kittery Pt., 18 September, ♂♀; Hampton, New Hampshire, series, 1 - 12 September.

Genus PYREFERRA Franclemont 1937 (CONISTRA Hubner 1816)

- 2299 *hesperidago* Guenée (*indirecta* Walker) "Maine" type; Kittery Pt., 12 September, ♂; York: Farmington, (5); Orono, (6); Bar Harbor, 27 September; Machias, 3 October, ♀; Bangor, 30 May, 1883, ♀ (Eddy).
 2299.1 *citromba* Franclemont (*graeiana* of authors) Farmington, 5 May, ♂♀, 10 May, ♂, 13 May, ♂♀, June, ♂, 31 October, ♂♀; Mt. Vernon, 11 May (4-1), 18 May, ♀; Readfield, 21 May; Augusta, 8 May, ♂, 31 May, ♂; Vassalboro, 7 May, ♂.
 2301 *pettiti* Grote Kittery Pt., 3 September, ♂, 7 September, ♂; Farmington, 11 April, ♂♂, 13 April, ♂, 14 April (1), 22 April (2), 25 April, ♀, 26 April, ♂♂, 30 April, ♂, 1 May, ♂♂, 2 May, ♂, 4 May, ♂, 8 May, ♀, 10 May, ♂, 11 May, ♂, 13 May, ♂, 2 September, ♀, 21 September, ♀, 27 September, ♀, 3 October, ♀, 20 October, ♀.
 2302 *ceromatica* Grote "Maine" fide Forbes on *Hamamelis*.

Genus EUPSILIA Hubner 1827

- 2303 *tristigmata* Grote 15 localities, 30 March - 21 November, 22 ♂, 10 April - 17 November, 12 ♀.
 2304 *sidus* Guenée 12 localities, 27 April - 21 November, 8 ♂; 6 May - 15 November, 4 ♀; Bar Harbor, 16 April, 19 April, 21 May, larva on aspens.
 2304.1 *vinulenta* Walker Brunswick, 10 March, ♂; Farmington, 9 April, ♀, 15 April, ♀, 21 April, ♂, 25 April, ♂, 26 April, ♂, 11 June, ♂, 29 September, ♂, 14 October, ♀; Mt. Vernon, 16 April, ♀, 17 April, ♀, 18 May, ♀; Vassalboro, 5 May, ♀, 11 May, ♀; Hope, 20 September, ♂; Enfield, 10 April, ♂, Bar Harbor, 20 October, ♀, 30 October, ♀; Prospect Harbor, 7 November, ♂, 17 November, ♀; Milbridge, 17 November, ♂; Machias, 12 November, ♀; Machiasport, 12 November, ♀.
 2304.2 *cirripalea* Franclemont East Machias, 26 November, ♂.
 2305 *morrisoni* Grote 15 localities, 29 March - 17 November, 35 ♂; 28 March - 14 November, 19 ♀.
 2306 *devia* Grote Kittery Pt.: Belfast (Gypsy Moth lab.); Farmington, 8 April, ♂; Mt. Vernon, 8 April, ♂; Augusta, 18 April, ♂, 1 November, adults feeding at aster flowers; Vassalboro, 30 April, ♀; Waterville, 21 April, ♂; Bar Harbor, 26 April, ♂♀, 11 May, ♂; Hancock, 8 November, ♂; Charlotte, 3 November, ♂♀; Orono; Enfield; Lincoln (Clayton).

Genus XYSTOPEPLUS Franclemont 1937 (IODIA Hubner 1816)

- 2308 *rufago* Hübner Kittery Pt., 14 July, ♂, 13 August, ♂.

Genus PARASTICHTIS Hubner 1816 (TAENIOSEA Grote 1874)

- 2309 *discivaria* Walker 34 localities, 8 July - 8 October, 105 ♂; 17 July - 8 October, 38 ♀.
form *gentilis* Grote Kittery Pt.; Oquossoc, 10 August, ♂; Vassalboro; Tim Pond (Eustis), 27 July, ♂; Jackman, 1 August, ♀; Dennistown, 6 July, ♂, 26 July, ♂; Greenville, 26 July, ♀, Masardis, 31 July, ♂.

Genus RUSINA Stephens 1829 (SUNIRA Franclemont 1950)

- 2312 *bicolorago* Guenée 27 localities, 31 August - 28 November, 173 ♂; 9 September - 28 November, 104 ♀. Several color forms of this species occur.

Genus XANTHIA Ochsenheimer 1816

- 2316 *lutea* Stromberg (*flavago* Fabricius) 13 localities, 20 July - 13 November, 85 ♂; 13 September - 30 October, 27 ♀.

Genus ANATHIX Franclemont 1937 (PARASTICHTIS Hubner 1816)

- 2317 *ralla* Grote & Robinson Kittery Pt., 11 August, ♂; Brunswick, 28 August, ♀ (Copeland); Farmington, 17 August, ♀, 19 August, ♂, 20 August, ♀♀, 21 August, ♂♂, 22 August, ♂♂, 31 August (4-3), 1 September, ♀♀, 3 September, ♂♀, 4 September, ♀, 12 September (4-3), 13 September, ♂, 18 September, ♀♀, 20 September, ♂, 23 September, ♂♀, 24 September (1-2), 26 September, ♀, 28 September, ♀, 10 October, ♀, 29 October, ♀; Greenville, 24 August, ♀, Unity, 21 August, ♂; Bar Harbor, 11 August, 26 August, ♂♀, 29 August, ♀, 27 September; Northeast Harbor; Lincoln, 7 August, ♀, 27 August, ♀♀.
- 2318 *puta* Grote & Robinson 16 localities, 8 July - 2 October, 16 ♂; 1 August - 10 October, 22 ♀.

Genus EUCIRRHOEDIA Grote 1875

- 2321 *pampina* Guenée 15 localities, 24 August - 10 October, 36 ♂, 12 September - 2 October, 6 ♀.

Genus HOMOGLAEA Morrison 1875

- 2324 *hircina* Morrison 14 localities, 5 March - 14 November, 23 ♂, 22 April - 3 November, 22 ♀.

Genus SEPTIS Hubner 1816 (APAMAEA Ochsenheimer 1816)

- 2328 *verba-coides* Guenée 55 localities, 4 July - 10 August, 176 ♂, 3 July - 10 August, 431 ♀.
- 2329 *nigrior* Smith Kittery Pt., Type, 6 May, ♀, 6 June, ♀, 20 June, ♂, 3 July, ♀; Rangeley, 2 July, ♂, Vassalboro, 7 July, ♂; Unity, 17 June, ♀, 3 July, ♂, 5 July (2-1); Bangor, 3 July; Bar Harbor; Enfield, 8 July, ♀; T9R5 (Oxbow), 18 July, ♂; Princeton, 23 July, ♀, 29 July, ♂; Kellyland (Princeton), 3 July, ♂, 6 July, ♂; Dennysville, 13 July, ♂.
- 2330 *cariosa* Guenée Eustis, 7 July, ♀♀; Hampton, New Hampshire, 7 - 28 June.
- 2333 *cristata* Grote Enfield, 12 July, ♀, 16 July, ♂, 17 July, ♀, 26 July, ♂; Lincoln, 10 July, ♂♂, 13 July, ♀, 15 July, ♀♀, 27 July, ♀; Greenville, 6

- July, ♂; Bangor, 30 June, ♀, 9 July, ♀; T13R12, (Round Pond Mt.), 5 July, ♀; Guerette, 16 July, ♂; St. Francis, 3 July, ♀, 4 July, ♀♀; Princeton, 23 July, ♂; Dennysville, 25 July, ♀.
- 2335 *lignicolora* Guenée 32 localities, 19 June - 6 August, 231 ♂; 2 July - 4 August, 177 ♀.
- 2344 *vultuosa* Grote 54 localities, 8 June - 30 July, 46 ♂; 24 June - 5 August, 221 ♀.
- 2346 *apamiformis* Guenée Kittery Pt., 10 July, ♂, 20 July, ♂, 3 August; Augusta, 28 June, ♂, 2 July, ♂, 15 July, ♂, 17 July, ♂, 21 July, ♀, 31 July, ♂, 8 August, ♀; Orono, 24 July, ♀, 17 - 31 July (2-4); Lincoln, 15 July, ♂, 17 July (1-2), 20 July (3-4), 22 July, ♀♀, 26 July (12-2), 27 July, ♂♀; Princeton, 23 July, ♀.
- 2347 *plutonia* Grote Kittery Pt., 28 July, 1882. Type. 37 localities, 6 July - 4 August, 301 ♂; 4 July - 10 August, 337 ♀.
- 2351 *amputatrix* Fitch 1856 (*arctica* Freyer 1842 preoccupied) Yellowheaded Cutworm 58 localities, 20 April - 18 August, 236 ♂; 20 April - 8 November, 729 ♀.
- form *formosus* Ellsworth Farmington (3); Lincoln, 25 July, ♀, 29 July, ♂; Ellsworth; T5R6, (Little Russell Mt.), 24 July, ♀; T9R5 (Oxbow), 24 July, ♂, 27 July, ♀.
- 2353 *alia* Guenée 46 localities, 30 June - 7 August, 108 ♂; 20 June - 7 August, 506 ♀.
- form *rorulenta* Smith Greenville, 6 July, ♀, 13 July, ♀; Orono, 28 June - 23 July (5-8).
- 2355 *inordinata* Morrison 17 localities, 2 June - 16 July, 35 ♂; 7 June - 24 July, 21 ♀.
- 2361 *commoda* Walker 13 localities, 6 - 31 July, 57 ♂; 6 July - 18 August, 61 ♀. The northern tip of Maine.
- 2362 *impulsa* Guenée 50 localities, 28 June - 9 August, 115 ♂; 28 June - 5 August, 276 ♀.
- 2364 *indocilis* Walker 45 localities, 2 June - 11 August, 85 ♂; 2 July - 11 August, 223 ♀.
- form *separans* Grote 10 localities, 8 July - 3 August, 5 ♂; 8 July - 1 August, 9 ♀. Looks like a distinct species.
- form *iona* Strecker Tim Pond, 13 July, ♀; Dennistown, 25 July, ♀; T8R19 (Clayton Lake), 14 July, ♀; T9R5 (Oxbow), 9 July, ♀, 21 July, ♀, 24 July, ♀.
- 2365 *finitima* Guenée 47 localities, 11 June - 5 August, 86 ♂; 26 May - 5 August, 430 ♀.

Genus AGROPERINA Hampson 1908

- 2366 *lateritia* Hufnagel 45 localities, 20 June - 4 August, 101 ♂; 2 July - 5 August, 208 ♀.
- 2368 *dubitans* Walker 16 localities, 30 June - 18 August, 96 ♂; 9 July - 31 August, 66 ♀.
- 2368.1 *cogitata* Smith 45 localities, 24 June - 21 August, 762 ♂; 3 July - 23 August, 249 ♀.

A number of specimens are not listed because *dubitans* and *cogitata* were mixed, as at first they were thought to be a single species.

- 2370 *inficita* Walker 18 localities, 6 July - 23 August, 127 ♂; 23 July - 15 September, 25 ♀. At more northern locations.

- 2372 *indela lineosa* Smith Rangeley, 4 August, ♂, 11 August, ♂♂, 17 August, ♂; Greenville, 25 June, ♂♂, 4 July, ♂♂, 15 July, ♂; Patten, 30 July, ♂; Ashland, 30 June, ♂, 2 July, ♂, 4 July, ♂♂, 5 July, ♂♂, 13 July, ♂♂, 15 July, ♂. Maine specimens agree very well with Manitoba specimens determined as *indela lineosa*.
- 2373 *lutosa* Andrews Farmington, 20 June, ♂; Greenville, 15 July, ♂; Lincoln, 22 July, ♂♂, Dennysville, 28 July, ♀, 29 July, ♂, 30 July (1-2). Rarely taken in the warmer parts of Maine.
- 2374 *helva* Grote Norway, 12 August, ♀, 18 August, ♀ (Hamilton); Farmington, 20 June, ♂, 26 July, ♀, 30 July, ♂, 2 August, ♂, 14 August, ♂; Kingfield, 2 August, ♂♂, 12 August, ♂♂, 13 August, ♂, 17 August, ♂, 18 August, ♀; Augusta, 5 August, ♀, 6 August, ♂, 14 August, ♂, 17 August, ♂, 18 August, ♀♀, 19 August, ♂, 20 August, ♂ (at bait), 22 August, ♀♀, 27 August (3-) (at bait); Vassalboro, 28 July, ♂, 30 July, ♂, 1 August, ♂♂, 3 August, ♂, 10 August, ♀, 12 August, ♂, 14 August, ♂, 15 August, ♂♂, 16 August, ♂, 17 August, ♂, 18 August, ♂, 28 August, ♀, 31 August, ♂, 2 September, ♂; Unity, 10 July, ♂, 10 August, ♀, 16 August, ♀, 20 August, ♂, 31 August, ♂.

Genus CRYMODES Guenee 1852

- 2375 *devastator* Brace, Glassy Cutworm 41 localities, 1 July - 13 September, 1228 ♂; 6 July - 31 August, 170 ♀.
- *2379 *burgessi* Morrison Newington, New Hampshire, 10 September, 1971, ♂♀.

Genus TRICHOPLEXIA Hampson 1908

- 2381 *exornata* Moeschler T15R9 (De Boulie Mt.), 6 July, ♂, 9 July (4-), 12 July, ♂, 13 July (1-2), 15 July (2-6), 16 July, ♂, 18 July, ♂; Woodland, Aroostook Co., 15 - 18 August; Fort Kent, 19 August.

Genus PROTAGROTIS Hampson 1903

- 2383 *niveivenosa* Grote 43 localities, 5 July - 16 August, 744 ♂; 15 July - 16 August, 57 ♀. Northern and rarely eastern Maine.
- 2384 *extensa* Smith 20 localities, 23 June - 12 August, 45 ♂, 15 July - 3 September, 10 ♀. Northern and eastern Maine.

Genus LUPERINA Boisduval 1829

- 2387 *stipata* Morrison Kittery, ♂; Kittery Pt., 7 August, ♀; Unity, 26 July - 15 September, 8 ♂; Orono, 8 August - 25 September, 23 ♂, 1♀, 22 August (2); Lincoln, ♀; Millinocket, 17 August, ♀; Bar Harbor, 17 August, ♀, 23 August, ♂; Northeast Harbor, 13 July, ♀.
- 2393 *passer* Guenee 20 localities, 27 June - 2 August, 69 ♂; 1 - 23 July, 11 ♀. form *conspicua* Morrison Unity, 15 June, ♂, 3 September, ♂.

Genus OLIGIA Hubner 1816 (PROCUS Oken 1816)

- 2412 *modica* Guenee 24 localities, 13 June - 4 September, 33 ♂; 21 July - 15 September, 21 ♀.
- 2415 *semicana* Walker (*hausta* Grote) Kittery Pt., 11 July, ♂ (Thaxter), type of *hausta* Grote; Oquossoc, 11 July, ♀; Eustis, 25 July, ♀; Holeb, 20 July, ♂; Chesuncook, 23 July, ♂.

- 2415.1 species near *semicana* 12 localities, 10 July - 6 August, 22 ♂; 7 July - 8 August, 9 ♀.
- 2416 *exhausta* Smith 43 localities, 6 June - 12 August, 695 ♂; 5 July - 20 August, 191 ♀.
- 2416.1 *cyrtora*? Franclemont Oquossoc, 24 August, ♀; Vassalboro (Augusta), 18 June, ♂; Enfield, 21 July, ♀, 31 July, ♀; Lincoln, 6 August, ♀; Millinocket, 20 July, ♂; T9R5 (Oxbow), 10 July, ♂.
- 2416.2 species near *cyrtora*? Oquossoc, 26 July, ♂; Farmington, 8 July, ♂; Dennistown, 2 August, ♂; Lincoln, 5 July, ♂, 9 July, ♂, 29 July, ♀, 6 August, ♂; T9R5 (Oxbow), 15 July, ♂. Smaller than *cyrtora*.
- 2417 *tonsa laevigata*? Smith 40 localities, 5 July - 10 August, 805 ♂, 9 July - 8 August, 358 ♀.
- 2420 *bridghami* Grote & Robinson 34 localities, 6 July - 11 September, 149 ♂ - 14 July - 5 September, 54 ♀. Bred from *Myrica gale* at Bar Harbor.
- 2421 *minuscula grahami* Benjamin 13 localities, 22 July - 16 September, 12 ♂; 27 July - 26 September, 10 ♀. Has been seen flying on sunny days on bogs, and at goldenrod flowers.
- 2422 *diversicolor* Morrison 12 localities, 29 June - 27 September, 198 ♂; 1 - 24 September, 21 ♀. In the warmer part of Maine.
- 2423 *illocata* Walker 21 localities, 16 August - 6 October, 98 ♂; 16 August - 9 October, 31 ♀. Southern Maine northward to Oquossoc, Lincoln and Houlton; reared on white birch.
- 2424 *maetata* Guenée 18 localities, 27 August - 19 October, 25 ♂; 30 July - 25 October, 8 ♀.
- 2426 *fractilinea* Grote, Lined Stalk Borer 14 localities, 17 July - 5 September, 35 ♂; 2 - 28 August, 43 ♀.
form *vulgivaga*? Morrison Old Town (Fish coll.).

Genus EREMOBINA McDunnough 1937

- 2428 *hilli* Grote 16 localities, 20 July - 25 August, 19 ♂; 5 - 24 August, 4 ♀.
- 2430 *claudens* Walker (*leucoscelis* Grote) Kittery, August (-4); Augusta, 23 September, ♀; Vassalboro, 23 September, ♀; Unity, 19 August, ♀, 24 August, ♀; Bar Harbor, 23 August, ♀; Orono, 20 August, ♀.

Genus XYLOMOIA Staudinger 1892

- 2434 *chagnoni* Barnes & McDunnough 30 localities, 9 July - 27 August, 104 ♂; 10 July - 7 August, 40 ♀.

Genus SPARTINIPHAGA McDunnough 1937

- 2436 *inops* Grote Kittery Pt., September; Kennebunkport, 2 September, ♂, 9 September, ♂ (Clapp); Biddeford, 20 August, ♂, 21 August, ♀; reported from Lincoln by Grey.
- 2437 *includens* Walker Augusta, 29 July, ♀; Vassalboro, 24 June, ♂; Unity, ♀, 29 July, ♂ (Reed); Oquossoc, 17 August, ♂; Greenville, 5 August, ♂.
- 2438 *panatela* Smith 26 localities, 18 June - 7 August, 393 ♂; 8 July - 8 August, 13 ♀. A northern species.

Genus ARCHANARA Walker 1866 (NONAGRIA Oechsenheimer 1816)

- 2439 *oblonga* Grote Kittery Pt., Type: Unity, 19 August, ♂♀, 23 August (3-1), 10 September, ♂; Vassalboro, 24 August, ♀♀; Bar Harbor, 10 September, ♀; Lincoln, 10 August, ♀, 15 August, ♀, 15 September, ♂, 18 September, ♂; Millinocket, 24 August, ♂.
- 2440 *subflava* Grote Kittery Pt., 8 or 13 August, ♂, 18 August, ♂, 20 August, ♂♀, 23 August, ♂♂, 24 August, ♀, 26 August, ♀, 30 August, ♂♂, 4 September, ♂, 5 September, ♂, 8 September, ♂♀, 18 September, ♂; Augusta, 12 September, ♀; Vassalboro, 22 August, ♂, 11 September, ♂♀; Unity, 29 July - 3 September.

Genus OMMATOSTOLA Grote 1873

- 2445 *lintneri* Grote Kittery Pt., 21 August, ♀, 30 August, ♂, 1 September, ♀. Associated with salt grasses.

Genus HYPOCOENA Hampson 1910

- 2448 *inquinata* Guenée 58 localities, 2 July - 10 August, 328 ♂, 8 July - 11 August, 420 ♀.
- The type locality of *orientalis* Grote is Kittery Pt.
- 2449 *orophnina* Dyar Hampton, New Hampshire, 30 July - 4 September (4-3).
- 2452 *defecta* Grote 20 localities, 28 June - 16 August, 150 ♂; 9 July - 9 August, 12 ♀. A species of northern Maine.

Genus IPIMORPHA Hubner 1816 (ZENOBIA Oken 1815)

- 2453 *pleonectusa* Grote 36 localities, 6 July - 3 September, 185 ♂; 9 July - 14 September, 18 ♀. It has been reared from aspen.

Genus HELOTROPHA Lederer 1857

- 2457 *reniformis* Grote 18 localities, 21 July - 16 October, 38 ♂; 7 August - 24 September, 8 ♀.
- form *atra* Grote 11 localities, 21 July - 17 September, 11 ♂; 28 July - 25 August, 7 ♀.

Genus APAMEA Oechsenheimer 1816 (AMPHIPOEA Billberg 1820)

- 2458 *velata* Walker 37 localities, 12 July - 17 August, 493 ♂; 19 July - 28 August, 485 ♀.
- 2459 *americana* Speyer 39 localities, 5 July - 28 September, 2416 ♂; 17 July - 28 September, 405 ♀.
- 2460 *interoceanica* Smith Augusta, 13 August, ♀, 14 August, ♂, 18 August, ♀, 19 August, ♂, 22 August, ♂, 26 August, ♂, 28 August, ♂♂, 29 August, ♂♂, 3 September (4-), 4 September, ♂, 5 September (3-), 7 September, ♂♂, 13 September, ♀, 18 September, ♀, 19 September, ♂; Vassalboro, 8 September, ♂; Hope, 10 September, ♂; Bar Harbor, 24 August - 23 September. Perhaps 2 - 3% as many as *americana*.

Genus HYDROECIA Guenée 1837

- 2473 *immanis* Guenée Brunswick, 19 September, ♂, at light, 28 September, ♂, at light; Mt. Desert, August.
- 2474 *micacea* Esper, Potato Stem Borer 42 localities, 12 July - 7 November, 402 ♂; 28 July - 21 September, 25 ♀.

Genus *PAPAIPEMA* Smith 1899

- 2478 *cerina* Grote Kittery Pt., 13 September, ♀, 19 September, ♂♀.
- 2479 *appassionata* Harvey Scarboro, 31 August, 1905, ♂, 5 September, ♀, 14 September, ♀ (Lyman); Unity, 4 September, ♀; Enfield, 18 September, ♀ dead on a sphagnum bog.
- 2481 *inquaesita* Grote & Robinson Farmington, 24 September, ♂, 11 October, ♂; Augusta, 12 September (2-1), 18 September, ♀, 20 September, ♀, 21 September, ♀, 25 September, ♀, 26 September, ♂, 29 September, ♂, 4 October, ♂♂, 6 October, ♂; Vassalboro, 31 August, ♂, 3 September, ♂♂, 8 September (4-2), 10 September (2-3), 11 September, ♂, 14 September, ♂, 16 September, ♂, 17 September (17-), 18 September, ♂♂, 19 September, ♂, 21 September (7-), 22 September (7-), 23 September (4-), 24 September (11-3), 26 September (3-1), 27 September, ♂, 28 September (3-1), 1 October, ♂, 4 October, ♂♂, 6 October (9-4), 11 October, ♂, 13 October (3-), 15 October, ♂, 16 October (5-), 19 October, ♂, 31 October (3-); Unity, 31 August, ♂; Mt. Desert Is., 23 September, ♂; Bar Harbor, 28 September, ♂; Orono, 21 August - 2 October (15-3); Enfield; Lincoln.
- 2482 *speciosissima* Grote & Robinson Unity, 7 October, ♀.
- 2484 *marginidens* Guence Kittery Pt., 20 September, ♂, 5 September, ♂; Belgrade Lakes, 5 September (Jones); Augusta, 28 August, ♂, 7 September, ♀, 19 September, ♀, 20 September, ♀, 25 September, ♀, 27 September, ♂; Vassalboro, 25 August, ♀, 3 September, ♂, 8 September, ♂, 11 September, ♂, 13 September, ♀; Hope, 2 September, 3 September; Orono, 24 September, ♂; Bar Harbor, 23 August, ♂ (Eddy).
- *2487 *baptisiae* Bird Lee, New Hampshire, 19 September, ♀.
- 2489 *nepheleptena* Dyar Orono, 27 September (2-1); Katahdin Iron Works, 8 September (Jones); (Durham, New Hampshire, 7 October, ♀).
- 2491 *circumlucens* Smith Lincoln, September (Clayton), determined by Bird; (Lee, New Hampshire, 19 September, ♂).
- 2494 *rutila* Guené Kittery Pt., 5 September, ♂, 15 September, ♂, 18 September, ♂. These specimens probably belong with *arcivorens* or *marginidens*.
- 2498 *merrickata* Bird Unity, 24 September, ♂, determined by Franclemont; Orono, 26 August, ♀, determined by Franclemont, 4 September, ♂. This may be a synonym of *baptisiae*.
- 2501 *harrisi* Grote Kittery Pt., 25 August, ♂, 26 August, ♀, 30 August, ♂♀, 1 September, ♀, 2 September, ♂♀, 5 September, ♂, 19 September, ♂.
form *rubiginosa* Bird Kittery Pt., 17 August, ♀, 26 August, ♀, one ♂.
- 2505 *impecuniosa* Grote 12 localities, 21 August - 6 November, 153 ♂; 5 September 19 October, 46 ♀.
- 2507 *purpurifascia* Grote & Robinson (*leucostigma* Harris), Columbine Borer Farmington, 13 September; Monmouth, 21 July, ♂; Augusta, 7 September, ♂; Unity, 21 September, ♀; Bangor, 10 - 15 September, ♀ at sugar (Eddy); Orono, 9 September, 11 September, ♂, 12 September, ♂, 24 September, ♂, 30 September; Lincoln, ♀ (Clayton), 4 October, ♂; Enfield, 20 September, ♀.
- 2508 *lysimachiae* Bird Kittery Pt., 24 September, ♂; Belgrade, 7 September; Augusta, 4 September, ♂, 5 September, ♂, 6 September, ♂, 12 September, ♂, 14 September, ♂, 24 September, ♂, 26 September, ♂; Hope, 14

- September, ♂; Orono, 11 September, ♂; Vassalboro, 5 September, ♂, 6 September, ♂, 17 September, ♂, 24 September, ♀♀; Mt. Desert, 9 September, 17 September.
- 2509 *pterisii* Bird 17 localities, 31 July - 7 November, 90 ♂; 31 August - 11 October, 12 ♀.
- 2510 *cataphracta* Grote, Burdock Borer Farmington, 25 October, ♂♀; Vassalboro, 17 October, ♀.
- 2515 *rigida* Grote Kittery Pt., 23 August, 27 August, ♂, 18 September, ♂; Augusta, 22 September, ♂, 25 September, ♂; Vassalboro, 9 September, ♂, 11 September, ♀; Unity, 4 September, ♂; Ft. Kent, 15 September, ♂♂.
- 2520 *sciata* Bird Lincoln, ♀ (Clayton) determined with a "???" by Bird.
- 2521 *frigida* Smith 13 localities, 21 August - 12 November, 48 ♂; September - 25 October, 14 ♀.
form *thalietri* Lyman. This form is commoner than the type form *frigida*.
- 2523 *limpida* Guenée Kittery Pt., 15 September, ♀, 22 September, ♂, 24 September, ♂. Bird probably checked these specimens. Forbes says he later changed the name from *limpida* Guenée to *sciata* Bird. This needs to be reared.
- 2525 *nebris* Guenée, Stalk Borer Skowhegan, several Hitchins coll; Augusta, 5 September, ♂, 12 September (5-), 14 September, ♂, 19 September, ♂, 20 September, ♂♂, 23 September (2-1), 24 September, ♂, 25 September (2-1), 26 September, ♂, 27 September, ♂, 29 September, ♂, 5 October, ♀, 6 October, ♀; Vassalboro, 8 September (3-), 12 September, ♂, 17 September (3-4), 21 September, ♂♀, 24 September, ♂, 26 September, ♂; Unity, 3 - 30 September (-5); Orono, 11 September, ♂♀, 24 September, ♂♂. There are no Maine records for the unspotted form, *nitela* Guenée.
- 2530 *eupatorii* Lyman Farmington, 20 September, ♀, 23 September, ♂; Vassalboro, 11 October, ♂; Hope, 20 September, ♂; Lincoln, ♂ (Clayton); Katahdin Iron Works, 5 September, 14 September, ♂.

Genus EUPLEXIA Stephens 1829

- 2533 *benesimilis* McDunnough 58 localities, 9 June - 10 August, 439 ♂; 23 June - 5 August, 85 ♀.

Genus PHLOGOPHORA Treitschke 1825 (BROTOLOMIA Lederer 1857)

- 2535 *iris* Guenée 51 localities, 3 June - 9 August, 529 ♂; 2 June - 12 August, 358 ♀.
- 2536 *periculosa* Guenée 35 localities, 21 June - 7 September, 676 ♂; 13 July - 12 September, 147 ♀.
form *v-brunneum* Grote 36 localities, 10 July - 28 August, 255 ♂; 31 July - 31 August, 62 ♀.

Genus CONSERVULA Grote 1875

- 2537 *anodonta* Guenée 22 localities, 7 July - 2 August, 35 ♂; 7 - 29 July, 9 ♀.

Genus HAPLOOLOPHUS Butler 1891

- 2539 *mollissima* Guenée 35 localities, 30 May - 6 August, 222 ♂; 25 June - 3 August, 115 ♀.

Genus EUHERRICHIA Grote 1882

- 2540 *monetifera* Guenée 50 localities, 6 June - 9 August, 491 ♂; 18 June - 17 August, 372 ♀.
 2542 *granitosa* Guenée Kittery Pt., (6). (Hampton, New Hampshire, 23 June, ♀).

Genus FAGITANA Walker 1865

- 2543 *littera* Guenée Kittery Pt., (6). (Hampton, New Hampshire, 12 June, ♂, 23 June, ♀, 10 July, ♂).

Genus PHUPHENA Walker 1858

- 2544 *u-album* Guenée Kittery Pt., July, ♂, 8 August, ♂. (Nova Scotia, 30 May).

Genus MACRONOCTUA Grote 1874

- 2546 *onusta* Grote, His Borer Kittery Pt., 16 September, ♂; Farmington, 28 September, ♂; Augusta, 16 September, ♂, 17 September, ♂, 21 September, ♀, 25 September, ♂, 6 October, ♂♂, 8 October, ♂, at light, ♀; Vassalboro, 3 September, ♂♂, 5 September, ♂♂, 8 September (24-3), 9 September, ♂♂, 11 September, ♂♂, 13 September, 14 September, ♂, 15 September (4-), 16 September (5-), 17 September, ♂, 18 September, 20 September, 21 September (3-1), 22 September (3-), 23 September (4-), 24 September (7-1), 26 September (5-3), 27 September, ♂, 29 September, ♀, 5 October (2-1), 6 October (3-2), 9 October, ♂; Bar Harbor, 13 October, ♂, 30 October, ♂; Orono, 14 August - 17 September (9-1); Lincoln (Clayton).

Genus TRACHEA Ochseneimer 1816

- 2547 *delicata* Grote Scarboro, 29 June, ♀; Augusta, 12 June, ♂; Vassalboro, 2 June, ♂, 6 June, ♂, 4 July, ♂, 14 July, ♂, 17 July, ♂♂, 26 July, ♂, 29 July, ♂, 28 August, ♀; Unity, 26 July, ♀, 31 August, ♀, 2 September, ♀; Ellsworth, 13 June, ♂.

Genus PHOSPILA Hubner 1820

- 2548 *turbulenta* Hübner Southern Maine; York Beach, larvae reared on *Smilax*, (Farquhar); Kittery Pt., 30 June, ♂.
 2549 *miselioides* Guenée Kittery Pt., a series.

Genus CHYTONIX Grote 1874

- 2553 *chlorostigma* Harvey Lee, New Hampshire, 28 July, (Blickle). Forbes calls this 2421 1 *Oligia chlorostigma*.
 2554 *palliatricula* Guenée 28 localities, 27 May - 9 August, 273 ♂; 22 June - 2 August, 52 ♀.
 form *iaspis* Guenée 26 localities, 28 May - 4 August, 476 ♂; 16 June - 27 July, 85 ♀.
 2555 *sensilis* Grote Kittery Pt., August (3); Bangor? 26 July, ♀, at sugar (Eddy).

Genus CERMA Hubner 1816

- 2559 *cora* Hübner Farmington, 20 June, ♂, 30 June, ♂; Bangor, 1 July; Enfield, 19 June, ♂♂ (Grey), 9 July, ♀, 24 July, ♂; Lincoln, 23 June, ♂.

Genus POLYGRAMMATE Hubner 1816

- 2574 *hebraicum* Hübner Kittery Pt., 12 July, ♂, 15 July, ♂; Princes Pt., Yarmouth, 22 July, ♂ (Terry Ely).

Genus LEUCONYCTA Hampson 1909

- 2576 *diptheroides* Guenée 48 localities, 23 May - 11 August, 449 ♂; 22 June - 4 August, 60 ♀.
form *obliterata* Grote Greenville, 9 July, ♀; T15R13 (Big Black River), 16 July, ♂. Found along with the usual form.

- 2577 *lepidula* Grote 42 localities, 5 June - 14 August, 383 ♂; 30 May - 6 August, 73 ♀.

Genus AGRIOPODES Hampson 1909

- 2578 *fallax* Herrich-Schaeffer 36 localities, 7 June - 18 August, 88 ♂; 8 July - 2 August, 20 ♀.

Genus AMPHIPYRA Ochsenheimer 1816 (PYROPHILA Hubner 1816)

- 2584 *pyramidoides* Guenée 16 localities, 4 August - 23 October, 113 ♂; 27 July - 23 October, 90 ♀.

- 2585 *tragopogonis* Linnaeus 25 localities, 26 July - 8 October, 67 ♂; 26 July - 2 October, 39 ♀.

- 2586 *glabella* Morrison Augusta, 15 August, ♂, 8 September, ♀; T6R8 (Patten), 18 September, ♂.

Genus DIPTERYGIA Stephens 1829

- 2587 *scabriuscula* Linnaeus 18 localities, 29 May - 23 August, 33 ♂; 31 May - 18 August, 16 ♀.

Genus DELTA Saalmuller 1891 (NEDRA Clarke 1940)

- 2589 *ramosula* Guenée 37 localities, 8 May - 20 September, 454 ♂; 14 May - 20 August, 146 ♀.

Genus ANDROPOLIA Grote 1895

- 2596 *contacta* Walker Farmington, 23 July, ♀; Lincoln, 28 July, ♂, 29 July, ♀; Bar Harbor, 1 August; T8R19 (Clayton Lake), 11 July, ♂, 18 August, ♂♂; Masardis, 31 July, ♂; Ashland, 1 August, ♂, 2 August, ♂; Houlton, 10 July, ♂, 10 August, ♂; St. Francis, 25 July, ♂, 29 July, ♂.

Genus HYPPA Duponchel 1844

- 2607 *xylinoides* Guenée 15 localities, 11 May - 20 October, 41 ♂; 19 May - 15 October, 73 ♀.
2607.1 *ancociscenensis* Morrison 30 localities, 26 May - 19 September, 377 ♂; 30 May - 13 September, 260 ♀.

The records of earlier years were not separated into two species and were discarded. *Xylinoides* seems generally in the coastal portion of the State and *ancocisconensis* more northern.

Genus CONDICA Walker 1856

- 2611 *eupentia* Cramer Kittery Pt., 15 September, ♂.

Genus PLATYSENTA Grote 1874

- 2613 *videns* Guenée 12 localities, 28 May - 7 September, 112 ♂; 5 June - 5 September, 25 ♀.
 2620 *vecors* Guenée Kittery Pt., June, ♂; Oquossoc, 27 June, ♂, Augusta, 4 July, ♂; T9R5 (Oxbow), 11 July, ♀.
 2623 *sutor* Guenée Bangor, 21 September; Lincoln, ♂ (Clayton). These are old records, no new ones are at hand.

Genus ELAPHRIA Hubner 1819 (MONODES Guenee 1852)

- 2645 *versicolor* Grote 42 localities, 31 May - 8 August, 262 ♂; 13 June - 26 July, 86 ♀. Reared from spruce and fir.
 2646 *chalconia* Hübner Kittery Pt.; Northeast Harbor (Minot) (not seen); Conway, New Hampshire, 26 June, ♂ (Shaw).
 2647 *festivoides* Guenée 41 localities, 21 May - 8 August, 795 ♂; 6 June - 28 July, 471 ♀.
 2650 *grata* Hübner Kittery Pt., September, ♀.

Genus PLATYPERIGEA Smith 1894

- 2655 *multifera* Walker 24 localities, 31 July - 16 September, 44 ♂; 18 August - 6 October, 16 ♀.
 2657 *meralis* Morrison "Me." type locality (type in Tepper coll., Michigan State University); Norway, ♀? (Smith); Plaistow, New Hampshire, 7 September, ♂ (Shaw).

Genus CRAMBODES Guenee 1852

- 2661 *talidiformis* Guenée Kittery Pt., 14 August, ♀, 25 August, ♂; Vassalboro, 16 June, ♂; Unity, 28 July, ♂.

Genus PROXENUS Herrich-Schaeffer 1845

- 2662 *miranda* Grote 52 localities, 10 June - 10 September, 396 ♂; 30 May - 24 August, 52 ♀.

Genus GALGULA Guenee 1852

- 2666 *partita* Guenée 25 localities, 30 May - 6 November, 66 ♂; 25 July - 15 August, 4 ♀.

Genus BALSA Walker 1860

- 2669 *malana* Fitch 39 localities, 21 May - 12 August, 185 ♂; 28 May - 26 August, 50 ♀.
 2670 *tristrigella* Walker 12 localities, 23 May - 1 August, 40 ♂; 13 June - 15 July, 36 ♀.
 2671 *labecula* Grote 11 localities, 11 June - 25 July, 10 ♂; 27 June - 18 July, 8 ♀. North to Greenville, Millinocket and Lincoln.

Genus PRODENIA Guenee 1852 (SPODOPTERA Guenee 1852)

- 2677 *dolichos* Fabricius Kittery Pt. (Forbes p. 223, a stray.)
 2678 *ornithogalli* Guenee, Yellowstriped Armyworm Kittery Pt.; Augusta, 28 September, ♂ (bait trap); Vassalboro, 27 June, ♂, 2 August, ♀, 22 August, ♂, 6 October (13-), 7 October, ♂, 9 October, ♂; Bar Harbor, 18 August, 23 August, ♂, 28 August; Cutler, 12 November, ♂; East Machias, 22 July, ♂; Orono, 1-25 September (6-); Lincoln.
 *2681 *eridania* Cramer, Southern Armyworm Lee, New Hampshire, 3 October, 1967, black light trap.

Genus LAPHYGMA Guenee 1852 (SPODOPTERA Guenee 1852)

- 2682 *frugiperda* Abbot & Smith, Fall Armyworm Farmington, 17 July, ♂, 10 September, ♂; Augusta, 18 July, ♂, 28 August, ♀, 10 September, ♀, 12 September (4-2), 15 September, ♂♀, 17 September, ♂♀, 20 September, ♂♂, 21 September, ♂♂, 22 September (1-2), 23 September, ♂♂, 25 September (3-), 27 September, ♀, 28 September, ♂, 4 October, ♀, 7 October, ♂; Vassalboro, 3 September, ♂, 8 September (5-4), 9 September, ♀, 10 September, ♂, 12 September (1-2), 16 September, ♂, 17 September (3-2), 18 September, ♂, 21 September, ♂♂, 24 September (3-2), 26 September (5-2), 27 September, ♂♀, 3 October, ♂, 6 October (5-1), 11 October (-3), 15 October, ♀, 18 October (1-2); Chesuncook Dam, 30 July, ♂; Orono, 5 October (3-1); Lincoln, 20 September, ♀; Bar Harbor, 7 August, 28 August, ♀, 31 August; Jonesboro, 26 July, ♂; Millinocket, 9 September, ♂.
 form *obscura* Riley Vassalboro, 18 September, ♂, 20 September (1-2), 23 September, ♀; Bar Harbor, 5 August - 6 September.
 2683 *exigua* Hübner, Beet Armyworm Vassalboro, 21 October, ♂.

Genus MAGUSA Walker 1857

- 2684 *orbifera* Walker 14 localities, 12 July - 22 October, 19 ♂; 14 July - 22 October, 11 ♀.

Genus ENARGIA Hubner 1816

- 2685 *decolor* Walker 17 localities, 11 July - 23 September, 80 ♂; 12 July - 19 October, 12 ♀.
 2685.1 *infumata* Grote 22 localities, 8 July - 28 August, 103 ♂; 12 July - 29 July, 10 ♀.
 2685.2 *mephisto* Franclemont Lincoln, 10 July, ♂♂, 14 July (2-1), 15 July (3-1), 22 July, ♂, 30 July, ♀, 31 July, ♀; Dennistown, 10 July, ♂; T9R5 (Oxbow), 9 July, ♂, 19 July, ♂, 22 July, ♂, 26 July, ♂, 31 July, ♀, 3 August, ♂; T13R9 (DeBoulie Mt.), 18 August, ♂; Allagash, 31 July, ♂; T16R13 (Chimenticook), 20 July, ♂; T17R5, (Cross Lake), 17 July, ♀; Ft. Fairfield, 16 July, ♂; Kellyland (Princeton), 17 July, ♂.

Specimens in this genus vary so much in size, pattern and color and the genitalia are so similar that separation into three species is not always definite. Those placed under *mephisto* are considerably smaller, darker and narrower winged as a rule, and with an earlier flight period. *Decolor* has been reared from aspen.

Genus COSMIA Oechsenheimer 1816

- 2687 *canescens* Behr (*calami* Harvey) Kittery Pt., 27 July, ♂; Bar Harbor, August 1925 (Dahlgren); Lincoln, 28 July, ♂, fide Grey.

Genus AMOLITA Grote 1874

- 2694 *fessa* Grote 22 localities, 8 June - 4 August, 262 ♂; 10 July - 4 August, 32 ♀.

Genus ARZAMA Walker 1865

- 2703 *obliqua* Walker 11 localities, 30 May - 1 August, 20 ♂; 6 June - 8 July, 8 ♀.
- 2704 *brehmei* Barnes & McDunnough Kittery Pt., June (3-2), 5 August, ♂; Augusta, 10 July, ♀; Vassalboro, 6 June, ♂; Farmington, 10 June, ♂♀; Greenville, 9 July, ♀; T17R5 (Cross Lake), 8 July, ♂.
- 2705 *densa* Walker Augusta, 9 August, ♂; Unity, 1 August, ♂?

Genus BELLURA Walker 1865

- 2708 *gortynoides* Walker Bar Harbor, 27 August, larva det. Heinrich
- 2710 *diffusa* Grote Monmouth, 29 July, ♀, (J. H. Brower); Orono, ♀; Rockwood, 8 July, ♂; Caucomgomoc, 8 July, ♀; T5R6 (Mt. Chase), 19 July, ♂; Guerette, 15 July, ♂, 17 July, ♂♀, 28 July, ♂; Sinclair, 14 July, ♂; T17R5 (Cross Lake), 12 July, ♂.

Genus ACHATODES Guenee 1864

- 2711 *zeae* Harrison, Elder Shoot Borer 24 localities, 11 July - 20 August, 74 ♂; 28 July - 18 August, 11 ♀.

Genus PYRRHIA Hubner 1816

- 2715 *umbra* Hufnagel Kittery Pt., 6 August, ♂; Farmington, 18 June, ♂, 24 June, ♀; Augusta, 23 April emerged, 18 June, ♀, 12 July, ♀, 8 August, ♀.
- 2715 1 *exprimens* Walker 36 localities, 18 June - 2 August, 82 ♂; 23 June - 1 August, 64 ♀. Reared from rosebuds and larkspur at Bar Harbor.

Genus RHODOECIA Hampson 1910

- 2716 *aurantiagio* Guenée Kittery Pt., 30 August, ♂.

Genus DERRIMA Walker 1857

- 2719 *stellata henrietta* Grote Kittery Pt., 30 July, ♂, 31 July (3-).

Genus CATABENA Walker 1865

- 2737 *lincolata* Walker Kittery Pt.

Genus OGDONOTA Butler 1891

- 2773 *cinereola* Guenée 15 localities, 8 June - 8 September, 72 ♂; 10 July - 10 September, 16 ♀.

Genus EUTHISANOTIA Hubner 1823

- 2858 *grata* Fabricius Kittery Pt., a series; York, June to early August; Westbrook, ♀; Newport (Gypsy Moth lab.); Orono, 6 August, ♂.

- 2860 *unio* Hübner Kittery Pt.; Biddeford, 19 July, (A. F. Winn); Norway, 11 July, ♂, 31 July, ♂, (Hamilton); Unity, 2 June, ♂, 8 June (4-), 23 July (3-), 26 July, ♂♂, 27 July (1-2); Old Town; Orono, 9 July, ♂.

Genus EUTRICOPIS Morrison 1875

- 2871 *nexilis* Morrison Berwick, 24 May, ♂; Lebanon, 24 May, ♂; Porter, 24 May, ♂; Kezar Falls, 17 May (3-); Norway, ♂♀ (Smith); Bar Harbor, 18 May, ♂.

Genus EUPANYCHIS Grote 1890

- *2925 *spinosae* Guenée Hampton, New Hampshire, 6 September, ♂; Seabrook Beach, New Hampshire, 5 September, ♂ (Shaw).

Genus HELIOTHIS Ochseneimer 1816 (HELICOVERPA Hardwick 1965 for Obsoleta)

- 2931 *phloxiphaga* Grote & Robinson Vassalboro, 29 July, ♂.
 2932 *obsoleta* Fabricius (*zea* Boddie, *armiger* Hübner), Bollworm, Corn Earworm Farmington, 14 August, ♀, 20 August, ♂, 1 September, ♀, 26 September, ♀; Augusta, 4 September, ♀; Vassalboro, 15 August, ♀, 23 September, ♂, 24 September (4-1), 26 September, ♀, 27 September, ♀, 6 October (6-2), 7 October, ♂, 9 October, ♂; Lincoln (Clayton); Millinocket, 14 July, ♂, 12 August, ♂; Bar Harbor, 17 September, ♀♀.
 2933 *virescens* Fabricius, Tobacco Budworm Augusta, 9 August, ♀, at *petunias*.

Genus RHODOPHORA Guenée 1852

- 2941 *florida* Guenée 36 localities, 29 June - 31 August, 465 ♂; 4 July - 9 August, 86 ♀.

Genus SCHINIA Hubner 1816 (LYGRANTHOECIA Grote & Robinson 1870)

- 2990 *nundina* Drury 11 localities, 22 July - 9 August, 20 ♂; 15 July - 22 August, 12 ♀.
 3004 *sanguinea* Geyer Reported from Kittery, see Forbes p. 25.
 3007 *marginata* Haworth Oquossoc, 31 July, ♂; Rangeley, 25 July, ♀; Augusta, 22 July, ♀, 28 July, ♀, 30 July, ♀, 31 July, ♂; Greenville, 23 July, ♀; Orono, 31 July, ♂, 10 August, ♀; Pittston Farm, 31 July ♂; Masardis, 1 August, ♀; T15R13 (Big Black River), 21 July, ♂.
 3016 *lynx* Guenée Unity, 29 June, ♂; Millinocket, 17 July, ♂; Ashland, 24 July, ♀, T9R5 (Oxbow), 4 August, ♂.
 3018 *arcigera* Guenée Kittery Pt., 15 August, ♀♀, 20 August, ♀; Rangeley, 9 August, ♂, Augusta, 5 August, ♂; New Harbor, 30 August, ♀; Hope, 9 August, ♂; Unity (3); Bar Harbor, 27 August, ♂, 12 August - 25 September; Millinocket, 13 July, ♂; Enfield, 28 August, ♀.
 3030 *septentrionalis* Walker (*brevis* Grote) Higgins Beach, 30 August, ♀ (Brower).

Genus CRYPHIA Hubner 1818

- 3099 *pervertens* Barnes & McDunnough 16 localities, 6 June - 7 August, 679 ♂; 16 June - 7 August, 193 ♀.

- 3100 *villiticans* Barnes & McDunnough Vassalboro, 26 June, ♂; Farmington, 22 June, ♂; Lincoln, 23 June, ♂, 11 July, ♂, 12 July, ♂, 13 July, ♂, 14 July, ♂, 27 July, ♂; T6R7 (Camp Colby), 22 July, ♂♀.

Genus PROTOCRYPIA Barnes & McDunnough 1918

- *3102 *secta* Grote Durham, New Hampshire; New Hampshire (5).

Genus EXYRA Grote 1875

- 3106 *rolandiana* Grote 13 localities, 7 June - 7 September, 9 ♂; 22 June - 24 July, 4 ♀.

Genus XANTHOPTERA Guenee 1852 (THIOPTERA Franclemont 1950)

- 3113 *nigrofimbria* Guenée Norway (Smith), a stray.

Genus ERASTRIA Oechsenheimer 1816 (LITHACODIA Hubner 1818)

- 3117 *bellicula* Hübner 37 localities, 17 May - 6 August, 227 ♂; 30 May - 3 August, 17 ♀.
- 3118 *muscosa* Guenée 38 localities, 7 June - 7 August, 300 ♂; 16 June - 18 September 270 ♀.
- 3119 *albidula* Guenée 55 localities, 7 June - 27 October, 2194 ♂; 20 June - 31 October, 477 ♀.
- 3120 *synochitis* Grote & Robinson 30 localities, 30 May - 7 August, 574 ♂; 30 May - 3 August, 158 ♀.
- 3122 *concinimacula* Guenée 49 localities, 29 May - 10 August, 329 ♂; 17 June - 25 July, 62 ♀.
- *3123 *musta* Grote & Robinson Lee, New Hampshire, 18 July, ♂, 26 July, ♂; Durham, New Hampshire, 15 July, ♂.
- 3124 *carneola* Guenée 50 localities, 25 May - 6 October, 779 ♂; 6 June - 5 October, 226 ♀.

Genus NEOERASTRIA McDunnough 1937

- 3126 *apicosa* Haworth Kittery Pt.: Norway, ♂♂; Augusta, 4 July, ♀, 26 July, ♀. Unity, 28 June, ♂, 17 July, ♂, 29 July, ♀, 1 August, ♀; North-east Harbor, 24 July (Minot); Orono, 5 July, ♂, 2 September, ♀; Lincoln, 11 June, ♂, 3 July, ♂, 7 July, ♂, 11 July, ♂, 4 August, ♀, Woodland, Washington Co., 12 July, ♂.
- *3127 *educa* Grote Hampton, New Hampshire, 7 June, ♀; Jefferson, New Hampshire, 20 August, ♂, at sugar.

Genus CAPIS Grote 1882

- 3129 *curvata* Grote 54 localities, 6 June - 21 September, 627 ♂; 6 June - 4 August, 256 ♀.

Genus CHAMYRIS Guenee 1852

- 3131 *cerintha* Treitschke 13 localities, 12 June - 28 July, 59 ♂; 18 June - 28 July, 17 ♀.

Genus AMYNA Guenee 1852

- 3136 *oeto* Guenée Vassalboro, 24 September, ♂♀ (Haywood); Augusta, 15 September, ♀.

Genus TARACHIDIA Hampson 1898

- 3172 *crastrioides* Guenée Kittery Pt.: Farmington, 13 June, ♂, 16 June, ♂, 17 June, ♂, 22 June, ♂, 15 August, ♂, 23 August, ♂, 28 August, ♀, Augusta, 9 June, ♂♂, 17 July, ♀, 4 August, ♀; Vassalboro, 30 May, ♂, 6 June, ♂♀, 7 June, ♂, 13 June, ♀♀, 14 June, ♀, 18 June, ♂, 19 June (2-1), 21 June, ♂, 22 June, ♂, 4 July, ♀, 7 July, ♂♀, 9 July, ♂, 12 July, ♂; Enfield, 19 July, ♀, 28 July, ♂, 29 July; Mt. Desert, 20 July - 25 August; Lincoln, 13 July, ♂♂, 15 July, ♂, 20 July, ♂, 23 July, ♂, 27 July, ♀, 28 July, ♀, 4 August, ♀; Millinocket, 26 June, ♂, 28 June, ♂, 1 July, ♂, 12 July, ♂, 14 July, ♀, 15 July, ♂, 16 July, ♂♂, 17 July, ♂♂, 18 July, ♀, 19 July (3-), 23 July, ♂♂, 26 July, ♂, 31 July, ♂, 2 August, ♀, 3 August, ♂, 5 August, ♀, 7 August, ♀, 8 August, ♂; Chesuncook, 23 July, ♀.
- 3176 *candefacta* Hübner 12 localities, 28 May - 26 August, 67 ♂; 19 June - 23 July, 10 ♀.

Genus ACONTIA Ochseneimer 1816

- 3210 *terminimacula* Grote Searsport, 16 July (Port of Entry)

Genus MARATHYSSA Walker 1865

- 3222 *basalis* Walker Kittery Pt., 13 June, ♀, 18 June, ♀; York, determined by D. W. Farquhar.
- 3223 *inficita* Walker 18 localities, 9 June - 1 August, 86 ♂; 23 June - 6 August, 54 ♀.

Genus PAECTES Hubner 1816

- 3225 *oculatrix* Guenée Kittery Pt., 6 or more July (September?), 15 July, ♂.

Genus CHARACOMA Walker 1863

- 3234 *proteella* Dyar (*nilotica* Dyar) 31 localities, 1 July - 13 September, 141 ♂; 30 June - 31 August, 134 ♀.

Genus SARROTHRIPUS Curtis 1824

- 3235 *frigidana* Walker (*revayana* of authors) Oquossoc, 16 July, ♂, 28 July, ♂; Farmington, 22 May, ♀♀, 27 May, ♂, 2 June, ♂; Bucksport, (Gypsy Moth lab.), Hampden, (Gypsy Moth lab.); Detroit, (Gypsy Moth lab.); Orono, 13 July; Glenburn, (Gypsy Moth lab.); Jonesboro, 13 August, ♂♀; Enfield, emerged 16 May, ♀; Dennistown, 23 July, ♀, 8 August, ♀; T9R5 (Oxbow), 29 July, ♀; Masardis, 13 October, ♀; Guerette, 28 July, ♂.
- 3235.2 *cinereana* Neumoegen & Dyar Augusta, 9 August, ♀; Farmington, 2 June, ♂; Masardis, 14 August, ♀; Topsfield, 6 August, ♂; Kellyland (Princeton), 4 August, ♀, 10 August, ♂.

Genus BAILEYA Grote 1893

- 3238 *doubledayi* Guenée 41 localities, 31 May - 6 August, 108 ♂; 24 June - 6 August, 21 ♀.

- 3239 *ophthalmica* Guenée 20 localities, 11 May - 16 July, 65 ♂; 17 May - 24 July, 29 ♀.
- 3241 *dormitans* Guenée Kittery Pt., 27 June, ♂, 7 July, ♂; Farmington, 20 May, ♂, Kellyland (Princeton), 7 July, ♂; T11R10 (Horseshoe Mt.), 27 June, ♂.
- 3242 *laevitans* Smith Kittery Pt., 6 June, ♂, 12 June, ♂, 13 June, ♀, 16 June, ♂, 18 June, 25 June, 30 June, ♂; Vassalboro, 14 June, ♂, 15 June, ♂, 16 June, ♂, 18 June, ♂.

Genus AUTOGRAPHIA Hubner 1816 (SYNGRAPHIA Hubner [1821])

- 3246 *microgamma nearetica* Ferguson Oquossoc, 9 July, ♀; Klondike Basin, Mt. Katahdin, 7 July, ♂; T18R12 (Rocky Mt.), 6 July, ♂.
- 3246.1 *montana* Packard 16 localities, 30 May - 31 July, 16 ♂; 17 June - 15 July, 6 ♀. Notes: Bar Harbor, Flies especially in midafternoon, very swiftly; Bar Harbor, The Heath one or more seen; Mt. Desert, (Somerville) several seen; Harrington, several seen; Passadumkeag, seen at flowers and flushed from bog plants; St. Francis at light.
- 3252 *falcifera* Kirby Celery Looper Farmington, 25 May, ♂, 25 May, ♂, 29 May, ♂, 30 May, ♂, 4 June, ♂, 9 June, ♂, 13 June, ♂, 15 June, ♂; West Gardiner, 31 May, at flowers, 3 p.m., warm, partly cloudy; Augusta, 23 May, ♂, 24 May, ♂, 26 May, ♂♀, 3 June on lilac, 7 June on lilac; Vassalboro, 18 May, ♂, 19 May, ♂, 31 May, ♂♂, 5 June, ♂, 6 June (3-), 7 June (4-1), 13 June (2-1), 14 June (4-); Orono, 26 May - 3 October, 611 ♂, 4 ♀; Lincoln, 4 June, ♂♂, 5 June, ♂; Bar Harbor, 3 June, ♂♂; Dennysville, 8 June, ♂; T9R5 (Oxbow), 9 July, ♀; Ashland, 20 June, ♂, 28 June, ♂.
- form *simplex* Guenée 35 localities, 16 July - 9 November, 94 ♂; 18 July - 14 November, 19 ♀.
- 3254 *rectangula* Kirby 44 localities, 1 July - 9 August, 494 ♂; 3 July - 28 August, 542 ♀.
- Note: Three additional species of *Autographa* have recently been discovered in the northeastern United States and adjacent Canadian provinces. Two undescribed species have been associated with *rectangula* and *alias*. *Viridisigma* Grote is a good species. Maine is in the range of these species.
- 3254.1 new species
- 3256 *angulidens excelsa* Ottolengui (*excelsana* Strand) Masardis, 24 July, ♂♂; Mt. Katahdin, 21 July.
- 3257 *alias* Ottolengui 46 localities, 7 June - 12 August, 352 ♂; 18 June - 17 August, 242 ♀.
- 3257.1 new species
- 3258 *u-aureum vacinii* Henry Edwards Old Spec Mt., 4000 feet, top, 1 August, ♀; Franklin Co., 25 July, ♂♂ (V.H. dos Passos); Mt. Bigelow, 4150 feet, 2 August (1-2) at goldenrod flowers; Mt. Katahdin, 4600 feet, 24 July, ♂♀.
- 3259 *altera* Ottolengui 13 localities, 9 July - 17 August, 9 ♂; 6 July - 16 August, 10 ♀.
- 3260 *octoscripta* Grote 34 localities, 29 June - 20 October, 122 ♂; 4 July - 31 August, 106 ♀.
- race *variana* Ottolengui Augusta, 16 July, ♂; Sebec Lake (U.S.N.M.); Bar Harbor, 6 - 12 July; Millinocket, 15 July, ♀, 17 July, ♂♂; T9R5

- (Oxbow), 23 July, ♀; Guerette, 29 July, ♂; Kellyland (Princeton), 15 July, ♂. May be maritime race of *altera* Ottolengui. Described from St. Johns, N. B.
- 3263 *surena* Grote Orono, Type locality; Guerette, 29 July, ♂.
- 3264 *epigaea* Grote 41 localities, 8 July - 14 September, 108 ♂; 21 July - 7 September, 35 ♀.
- 3265 *ampla* Walker 53 localities, 16 June - 19 August, 591 ♂; 23 June - 6 August, 134 ♀.
- 3266 *selecta* Walker 56 localities, 4 July - 18 September, 612 ♂; 12 July - 4 September, 247 ♀.
- 3266.1 *viridisigma* Grote
- 3268 *verruca* Fabricius Kittery Pt., 15 September; (Hampton, New Hampshire, 27 August, ♂).
- 3269 *brassicae* Riley (nī Hübner), Cabbage Looper Farmington; Augusta, 8 August, ♀, 14 August, ♂, 17 August, ♂, 26 August, ♂, 22 September, ♀ actively flying at 1 p.m., clear and hot, about 84°, still, about home; Vassalboro, 18 August, ♂♀; Bar Harbor, 7 August, ♂, 10 August, ♀, 26 August, ♂, 30 October, ♂; Lincoln, 31 July, ♂.
- 3270 *basigera* Walker Kittery Pt., 29 July, ♂, 5 September, ♀; Skowhegan (1) (Hitchins).
- 3272 *rubida* Ottolengui 17 localities, 29 May - 29 July, 105 ♂, 4 June - 10 July, 5 ♀.
- 3273 *putnami* Grote 51 localities, 24 May - 3 October, 742 ♂; 30 May - 30 October, 95 ♀.
- 3275 *contexta* Grote 16 localities, 3 June - 31 August, 180 ♂; 11 July - 22 July, 20 ♀.
- 3277 *oxygramma* Geyer Kittery Pt.; Farmington, 13 September, ♀; Orono, 2 September (5-1); Lincoln, ♀ (Clayton); Bar Harbor, 19 September.
- 3279 *biloba* Stephens 19 localities, 5 June - 21 October, 41 ♂, 26 May - 3 October, 14 ♀.
- 3280 *oo* Cramer (*includens* Walker) Kittery Pt.; York Beach, 14 October; Farmington, 13 August, ♂, 13 September, ♂, 26 September, ♂♀, Augusta, 17 September, ♀, 6 October; Vassalboro, 8 September (2-1), 12 September, ♂♂, 17 September (3-), 24 September (1-6), 5 October, ♂, 6 October (11-3), 9 October, ♂, 22 October, ♂; Orono, 13 July, ♂; Bar Harbor, 10 September, ♂, 11 September, ♂, 10 October, ♀, 13 October, ♀♀.
- 3281 *preactionis* Guenée 32 localities, 26 May - 31 October, 727 ♂; 21 May - 22 October, 197 ♀.
- 3285 *bimaiculata* Stephens 44 localities, 21 June - 29 August, 723 ♂, 6 July - 28 August, 192 ♀.
- 3286 *mappa* Grote & Robinson 55 localities, 21 June - 5 August, 482 ♂; 1 July - 4 August, 169 ♀.
- 3287 *pseudogamma* Grote 33 localities, 13 June - 4 August, 598 ♂, 17 June - 5 August, 110 ♀.
- 3291 *flagellum* Walker 29 localities, 28 June - 4 August, 193 ♂; 6 July - 13 August, 28 ♀.

Genus *PLUSIA* Ochsenheimer 1816

- 3295 *acroides* Grote 41 localities, 13 June - 10 August, 796 ♂; 4 July - 8 August, 73 ♀.

- 3296 *areca* Hübner Kittery Pt., 21 August, ♂♂, 15 September, ♂; Farmington, 27 June, ♂, 2 July, ♂, 31 July, ♂♂, 2 September, ♂, 3 September, ♂, 4 September, ♂, 10 September, ♂, 18 September, ♂, 21 September, ♀, 24 September, ♂, 25 September, ♂, 30 September, ♀, 3 October, ♂; Augusta, 25 June, 1973, ♂♂, 28 June, ♀, 2 July, ♂♂♀, 12 July, ♂, 16 July, ♀, 28 August, ♀, 31 August, ♂, 5 September, ♀, 13 September, ♂♂, 16 September, ♂, 18 September, ♂♀, 30 September; Vassalboro, 13 June, ♂, 16 June, ♂, 17 June, ♀, 18 June, ♂♂, 20 June, ♂, 21 June (2-1), 22 June, ♂♂, 24 June, ♂♂, 25 June, ♂, 27 June, ♂♂, 28 June, ♂, 12 July, ♂, 2 August, ♂, 5 August, ♂♂, 7 August, ♂, 10 August, ♂, 11 August, ♂♀, 18 August (3-2), 19 August, ♂♂, 21 August, ♂♂, 22 August, ♂♂, 25 August, ♂♂, 28 August, ♂♂, 30 August, ♂♀, 31 August, ♂♂, 3 September (3-), 5 September, ♂♀, 7 September, ♀, 8 September, ♂♀, 9 September, ♂, 13 September, ♂, 15 September (3-1), 17 September, ♂; Unity, 3 September (2-1), 9 September, ♂; Bar Harbor, 11 September, ♀; Greenville, 9 July, ♂; T8R19 (Clayton Lake), 11 July, ♂; T9R5 (Oxbow), 18 July, ♂, 5 August, ♂.

- 3297 *balluca* Geyer 47 localities, 13 June 13 August, 562 ♂; 5 July - 10 August, 44 ♀.

Genus EOSPHILOPTERYX Dyar 1902

- 3300 *thyatiroides* Guenée 23 localities, 21 June 21 August, 74 ♂; 12 July - 28 August, 14 ♀.

Genus PSEUDEVA Hampson 1913

- 3301 *purpurigera* Walker 39 localities, 8 July 17 August, 181 ♂; 11 July - 10 August, 22 ♀.

Genus PALAEOPLUSIA Hampson 1913

- 3304 *venusta* Walker 30 localities, 7 July 12 August, 95 ♂; 7 July 23 August, 23 ♀.

Genus CHRYSANYMPHA Grote 1896

- 3305 *formosa* Grote 38 localities, 5 July - 10 August, 121 ♂; 13 July - 6 August, 17 ♀.

Genus ABROSTOLA Oechsenheimer 1816

- 3307 *urentis* Guenée 25 localities, 5 July 9 August, 76 ♂; 4 July 2 August, 18 ♀.

Genus CATOCALA Schrank 1802

- 3312 *piatrix* Grote Kittery Pt., ♂.
 3313 *consors sorseoni* Barnes & Benjamin "Maine" ♂. One of the types was labelled Maine. (See also *coelebs*.)
 3314 *epione* Drury York, 14 July, ♂ (Hamilton); Bingham?, a somewhat flown specimen labeled "Local Aug." in Kate Burke's collection. This collection was made at Bingham; place of capture is quite uncertain.
 3315 *muliercula* Guenée "Maine"? Two unlabelled specimens in Hitchins collection which he believes are Maine specimens.

- 3316 **antinympa** Hübner 18 localities, 17 July 23 September, 58 ♂; 28 July 4 September, 6 ♀. The larvae may be swept from sweet fern, *Myrica asplenifolia*.
- 3317 **coelebs** Grote 20 localities, 25 July - 18 August, 58 ♂; 28 July 28 September, 38 ♀. Very local with sweet gale, *Myrica gale*, from which larvae were beaten and reared. The Maine record of *serena*, Maine Nat. IV:30 is *coelebs*.
- ?hybrid **phoebe** Henry Edwards Kennebunkport, 11 August, ♀; this specimen of *phoebe*, has pattern of *badia-phoebe*, Carnegie Museum, June 1971. Portland, ♂; Chebeague, 20 August, 1920, ♂; Biddeford, 31 July, ♂. 2 August, ♀. This uncertain name applies to specimens more or less intermediate to *badia*.
- 3318 **badia** Grote & Robinson Kittery Pt., ♂, 5 August; Biddeford, 31 July, 1908 (Winn).
- 3319 **habilis** Grote York, 20 September, 1907, ♂? (Hamilton); Gorham, July, 1963, ♀.
- 3320 **serena** Edwards "Maine"? in Hitchins collection, one thought to be from Maine by Hitchins; "Maine" recorded at Canton? by J. C. Parlin; his picture of it in The Maine Naturalist is of *coelebs*.
- *3321 **robinsoni** Grote This was taken by Shaw at Hampton, New Hampshire, 22 August, 1910, ♂. and in all probability occurs in Maine at times in August and September.
- *3322 **judith** Strecker Lee, New Hampshire, 16 August, 1971, ♂. Found with native hickory July and August.
- 3326 **resolva** Grote Kittery Pt., ♀; York, 19 September, 1907, ♂ (Hamilton); Portland, 16 August, 1966, ♂♂.
- 3329 **recta** Grote Kittery Pt.; York, 20 September, 1907, ♀ (Hamilton); Augusta, 15 August, 1957, ♀; "Maine", Hitchins collection; Camden, 27 August, ♂.
- 3332 **insolabilis** Guenée Kittery Pt.
- 3333 **vidua** Abbot & Smith Kittery Pt.; "Maine", the Hitchins collection contains two that Sam Hitchins thinks are from Maine.
- 3336 **palaeogama** Guenée Kittery Pt.; "Local" July 28 in Kate Burke's collection made at Bingham, place of capture is uncertain; T18R12 (Rocky Mt.), 31 July, ♂, at black light, a long flight from hickory. form **annida** Fager South Potrland, ♂ (William Rogers).
- 3338 **subnata** Grote Bar Harbor, 10 August, ♂. A rare species from Nova Scotia to Manitoba.
- 3339 **neogama** Abbot & Smith Kittery Pt.; Augusta, 9 September, ♀, 17 September, ♀ (at bait); Vassalboro, 8 September, ♂, 10 September, ♂; Northeast Harbor, 26 August, ♂; Lincoln. Larvae found and reared on white walnut or butternut.
- 3342 **ilia** Cramer 10 localities, 25 July 3 August, 12 ♂; 26 July 24 August, 7 ♀. Larvae have been found on red and white oak and reared.
- 3343 **cerogama** Guenée 11 localities, 17 July - 6 September, 9 ♂; 7 August 23 September, 6 ♀. Larvae collected from and reared on basswood.
- 3344 **relieta** Walker 14 localities, 31 July 11 October, 42 ♂; 23 July 19 September, 17 ♀.
- form **phrynea** Henry Edwards Hope, 17 August, 23 September, Camden, 6 September at bait; Bar Harbor, 4 September, 14 September, ♂.
- form **clara** Beutenmuller Cornish, 23 September, ♀; Farmington, 27

- August, ♀, 31 August (4-1), 1 September, ♂, 18 September, ♀, 19 September, ♂♂, 23 September, ♂, 24 September, ♀, 26 September (7-), 28 September, ♂, 30 September, ♀♀, 4 October, ♂, 20 October, ♂, 29 October, ♀; Monmouth, 5 August, ♂, 14 August, ♂, 21 August, ♂♀, 29 August, ♂, 1 September, ♂, 5 September, ♂ (J. H. Brower); Augusta, 20 August, ♂, 26 August, ♂, 4 September, ♂, 8 September, ♀, 15 September, 20 September, ♀, 22 September, ♀; Vassalboro, 2 September, ♂, 20 September, ♀, 9 October, ♂; Hope, 26 July, 2 August, 9 August, 19 August (5), 22 August, 11 September, 23 September. All three forms have been reared on trembling aspen.
- 3346 **unijuga** Walker 15 localities, 25 July - 11 October, 40 ♂: 8 July - 18 October, 17 ♀.
form **agatha** Beutenmuller Vassalboro, 30 July, ♂; Farmington, 31 August, ♂, 9 September, ♂, 13 September, ♂, 20 September, ♂, 30 September, ♂; Kingfield, 25 September, ♂ (Maynard Atwood); Greenville, 28 July, ♂; T2R6 (Big Squaw Mt.), 29 July, ♂; Bar Harbor, 5 September; Topsfield, 24 July, ♂. Reared on aspen and willow.
- 3347 **parta** Guenée 11 localities, 2 August - 7 October, 19 ♂; 8 July - 1 October, 11 ♀. Reared on willow.
- 3357 **briseis** Edwards 13 localities, 18 July - 26 September, 21 ♂: 31 July - 10 September, 6 ♀.
form **briseana** Strand Vassalboro, 28 September, ♂; Benton, 15 August, ♂; Hope, 8 August, ♀, 16 August; Camden, August. Reared on aspen.
- 3361 **semirelieta** Grote 12 localities, 16 July - 28 September, 18 ♂; 28 July - 26 September, 9 ♀.
form **atala** Cassino Orono, ♀. Reared on hybrid poplar.
- 3362 **meskei** Grote Augusta, 6 August, ♂, 15 August, ♀, 22 August, ♂, 30 August (1-2), 9 September, ♂; Wilton, 14 July, ♂; Farmington, 5 August, ♀, 9 August, ♂, 18 August, ♂♀, 19 August, ♀, 20 August, ♂♂, 22 August, ♂, 7 September, ♂, 29 September; Camden, 23 August, ♂.
form **krombeini** Franclemont Augusta, 7 August, ♂.
- *3372 **cara** Guenée Hampton, New Hampshire, a series, 15 August, ♂, 25 August, ♂, 17 September, ♀.
- 3373 **concupiens** Walker 15 localities, 27 July - 28 September, 57 ♂; 12 August - 6 October, 25 ♀. Larvae reared on aspen.
- 3374 **amatrix** Hübner Augusta, 14 September, ♂, 19 September, ♂.
- 3385 **sordida** Grote 16 localities, 23 July - 28 August, 39 ♂; 25 July - 28 August, 15 ♀.
form **metalomus** Mayfield Lincoln; Bar Harbor, 6 - 17 August, 18 August. Larvae feed on blueberry, *Vaccinium*.
- 3386 **gracilis** Edwards Sebago Lake, 3 August, ♂; Brunswick, 30 August; Farmington, 25 July, ♂, 10 August, ♂♂, 15 August, ♂, 16 August, ♂; Hope, 7 August, 9 August, ♂, 17 August, ♂, 22 August, ♂; Mt. Desert, 22 August, ♂; Bar Harbor, 22 August, ♂; Lincoln, 4 August, ♂ (Grey).
- 3387 **andromedae tristis** Edwards Kittery Pt.; York, 28 July, ♂ (Hamilton).
- 3389 **coccinata** Grote Norway, 5 August, ♀ (Hamilton); Augusta, 16 July, ♂; Vassalboro, 16 August, ♂; Hope, 17 August; Camden, 26 August, ♂, August (4); Bar Harbor, 7 August, 16 August, ♂, 20 August; Kingfield, 8 August, ♂. Reared on red oak.

- 3395 **ultronia** Hübner 18 localities, 5 July - 10 September, 40 ♂; 23 July - 28 September, 22 ♀. Reared on wild cherry.
- 3396 **crataegi** Saunders 19 localities, 4 July - 8 September, 38 ♂; 7 July - 30 August, 19 ♀. Reared on *Crataegus*, hawthorn.
- 3396.1 **pretiosa** Lintner Kittery Pt., 17 July, ♂, 20 July, ♂, 28 July, ♂, 7 August, ♀, 24 August, ♀. This may or may not be distinct.
- 3398 **grynea** Cramer Augusta, 25 July, ♂, 2 August, ♂, 22 August, ♀, 30 August, ♀, 2 September, ♂; Vassalboro, 1 August, ♂, 10 August, ♂, 14 August (2-2), 15 August (3-1), 16 August (5-), 18 August (2-1), 19 August (2-1), 24 August, ♂♂, 28 August (2-1), 31 August, ♂♀, 2 September, ♂, 3 September, ♂, 9 September, ♂, 11 September, ♂, 28 September, ♂; Farmington, 27 August, ♂, 3 September, ♀, 13 September, ♂; Camden, scarce, Lincolnville, scarce.
- 3399 **praeclara** Grote & Robinson 15 localities, 17 July - 31 August, 26 ♂, 2 - 16 August, 3 ♀.
- 3401 **blandula** Hulst 19 localities, 12 July - 3 September, 34 ♂; 27 July - 28 August, 22 ♀.
- 3407 **similis** Edwards Norway, 27 July, ♀ (Hamilton).
- 3410 **miconympha** Guenée Hampton, New Hampshire, 22 July, ♀, 28 July, ♀. Found with red and white oak, July and August.
- 3411 **connubialis** Guenée Kittery Pt., 16 August; Norway, 31 July, ♀, 6 August, ♂, 7 August ♂ (Hamilton); Skowhegan (2) Hitchins collection; Farmington, 25 July, ♂♂, 3 August, ♀, 9 August, ♀, 15 August, ♂; Hope, 2 August (4-1), 3 August (2), 9 August (2), 15 August, 17 August; Camden, 3 August, 27 August; Lincolnville, 22 August; Unity, 10 August, ♂.
- form **cordelia** Henry Edwards Hope, 10 August, ♀. This has been reared on red oak.
- 3412 **amica** Hübner Portland, 16 August, ♂; Hallowell, 16 August, ♂; Augusta, 6 August, ♂; Vassalboro, 31 July, ♂; "Maine" (2) Hitchins collection; Camden, 23 August.
- form **lineella** Grote Bar Harbor, 18 August, ♂.

Genus **EUPARTHENOS** Grote 1876

- 3414 **nubili** Hübner Farmington, 14 July, ♀, 18 July, ♂, 20 July, ♂; Augusta, 23 June, ♀, 24 June, ♂, 5 July, ♂, 11 July, ♀, 13 July, ♀, 31 July, ♂; Vassalboro, 29 June, ♂; Orono, 14 June - 10 September (15-3); Lincoln, 24 June, ♂♀, 17 July, ♀, 19 July, ♀, 20 July, ♀, 30 July, ♂; Enfield, 26 June, ♂, 16 July; Dennysville, 5 August, ♀; Bar Harbor, 11 June - 25 July.
- form **fasciata** Beutenmuller Bar Harbor, 20 June.

Genus **ALLOTRIA** Hubner 1816

- 3415 **elonympha** Hübner Kittery Pt.; Hampton, New Hampshire, 7 July, ♀, 15 July, ♂.

Genus **PARALLELIA** Hubner 1816

- 3422 **bistriaris** Hübner 44 localities, 7 June - 9 August, 115 ♂; 12 June - 11 August, 50 ♀.

Genus EUCLIDINA McDunnough 1937 (EUCLIDIA Hubner 1806)

- 3426 *cuspidea* Hübner 37 localities, 25 May - 13 August, 118 ♂; 14 June - 9 August, 28 ♀.

Genus CAENURGINA McDunnough 1937

- 3430 *crassiuscula* Haworth, Clover Looper 53 localities, 5 April - 30 October, 1972 ♂; 7 May - 28 August, 288 ♀.
 3431 *erechtea* Cramer, Forage Looper Biddeford, 5 August, ♀ (Gobeil); Tim Pond, 4 August, ♀♀; Augusta, 19 September, ♂. Most of the reports of this species in Maine are doubtless erroneous.

Genus MOCIS Hubner 1816

- 3435 *texana* Morrison Jonesboro, 17 August, ♂.

Genus ARGYROSTROTIS Hubner 1816

- *3457 *quadrifilaris* Hübner Hampton, New Hampshire, 3 July, ♂, 4 July, ♀.

Genus DORYODES Guenee 1857

- 3461 *grandipennis* Barnes & McDunnough (*bistrialis* Geyer) Kittery Pt., 5 June, ♂; York Beach (Farquhar); Higgins Beach, 30 August, ♀ (Brower); Brunswick, 1 June, ♀; Bar Harbor, 19 July; Trenton, 16 August, ♂ (Brower); Southwest Harbor (Brower); Pretty Marsh, Mount Desert (Brower). In coarse seashore grasses. Now considered a distinct species.

Genus ZALE Hubner 1816

- 3474 *lunata* Drury Farmington, 10 May, ♂♂; Augusta, 4 September, ♀, 11 September, ♂, 3 October, ♂, 11 October, ♂; Lincoln, 20 July, ♂; Bar Harbor, 8 November, ♂; East Machias, 5 November, ♂; Robbinston, 6 November, ♂♀; Allagash, 24 July, ♀. Statewide, but rather rare.
 3476 *unilineata* Grote Augusta, 29 May, ♂; Farmington, 17 May, ♂, 29 May, ♂, 30 May, 9 ♂♂, 9 June, ♂; Mt. Vernon, 30 April, ♂, 1 June, ♀, 5 June, ♂, 10 June, ♂; Vassalboro, 2 June, ♂; Lincoln, 27 June, ♂; Houlton, 26 June, ♀.
 *3478 *galbanata* Morrison (*lunifera* Hübner, *lineosa* Walker) New Hampshire. See Forbes, 1954, pp. 352-355.
 *3478.1 *phaeocapna* Franclemont Webster, New Hampshire, 4 May, ♂.
 3480 *aeruginosa* Guenee Kittery Pt.; Norway (1); Farmington, 11 July, ♀; Mt. Vernon, 9 June, ♂; Augusta, 23 May, ♂, 7 June, ♂; Vassalboro, 27 May, ♂, 2 June, ♂, 12 June, ♂, 19 June, ♂; Oquossoc, 26 June, ♀, 28 June, ♂, 10 July, ♀; Passadumkeag, 1 June, ♂; Lincoln, 29 May, ♂, 3 June, ♂, 18 June, ♀; Bar Harbor, 22 June. Reared from spruce.
 3481 *undularis* Drury Farmington, 2 June, ♀, 14 June, ♀, 22 June, ♂, 2 July, ♀; Mt. Vernon, 11 June, ♂♂; Augusta, 23 May, ♂♂, 2 June, ♂, 5 June, ♀, 10 June, ♀, 14 June, ♂, 18 June, ♀, 22 June, ♂, 26 June (2-1), 2 July, ♂, 12 July, ♀; Vassalboro, 22 June, ♂.
 3484 *minerea* Guenee 25 localities, 24 April - 12 July, 64 ♂; 12 May - 15 July, 33 ♀.

- 3485 *lunifera* Hübner = 3478? Augusta, 30 May, ♂, 2 August, ♂♂, 6 August, ♂. Perhaps this should be called *galbanata*.
- 3487 *obliqua* Guenée Orono, Maine Agricultural Experiment Sta., No. 1638, No. 332.
- 3489 *benesignata* Harvey Vassalboro, 6 June, ♂♂, 7 June, ♂; Bar Harbor, 22 May, ♂, 3 June, ♀♀.
- 3490 *duplicata* Bethune Kittery Pt.; Dixfield, 6 June, ♀; Farmington, 17 May, ♂♂, 18 May, ♂♀, 19 May, ♂, 20 May, ♂, 3 June, ♀, 6 June, ♀, 10 June, ♂, 24 June, ♀, 25 June, ♂♂; Augusta, 28 June, ♀; Vassalboro, 7 June, ♂, 19 June, ♂; Enfield, 8 May, ♂; Lincoln (Clayton); Bar Harbor, 8 May, ♂, 12 May, ♂, 3 June, ♀; Northeast Harbor, 25 May, ♀; Houlton, 15 June, ♀.
- 3491 *helata* Smith Farmington, 5 May (3-), 7 May, ♂, 8 May, ♂♂, 13 May, ♂, 17 May (2-1), 18 May (4-), 19 May, ♂, 20 May, ♂♂, 21 May, ♂, 27 May, ♂, 6 June, ♂♀, 9 June, ♀, 23 June, ♀; Passadumkeag, 6 May, ♂; Vassalboro, 7 June (3-1), 23 June, ♂; Wyman Dam (Bingham), 18 June, ♂.
- 3492 *bethunei* Smith "Maine" fide Forbes p. 354.
- 3499 *cingulifera woodi* Grote Farmington, 28 April, ♂, 1 May, ♂, 5 May, ♂, 8 May, ♂♀, 9 May (3-1), 10 May, ♂♂, 13 May, ♂♂, 15 May, ♂, 16 May (3-), 17 May (5-1), 18 May (4-2), 20 May (8-2), 21 May, ♂, 23 May (3-), 24 May, ♂, 25 May (3-), 26 May, ♂♀, 27 May, ♂♂, 30 May (4-), 31 May (3-), 1 June, ♀♀, 4 June, ♂, 6 June, ♀, 9 June, ♀♀, 13 June, ♂, 18 June, ♂♂; Mt. Vernon, 5 June, ♂♀; Vassalboro, 30 April, ♂, 18 May, ♂, 26 May, ♀, 27 May, ♂♀, 2 June, ♂, 4 June, ♂; Lincoln (Clayton).
- 3500 *ealycanthata* Abbot & Smith Norway.
- 3501 *horrida* Hübner 12 localities, 25 May 9 July, 32 ♂; 6 June 9 July, 13 ♀.

Genus *EREBUS* Latreille 1810

- 3525 *odora* Linnaeus Portland, 6 August, ♂; Salem, 25 September; Skowhegan, ♂ (Sam Hitchins coll.); Monmouth, 26 August (J. H. Brower); Bar Harbor, 2 August, ♂; Orono, July, ♂; Islesford, ♂.

Genus *THYSANIA* Dalman 1824

- 3526 *zenobia* Cramer Norway, 23 September, ♀ (C. B. Hamilton).

Genus *MASSALA* Walker 1865

- 3533 *obvertens* Walker Kittery Pt., 15 August, ♂.

Genus *PANAPODA* Guenée 1852

- 3534 *rufimargo* Hübner 20 localities, 11 June - 18 August, 201 ♂; 2 July 23 September, 32 ♀.
- 3535 *carneicosta* Guenée Kittery Pt., 20 July, ♂; 2 or 3 in A.M.N.H.

Genus *CISSUSA* Walker 1856

- *3539 *spadix* Cramer Hampton, New Hampshire, 6 May, ♀♀, 26 July, ♀.

Genus MELIPOTIS Hubner 1816

- 3549 *indomita* Walker (*nigrescens* Grote & Robinson) Kittery Pt., 3 September, ♂.

Genus DRASTERIA Hubner 1816

- 3562 *occulta* Henry Edwards North Gray, 12 June; Topsham, 28 May, ♂♂, 31 May (6-); Augusta, 21 June, ♂; Lincoln (Clayton); T9R18, (Hardwood Mt.), 26 July, ♂. Millions of moths, evidently this species, were recorded by Dirks the third week in June, 1928 in blueberry fields in western Maine. This species, *atlantica* and *S. alleni* have been confused.
- 3563 *graphica atlantica* Barnes & McDunnough North Gray, 12 June; Unity, 22 June, ♂, 23 June, ♂, 28 June, ♂. Is usually found about coastal sand dunes.

Genus SYNEDOIDA Henry Edwards 1878

- 3565 *grandirena* Haworth Kittery Pt., 10 June, ♀, 20 June, ♂; Kennebunk, 8 July, ♂ (flying 7:30 a.m.) (Brower); Monmouth; Augusta, 1 July, ♂, 4 July, ♂, 12 July, ♂, 13 July, ♀, 14 July, ♂; Vassalboro, 23 July, ♀, 26 July, ♀; Hampden (Grey).
- 3578 *adumbrata alleni* Grote 13 localities, 12 June 29 July, 27 ♂; 7 July 15 July, 5 ♀. The type of *alleni* was taken at Orono.

Genus ANTICARSIA Hubner 1816

- 3590 *gemmatilis* Hübner, Velvetbean Caterpillar Farmington, 13 September, ♂♀; Vassalboro, 6 October, ♂, 18 October, ♂, 26 October, ♀; Camden, 7 November, ♂♀; Surry, 5 November (2-4); Bar Harbor, 16 June; West Pembroke, 5 November, ♀, 6 November, ♀; Lincoln (Clayton).

Genus ANTIBLEMMA Hubner 1816

- 3593 *inexacta* Walker Camden, 4 September, 1971, ♂.

Genus CALPE Treitschke 1825

- 3608 *canadensis* Bethune 51 localities, 1 July 13 August, 475 ♂; 14 July 5 August, 10 ♀.

Genus HYPBOROPHA Hubner 1816

- 3610 *monilis* Fabricius "Woods of Maine" U.S.N.M.

Genus HYPOCALA Guenee 1852

- 3614 *andremona* Cramer Kittery Pt., 15 September, ♀; Farmington, 13 September, ♀.

Genus SCOLIOPTERYX Germar 1812

- 3615 *libatrix* Linnaeus 40 localities, 9 April - 7 November, 68 ♂; 5 May - 14 August, 29 ♀. The moth overwinters.

Genus ALABAMA Grote 1895

- 3616 *argillacea* Hübner. Cotton Leafworm 11 localities, 5 August - 5 November, 87 ♂; 17 September - 5 November, 93 ♀. Several localities give "many" "series" "flight"

Genus ANOMIS Hubner 1816

- 3617 *erosa* Hübner Kittery Pt., 2 September, ♂, (3).
3618 *flava fimbriata* Stephens Hampton, New Hampshire, 20 October, ♂.

Genus GABARA Walker 1866 (SCOLECOCAMPA Guenee 1852)

- 3632 *bipunctata* Morrison (*subnivosa* Walker) North Gray, 6 July, ♂ (Rupert); Sanford, 8 July, ♂ (Brower); Biddeford, 9 July, ♂ (Winn); Baxter State Park, 14 - 18 July, ♂ (Hessel)

Genus PANGRAPTA Hubner 1816

- 3650 *decoralis* Hubner 47 localities, 15 June - 18 August, 204 ♂; 17 June - 18 August, 114 ♀.

Genus METALECTRA Hubner 1825

- 3651 *discais* Grote Farmington, 18 July, ♂, 22 July, ♀; Augusta, 20 July, ♂, 28 July, ♂; Bar Harbor, 10 July; T9R5 (Oxbow), 2 August, ♀.
3652 *quadri-ignata* Walker 50 localities, 25 June - 11 August, 652 ♂; 6 July - 6 August, 32 ♀.

Genus PHYTOMETRA Haworth 1810 (PROTHYMIA Hubner 1816)

- *3678 *rhodarialis* Walker (*ernestina* Blanchard) Hampton, New Hampshire, 23 June, ♂; Lee, New Hampshire, 9 August, ♂.

Genus SPARGALOMA Grote 1873

- 3684 *expunctata* Grote 28 localities, 13 June - 5 August, 159 ♂; 13 June - 29 July, 12 ♀.

Genus LEGNA Walker 1865

- 3685 *perditalis* Walker Naples, Sebago Lake, 15 August, ♂; Winthrop, 9 June, ♂; Augusta, 13 July, ♀; Vassalboro, 9 June, ♀, 18 June, ♂, 6 July, ♂, 22 July, ♂; Unity, 28 June, ♀, 2 August, ♀, 14 August, ♂; Lincoln, 2 August, ♀; Kellyland (Princeton), 18 July, ♂.

Genus BOMOLOCHA Hubner 1816

- 3687 *manalis* Walker Unity, 22 June; Bangor, 10 July, ♀.
3688 *baltimoralis* Guenee 38 localities, 1 June - 12 September, 145 ♂; 2 June - 12 September, 194 ♀.
3689 *bijugalis* Walker (equals 3698 *toreuta* Grote) 32 localities, 8 July - 6 August, 21 ♂; 2 July - 30 July, 68 ♀.
3690 *palparia* Walker 42 localities, 15 June - 14 August, 213 ♂; 29 June - 13 August, 206 ♀. Reared from spruce and fir.
3691 *abalinealis* Walker 15 localities, 31 May - 18 August, 39 ♂; 25 May - 18 August, 15 ♀.

- 3692 *deceptalis* Walker 19 localities, 30 June 18 August, 29 ♂; 5 June - 26 August, 28 ♀.
- 3693 *madefactalis* Guenée Farmington, 14 August, ♀♀, 18 August, ♂; Augusta, 28 May, ♀, 26 June, ♀♀, 4 July (4-), 11 July, ♀, 16 July, ♀, 20 July, ♀; Vassalboro, 4 June, ♀, 14 June, ♂, 4 July, ♀, 7 August, ♀; Kingfield, 11 July, ♂, 14 July, ♀; Lincoln, 5 July, ♀, 7 July, ♀, 15 July, ♀; Long A. (Millinocket), 31 July, ♂; Ashland, 18 July, ♂.
- 3694 *sordidula* Grote Lincoln, 10 July, ♂ (Grey).
- 3696 *atomaria* Smith 11 localities, 12 29 July, 12 ♂; 7 July 2 August, 19 ♀. A western species which enters northwest Maine.
- 3699 *edietalis* Walker 20 localities, 6 July 10 August, 83 ♂; 15 July 15 August, 29 ♀. Northwest Maine rarely eastward.
- 3701 *citata* Grote. (*minualis* Guenée) Surry, 6 November, ♂; Bar Harbor, 16 October.

Genus LOMANALTES Grote 1873

- 3703 *eductalis* Walker 50 localities, 27 May - 13 August, 212 ♂; 26 May - 24 August, 106 ♀. Augusta an adult ♂ emerged 28 May from larva found previous August on a bog and fed bog plants.

Genus PLATHYPENA Grote 1873

- 3705 *scabra* Fabricius, Green Cloverworm 33 localities, 8 July 25 November, 78 ♂; 28 June 25 November, 72 ♀. Augusta emerged from bean September (♂), emerged from clover September (♀♀); 11 November ♀ flying in afternoon, reared on beans.

Genus HYPENA Schrank 1802

- 3706 *humuli* Harrison, Hop Looper 18 localities, 30 May 29 August, 7 ♂; 5 June - 2 November, 16 ♀.

Genus MYCTEROPHORA Hulst 1896

- 3712 *inexplicata* Walker 42 localities, 3 July 14 August, 275 ♂; 17 July - 29 July, 9 ♀.

Genus DYSPYRALIS Warren 1891

- 3716 *illocata* Warren 18 localities, 4 July 24 August, 261 ♂; 9 July 17 August, 10 ♀.
- 3717 *puncticosta* Smith Sebago Lake (Naples), 1 July (4-), 27 July (4-), 30 July (7-), 1 August (25-), 2 August (5-), 3 August (6-), 4 August (4-), 5 August (5-), 8 August (5-), 10 August (7-), 11 August (18-), 12 August (26-). 13 August (4-), 15 August, ♂♂, 19 August, ♂, 23 August (3-), 26 August, ♂.
- 3719 *nigellus* Strecker Sebago Lake (Naples), 27 July, ♂♂, 30 July (3-), 1 August (15-1), 2 August, ♂♀, 5 August, ♂♂, 11 August, ♂, 12 August (3-).

Genus MELANOMMA Grote 1875

- 3720 *auricinetaria* Grote Sebago Lake (Naples), 24 31 July, ♂ (McDunnough); Kellyland (Princeton), 4 August, ♂.

Genus MENOPSIMUS Dyar 1907 (HYPENODES Doubleday 1850)

- 3728 *caducus* Dyar 27 localities, 3 July 6 September, 128 ♂; 4 July 18 August, 18 ♀.
- 3728.1 *sombros* Ferguson 35 localities, 5 July 13 August, 179 ♂; 10 July - 4 August, 32 ♀.
- 3728.2 *fractilinea* Smith 25 localities, 5 July 11 August, 68 ♂; 14 July 24 August, 8 ♀.
- 3728.3 *palustris* Ferguson 31 localities, 23 June 12 August, 76 ♂; 30 June - 30 July, 18 ♀.
- 3728.4 *franclemonti* Ferguson Waterford, 30 July, ♂; Bar Harbor, 20 July, ♂, 30 July, ♂, 27 August, ♂; Long A (Millinocket), 21 July, ♂; Greenville, 25 July, ♂; Estcourt Station, 17 July, ♂.

Genus PARAHYPENODES Barnes & McDunnough 1918

- 3729 *quadrals* Barnes & McDunnough 21 localities, 7 July 5 August, 46 ♂; 16 July -15 August, 10 ♀.

Genus SALIA Hubner 1816 (COLOBOCHYLA Hubner 1825)

- 3731 *interpuncta* Grote Augusta, 9 August, 1973, ♂; Lec, New Hampshire, 9 August, (♀?); Durham, New Hampshire.

Genus RIVULA Guenee 1854

- 3732 *propinqualis* Guenee 43 localities, 21 June 8 September, 524 ♂; 12 July - 8 September, 17 ♀.

Genus CAMPTYLOCHILA Stephens 1834 (EPIZEUXIS Hubner 1818)

- 3734 *americalis* Guenee 41 localities, 23 June 18 September, 818 ♂; 14 June - 23 September, 73 ♀.
- 3735 *aemula* Hübner 35 localities, 19 June 11 October, 356 ♂; 8 June 30 October, 317 ♀. Augusta, 19 June, ♂, bred from blue spruce; Canaan, 16 July, ♀, bred from witches broom on fir; Bar Harbor, May, bred from red spruce.
- 3735.1 *concisa* Walker 15 localities, 6 July 6 August, 20 ♂; 2 July 1 August, 6 ♀.
- 3737 *rotundalis* Walker 27 localities, 9 June - 30 August, 927 ♂; 12 July - 13 August, 234 ♀.
- 3739 *julia* Barnes & McDunnough Augusta, 19 July, ♀, 30 July, ♀; Smithfield, 5 August, ♂; Bar Harbor, 2 August, ♀, 10 August, 17 August, ♀; Mt. Desert Island, 25 July, ♂; Lincoln, 20 July (3-1).
- 3740 *diminuendis* Barnes & McDunnough Sebago Lake (Naples), 30 July, ♂, 1 August (7-1), 2 August (5-), 3 August (3-1), 4 August, ♂, 5 August (6-), 12 August, ♂♂, 17 August, ♂; Augusta, 25 July, ♂; Bar Harbor, 7 August.
- 3741 *scobialis* Grote Georgetown, 29 July, ♂ (saltmarsh); Sebago Lake (Naples), 2 August, ♂; Augusta, 23 July, ♂; Hope, 7 August, ♂; Rangeley, 7 August, ♂.
- 3744 *denticularis* Harvey Kingfield, 31 July, ♂; Chesuncook, 20 July, ♂, 23 July, ♂, 27 July, ♂, 31 July, ♂; Long A (Millinocket), 12 July, ♂, 29 July, ♂; Millinocket, 19 July, ♂; 24 July, ♂; Ft. Kent, 9 August; Kellyland (Princeton), 3 August, ♂.

- 3746 *lubricalis* Geyer 39 localities, 1 July - 18 September, 180 ♂; 7 July - 28 August, 41 ♀.

Genus PHALAEOPHANA Grote 1873

- 3750 *pyramusalis* Walker 61 localities, 31 May - 30 July, 272 ♂; 16 June - 9 August, 131 ♀.

Genus EPIZEUXIS Hubner 1818 (ZANCLOGNATHA Lederer 1857)

- 3752 *litalis* Hubner 23 localities, 30 June - 31 July, 155 ♂; 30 June - 27 July, 23 ♀.
- 3753 *thalialis* Walker 45 localities, 2 July - 9 August, 205 ♂; 6 July - 8 August, 78 ♀.
- 3753.1 *gypsalis* Grote Stratton, 12 July, ♀; Greenville, 9 July, ♀; Chesuncook, 9 August, ♀; Lincoln, 19 July, ♀; 27 July, ♀; T11R8, (Round Mt.), 2 August, ♂; Topsfield, 10 July, ♂; Woodland (Washington Co.), 3 August, ♂.
- 3755 *inconspicualis* Grote 42 localities, 1 July - 18 August, 299 ♂; 2 July - 7 August, 83 ♀.
- 3756 *laevigata* Grote 21 localities, 8 July - 8 August, 447 ♂; 6 July - 10 August, 354 ♀.
- form *modestalis* Fitch Augusta, 23 July, ♀; Lincoln, 2 July, ♂; Long A, (Millinocket), 19 July, ♀; Kokadjo, 29 July, ♂; Topsfield, 28 July, ♂.
- form *reversata* Dyar Augusta, 8 August, ♀; Lincoln, 6 July, ♂, 12 July, ♂♂, 21 July, ♂; Millinocket, 26 July, ♂.
- 3759 *pedipilalis* Guenée 41 localities, 5 June - 5 August, 273 ♂; 5 June - 28 August, 65 ♀.
- 3760 *protumnusalis* Walker 47 localities, 1 July - 21 August, 618 ♂; 24 June - 24 August, 171 ♀. Specimens from Aurora, Greenville, Houlton and Passadumkeag were bred from fir, a specimen from Mt. Katahdin, from spruce. The variation in size, color, and maculation in the many specimens at hand may indicate an additional species.
- 3762 *cruralis* Guenée 25 localities, 24 June - 31 July, 45 ♂; 23 June - 1 August, 17 ♀. Distributed in small numbers in central and northern Maine.
- 3763 *jaecusalis* Walker 40 localities, 29 June - 18 August, 1532 ♂; 6 June - 31 August, 454 ♀.
- 3764 *ochreipennis* Grote Norway (2) (Smith); Farmington (2); Procter lists it for four localities on Mt. Desert Island during July. This species has been indefinitely recorded by Forbes, Farquhar, and others.

Genus CHYTOLITA Grote 1873

- 3766 *morbidalis* Guenée 10 localities, 3 June - 15 July, 35 ♂; 13 June - 13 July, 6 ♀. Southwest Maine, northward to Oquossoc, Greenville, Patten and Lincoln.
- 3767 *petrealis* Grote 59 localities, 13 June - 30 July, 631 ♂; 25 June - 30 July, 53 ♀.
- form *punctiformis* Smith Augusta, 30 June, ♂; Jefferson, 4 July, ♂; Lincoln, 8 July, ♂.

Genus PHALAEOSTOLA Grote 1873

- 3769 *larentioides* Grote 23 localities, 3 July - 27 August, 531 ♂; 11 July - 6 August, 37 ♀. There are no records from the higher, northern tip of Maine.

Genus PHILOMETRA Grote 1872

- 3770 *metonalis* Walker 50 localities, 29 June - 7 August, 612 ♂; 30 June - 7 September, 113 ♀.
- 3771 *eumelusalis* Walker 43 localities, 30 June - 15 August, 1097 ♂; 8 July - 9 August, 82 ♀.
- 3772 *hanhami* Smith 47 localities, 3 July - 10 August, 514 ♂; 11 July - 21 August, 44 ♀. This scarce northern species has been taken south to Oquossoc, Augusta, and Bar Harbor.

Genus HORMISA Walker 1859

- 3773 *absorptalis* Walker 53 localities, 28 June - 5 August, 1181 ♂, 5 July - 3 August, 156 ♀.
- *3774 *litophora* Grote This species which Shaw took at Hampton, New Hampshire, 21 July, ♂, 26 July, ♀ in all probability occurs in Maine.
- 3775 *bivittata* Grote 18 localities, 23 June - 20 August, 45 ♂; 6 July - 10 August, 24 ♀. This species is coastwise and northward at low elevations to Greenville, Kokadjo, Ashland and Princeton.
- 3776 *orciferalis* Walker 30 localities, 2 July - 18 August, 376 ♂; 2 July - 5 August, 25 ♀.

Genus XYLORMISA Forbes 1922

- 3777 *louisiana* Forbes Sebec Lake, 24 - 31 July, ♂ (McDunnough); Lincoln, 26 July, ♂; Topsfield, 27 July, ♂; Kellyland (Princeton), 5 July, ♀, 8 July, ♀, 18 July, ♀, 25 July, ♂, 3 August, ♀, 5 August, ♀.

Genus TETANOLITA Grote 1873

- *3778 *mynesalis* Walker Hampton, New Hampshire, 27 July, det. J. B. Smith. This is a potential Maine species.

Genus RENIA Guenee 1854

- 3783 *factio-ali-* Walker Smithfield, 5 August, ♀; Mt. Desert, 1 - 15 August; Lincoln, 24 July, ♂; Kellyland (Princeton); 22 July, ♂; Dennysville, 11 July, ♂, 13 July, ♂, 20 July, ♂, 23 July, ♂♂, 6 August, ♂; Marion, 30 July, ♂.
- 3789 *flavipunctalis* Geyer 33 localities, 2 July - 16 August, 345 ♂; 12 July - 10 August, 68 ♀.
- 3791 *atrimacula* Smith Coburn Gore, 31 July, ♂; Bar Harbor, 16 August; Lincoln, 25 July, ♀; Patten, 16 July, ♂; Masardis, 29 July, ♂; Dennysville, 19 July, ♂.
- 3793 *sobrialis* Walker 23 localities, 3 July - 12 August, 120 ♂, 3 July - 5 August, 22 ♀.

Genus BLEPTINA Guenee 1854

- 3797 *caradrinalis* Guenee 41 localities, 2 June - 9 August, 654 ♂; 29 June - 6 August, 154 ♀.

Genus LASCORIA Walker 1858

- 3805 *ambigualis* Walker Belgrade, 28 June. Nearby New Hampshire records: Durham, 25 May, ♂, 30 May, ♂; Hampton, 29 May, ♂, 5 June, ♀, 29 July, ♀, 10 August, ♂.

Genus PALTHIS Hubner 1816

- 3807 *angualis* Hübner 46 localities, 4 May - 14 August, 404 ♂; 25 May - 28 August, 256 ♀.

Genus DERCETIS Grote 1878

- 3810 *vitrea* Grote Durham, New Hampshire, 6 July, ♂.

Family NOTODONTIDAE**Genus ICHTHYURA Hubner 1816 (MELALOPHA Hubner 1810)**

- 3822 *apicalis* Walker 35 localities, 28 May - 21 September, 221 ♂; 10 June - 7 August, 4 ♀. Perhaps two broods, but these more or less completely overlap, the second brood small.
- 3825 *inclusa* Hübner Kittery, 12 May, ♂, 15 May, ♂♂, 16 May, ♀, 17 May, ♀, 18 May, ♂; York Harbor, 19 May, ♀; Eustis, 15 July, ♂♂; Farmington, a series; Lincoln, 20 June, ♂; Easton, 18 June, ♂ (Bean).
- 3826 *strigosa* Grote 32 localities, 20 May - 5 August, 75 ♂; 20 May - 3 July, 6 ♀. "Maine" is the type locality. Reared from *Populus tremuloides* at Brunswick.
- 3827 *albosigma* Fitch 45 localities, 30 April - 1 September, 452 ♂; 11 May - 14 August, 16 ♀; Augusta emerged 10 July (♀) from *Populus tremuloides*. Separation into two broods is not shown by the date records.
- 3828 *brucei* Henry Edwards 21 localities, 24 May - 6 August, 30 ♂; 27 July one ♀ reared from willow. This species is at hand from as far east and north as Marion, Topsfield, Mt. Katahdin and T18R12, (Rocky Mt.).

Genus DATANA Walker 1855

- 3829 *ministra* Drury, Yellownecked Caterpillar 28 localities, 8 June - 31 July, 245 ♂; 24 June - 24 July, 5 ♀.
- 3830 *angusi* Grote & Robinson Kittery Pt., 27 June, ♂, 3 July, ♂, 5 July, ♂, 20 July, ♂; Norway, 3 July, ♂ (Hamilton), Norway (Smith).
- 3831 *drexeli* Henry Edwards 11 localities, 8 - 27 July, 21 ♂; 24 July, ♀, plus one ♀ bred from blueberry, emerged May, Friendship; one ♀ bred from blueberry, emerged May, Augusta.
- 3832 *major* Grote & Robinson Kittery Pt., 28 June, ♂♂, 7 July, ♂, 11 July, ♂♂, 15 July, ♂; Biddeford, 7 July, ♀, 8 July, ♀ (Brainard), 8 July, ♂, 10 - 26 July (+), 13 July, ♂, 27 July, ♀, 30 July, ♀ (Winn).
- 3839 *integerrima* Grote & Robinson, Walnut Caterpillar Kittery Pt., 3 July (?), ♂; Orono (Fernald).
- 3842 *contracta* Walker Augusta, 2 June, ♂, 23 June, ♂. One reared from larva found 1 August, 1944 on blueberry.

Genus HYPERAESCHRA Butler 1880

- 3843 *stragula* Grote 35 localities, 26 May - 14 August, 115 ♂, 9 June - 10 August, 13 ♀.
- 3845 *georgica* Herrich-Schaeffer 28 localities, 19 May - 12 August, 152 ♂; 19 May - 2 August, 17 ♀. The records are north to Jackman, T18R12, (Rocky Mt.), Allagash, and Fopsfield.

Genus ODONTOSIA Hubner 1818

- 3847 *elegans* Strecker 36 localities, 26 May - 10 August, 328 ♂; 7 June - 28 July, 18 ♀.

Genus NOTODONTA Ochsenheimer 1810

- 3849 *basitriens* Walker 37 localities, 25 May - 12 August, 1948 ♂; 10 July - 10 August, 9 ♀.
- 3850 *simplaria* Graef 32 localities, 16 May - 30 August, 119 ♂; 9 May - 14 August, 21 ♀.

Genus PHEOSIA Hubner 1816

- 3851 *rimosa* Packard 59 localities, 14 May - 9 September, 1036 ♂, 14 May - 1 September, 106 ♀. Reared from aspen.

Genus LOPHODONTA Packard 1864

- 3853 *ferruginea* Packard 41 localities, 9 June - 5 August, 1100 ♂; 28 June - 15 August, 80 ♀.
- 3854 *angulosa* Abbot & Smith Kittery; Farmington, 6 June, ♂, 13 June, ♂, 18 June, ♂, 29 June, ♂, 28 July, ♂; Vassalboro 7 June, ♂♂, 14 June, ♂♂, 18 June, ♂, 19 June, ♀, 23 June, ♀, 7 July, ♂, 12 August, ♂; Wyman Dam (Bingham), 5 July, ♀; Orono, 26 July, ♀; Belfast (Gypsy Moth lab.); Lincoln, 23 July, ♂, 26 July, ♀, 6 August; Salisbury Cove, 23 June - 19 July; Bar Harbor, 28 June, ♂, 14 July, ♂, 21 July, ♂, 22 July, ♀, 23 July, ♂, 29 July, ♂, 31 July, ♀; Tim Pond, 5 July, ♀, 6 July, ♂, 7 July (4-), 8 July, ♀, 9 July, ♂, 10 July (6-), 13 July (8-), 15 July, ♀, 16 July (3-), 17 July (34-), 18 July, ♂, 20 July, ♂♂, 23 July, ♂, 26 July, ♀; T15R9, (De Boulie Mt.), 20 July, ♂.

Genus NADATA Walker 1855

- 3857 *gibbosa* Abbot & Smith 28 localities, 1 June - 11 September, 355 ♂; 7 June - 17 July, 16 ♀.

Genus NERICE Walker 1855

- 3858 *bidentata* Walker 30 localities, 29 May - 18 August, 210 ♂, 25 May - 14 August, 7 ♀.

Genus SYMMERISTA Hubner 1821

- 3859 *albifrons* Abbot & Smith 14 localities, 21 May - 29 July, 55 ♂; 29 June - 29 July, 5 ♀. Part of these are early records before the following two species were separated, and should be divided between them. *Albifrons* is a more southerly species than the other two.

- 3859.1 *leucitys* Franclemont, Orangehumped Mapleworm 19 localities, 8 June 27 July, 103 ♂; 6 July 30 July, 5 ♀.
 3859.2 *canicosta* Franclemont 26 localities, 30 May 8 August, 371 ♂; 16 June - 21 July, 10 ♀.

Genus HYPARPAX Hubner 1824

- *3865 *aurora* Abbot & Smith Durham, New Hampshire, 2 June, ♂♂, 20 June, ♀, (Weed & Fiske).

Genus ELLIDA Grote 1876

- 3875 *caniplaga* Walker Kittery Pt. June; Farmington, 2 June, ♂, 10 June, ♂, 18 June, ♀, 19 June, ♂, 22 June (2-1), 23 June, ♂♂; Mt. Vernon, 2 July, ♂; Augusta, 21 May, ♂, 17 June, ♀, 2 August, ♂; Vassalboro, 11 May, ♂, 31 May, ♂, 6 June, ♂, 14 June, ♂, 16 June, ♂♂, 20 June, ♂♀, 19 July, ♂; Lincoln, 2 July (5-), 3 July, ♂♂.

Genus DASYLOPHIA Packard 1864

- 3880 *anguina* Abbot & Smith Kittery Pt.; Salisbury Cove (Dahlgren).
 3881 *thyatroides* Walker 35 localities, 6 June 10 August, 231 ♂; 23 June - 9 August, 9 ♀.

Genus HETEROCAMPA Doubleday 1841

- 3891 *obliqua* Packard Kittery Pt., 17 July, ♂♂, 18 July, ♂, 21 July, ♂♀.
 3902 *umbrata* Walker (*pulverea* Grote & Robinson) 39 localities, 15 June - 5 August, 224 ♂; 22 June - 20 July, 6 ♀.
 3905 *manteo* Doubleday, Variable Oakleaf Caterpillar 40 localities, 25 June 19 August, 560 ♂; 3 July 7 August, 28 ♀.
 3906 *biundata* Walker 46 localities, 19 June - 6 August, 491 ♂; 16 June - 26 July, 23 ♀.
 3907 *guttivitta* Walker, Saddled Prominent 34 localities, 22 May 29 July, 320 ♂; 5 June - 11 July, 6 ♀.
 3908 *bilineata* Packard 16 localities, 4 June - 28 August, 116 ♂; 18 July - 28 July, 4 ♀.

Genus FENTONIA Butler 1881

- 3910 *marthesia* Cramer 30 localities, 6 June - 9 August, 37 ♂; 12 June - 2 August, 16 ♀.

Genus DICENTRIA Herrich-Schaeffer 1855 (IANASSA Walker 1855)

- 3912 *lignicolor* Walker 44 localities, 1 July - 10 August, 368 ♂; 8 July 19 August, 23 ♀.
 3919 *semirufescens* Walker 39 localities, 29 June - 14 August, 1185 ♂; 14 July - 6 August, 34 ♀.

Genus SCHIZURA Doubleday 1841

- 3920 *ipomoeae* Doubleday 50 localities, 24 June 10 August, 305 ♂; 13 July - 4 August, 16 ♀.
 form *cincroefrons* Packard 12 localities, 5 July - 2 August, 25 ♂; 22 June - 16 July, 3 ♀.

- 3921 **concinna** Abbot & Smith. Redhumped Caterpillar 19 localities, 5 July - 5 August, 76 ♂; 10 July - 1 August, 4 ♀.
- 3923 **badia** Packard 27 localities, 12 June - 18 August, 72 ♂; 6 July - 4 August, 15 ♀.
- 3924 **unicornis** Abbot & Smith. Unicorn Caterpillar 29 localities, 20 May - 15 August, 206 ♂; 17 July - 8 August, 10 ♀.
- 3926 **apicalis** Grote & Robinson Kittery Pt.: Vassalboro, 30 May, ♂, 18 June, ♀, 21 June, ♂; Lincoln, 22 June, ♂; Bar Harbor, 10 July, ♂, 15 July, ♂, 23 July, ♂; Jonesboro, 17 July, ♂; T17R5, (Cross Lake), 7 June, ♂; East Machias, 11 July, ♂, 14 July, ♂, 29 July, ♂; Dennysville, 6 July, ♂♂, 11 July, ♂, 12 July, ♂, 13 July, ♂, 16 July, ♂, 23 July, ♂♂, 6 August, ♂; Marion, 10 July, ♂♂, 11 July, ♂.
- 3927 **leptinoides** Grote 37 localities, 26 May - 5 August, 267 ♂; 22 June - 6 August, 26 ♀.

Genus CERURA Schrank 1802

- 3933 **borealis** Boisduval Kittery Pt. 8 July?; Farmington, 25 May, ♂, 31 May, ♂♂, 4 June, ♂, 25 July, ♂, 28 July, ♂; Augusta, 2 July, ♂, 2 July, ♂, 24 July, ♂; Vassalboro, 16 June, ♂, 21 June, ♂, 25 June, ♂, 26 July, ♀; Unity, 20 July, ♂; Orono, 10 July, ♂; Bar Harbor, September; Topsfield, 31 July, ♂, 3 August, ♂.
- 3934 **occidentalis** Lintner 48 localities, 6 June - 9 August, 356 ♂; 7 July - 3 August, 12 ♀.
- 3935 **cinerea** Walker 22 localities, 6 June - 4 August, 80 ♂, 14 June - 2 August, 11 ♀.
- 3937 **modesta** Hudson 39 localities, 7 May - 13 August, 171 ♂; 20 May - 31 July, 14 ♀.
- 3938 **scolopendrina aquilonaris** Lintner 39 localities, 21 June - 10 August, 228 ♂; 8 July - 25 July, 10 ♀.

Genus GLUPHISIA Boisduval 1840

- 3939 **septentrionalis** Walker 46 localities, 27 May - 23 August, 970 ♂; 17 May - 31 August, 37 ♀. In the material from Farmington many specimens are darker.
- 3940 **lintneri** Grote Farmington, 4 April, ♂♂, 19 April, ♂♂, 20 April, ♂, 21 April, ♂♂, 22 April, ♂♂, 23 April, ♂, 24 April (3-), 27 April (7-), 28 April (2 ♂ and 1 ♂ melanic), 29 April (11-), 30 April (8-1), 1 May (8-), 2 May (16-), 3 May (3-), 4 May (4-), 5 May (4+2), 7 May (6-), 8 May, ♂, 9 May ♂♂, 10 May (1-2), 11 May, ♀, 13 May, ♀, 17 May (5-), 18 May, ♂, 19 May, ♂, 20 May, ♂♂, 28 May, ♀, 29 May, ♀, 30 May, ♂♂, 6 June, ♂; Mt. Vernon, 2 May, ♂♂, 5 June, ♀, 6 June, ♀; Vassalboro, 26 April, ♂, 29 April, ♂♂, 1 May, ♂♂, 6 May, ♂♂, 11 May, ♂♂, 21 May, ♂, 24 May, ♀, 26 May (2-1); Bar Harbor 18 May, ♂♂, 19 May, ♂; Orono, 23 May, ♂; Lincoln, 26 May, ♀; T8R5 (Oxbow), 10 June, ♀.
- 3940.1 **avimacula** Hudson Farmington, 6 May, ♂, 8 May, ♀, 18 May, ♂♂, 19 May, ♂, 20 May (3-), 22 May, ♂, 23 May (4-), 26 May, ♂, 27 May, ♂, 31 May, ♂♂, 2 June, ♀, 8 June, ♀, 12 June, ♂; Augusta, 20 May, ♂♂, 21 May, ♂; Vassalboro, 25 May, ♂, 26 May (8-1), 27 May,

♂, 29 May, ♂; Orono, 21 May, ♂, 23 May, ♂, 19 - 29 May (2-1); Lincoln, 29 May, ♂, 3 June, ♂; Bar Harbor, 10 May, ♂, 18 May, ♂, 19 May, ♂, 23 May (3-); Shin Pond, (Patten), 6 June, ♂.

Family LIPARIDAE

The males of many species of this family fly largely by day, but the species of *Olene* and the Brown-tail and Satin Moth males are largely nocturnal. Females of all are heavy bodied and fly much less or scarcely at all.

Genus BYRDIA Schaus 1927

- 3941 **rossi** Curtis Mt. Katahdin, reared, 31 May, ♀, June (2-1) from *Potentilla trifoliata* 8 July, ♀, 9 July, ♂, 16 July, ♀♀.

Genus NOTOLOPHUS Germar 1812 (ORGYIA Ochseneheimer 1810)

- 3943 **antiqua** Linnaeus, Rusty Tussock Moth 20 localities, 22 July 14 October, 28 ♂; the ♀ is flightless.

Genus HEMEROCAMPA Dyar 1897

- 3948 **leucostigma** Abbot & Smith, Whitemarked Tussock Moth 11 localities, 3 July 28 September, 59 ♂; no ♀.
- 3950 **plagiata** Walker (**definita** Packard) Kittery Pt., 6 September, ♂, 20 September, ♂; Norway; Stockton (reared larva); Farmington, 3 September, ♂, 5 September, ♂, 6 September, ♂♂, 10 September, ♂, 20 September, ♂, 26 September, ♂♂, 28 September, ♂, 5 October, ♂, 19 October, ♂, 20 October, ♂; Rangeley; Vassalboro, 28 August, ♂, 9 September, ♂, 23 September, ♂, 24 September, ♂, 3 October, ♂; Hope, 30 August, ♂, emerged 11 September, ♀.

Genus OLENE Hubner 1823 (DASYCHIRA Hubner 1810)

- 3954 **vagens** Barnes & McDunnough 27 localities, 21 June 11 August, 1204 ♂; 10 July - 9 August, 38 ♀.
- 3955 **dorsipennata** Barnes & McDunnough 30 localities, 22 June 11 August, 159 ♂; 9 July - 8 August, 18 ♀.
- 3958 **atomaria** Walker 21 localities, 2 July 9 August, 79 ♂; 15 July - 5 August, 15 ♀.

form **parallela** Grote & Robinson. This is found in smaller numbers with the typical form.

- 3959 **cinnamomea** Grote & Robinson Kittery Pt., 1 August, ♂, 2 August, ♀, 4 August, ♂; Biddeford, 27 July, ♂♂ (Lyman); 15 July, ♂, 20 July, ♂, 27 July, ♂, 31 July, ♂, 1 August, ♂, 5 August, ♂, 7 August, ♂ (Winn); Portland, 5 August, ♂, 7 August, ♂ (Lyman); Augusta, 24 July, ♂; "Maine", 16 July, 23 July, ♂.
- 3961 **plagiata** Walker 37 localities, 2 July - 24 August, 1053 ♂; 26 June - 5 August, 39 ♀.

Genus LIPARIS Ochseneheimer 1810 (PORTHETRIA Hubner 1822) (LYMANTRIA Hubner 1819)

- 3965 **dispar** Linnaeus, Gypsy Moth Common to abundant in southwestern Maine. On the wing in July and August.

Genus STILPNOTIA Westwood 1842

- 3966 *salicis* Linnaeus, Satin Moth 24 localities, 26 June - 14 August, 712 ♂; 7 July - 17 August, 241 ♀.

Genus NYGMIA Hubner [1820] (EUPROCTIS Hubner 1822)

- 3967 *phaeorrhoea* Donovan (*chrysoorrhoea* auct.), Browntail Moth 14 localities. Early in this century this introduced pest was serious in the coastal portion of Maine, east in lesser numbers to Calais. It is local now from the central coast southwestward, especially on favorable islands.

Family LASIOCAMPIDAE**Genus TOLYPE Hubner 1822**

- 3978 *velleda* Stoll 13 localities, 31 August - 15 October, 182 ♂; 12 to 26 September, 10 ♀. A denizen of the warmer hardwood portion of central and southern Maine.
- 3987 *laricis* Fitch 26 localities, 18 July - 1 October, 59 ♂; 1 August - 23 September, 7 ♀.

Genus MALACOSOMA Hubner 1822

- 3989 *americana* Fabricius, Eastern Tent Caterpillar 26 localities, 22 June - 5 August, 1274 ♂; 2 July - 31 July, 192 ♀.
- 3997 *disstria* Hübner, Forest Tent Caterpillar 25 localities, 29 June - 2 September, 6313 ♂; 11 July - 26 July, 3009 ♀.
- form sylvatica* Harris Bar Harbor, generally distributed, but in small numbers: T3R12. (Chesuncook Dam), 31 July, ♂.

Genus EPICNAPTERA Rambur 1866

- 3999 *americana* Harris, Lappet Moth 30 localities, 25 April - 2 August, 154 ♂; 23 July - 30 July, 3 ♀.

Family ZANOLIDAE**Genus APATELODES Packard 1864**

- 4001 *torrefacta* Abbot & Smith Kittery, 10 July, ♂, 25 July, ♂
- 4003 *angelica* Grote Kittery Pt., 1 July (3-), 30 July, ♂♂.

Family THYATIRIDAE**Genus HABROSYNE Hubner 1816 (THYATIRA Ochseneimer 1816)**

- 4004 *scripta* Gosse 43 localities, 14 June - 19 August, 1492 ♂; 21 June - 9 August, 166 ♀.
- 4006 *gloriosa* Guenée Kingfield, 3 July, ♂, 23 July, ♂; Bar Harbor, reported by Procter.

Genus PSEUDOTHYATIRA Grote 1865

- 4007 *cymatophoroides* Guenée 45 localities, 19 June 5 August, 326 ♂; 23 June - 15 August, 59 ♀.
 4007.1 *expultrix* Grote 41 localities, 28 June 9 August, 573 ♂; 4 July 27 August, 147 ♀.

Genus EUTHYATIRA Smith 1891

- 4010 *pudens* Guenée Farmington, 30 April (1), 1 May (1), 2 May, ♂, 3 May, ♀, 4 May, ♀, 6 May, ♂; Mt Vernon, 19 May, ♂; Augusta, 6 May, ♂; Vassalboro, 1 May, ♂, 6 May, ♂, 24 May, ♂♀; Benton, emerged 4 March (♀) from *Cornus* (Brower).

Family DREPANIDAE**Genus EUDEILINIA Packard 1876**

- 4017 *herminiata* Guenée 27 localities, 22 June - 4 August, 63 ♂; 19 June, 1 ♀.

Genus ORETA Walker 1855

- 4019 *rosea* Walker 48 localities, 30 June 1 September, 231 ♂; 15 July 29 July, 4 ♀.
 form *irrorata* Packard 22 localities, 4 July 9 September, 79 ♂; 15 July - 2 August, 2 ♀.

Genus DREPANA Schrank 1802

- 4020 *arcuata* Walker 29 localities, 13 May 29 August, 359 ♂; 19 May 5 August, 31 ♀.
 form *genicula* Grote 18 localities, 4 June - 23 August, 38 ♂; 31 May 14 August, 21 ♀.
 4021 *bilineata* Packard 29 localities, 14 May 12 September, 53 ♂; 21 May - 24 August, 56 ♀.
 form *levis* Hudson 25 June - 5 August, 3 ♂; 20 June 17 August, 4 ♀.
 General with the type form.

Family GEOMETRIDAE**Genus BREPHOS Hubner [1813]**

- 4023 *infans* Moeschler 13 localities, 1 April 5 May, 9 ♂; 20 April 4 May, 5 ♀.

Genus ALSOPHILA Hubner [1825] (ANISOPTERYX Stephens 1829)

- 4026 *pometaria* Harris, Fall Cankerworm 26 localities, 15 October 24 November, 83 ♂ and two ♂ in the spring 6 May, 1971 at Vassalboro; 22 October 1 December, 9 ♀. Coastwise, north to Farmington and Enfield, east to Calais.

Genus NEMORIA Hubner 1818 (RACHEOSPILA Guenee 1857)
(APLODES Guenee 1857)

- 4048 *mimosaria* Guenee Kittery Pt., Norway (Smith); Augusta, 12 June, ♀; Rangeley, (det. Ferguson); Farmington, 17 May, ♂♂, 19 May, ♂, 30 May, ♀, 2 June, ♂♂, 21 June, ♂, Sebec Lake (det. Ferguson); Bar Harbor, 7 June, ♂; Lincoln, fed on *Myrica asplenifolia*; Enfield (det. Ferguson); T11R8, (Round Mt.).
- 4049 *rubrifrontaria* Packard 16 localities, 6 June - 13 September, 7 ♂; 26 May - 30 July, 5 ♀. North to Eustis and the Ashland area.

Genus SYNCHLORA Guenee 1858

- 4070 *liquoraria* *aerata* Walker "Maine" Type (Packard); Bar Harbor, 6 July, ♂, 9 July, ♂. These have been determined as the southern race.
 race *albolineata* Packard 18 localities, 4 July - 29 July, 24 ♂; 28 June - 28 July, 10 ♀.

Genus CHLORISSA Stephens 1829 (ANAPLODES Packard 1876)

- 4087 *pistasciaria* Guenee (*suberoceata* Walker) 12 localities, 11 May - 27 June, 12 ♂; 1 June - 18 June, 5 ♀; 1 ♀ dated 24 July. North to Jackman and Oxbow; no records from eastern Maine.

Genus MESOTHEA Warren 1901 (EUCROSTIS Hubner [1826])

- 4089 *incertata* Walker 33 localities, 6 April - 2 August, 32 ♂; 12 April - 31 July, 12 ♀. Northeast to Klondike Basin, Mt. Katahdin, Enfield and Bar Harbor.

Genus CHLOROCHLAMYS Hulst 1896 (EUCROSTIS Hubner [1826])

- 4095 *chloroleucaria* Guenee 29 localities, 29 May - 24 August, 199 ♂; 7 June - 14 August, 12 ♀. Generally southwestern, with captures at Enfield and Bar Harbor.

Genus SCOPULA Schrank 1802 (ACIDALIA Treitschke 1825)

- 4140 *cacuminaria* Morrison 11 localities, 29 June - 23 August, 7 ♂; 29 June - 3 August, 6 ♀. No records north of Patten.
- 4142 *nigrodiscalis* Hulst The type labelled "Maine" is in very poor condition. No Maine specimens are known which may be this, and it may have come from a foreign country.
- 4143 *quadrilineata* Packard Orono, Type; 16 localities, 10 June - 23 July, 8 ♂; 18 June - 12 July, 6 ♀. Mostly central and southern.
- 4147 *ancellata* Hulst Oquossoc, 2 July, ♂. Augusta, 19 July, ♂, Vassalboro, 23 June, ♀, 18 August, ♂.
- 4148 *junctaria* Walker 26 localities, 16 June - 26 August, 28 ♂; 3 July - 26 August, 11 ♀. Statewide.
- 4149 *limboundata* Haworth (*enucleata* Guenee) Kennebunkport; Biddeford; Brunswick, 10 July (Packard); Dixfield; Farmington; Augusta, 28 July, ♀; Bar Harbor, 15 July, ♂, 18 July, ♀, 20 July, ♂, 24 July, ♀, 28 July, ♀; Enfield; Calais, 19 July (Packard).
 form *relavata* Swett Bar Harbor, 14 July, ♂, 17 July, ♂, 24 July, ♂.
 form *enucleata* Guenee 14 localities, 2 July - 5 August, 18 ♂, 13 July, 2 ♀.

- 4158 *inductata* Guenée 16 localities, 16 June - 15 October, 9 ♂; 15 June, 1 ♀.
 4166 *purata* Guenée Long A (Millinocket), 17 July, ♂.

Genus STERRHA Hubner 1825 (EOIS Hubner 1818)

- 4180 *demissaria* Hübner Hampton, New Hampshire, 31 July, ♂, Shaw.
 4195 *rotundopennata* Packard Brunswick, Type; 13 localities, 5 June - 10 August, 18 ♂; 7 June - 4 July, 10 ♀. Local, rare, mostly near the coast and north to Augusta, Milo, Millinocket and Princeton.

Genus HAEMATOPIS Hubner 1823

- 4204 *grataria* Fabricius York; So. Portland (Rodgers) ♂♂; Augusta, 30 August, ♂, 14 September, ♂; Vassalboro, 30 May, ♀, 29 July, ♂, 8 August, ♂, 8 September, ♂; Bar Harbor, 10 August, ♂; Enfield, Lincoln (Grey).

Genus PLEUROPRUCHA Moeschler 1888 (DEPTALIA Hulst 1896)

- 4206 *insulsaria* Guenée 19 localities, 18 June - 16 October, 47 ♂; 3 July - 16 October, 26 ♀. Reared on *Celastrus scandens* in Brunswick by Packard. Northeastward to Farmington and Mount Desert Island.

Genus COSYMBIA Hubner 1825 (EPHYRA Duponchel 1829)

- 4209 *myrtaria* Guenée Bar Harbor "Record of capture lost" Procter; Hampton, New Hampshire, 25 May, 1902, ♀, 25 July, 1903, ♂ (Shaw).
 4211 *pendulinaria* Guenée 46 localities, 12 May - 23 September, 466 ♂; 16 May - 30 August, 176 ♀.

Genus ACASIS Duponchel 1829 (CYSTOPTERYX Hulst 1896)

- 4221 *viridata* Packard 12 localities, 10 May - 8 July, 14 ♂; 9 May - 29 May, 3 ♀. Irregularly distributed from Newry and Brunswick north to DeBoulie Mt. and Rocky Mt.

Genus NYCTOBIA Hulst 1896 (LOBOPHORA Curtis 1825 in part)

- 4223 *limitaria* Walker (*vernata* Packard) 18 localities, 26 April - 25 June, 30 ♂; 2 May - 21 June, 29 ♀.
 4223.1 *anguilineata* Grote & Robinson 19 localities, 25 April - 13 June, 28 ♂; 26 April - 7 June, 11 ♀.

Genus CLADARA Hulst 1896 (NYCTOBIA Hulst 1896)

- 4225 *atroliturata* Walker Brunswick "Maine" Type of *vernata* Packard. 17 localities, 4 April - 21 August, 55 ♂; 25 April - 28 July, 11 ♀. Most records in the southern part of the State, but north to St. Francis.

Genus LOBOPHORA Curtis 1825 (PHILOPSIA Hulst 1896)

- 4226 *nivigerata* Walker 38 localities, 10 May - 5 August, 391 ♂; 19 May - 15 August, 108 ♀.

Genus HETEROPHLEPS Herrich-Schaeffer 1854

- 4231 *refusata* Walker (*harveiana* Packard) Oquossoc, 24 June, ♀; Farmington, 9 June, ♂; T13R12, (Round Pond Mt.), 2 July, ♀, 8 July, ♀; Allagash, 12 July, ♂; St. Francis, 2 July, ♂; Ft. Kent, 7 July, ♀; T18R12,

(Rocky Mt.), 8 July, ♀.

- 4233 *triguttaria* Herrich-Schaeffer Norway, ♀ (S.I. Smith); Brunswick (Packard); Wales, 11 July, 1904 several by C. A. Frost on milkweed; Augusta, 4 June, ♂, 4 July, ♂, 18 July, ♂; Vassalboro, 14 July, ♂; Unity, 11 July, ♂; Orono (Fernald); Lincoln, 10 July, ♂, 12 July, ♂.

Genus DYSPTERIS Hubner 1818

- 4234 *abortivaria* Herrich-Schaeffer York; Farmington, 23 June, 1964 only one (det. A.E.B.); Augusta, 17 June, ♂; Vassalboro, several 1967 (Annie E. Sturgis); Lincoln (Grey)

Genus NEODEZIA Warren 1904 (TRICHODEZIA Warren 1895) (ODEZIA Boisduval 1840)

- 4235 *albovittata* Guenée 40 localities, 23 May - 15 August, 33 ♂; 4 June - 15 August, 5 ♀.

Genus OPEROPHTERA Hubner [1825] (RACHELA Hulst 1896)

- 4239 *bruceata* Hulst, Bruce Spanworm 41 localities, 2 October - 20 November, 224 ♂; 2 November - 16 November, 5 ♀. In late October and November one year, clouds of the male moths were reported in hardwood areas in Piscataquis, Penobscot and Aroostook Counties.
- 4239.1 *brumata* Linnaeus, Winter Moth This introduced European pest has not yet been recorded from Maine, but probably occurs. It is a serious defoliator of many shade and apple trees, in parts of Nova Scotia, with adults from late October to mid-December.

Genus OPORINIA Hubner [1825] (EPIRRITA Hubner 1822)

- 4243 *autumnata henshawi* Swett 12 localities, 11 September - 12 November, 35 ♂; 13 October - 25 October, 8 ♀. Widely but sparingly found; especially found coastwise, but north to Woodland (Caribou).

Genus TRIPHOSA Stephens 1829

- 4244 *haesitata affirmaria* Walker (*dubitata* Packard) 22 localities, 8 May - 28 September, 52 ♂; 29 June - 18 September, 12 ♀.

Genus CALOCALPE Hubner 1824 (HYDRIA Hubner 1822)

- 4247 *undulata* Linnaeus 14 localities, 7 July - 24 August, 17 ♂; 23 July - 4 August, 8 ♀. Associated with bogs and heaths.
- 4247.1 *prunivorata* Ferguson Kingfield, 20 July, ♂♀; Greenville, 25 July, ♂; Chesuncook, 21 July, ♂♂; Augusta, 26 May, ♀, 8 June, ♀; Mt. Desert, 23 June, ♂, 25 June (3-5) bred; Southwest Harbor, 25 June, bred from gregarious larvae webbing wild cherry; T9R5 (Oxbow), 2 July, ♂; T17R11, (Dickey), 10 July, ♂; T18R12, (Rocky Mt.), 11 July, ♂, 23 July, ♂. Commonest in southwest Maine.

Genus CORYPHISTA Hulst 1896

- 4248 *meadi atlantica* Munroe Tim Pond, 4 August, ♀; Farmington, 24 June, ♂, 29 June, ♂, 2 August, ♂, 12 August, ♂; Augusta, 12 May, ♂, 20 June, 26 June, ♂, 13 August, ♂, 14 August, ♀, 4 September, ♂, 17

September, ♂, 4 October, ♀, 6 October, ♀; Lincolnville, 20 August, ♂, 21 August, ♂; Lincoln, 23 July, ♀; Millinocket, 26 June, ♂ ♀, 21 July, ♀, 22 July, ♂, 23 July, ♀, 24 July, ♀, 27 July, ♂, 31 July, ♀, 1 August, ♂, 3 August, ♂, 4 August, ♀, 16 August, ♀.

Genus PRORELLA Barnes & McDunnough 1918

4254 *lucata* Hulst Monmouth, 29 June, 1906 (Frost) det. Swett.

Genus EUPITHECIA Curtis 1825 (TEPHROGLYSTIA Hubner [1825])

A large part of the Eupithecias were determined by Dr. McDunnough and others by Drs. Munroe and Rindge.

- 4266 *miserulata* Grote 14 localities, 3 June - 7 November, 4 ♂; 6 July - 23 August, 14 ♀.
- 4267 *misturata frostiata* Swett Kittery Pt.; Monmouth (Frost); Kingfield, 13 July, ♂; Dennistown, 13 July, ♂.
- 4272 *coloradensis* Hulst Bar Harbor, 31 May - 30 June (in Procter list).
- 4276 *castigata* Hubner 20 localities, 8 June - 14 July, 27 ♂; 3 June - 2 August, 81 ♀.
- 4279 *albipunctata* Haworth T17R12, (Rocky Mt.), 15 July, ♂; T18R12, (Rocky Mt.), 11 July, ♀.
- 4280 *fletcherata* Taylor Bar Harbor, 17 August, ♀; Greenville, 3 August, ♂; T9R5 (Oxbow), 29 July, ♂; T11R17 (Daaquam. Que.), 29 July, ♂.
- 4282 *bradorata* McDunnough Bar Harbor, 19 July, ♀ (Brower) slide, det. J. McDunnough.
- 4282.1 *sheppardata* McDunnough Enfield, 1 June, ♂ (Grey) in A.M.N.H.
- 4283 *luteata* Packard Brunswick (Packard); Monmouth, 20 June, ♂; Augusta, 15 June, ♂; Enfield, 15 June, ♂, 26 June, ♀; Chimney Pond, Mt. Katahdin, 2 July, ♂; Mt. Katahdin, 9 July, ♂; Dennysville, 9 June, ♂♂.
- 4284 *affinata* Pearsall Augusta, 20 August, ♂♀.
- 4287 *palpata* Packard 16 localities, 3 June - 8 July, 10 ♂; 6 June - 30 August, 12 ♀; one ♀ emerged October, 1943, Bar Harbor.
- 4287.1 *transcanadata* MacKay Mt. Vernon, 8 June, ♀; Bar Harbor, 23 May, ♂; Enfield, 3 July, ♂; Lincoln, 15 June, ♂ (Grey) in A.M.N.H.; Passadumkeag, 28 May, ♀; T9R5 (Oxbow), 7 July, ♂; T18R12 (Rocky Mt.), 3 July, ♀♀, 5 July, ♀.
- 4288 *columbiata erpata* Pearsall Bar Harbor, 11 May, ♀, 11 - 19 May, det. McDunnough; Lincoln, 30 May, ♀.
- 4310 *herefordaria* Cassino & Swett Masardis, 13 June, 1972 ♀ (collected and determined as *exudata* by Brower); and one Hampton, New Hampshire, 24 April, 1902, ♀ determined McDunnough 1941 as *exudata* Pearsall are transferred here - see McDunnough 1949, Bull. Am. Mus. N. H. Vol. 93, Art. 8); also one Hampton, New Hampshire, 4 April, 1903 (Shaw)
- 4319 *satyrata fumata* Taylor Farmington, 21 May, ♂; Augusta, 28 June, ♀; Bar Harbor, 11 June, ♂ (Brower); Mt. Desert, 31 May, ♂ (Procter, in A.M.N.H.); Enfield, 3 June, ♀, 4 June, ♂.
- 4320 *taylorata* Swett Monmouth, 20 June, 23 June; Salisbury Cove, 29 June - 1 August; Northeast Harbor, 22 - 30 June (Minot); Bar Harbor, 29 June - 1 August (Procter).

- 4322 *gibsonata* Taylor (*chagnoni* Swett) Rangeley, 24 June, ♀; Bar Harbor, 26 June, ♂, 28 June, ♂; Enfield, 22 June, ♀, 17 July, ♀; Lincoln, 15 July, ♂; Crystal Bog (Patten), 6 June, ♂.
- 4323 *russelliata* Swett 25 localities, 7 June - 18 August, 21 ♂; 18 June - 29 August, 29 ♀; one specimen at Bar Harbor bred from *Azalea*.
 race *brauneata* Swett Enfield, 3 June, ♂♂, 17 June, ♀. These specimens of a more southern race determined ? by Rindge are standing in the A.M.N.H.
- 4324 *strattonata* Packard 19 localities, 29 May - 21 July, 21 ♂; 6 June - 15 July, 13 ♀.
- *grata* Taylor. This very widespread species surely occurs in Maine. Food may be baneberry
- 4329 *indistincta* Taylor 17 localities, June - 21 July, 2 ♂; 28 June - 10 August, 25 ♀.
- 4330 *coagulata* Guenée 18 localities, 18 June - 14 August, 15 ♂; 15 June - 30 August, 16 ♀.
- 4331 *geminata* Packard 25 localities, 1 June - 30 August, 20 ♂; 16 July - 30 August, 30 ♀. This may be a synonym of *E. coagulata*.
- 4332 *nimbicolor* Hulst Chester, 29 May, two, in Can. Nat'l. coll.; Bar Harbor, 22 May, ♀; Southwest Harbor, 25 May, in Can. Nat'l. coll.; Lincoln, 7 July, ♀; Tim Pond (Eustis), 31 July, ♀; Wilsons Mills, 31 May (3-1).
- 4333 *gelidata* Moeschler 11 localities, 5 July - 29 July, 4 ♂, 27 June - 8 August, 19 ♀.
- 4335 *perfusca youngata* Taylor Bar Harbor, 11 July, ♂, 17 July, ♀, 23 July, ♀, 6 August, ♀. Widespread in northeastern America.
- 4336 *innodata winnata* Taylor Augusta, 7 July, ♀; Bar Harbor, 1 July, 11 July, ♂, 17 July, ♀, 23 July, ♀, 6 August, ♀.
- 4342 *sobrinata interruptofasciata* Packard 12 localities, 27 August - 4 October, 18 ♂; 21 August - 22 September, 8 ♀; Biddeford, 23 July, 1899, Cotype.
- 4346 *annulata* Hulst Mt. Desert Is. and Enfield fide McDunnough 1949 p. 634; T17R12. (Rocky Mt.), 11 July, ♀.
- 4348 *filmata* Pearsall Bar Harbor, 26 April, ♀; Jonesboro, 24 April, ♂. One of the early species taken about willow blossoms.
- 4350 *cretacea* Packard 26 localities, 22 June - 16 July, 28 ♂; 23 June - 11 August, 81 ♀.
- *exudata* Pearsall Ideas on this species by McDunnough changed from 1941 to 1949 and *exudata* restricted to the types from New Brighton, Pa.
- 4366 *albicapitata* Packard Brunswick, June "not uncommon" (Packard); Augusta, 19 June, ♀, 21 June, ♀; Sebec Lake, 16 - 23 June; Enfield, 20 June, ♀♀ (in A.M.N.H.); T15R9. (DeBoulie Mt.), 25 July, ♂; T17R12. (Rocky Mt.), 15 July, ♂; T18R12. (Rocky Mt.), 11 July, ♀.
- 4367 *togata mutata* Pearsall 15 localities, 8 July - 22 July, 11 ♂; 5 July - 4 August, 4 ♀.
- 4383 *ravocostaliata* Packard 11 localities, 28 April - 27 July, 16 ♂; 3 May - 29 July, 18 ♀; "Maine" Type (Packard).
- 4389 *anticaria* Walker 53 localities, 10 June - 6 September, 217 ♂; 6 June - 25 July, 145 ♀.

Genus HORISME Hubner 1825 (PHIBALAPTERYX Stephens 1829)

- 4393 *intestinata* Guenée 50 localities, 7 June - 5 September, 369 ♂; 5 July - 12 August, 76 ♀.

Genus EUSTROMA Hubner 1825 (PETROPHORA Hubner 1822)

- 4398 *nubilata semiatrata* Hulst 34 localities, 6 July - 17 August, 107 ♂; 6 July - 15 August, 66 ♀.

Genus LYGRIS Hubner 1818 (PETROPHORA Hubner 1822)

- 4401 *diversilineata* Hübner 15 localities, 2 August - 13 September, 17 ♂; 14 August - 20 September, 6 ♀.
- 4401.1 *gracilineata* Guenée Brunswick; Rangeley, 14 August, ♂; Farmington, 1 September, ♀; 26 September, ♂; Augusta, 30 August, ♀, 6 September, ♂, 28 September, ♀; Vassalboro, 28 July, ♂, 12 August, ♂, 9 September, ♂, 12 September, ♂, 21 September, ♂, 27 September, ♀, 28 September, ♂; Bar Harbor, 30 August, ♀, 12 September, ♀; Lincoln, 23 July, ♀, 20 September, ♂; Millinocket, 14 July, ♂, 2 August, ♂.
- 4402 *propulsata* Walker 34 localities, 5 July - 26 August, 189 ♂; 16 July - 9 August, 19 ♀.
- 4403 *testata* Linnaeus 31 localities, 12 July - 18 September, 98 ♂; 30 July - 10 September, 11 ♀.
- 4405 *destinata lugubrata* Moeschler 22 localities, 20 June - 18 August, 34 ♂; no ♀.
- race *unicolorata* McDunnough 38 localities, 5 July - 27 August, 77 ♂; 26 July - 31 July, 3 ♀.
- brown var. Princeton, 29 July, ♀; Dennysville, 6 August, ♀.
- 4405.1 *flavibrunneata* McDunnough Rangeley 3 27 August. Also Eustis, Jackman, Seboomook, Chesuncook and T16R13, (Chimenticook), specimens fit this best.
- 4405.2 *triangulata* Packard Mt. Bigelow, 2 August, 1952 (Brower). This is apparently a distinct, larger species.
- 4406 *explanata* Walker 44 localities, 21 June - 29 August, 515 ♂; 14 July - 5 September, 108 ♀.
- form *canigerata* Walker 30 localities, 8 June - 16 August, 145 ♂; 4 July - 11 August, 67 ♀.
- form *brunneomaculata* Bates 12 localities, 9 July - 2 August, 14 ♂; 18 July - 29 July, 8 ♀.
- 4407 *xylina* Hulst "Maine" Forbes. T14R16, (Depot Mt.), 7 July, ♀ appears to be *xylina*. At A.M.N.H. 1967, type locality, N. Y., no New England specimens. The Alberta specimens are regularly more even on outer border of median shade.
- 4408 *serrataria* Barnes and McDunnough 57 localities, 23 June - 15 August, 581 ♂; 14 July - 28 August, 53 ♀.

Genus DIACTINIA Warren 1898 (PTEROPHORA Hubner 1822)

- 4410 *silaceata albolineata* Packard 48 localities, 19 May - 1 September, 64 ♂; 28 May - 20 August, 94 ♀. Type? Wales (C. A. Frost)

Genus PLEMYRIA Hubner [1825]

- 4412 *georgii* Hulst 17 localities, 15 August - 25 September, 22 ♂; 26 August, 1 ♀.

Genus DYSSTROMA Hubner [1825] (PTEROPHORA Hubner 1822)

- 4413 *truncata* Hufnagel 35 localities, 26 June - 30 August, 83 ♂; 6 July - 27 August, 72 ♀.
 var. *traversata* Kellicott Eustis, 8 July, ♂, 12 July, ♂; Oxbow, 15 July, ♀; T11R8, (Round Mt.), 17 July, ♂, 21 July, ♂; St. Francis, 13 July, ♂; Woodland (Caribou).
- 4413.1 *walkerata* Pearsall 38 localities, 26 June - 26 August, 318 ♂; 2 July - 26 August, 165 ♀. Several specimens agree? with a proposed new Nova Scotia-Newfoundland race.
- 4416 *citrata* Linnaeus 42 localities, 5 July - 13 September, 175 ♂; 4 July - 11 September, 82 ♀.
- 4418 *brunneata* Packard Greenville, 10 July, ♂; Coburn Gore, 8 July, ♂♂?; Allagash, 10 July, 29 July, ♂?. Only the Greenville specimen, determined by Ferguson, agrees well with Packard's figure.
- 4420 *hersiliata* Guenée 52 localities, 27 June - 12 August, 804 ♂; 6 July - 6 August, 105 ♀.
 form *mirandata* Taylor 21 localities, 1 July - 4 August, 79 ♂; 8 July - 2 August, 14 ♀.
 form *cervinifascia* Walker 16 localities, 6 July - 4 August, 35 ♂; 15 July - 26 July, 5 ♀.

Genus THERA Stephens 1831

- 4431 *contracta* Packard 15 localities, 29 July - 9 November, 18 ♂; 30 September - 27 October, 3 ♀. "Maine". Type, Packard.
- 4431.1 *juniperata* Linnaeus (*procteri* Brower) Juniper Carpet of British Isles 14 localities, 12 September - 7 November, 55 ♂; 12 September - 9 November, 86 ♀. The types of *procteri* were found on Mt. Desert Island 1933 - 1938, common in spots. It has spread outward over Maine: Liberty, 1954, Augusta, 1958; East Vassalboro, several in 1966, common in 1968; Farmington, 1963, and numbers in 1964; Lincoln, 1965; Cutler, 1963; and Perry, 1963.

Genus HYDRIOMENA Hubner [1825]

- 4465 *furcata fergusonii* McDunnough 33 localities, 19 May - 16 August, 104 ♂. In the northern and eastern parts of the State.
- 4472 *exculpata nanata* McDunnough Tim Pond (Eustis), 11 July, ♂; T11R8, (Ashland), 10 July, ♀, 13 July, ♂; T15R9, (DeBoulie Mt.), 18 July, ♂; T17R12, (Rocky Mt.), 16 July, ♂.
- 4476 *frigidata* Walker (*divisaria* Walker) Vassalboro, 24 June (3-); Den-
 nistown (Jackman), 8 July, ♀; Rockwood, 12 July, ♀; Winter Harbor, ♀ fed on spruce, emgd. April; Passadumkeag, 18 June (-3); T11R8, (Round Mt.), 10 July, ♀; Tim Pond, 12 July, ♂♂, 17 July, ♂; Allagash, 9 July, ♂.
- 4477 *pluviata* Guenée Monmouth, 25 June, ♂; Sebec Lake, 24 - 30 June, Northeast Harbor; Southwest Harbor; Orono.
- 4477.1 *transfigurata* Swett Bar Harbor, June or July.
- 4478 *perfracta* Swett 23 localities, 23 May - 1 August, 50 ♂; 9 June - 20 July, 19 ♀.
- 4484 *divisaria* Walker Waldoboro, 1 July, ♂; Oquossoc, 8 July, ♂; Tim Pond (Eustis), 12 July, ♂; Lincoln, 7 July, ♂; Ashland, 3 July ♂.

- 4485 *renunciata* Walker 54 localities, 7 May - 6 August, 344 ♂; 19 May - 5 August, 136 ♀.
 4492 *ruberata* Freyer 15 localities, 15 May - 10 July, 30 ♂; 15 May - 7 July, 12 ♀.

**Genus XANTHORHOE Hubner [1825] (OCHYRIA Hubner [1825])
 (RHEUMAPTERA Hubner 1822)**

- 4509 *lacustrata* Guenée 34 localities, 26 April - 6 August, 77 ♂; 10 May - 23 August, 45 ♀.
 4511 *emendata* Pearsall 40 localities, 21 May - 18 August, 89 ♂; 22 May - 3 September, 89 ♀.
 4511.1 *gymnandrata* Pearsall Farmington, 28 June, ♂; Rangeley, 21 July, ♂, 24 July, ♂, 25 July, ♂; Dennistown, 15 July, ♂; Rockwood, 14 July, ♀; Kokadjo, 27 July, ♀; Chesuncook, 25 July, ♂.
 4513 *munitata* Hübner 50 localities, 1 July - 12 August, 856 ♂; 2 July - 10 August, 165 ♀.
 4516 *ferrugata* Clerk 35 localities, 10 May - 22 August, 100 ♂; 26 May - 23 August, 45 ♀.
 form *unidentaria* Haworth Augusta, 27 May, ♀, 29 May, ♂; Chelsea, 11 June, ♀; Jefferson, 13 August, ♂; Farmington, 23 May, ♀; Dennistown, 7 July, ♀; Lincoln, 28 July, ♂; Northeast Harbor; Southwest Harbor.
 4520 *ramaria* Swett & Cassino Chimney Pond, Mt. Katahdin, 4 July, 1951, ♂♂ (Brower).
 4527 *iduata* Guenée 40 localities, 23 June - 7 August, 393 ♂; 4 July - 11 August, 92 ♀.
 4530 *abrasaria congregata* Walker 44 localities, 26 June - 7 August, 512 ♂, 1 July - 21 August, 45 ♀.

Genus PERCNOPTILOTA Hulst 1896 (PLEMYRIA Hubner 1825)

- 4535 *obstipata* Fabricius 40 localities, 25 May - 22 October, 177 ♂; 26 May - 31 October, 63 ♀.

Genus ENTEPHRIA Hubner [1825]

- 4540 *aurata* Packard 14 localities, 9 July - 3 August, 18 ♂; 15 July - 24 August, 6 ♀.

Genus MESOLEUCA Hubner [1825]

- 4546 *ruficollata* Guenée 47 localities, 23 May - 10 August, 158 ♂; 7 June - 28 August, 76 ♀.

Genus EPIRRHOE Hubner [1825]

- 4548 *sperryi* Herbulot (*tristata* Linnaeus) Crystal Bog (Patten), 6 June, 1941 (5-4) (Brower). *Tristata* is an European species.
 4551 *alternata* Müller 44 localities, 31 May - 18 August, 263 ♂; 25 May - 17 September, 253 ♀.

Genus SPARGANIA Guenee 1857 (GLAUOPTERYX Hubner [1825])

- 4555 *magnoliata* Guenée 64 localities, 3 June - 10 August, 297 ♂; 19 June - 21 August, 327 ♀.

- 4556 *luctuata obductata* Moeschler 44 localities, 20 June 13 August, 228 ♂; 4 July - 4 August, 29 ♀.

Genus EUPHYIA Hubner [1825] (RHEUMAPTERA Hubner 1822)

- 4558 *unangulata intermediata* Guenée 51 localities, 25 May 10 September, 164 ♂; 25 April 9 September, 141 ♀.
- 4559 *centrostrigaria* Wollaston Dennysville, 23 July, ♂ 3 August, ♂; Farmington, 3 October, ♀; Augusta, 20 July, ♀; Trenton, 8 November, ♂; Bar Harbor, 25 July 25 October, 16 August, ♀, 1 October, ♂, 21 October, ♀, 22 October (1-2); Lincoln, 5 August, ♀; Shin Pond, 10 June ♀; Ashland, 3 July, ♀.
- 4561 *multiferata* Walter 12 localities, 29 June - 8 November, 4 ♂; 6 June - 5 August, 5 ♀.

Genus CAMPTOGRAMMA Stephens 1831 (PHILEREME Hubner [1825])

- 4572 *stellata* Guenée Bar Harbor, 6 September, 1934, ♂, 10 September, 1934, ♀; Mt. Desert, 9 September, 1934, ♀.

Genus EULYPE Hubner [1825] (RHEUMAPTERA Hubner 1822)

- 4573 *hastata* Linnaeus Brunswick; Farmington, 8 June, ♀; Coburn Gore, 9 June, ♂; Mt. Katahdin 4600', 4 July, 1958 ♀ (Brower).
race *gothicata* Guenée 21 localities, 6 May - 15 July, 11 ♂; 28 May - 9 July, 12 ♀.
- 4574 *albodecorata* Blackmore Southwest Harbor Bog, 5 June, ♂♀, 8 June, ♂♀, 12 June, ♂♂, 6 July, ♂♀; Crystal Bog, 6 June, ♀ (Brower). These local colonies are similar to Oregon-British Columbia specimens and morphologically distinct from eastern *hastata*.

Genus PERIZOMA Hubner [1825]

- 4575 *basaliata* Walker 42 localities, 7 July - 4 September, 1940 ♂; 11 July 18 August, 1096 ♀.
- 4575.1 *grandis* Hulst T15R13, (Chimeticook), 12 July, ♂, 20 July, ♂, 23 July, ♀, 30 July, ♀; T18R12, (Rocky Mt.), 11 July, 20 July, ♂♀, 24 July (3-1), 26 July (4-), 27 July (-3), 28 July, ♂♀, 29 July ♀♀, 30 July, ♂, 2 August, ♂♂, 3 August, (3-1).

Genus EAROPHILA Gumpfenberg 1887 (ANTICLEA Stephens 1831)

- 4587 *vasiliata* Guenée 17 localities, 25 April 19 July, 40 ♂; 28 April - 5 July, 38 ♀.
form *niveifasciata* Hulst Rangeley, 11 June, ♀; Bingham, 5 May, ♀; Readfield, 25 May, ♀; Augusta, 30 May, ♀; Camden, 29 April, ♂ (Brower); Enfield, 25 May, ♂.

Genus VENUSIA Curtis 1825 (EPIRRITA Hubner 1822)

- 4589 *cambrica* Curtis 35 localities, 22 June 10 August, 1052 ♂; 7 July 5 August, 140 ♀.
- 4592 *comptaria* Walker Farmington, 29 April, ♂, 9 May, ♂, 12 May, ♂; Mt. Vernon, 9 May, ♂; Vassalboro, 26 May (5-3), 29 May, ♀; Bar Harbor, 2 May (1-2), 3 May, ♂, 4 May, ♂, 11 May (2-2), 19 May,

21 May, ♀, 27 May, ♀; Northeast Harbor, 27 May, ♂; Orono (Fernald); Enfield, 8 May, ♀; T18R12, (Rocky Mt.), 21 July, ♀; Castle Hill (Ashland). June, 1973 (Brower).

Genus HYDRELIA Hubner 1825 (ASTHENA Hubner [1825])

- 4594 *lucata* Guenée (*condensata* Walker) 27 localities, 10 June - 26 August, 109 ♂; 30 June - 30 July, 9 ♀.
 4596 *inornata* Hulst 41 localities, 8 June - 5 August, 332 ♂; 20 June - 26 July, 21 ♀.
 4597 *abifera* Walker 24 localities, 20 June - 25 July, 46 ♂; 8 July - 25 July, 8 ♀.

Genus EUDULE Hubner 1825 (EUPHANESSA Packard 1864)

- 4599 *mendica* Walker 44 localities, 25 June - 5 August, 701 ♂; 25 June - 14 August, 139 ♀.

Genus BAPTA Stephens 1829 (CORYCIA Duponchel 1829 & 1830)

- 4605 *semiclarata* Walker 23 localities, 11 May - 9 July, 15 ♂; 25 May - 16 July, 7 ♀.
 4606 *vestaliata* Guenée 39 localities, 8 May - 15 August, 167 ♂; 26 May - 23 July, 65 ♀.
 4608 *glomeraria* Grote 10 localities, 27 April - 30 June, 113 ♂; 1 May - 7 July, 72 ♀.
 form *merrieki* Cassino & Swett Farmington, 4 May, ♀, 14 May, ♀, 20 May, ♀, 26 May, ♀.

Genus DEILINIA Hubner [1825] (DREPANULATRIX Gumpfenberg 1887) (EUDEILINIA Packard 1876)

- 4612 *variolaria* Guenée 58 localities, 9 May - 9 September, 1200 ♂; 6 June - 15 August, 240 ♀.
 4614 *erythemaria* Guenée 48 localities, 31 May - 11 August, 655 ♂; 29 May - 18 August, 36 ♀. Larvae on *Populus*, Sandy Bay Pln. and on *Salix* in Castine.
 4631 *liberaria* Walker Hampton, New Hampshire, 16 September, 1909, ♀. This New Jersey Tea feeder should stray into southwest Maine.

Genus MELLILLA Grote 1873 (LYTHRIA Packard 1876)

- 4657 *xanthometata* Walker Rangeley, 9 September, ♂, 15 September, ♂. (*inextricata* Walker see following 4750 and Forbes, Pt. II, p. 40).

Genus ISTURGIA 1823 (EPELIS Hulst 1896)

- 4658 *truncataria* Walker 24 localities, 15 May - 4 July, 20 ♂; 17 May - 30 June, 23 ♀. A number of localities have "several" to "common" without sex of this day-flying species.

Genus HELIOMATA Grote & Robinson 1866

- 4662 *cycladata* Guenée Smithfield, 16 June, ♂ (Brower), 25 June, ♂♂ (Brower); Belgrade, 16 June (10+) common about *Robinia*; Gardiner, 4 June, ♀; Augusta, 16 June (2-1), 17 June, ♀, 18 June, ♂♂; Mt.

Vernon, 22 June, ♂, 28 June, ♀♀, 29 June, ♀, 20 June, ♂♀; Vassalboro, 21 June, ♂, 26 June, ♂, 19 July, ♂♀, Enfield, 20 June, ♀; Lincoln, 27 June, ♀, 15 July, ♀; Long A (Millinocket) 2 July, ♀.

Genus PHYSOSTEGANIA Warren 1894 (ITAME Hubner 1823)

4663 *pustularia* Guenée 33 localities, 3 July - 28 August, 2015 ♂; 20 June - 13 September, 581 ♀.

Genus PHILOBIA Duponchel 1829 (SEMIOTHISA Hubner 1818)

4664 *ulsterata* Pearsall 33 localities, 27 May - 9 August, 418 ♂; 21 June - 11 August, 59 ♀

4665 *aemulataria* Walker 38 localities, 16 June - 15 August, 316 ♂; 6 July - 25 July, 36 ♀.

Genus SEMIOTHISA Hubner 1818 (MACARIA 1826 Curtis) (PHASIANE Duponchel 1829)

4670 *minorata* Packard 25 localities, 16 May - 12 August, 118 ♂; 5 June - 1 September, 120 ♀.

4671 *bisignata* Walker 26 localities, 11 May - 3 August, 92 ♂; 8 June - 9 August, 118 ♀.

4673 *bicolorata* Fabricius 11 localities, 14 July - 8 August, 12 ♂; 4 July - 27 July, 10 ♀. In the coastal half of Maine, especially southwestern.

4674 *distribuaria* Hubner Kittery Pt.; Oquossoc, 28 July, ♂; Kingfield, 14 July, ♀; Rockwood, 11 July, ♂; Bar Harbor, 9 July, ♀, 18 July, ♀, 4 August, ♀; T15R9, (De Boulie Mt.), 21 July, ♂, 3 August, ♂.

4677 *multilineata* Packard Dover, New Hampshire, 1 July, 1964 ♂, at black light.

4680 *granitata* Guenée Norway, 28 July, ♀; Augusta, 28 July, ♂, det. as this with a "?" by Ferguson.

4680.1 *irregularata* Walker McDunnough matched a specimen from Biddeford with the type in the British Museum.

4680.2 *disrupta* Walker Oquossoc, 20 July, ♀; Farmington, 3 June; Belgrade, 13 June, ♀; Waterville, 25 June, ♂ (Brower); Lincoln, 17 June, ♂; T18R12 (Rocky Mt.), 31 July, ♀.

4680.3 *fissinotata* Walker Farmington, 14 June, ♂, 16 June, ♂, 13 July, ♀; Augusta, 14 July, ♀, 30 July, ♀; Vassalboro, 24 June, ♀; Waterville, 25 June, ♀; Lincoln, 5 July, ♀, 12 July, ♂; T10R12, 19 July, ♂; T18R12, (Rocky Mt.), 3 July, ♂; Marion, 23 July, ♀.

4680.4 *retinotata* Walker Augusta, 10 July, ♀; Chesuncook, 18 July, ♂, Sebago Lake, 27 June, ♀; Bar Harbor, 7 June, ♀; Enfield, 3 June, ♂, 18 June, 20 June, ♀, 24 June, ♂♀, 25 June, ♂, 26 June, ♂, 26 August, ♂; Lincoln, 7 July, ♂, 9 July, ♀, 15 July, ♂, 19 July, ♂; T9R5, (Oxbow), 5 July, ♀, 14 July, ♀, 17 July, ♀; T11R8, (Round Mt.), 12 July, ♀.

4680.5 *submarmorata* Walker Farmington, 12 July, ♀; Augusta, 16 July, ♀; Vassalboro, 18 July, ♂, 30 August, ♂; Sullivan, 8 June, ♂ (Brower); Lincoln, 14 July, ♂, 22 July, ♀, 28 July, ♀; Pittston Farm, 17 July, ♀; Ashland, 30 July, ♀; T11R8, (Round Mt.), 9 July, ♂; T18R12, (Rocky Mt.), 12 July, ♂; Marion, 20 July, ♀, 23 July, ♀, 25 July, ♀.

- 4681 **oweni** Swett Eustis, 8 July, ♂; Augusta, 27 June, ♂; Vassalboro, 7 June, ♂, 4 July, ♂; Bangor, 10 June, ♀ (Brower); Passadumkeag, 1 June, ♀ (Brower); Marion, 23 July, ♀, Dennysville, 10 July, ♂; Jonesboro, 17 July, ♂.
- 4681.1 **sp.?** Kittery Pt., 3 July, ♀; Farmington, 4 June, ♂, 14 July; Augusta, 14 July, ♂; Vassalboro, 3 July, ♂, 22 July, ♀; Lincoln, 11 July, ♂, 12 July, ♂; T18R12, (Rocky Mt.), 12 July, ♀; Topsfield, 9 July, ♀; Marion, 23 July, ♂♀.
- *4682 **perplexa** McDunnough This species has been reported in New Brunswick 8 to 17 July, reared from larch by Ferguson and Rupert, and is to be expected in Maine.
- 4684 **unimodaria** Morrison Specimens of the Augusta area have been segregated as this, but are uncertain.
- 4685 **succosata** Zeller Kittery Pt., 6 July. This species is close to *granitata* and occurs in southwest Maine. Another food plant or other species may be involved in the specimens at hand.
- 4687 **sexmaculata** Packard 34 localities, 7 June - 27 August, 163 ♂; 29 May - September, 124 ♀.
- 4695 **eremiata** Guenée Albion by J. C. Parlin. This species has been reported from central New Hampshire. Though I have not seen any Maine specimens, it may occur.
- 4710 **continuata** Walker Enfield, 10 - 21 June (5-2), 10 September, ♂ (all Grey); Mt. Katahdin, 16 July, 1953. These were determined specimens. Perhaps it would be best to restrict *continuata* to more southern material.
- 4712 **orillata** Walker 49 localities, 10 June - 10 September, 281 ♂; 10 June - 1 August, 87 ♀.
- 4723 **ocellinata** Guenée So. Maine (Packard); Farmington, 28 August, ♂; Mt. Vernon, 10 June, ♂♀, 1 July, ♂, 2 July (2-1); Augusta, 28 May, ♂, 12 June, ♂, 17 June (3-), 26 June, ♀, 5 July, ♂, 18 July, ♂, 1 August, ♂, 8 August, ♀, 9 August, ♂, 12 August, ♂, 15 August, ♀, 16 August, ♀, 20 August, ♂; Enfield, 25 July, ♀; Lincoln, 12 July, ♀, 15 July, ♀, 17 July, ♀, 18 July, ♂, 23 July, ♀, 26 July, ♀♀, 29 July, ♂♀, 31 July, ♀, 6 August, ♀.
- 4725 **neptaria trifasciata** Packard 21 localities, 5 June - 2 September, 86 ♂; 17 June - 5 August, 15 ♀.
- 4726 **mellistrigata** Grote 22 localities, 20 May - 7 September, 141 ♂; 2 July - 7 August, 27 ♀.

Genus ITAME Hubner 1823

- 4746 **ribearia** Fitch, Currant Spanworm Bridgton, about 1900-1906, Emma G. Holland; Norway, 1864 or 1865, 5 specimens, 18 July, 1905, ♂, 25 July, 1907, ♂; Skowhegan, Hitchins collection, Sam Hitchins says larvae were on currants; Brunswick, "northern States, everywhere abundant" Packard; Orono, (Fernald); Sebec Lake, 24 - 31 July; Millinocket, 23 July, ♂. In my forty years collecting, but one specimen has been secured.
- 4748 **argillacearia** Packard 35 localities, 15 June - 30 July, 86 ♂; 8 June - 18 July, 18 ♀.

- 4749.1 *andersoni orientis* Ferguson 27 localities, 3 July - 17 August, 39 ♂; 16 July, 1 ♀, 27 July, 1 ♀.
- 4750 *evagaria* Hulst T9R5 (Oxbow), 17 July, ♂; 20 July, ♂, 28 July, ♂; T11R8, (Round Mt.), 19 July, ♂, 20 July, ♂, 21 July, ♂, 24 July, ♂, 25 July (3-).
- *inextricata* Walker (in McDunnough list as *Mellilla*) Albion, reported by J. C. Parlin and in Clayton collection at Lincoln by L. P. Grey are too uncertain (a controversial name) to include as a species.
- 4751 *sulphurea* Packard 29 localities, 26 June - 7 August, 108 ♂; 28 June - 25 August, 26 ♀.
- 4752 *fulvaria* Villers 53 localities, 10 June - 14 August, 433 ♂; 17 June - 17 July, 65 ♀.
- 4754 *subcessaria* Walker 27 localities, 4 July - 8 August, 82 ♂; 8 July - 8 August, 12 ♀.
- 4756 *coortaria enigmata* Barnes & McDunnough Oquossoc, 13 July, ♂; T15R9, (DeBoulie Mt.), 13 July, ♂; T18R12, (Rocky Mt.), 3 August, ♂♂.
- 4759 *anataria* Swett 37 localities, 30 June - 14 August, 1356 ♂; 7 July - 2 August, 120 ♀.
- 4762 *exauspicata* Walker 24 localities, 4 July - 7 August, 101 ♂; 15 July - 4 August, 4 ♀.
- 4771 *bitactata* Walker 32 localities, 5 July - 20 August, 83 ♂; 18 July - 1 August, 3 ♀.
- 4774 *latiferrugata brunneata* Packard 15 localities, 6 June - 6 August, 36 ♂; 23 June - 19 July, 7 ♀.
- 4785 *virginalis* Hulst 38 localities, 26 May - 12 August, 624 ♂; 21 May - 14 August, 59 ♀.

Genus DYSMIGIA Warren 1895 (ITAME Hubner 1823)

- 4797 *loricaria julia* Hulst 43 localities, 20 June - 14 August, 434 ♂; 11 July, 1 ♀.

Genus HESPERUMIA Packard 1874 (OPISTHOGRAPTIS Hubner 1823)

- 4801 *sulphuraria* Packard 54 localities, 29 June - 23 August, 539 ♂; 19 June - 17 August, 57 ♀.

Genus EMATURGA Lederer 1853

- 4802 *amitaria faxonii* Minot 18 localities, 14 May - 7 July, 25 ♂, 29 May - 15 July, 6 ♀.

Genus EUFIDONIA Packard 1876 (FIDONIA Treitschke 1827)

- 4803 *notataria* Walker 36 localities, 26 May - 30 July, 226 ♂; 2 June - 25 July, 33 ♀.
- form *convergaria* Walker Kittery Pt.; Monmouth; Augusta, 16 June, ♂, 18 June, ♀; Passadumkeag, 11 June, ♀; Lincoln, 26 July, ♀.
- The variety *famulata* Hulst is in the material. T9R5 (Oxbow), 7 July, ♂, Topsfield, 6 July, ♂.
- 4804 *discospilata* Walker 24 localities, 17 May - 29 July, 54 ♂; 28 May - 29 June, 26 ♀.

Genus ORTHOFIDONIA Packard 1876

- 4805 *tinctaria* Walker 17 localities, 18 May 6 August, 17 ♂; 16 May 7 August, 10 ♀.
- 4805.1 *flavivenata* Hulst Vassalboro, 26 May, ♂; Bar Harbor, 30 April, ♂, 10 May, ♀, 17 May, ♀, 18 May, ♀; Lincoln, 26 May, ♂ (Brower).
- 4805.2 species T9R5 (Oxbow), 16 June, 1972, ♂ (Brower).

Genus PARAPHIA Guenee 1857 (HYPAGYRTIS Hubner 1818)

- 4807 *unipunctata* Haworth Dennistown, 16 July, ♂♂, 17 July, ♂♂, 19 July, ♂♀; Bar Harbor, 30 May 17 July (Brower).
- *4808 *esther* Barnes Hampton, New Hampshire, 26 June, 1936, ♂.
- 4809 *subatomaria* Wood 16 localities, 19 June 8 August, 129 ♂; 23 June - 20 July, 13 ♀.
- semi-melanic Augusta, 28 June, ♂; Enfield, 21 July, ♂; Lincoln, 12 July, ♂♀, 17 July, ♂; T11R8, (Round Mt.), 26 July, ♂.
- form *mammuraria* Guenee Augusta, 20 June, ♂, 28 June, ♂; Vassalboro, 4 July, ♂; Enfield, 16 July, ♂; Lincoln, 2 July, ♂, 12 July, ♀. These may be a form of *subatomaria* or a more southern species.
- 4810 *nubecularia* Guenee Rangeley, 9 July, ♂♂, 10 July, ♂; Coburn Gore, 25 July, ♂; Farmington, 5 July, ♂, 7 July, ♀, 11 July, ♂♂, 5 August, ♂; Augusta, 23 June, ♂, 29 June, ♀, 9 July (4-), 14 July, ♂; Bar Harbor, 11 July, ♂; Lincoln, 23 June, ♂, 2 July, ♂, 3 July, ♂, 8 July, (4-), 10 July (2-), 13 July, ♂; Long A (Millinocket), 3 July (7-2), 4 July (-1), 6 July (4-), 7 July (12-), 8 July (4-), 9 July (3-), 17 July, ♂; Mt. Katahdin, 11 July, 1934, ♂; T18R12, (Rocky Mt.), 24 July, ♂; Marion, 21 July, ♂.
- 4811 *piniata* Packard 30 localities, 10 June 9 August, 412 ♂; 10 June 28 July, 20 ♀.
- semi-melanic Lincoln, 2 July, ♂; T18R12, (Rocky Mt.), 24 July, ♂
- melanic (black specimens) Augusta, 22 June, ♂; also No. Hampton, New Hampshire, 22 June, 1962, ♂; Hampton, New Hampshire, 28 June, 1935, ♂.

Genus MELANOLOPHIA Hulst 1896 (TEPHROSIA Boisduval 1840)

- 4856 *canadaria* Guenee 26 localities, 13 May 2 August, 161 ♂; 1 June 5 August, 6 ♀.
- 4857 *signataria* Walker 19 localities, 27 April - 12 July, 88 ♂; 10 May - 8 July, 6 ♀.

Genus PROTOBOARMIA McDunnough 1920

- 4875 *porcelaria indicataria* Walker 31 localities, 18 May 10 August, 302 ♂; 30 June - 5 August, 67 ♀. Bar Harbor, 8 October, 1944, larva on fir.

Genus CLEORA Curtis 1825

- 4877 *manitoba* Grossbeck (*projecta* Walker) Lincoln Tract (Wilson's Mills); Rangeley, 1931.
- Projecta* supplants *manitoba* which falls into synonymy.

Genus PSEUDOBOARMIA McDunnough 1920 (CYMATOPHORA Treitschke 1825)

- 4880 *umbrosaria* Hübner Portland (E. S. Morse); Brunswick; Bar Harbor, 29 June, ♂, det. by Rindge.

Genus GLENA Hulst 1896 (MONROA Warren 1904) (CLEORA Curtis 1825)

- 4882 *cognataria* Hübner 25 localities, 4 May - 31 July, 49 ♂; 29 May - 3 August, 24 ♀.
- 4883 *cribrataria* Guenée Kittery Pt.; Brunswick, 5 June, reared from spruce; Farmington, 21 June, ♂, 23 June, ♂♂; Augusta, 16 June, ♂; Unity, 8 June, ♂, 29 June, ♂; Lincoln, 2 July, ♀, 9 July, ♂; Kellyland (Princeton), 8 July, ♂.

Genus STENOPORPIA McDunnough 1938

- 4894 *polygrammaria* Packard Kittery Pt., 10 June.

Genus VITRINELLA McDunnough 1920 (ANAVITRINELLA McDunnough 1922)

- 4908 *pampinaria* Guenée, Cranberry Spanworm 30 localities, 27 May - 7 August, 196 ♂; 9 June - 28 July, 32 ♀.

Genus ANACAMPTODES McDunnough 1920

- 4912 *larvaria* Guenée 47 localities, 9 June - 24 August, 818 ♂; 11 July - 4 August, 18 ♀.
- 4916 *ephyraria* Walker 36 localities, 30 June - 22 August, 116 ♂; 26 May - 6 August, 22 ♀.
- 4917 *humaria* Guenée York; Brunswick; Monmouth, 26 June, ♀; Chester, 29 May, ♀; Varsalboro, 4 June, ♂; Bar Harbor, 29 May - 6 June; Orono (Fernald); T13R12, (Round Pond Mt.), 15 July, ♂; T17R12, (Rocky Mt.), 29 July, ♂; Topsfield, 16 July, ♂.
- 4918 *vellivolata* Hulst 17 localities, 21 May - 1 August, 17 ♂; 5 June - 24 July, 3 ♀.

Genus AETHALURA McDunnough 1920

- 4945 *anticaria* Walker 29 localities, 30 April - 6 August, 70 ♂; 3 May - 2 August, 17 ♀.

Genus ECTROPIS Hubner 1826

- 4946 *crepuscularia* Schiffermuller 21 localities, 3 May - 5 August, 29 ♂; 27 April - 1 August, 13 ♀.
- form *abraxaria* Walker Bar Harbor, 5 May, ♂, 10 May, ♀, 12 May, 13 May, ♂, 16 May, ♂, 18 May, ♂, 22 May, ♀, 23 May, ♂; Ashland, 1948, ♀ emgd.; Topsfield, 7 November, ♀ emgd.
- melanic *fumataria* Minot. Bar Harbor, 22 May, 1937, ♂; Connor, 3 November, 1939, ♀.

Genus NACOPHORA Hulst 1896

- 4953 *quernaria* Abbot & Smith 12 localities, 23 May - 19 July, 42 ♂; 3 June - 17 June, 5 ♀. In southern Maine with oak.

Genus PHIGALIA Duponchel 1829

- 4956 *olivacearia* Morrison Augusta, 13 May, ♂♂; Hampton, New Hampshire, 27 March, ♂, 19 April, ♂.

- 4958 *titea* Cramer Kingfield, 24 April, ♂; Farmington, 17 April, ♂, 19 April (3-), 27 April, ♂♂, 28 April (4-), 1 May, ♂♂, 4 May, ♂; Mt. Vernon, 27 April, ♂♂. 2 May, ♂♂, Augusta, 27 March, ♂♂, 4 May, ♂, 6 May, ♂; Vassalboro, 17 April, ♂, 26 April, ♂♂, 27 April (7-), 29 April, ♂, 30 April, ♂, 1 May (3-), 2 May, ♂♂, 4 May, ♂, 5 May, (3-), 11 May (3-), 18 May, ♂♂, 19 May, ♂♂, 22 May, ♂; Lincoln, ♂♂; Mt. Desert, April, ♂.

Genus PALAEACRITA Riley 1875

- 4960 *vernata* Peck, Spring Cankerworm Farmington, ♂, 16 April (3-), 19 April, ♂, 22 April, ♂, 28 April (8-). 29 April, ♂, May several ♂, 1 May, ♂, 2 May, ♂, 4 May, ♂♂, 6 May, ♂.

Genus ERANNIS Hubner [1825]

- 4964 *tiliaria* Harris, Linden Looper 15 localities, 2 October 9 November, 46 ♂; 22 October, 5 ♀.

Genus LYCIA Hubner 1825 (BISTON Leach 1815)

- 4966 *ursaria* Walker Norway, 29 April, ♂, 30 April, ♂; Farmington, 19 April, ♂, 21 April, ♂, 23 April, ♂, 24 April, ♂♂, 27 April (4-), 28 April (9-), 29 April, ♂, 30 April (8-), 1 May, ♂♂, 2 May, ♂♂, 4 May, ♂♂, 5 May, ♂♂, 7 May (6-), 9 May, ♂, 17 May, ♂, 25 May, ♂♂; Vassalboro, 26 April, ♂♂, 29 April, ♂♂, 30 April, ♂, 1 May, ♂♂, 5 May, ♂♂, 6 May (4-), 8 May (3-), 11 May, ♂♂, 18 May, ♂, 22 May, ♂, 27 May, ♂; Augutsa, 6 May, ♂♂, 7 May, ♂; Unity, 18 June, ♂; Bar Harbor, 30 April; Orono, 14 May, ♂♂; Lincoln, 12 May, ♂♂, 30 May, ♂, 10 June, ♂; Ft. Kent, 3 June, ♂♂; T8R18, 10 July, ♂.

Genus POECILOPSIS Harrison 1910

- *4967 *rachelae* Hulst Strafford, New Hampshire (town west of Rochester), 30 April, 1965, ♂, light trap.

Genus AMPHIDASIS Treitchke 1825 (LYCIA Hubner 1825)

- 4968 *cognataria* Guenée 37 localities, 12 May - 23 August, 538 ♂; 1 July - 18 July, 22 ♀.
melanic *swettaria* McDunnough Dennistown, 2 July, ♂; Greenville, 9 July, ♂; Farmington, 22 June, ♂; Lincoln, 25 July, ♂; Millinocket, 12 July, ♂; Base of Mt. Katahdin, 17 July, 1958 (Brower).

Genus EUGONOBAPTA Warren 1894

- 4991 *nivosaria* Guenée 12 localities, 3 July 5 August, 452 ♂; 14 July 11 August, 11 ♀.

Genus LYTROSIS Hulst 1896 (HEMEROPHILA Stephens 1829)

- 4993 *unitaria* Herrich-Schaeffer Kittery Pt.; Andover, ♂ (F. G. Sanborn).

Genus EUCHLAENA Hubner 1825

- 4994 *serrata* Drury 23 localities, 3 July 3 August, 268 ♂; 28 June 11 August, 31 ♀.

- 4995 *obtusaria* Hübner 15 localities, 2 July - 26 July, 23 ♂; 9 July, 1 ♀, 9 - 26 July, 1 ♀.
- 4995.1 *muzaria* Walker North Gray, 6 July, ♀ (L. R. Rupert); Vassalboro, 18 June (+-2), 21 June (+-), 27 June, ♂, 7 July, ♂; Bar Harbor, 28 July, ♂; T13R12. (Round Pond Mt.), 2 July, ♂♀; T18R12. (Rocky Mt.), 10 July, ♂♂, 11 July (3-); Ft. Kent, 6 July, ♀; Guerette, 10 July, ♂; Woodland (Calais). 14 July, ♂, 16 July, ♂♂.
- 4995.2 species 13 localities, 5 July - 3 August, 20 ♂; 6 July - 12 July, 3 ♀. This may be a color form of *obtusaria* or *muzaria*.
- 4996 *effecta* Walker 42 localities, 15 May - 29 July, 472 ♂; 15 May - 11 August, 97 ♀.
- 4997 *johnsonaria* Fitch (*bilinearia* Packard) 39 localities, 25 June - 26 July, 147 ♂; 15 May - 2 August, 52 ♀.
- 5000 *vinulentaria* Grote & Robinson (*madusaria* Walker) Augusta, 2 July, ♂; Bar Harbor, 30 July, ♂; East Machias, 2 August, ♀.
 race *oponearia* Walker Augusta, 23 July, ♀; Bar Harbor, 25 June - 15 July, 30 June, ♂, 4 July, ♂, 5 July, ♂; Mt. Desert, 13 July, ♂; Passadumkeag, 17 June, ♂, 19 June, ♂, 24 June, ♂, 25 June, ♂; Lincoln, 24 June, ♀, 25 June, ♂, 4 July, ♀; Oxbow, 9 July, ♀, T11R17 (Lac Frontiere), 9 July, ♀; Kellyland (Princeton), 27 July, ♀; Marion, 15 July, ♀. This is sometimes placed with *astylusaria*.
- 5001 *astylusaria* Walker Kittery Pt.: Bar Harbor, June 27; Passadumkeag; Enfield, 12 June (Grey). All questionable. This species is placed as a subspecies of *amoenaria* by Rindge.
- 5002 *marginata* Minot 20 localities, 13 May - 28 July, 71 ♂; 25 May - 1 August, 21 ♀.
- 5003 *pectinaria* Dennis & Schiffermuller Vassalboro, 7 June, ♂, 23 June, ♂, 9 July, ♂♀; Enfield, 25 July, ♀, 26 July, ♀; Patten, 8 July, ♀, 10 July, ♂♀; Houlton, 24 June, ♂; Guerette, 23 July, ♂; T8R13. (Tramway), 16 July, ♀; T9R18. (Hardwood Mt.), 7 July, ♂.
 form *sirenaria* Strecker T15R9. (De Boulie Mt.), 6 July, ♂; Coburn Gore, 17 July, ♀.
 form *propriaria* Walker Oquossoc, 3 July, ♂, 4 July, ♂; Jackman, 5 July; Seboomook, 4 August, ♂, Rockwood, 6 July, ♂; T11R8. (Round Mt.), 16 July, ♂; T15R13. (Big Black River), 27 July, ♂; Lincoln, 23 June, ♀.
- 5005 *tigrinaria* Guenée 22 localities, 16 June - 30 July, 61 ♂; 25 June - 12 July, 9 ♀.
- 5006 *irraria* Barnes and McDunnough 17 localities, 23 June - 25 September, 22 ♂; 23 June - 12 July, 8 ♀.

Genus XANTHOTYPE Warren 1894 (ANGERONA Duponchel 1844)

- 5007 *sospeta* Drury 43 localities, 13 June - 26 August, 155 ♂; 25 June - 28 July, 26 ♀.
- 5010 *urticaria* Swett 55 localities, 19 June - 21 August, 1414 ♂; 24 June - 9 August, 40 ♀.

Genus SPODOLEPIS Hulst 1896 (EPIRRANTHIS Hubner [1825])

- 5012 *substriataria* Hulst Wilson's Mills, 31 May, ♀, June, reared on aspen; Oquossoc, 19 May, ♂; Rangeley, 19 May, 20 May, ♂♀ (in M.C.Z.); Farmington, 22 April, ♂, 25 April, ♀, 30 April, ♂, 4 May, ♂, 8 May,

♂♀, 10 May, ♀, 11 May, ♂, 15 May (5-1), 16 May, ♂, 18 May, ♂, 24 May, ♂; Mt. Vernon, 27 April, ♂, 30 April, ♀; Vassalboro, 26 May, ♂♂, 2 June, ♀, 27 July, ♂; Bar Harbor, 1 May, 12 May, ♂; Lincoln, 25 July, ♂

Genus CAMPAEA Lamarck 1817 (METROCAMPA Latreille 1825)

- 5015 *perlata* Guenée 54 localities, 6 June - 11 September, 2411 + ♂; 20 June - 11 September, 166 ♀.
second brood 5 localities, 18 August - 24 September, 26 ♂; 18 August - 30 October, 20 ♀.

Genus GUENERIA Packard 1876

- 5016 *basiaria* Walker York; Brunswick, 8 June - 10 July, "very common"; Monmouth; Augusta, 30 May, ♂, 15 June, ♂, 16 June, ♂, 17 June, ♀; Bar Harbor, 13 June, ♂, 15 June, ♂; Long Pond (Mt. Desert), 16 July (Johnson); Mt. Desert, 16 July; Orono (Fernald); Passadumkeag, 15 June, ♂, 18 June, ♂; Enfield, 5 June, ♀.

Genus HOMOCLODES Hulst 1896

Homocloides fritillaria has been found to be a complex of three species, all in the area. As yet indefinitely separated, the material at hand has been sorted to:

- 5022 *fritillaria* Guenée Augusta, 30 May, ♂, 11 June, ♀, 29 June, ♀; Bar Harbor, 11 June, ♂.
5022.1 *laetispargaria* Walker? Bar Harbor, 11 May, ♂, 18 May, ♀, 26 May, ♂.
5022.2 *disconventa* Walker? Augusta, 18 June, ♂; Bar Harbor, 6 June, ♀, Northeast Harbor, 2 June. ? (Brower); Lincoln, 5 July, ♂.

Genus APAECASIA Hulst 1896 (LITHINA Hubner [1825])

- 5023 *detersata* Guenée 38 localities, 15 May - 30 July, 236 ♂; 30 May - 30 July, 149 ♀.
5024 *atropunctata* Packard 19 localities, 29 May - 21 July, 14 ♂; 27 June - 17 July, 5 ♀.
5025 *subaequaria* Walker 30 localities, 4 May - 24 July, 80 ♂; 18 May - 24 July, 23 ♀.
5026 *extremaria* Walker Passadumkeag, 11 June, 1938, ♀.

Genus PRIOCYCLA Guenee 1857

- 5028 *armataria* Herrick-Schaeffer 34 localities, 7 June - 4 August, 147 ♂; 17 June, 1 ♀.
5029 *decoloraria* Hulst 25 localities, 3 June - 31 August, 92 ♂; 22 June - 18 August, 13 ♀.

Genus PLAGODIS Hubner [1823]

- 5030 *serinaria* Herrick-Schaeffer 32 localities, 17 May - 19 July, 82 ♂; 27 May - 18 July, 20 ♀.
var. *rosaria* Grote Farmington, 29 May, ♂♂; Mt. Vernon, 11 July, ♂.
5031 *nigrescens* Hulst = *keutzingi* Grote 29 localities, 31 May - 8 August, 362 ♂; 5 June - 1 August, 56 ♀.

- 5032 *keutzingaria* Packard Kittery Pt.; Rangeley, 17 June, ♂, 18 June, det. Munroe; Farmington, 7 May, ♂, 9 May, ♀, 10 May, ♂, 17 May, ♀, 27 May, ♂, 30 May, ♂, 1 June, ♂, 18 June, ♂; Augusta, 13 May, ♂♂, 24 May, ♂, 28 May, ♂; Vassalboro, 5 May, ♂, 27 May, ♂; Orono (Fernald); Enfield, 20 May, ♂; Lincoln, 26 May, ♂; Millinocket, 30 July, ♂♀; Topsfield, 14 July, ♂.
- 5033 *purpuraria* Pearsall Vassalboro, 24 June, 1967, ♂ (sp.?); Hampton, New Hampshire, 14 May, 1934, ♂.
- 5034 *approximaria* Dyar Farmington, 7 May, ♀, 10 May, ♂, 20 May, ♂, 27 May, ♂; Vassalboro, 7 June, ♀.
- 5036 *fervidaria* Herrich-Schaeffer Kittery Pt.; Farmington, 15 May, ♂, 27 May, ♀, 29 May, ♂, 1 June, ♂, 2 June, ♂♂, 3 June, ♂, 7 June, ♂, 9 June, ♂, 12 June, ♂, 13 June, ♂, 17 June, ♂, 18 June, ♂, 20 June, ♀, 3 July (3-), 4 July, ♂; Orono (Fernald); Lincoln (Grey); T11R8, (Round Mt.), 7 July, ♂.
- 5037 *schuyllensis* Grossbeck Norway, 12 August, ♂; Kingfield, 29 July, ♂, Oquossoc, 9 July, ♂; Farmington, 16 July, ♀, 20 July, ♂, 23 July, ♂, 28 July, ♀; Augusta, 4 August, ♂; Lincoln, 26 July, ♀.
- 5038 *alcoolaria* Guenée 24 localities, 23 May - 15 July, 81 ♂; 15 June - 21 July, 18 ♀.
- 5040 *phlogosaria* Guenée 13 localities, 30 May - 15 August, 356 ♂; 17 July - 12 August, 29 ♀.
race iris Rupert Farmington, 18 April, ♀, 28 April, ♂, 11 May, ♂, 22 May, ♀, 28 May, ♂; Mt. Vernon, 2 June (3-); Augusta, 10 May, ♂, 13 May, ♂, 21 May, ♂; Bar Harbor, 26 May, ♂; 5 N.D. (Springfield), 22 May, ♀; T11R10, (Horseshoe Mt.) (Ashland), 13 June, ♂.
 summer brood Augusta, 11 July, ♂, 15 August, ♂.

Genus ANAGOGA Hubner [1823]

- 5042 *occiduaria* Walker (*pulveraria* auct.) 42 localities, 20 May - 22 July, 198 ♂; 25 May - 3 August, 18 ♀.

Genus HYPERETIS Guenee 1857

- 5043 *amicaria* Herrich-Schaeffer 35 localities, 11 May - 5 August, 299 ♂; 23 May - 23 July, 38 ♀.
form insinuaria Guenée Stratton, 17 June, ♀; Augusta, 15 June, ♂; Vassalboro, 7 June, ♂; Lincoln, 10 July, ♂, 4 August, ♀.
- 5043.1 *alienaria* Herrich-Schaeffer 11 localities, 30 May - 28 July, 26 ♂; 2 June - 16 July, 11 ♀.
form nyssaria Guenée Dennistown, 19 July, ♂; Greenville, 19 June, ♂; Mt. Vernon, 5 June, ♂; Liberty, 17 May, ♂; Passadumkeag, 20 May, ♂; T11R8, (Round Mt.), 6 July, ♂; T5R16, (Little Russell Mt.), 22 July, ♀.
- 5043.2 *nepiaria* Walker Kittery Pt.: Pittston Farm, 2 July (3-).

Genus NEMATOCAMPA Guenee 1857

- 5044 *limbata* Haworth (*filamentaria* Guenée), Filament Bearer 37 localities, 1 July - 21 August, 1218 ♂; 5 July - 26 August, 72 ♀. Larvae will feed on fir and a variety of other woody plants.

Genus METARRANTHIS Warren 1894 (ENDROPIA Guenee 1857)

- 5046 **hypochraria** Herrich-Schaeffer 26 localities, 6 June 20 July, 39 ♂; 16 June - 24 July, 13 ♀.
- 5046.1 **lateritiaria** Guenee Kittery Pt.; Norway (S.I. Smith); Farmington, (8); Bangor, 24 June, ♀ (Brower); Passadumkeag, 15 June, ♀, 16 June, ♂, 24 June, ♂♂; Enfield, 20 June, ♀ (Ray Potter); Lincoln, 23 June, ♂, 24 June, ♀; Sebec Lake in U.S.N.M.
- 5046.2 **homuraria** Grote Kittery Pt.; Princeton, 7 July, ♂.
- 5046.3 **refractaria** Guenee Princeton, 6 July, ♂♂, 14 July, ♂♂. These very small dull-colored individuals may be *refractaria* of Guenee.
- 5046.4 **broweri** Rupert (*indeclinata* Walker) 21 localities, 30 May - 19 July, 48 ♂; 6 June - 7 July, 12 ♀.
- 5047 **apiciaria** Packard Brunswick, type, June and July Packard; "Maine" fide Rupert; reported Dixfield (Hulst coll.); Lincoln, 1 June, ♂ (Grey).
- 5048 **warneri** Harvey 19 localities, 28 May 26 July, 76 ♂; 5 June 29 June, 13 ♀.
- 5050 **duaria** Guenee 36 localities, 11 May 20 July, 123 ♂; 19 May 6 July, 17 ♀.
- form **hamaria** Guenee Wilsons Mills, 31 May, ♂; Mt. Vernon, 22 June, ♂; Augusta, 18 June, ♀, 22 June, ♀; Bar Harbor, 13 June.
- 5050.1 **amyrisaria** Walker (*franclemonti* Rupert, fide Rindge) Augusta, 5 June, ♂; Bar Harbor, The Heath, 6 June, ♂; Passadumkeag, 28 May, ♂, 15 June, ♀, 17 June (2-1), 18 June, ♀; Lincoln, 18 June, ♂ (Clayton).
- 5051 **angularia** Barnes & McDunnough Augusta, 29 May, ♀; Passadumkeag, 10 June, ♂ (Grey); Enfield, 20 June, ♂.
- 5052 **obfirmaria** Hübner 16 localities, 23 May 12 June, 14 ♂; 25 May - 28 June, 19 ♀. On Sidney Bog, it swarmed about sheep laurel.

Genus METANEMA Guenee 1857

- 5054 **inatomaria** Guenee 52 localities, 24 May 12 August, 410 ♂; 23 June - 6 August, 114 ♀.
- 5055 **determinata** Walker 56 localities, 27 May 11 August, 622 ♂; 31 May - 11 August, 32 ♀.

Genus SELENIA Hubner [1823]

- 5057 **alciphearia** Walker Oquossoc, 7 July, ♂; Farmington, 9 May ♀♀, 13 May, ♂, 17 May, ♂, 21 May, ♀♀, 23 May, ♀, 29 May, ♂, 6 June, ♀, 7 June, ♀, 16 June, ♂; Augusta, 13 May, ♂, 20 May, ♂, 3 October, ♀; Vassalboro, 26 May, ♀, 27 May, ♂, 7 June, ♀; Ft. Kent, 15 July, ♀.
- 5058 **kentaria** Grote & Robinson Kittery Pt.; Oquossoc, 23 June, ♂, 28 June, ♂♂, 29 June, ♂, 3 August, ♂; Farmington, 15 May, ♂, 17 May, ♂, 22 May, ♂♂, 31 May (4-), 3 June, ♂, 5 June, ♂♂; Mt. Vernon, 5 June, ♂; Vassalboro, 5 June, ♂; Ashland, 11 June, ♂; T11R8, (Round Mt.) (2-1); T11R10, (Horseshoe Mt.), 11 June, ♂; T15R9, (De Boulie Mt.), 16 July, ♂.
- form **glauca** Barnes & McDunnough Summer form, New England records, 18 July - 14 September.

Genus ENNOMOS Treitschke 1827 (EUGONIA Hubner 1823)

- 5059 *subsignarius* Hübner, Elm Spanworm 31 localities, 16 June - 18 September, 255 ♂; 2 July - 22 August, 12 ♀.

Genus PERO Herrich-Schaeffer 1854 (AZELINA Guenee 1857)

- 5072 *honestarius* Walker 29 localities, 30 May - 29 July, 77 ♂; 18 June - 24 July, 25 ♀.
- 5080 *morrisonarius* Henry Edwards 38 localities, 20 May - 4 August, 371 ♂; 6 June - 23 July, 32 ♀.
- 5082 *marmoratus* Grossbeck 11 localities, 22 June - 15 July, 7 ♂; 18 June - 15 July, 6 ♀.
- 5082.1 *barnesi* Cassino & Swett Farmington, 9 June, ♂.

Genus NEPYTIA Hulst 1896

- 5109 *canosaria* Walker, False Hemlock Looper 21 localities, 29 July - 19 October, 17 ♂; 28 August - 17 October, 29 ♀. Both forms *pinaria* Packard and *fuscaria* Barnes & Benjamin are found.
- 5111 *pellucidaria* Packard (*semiclusaria* Walker) Brunswick, September (as *pulchraria* Packard): Greenville Jct. 20 July, ♂; Bar Harbor, 26 August - 22 September (Brower); Eastbrook, 23 September, ♂ (Brower); Enfield. *Semiclusaria* is now restricted to a southern species.

Genus CARIPETA Walker 1862

- 5125 *divisata* Walker 40 localities, 26 June - 12 August, 314 ♂; 6 June - 10 August, 118 ♀.
- 5126 *pinia* Packard 22 localities, 1 June - 27 July, 118 ♂; 5 June - 16 July, 17 ♀.
- 5128 *angustiorata* Walker 45 localities, 23 May - 18 August, 759 ♂; 14 June - 7 August, 75 ♀.

Genus ELLOPIA Treitschke 1825 (THERINA Hubner 1823) (LAMBDA Capps 1943)

- 5142 *pellucidaria* Grote & Robinson Augusta, 15 June, 1946, ♂.
- 5143 *athasaria* Walker Canton (J. C. Parlin); Monmouth (F. M. Jones); Readfield, 2 June, ♂ (Brower); Augusta, 15 June, ♂♂, 18 June, ♀, 21 June, ♀; Vassalboro, 30 May, ♀♀, 11 June, ♀, 12 June, ♂, 14 June, ♂, 24 June, ♀, 25 June, ♀, 28 June, ♂, 28 July (7-4); Lincoln, 11 July, ♂; T5R17, (Russell Mt.), 6 July, ♂, 7 July, ♂♂, 9 July, ♂♂, 13 July, ♂, 14 July, ♀♀, 22 July, ♀; Marion, 4 August, ♀.
- 5144 *endropiaria* Grote & Robinson 34 localities, 7 May - 27 July, 800 ♂; 24 June - 29 July, 101 ♀.
- 5145 *quercivoraria* Guenée Orono (Fernald) and Eastport, July recorded in Farquhar list. Hampton, New Hampshire and Durham, New Hampshire from 16 May to 30 August. I have no Maine records, though it must occur in Maine near Durham, New Hampshire.
- 5146 *fiscellaria* Guenée, Hemlock Looper 29 localities, 17 August - 18 October, 39 ♂; 30 August - 19 October, 25 ♀.
form *flagitiaria* Guenée Bar Harbor, 26 August, ♀, 6 - 23 September,

14 September, ♀, 22 September (2-1), 23 September, ♂♂, 24 September, ♀; Southwest Harbor, 2 September, ♀; Lamoine, 23 September, ♂.
 form **johnsoni** Swett Augusta, 11 September; Bar Harbor, 18 August, ♂, 8 September, 10 September, ♂, 13 September (6-), 17 September, ♀, 22 September, ♀♀, 24 September, ♂; Northeast Harbor, Holotype (C. S. Minot); Southwest Harbor; Lamoine, 23 September, ♀.

form **peccataria** Swett Augusta, 9 September, ♂♂; Bar Harbor, 7 September, ♂, 9 September, ♂, 10 September, ♂♂, 13 September, 16 September, ♂, 20 September, ♀, 23 September, ♀, 24 September, ♂, 3 October, ♂♂, 7 October, ♀♀.

race **lugubrosa** Hulst "Maine" det. by H. W. Capps in his 1942 revision of the genus.

5149 **fervidaria** Hübner Kittery (Farquhar list); "Maine" (Packard & Morse) "common in hardwoods in late September and early October"

Genus CINGILIA Walker 1862

5152 **catenaria** Drury 12 localities, 14 September - 4 October, 8 ♂; 14 September - 3 October, 17 ♀. Recorded widely by Dirks on blueberry; Brunswick (Packard) "abundant"; Corea, 28 September, 1960 common in a sphagnum bog about heaths.

aberration **immacularia** Swett Norway. Type (S. I. Smith)

race **rubiferaria** Swett Attean Pond (Jackman), 3 October Types (Lucas); Augusta, 14 September (2-1); Bar Harbor, 21 September, ♂, 28 September, ♀, 3 October (1-4); Mt. Desert, 21 September, ♂; Orono; Enfield, 18 September (2-3); Lincoln; Woodland (Caribou).

Genus SICYA Guenee 1857

5161 **macularia** Harris 46 localities, 1 July - 10 August, 773 ♂; 5 July - 6 August, 52 ♀.

form **sofataria** Guenée Eustis, 23 July, ♂♂; Dennistown (w. of Jackman), 31 July, ♀; Jackman, 21 July, ♂; Ashland, 27 July, ♀; T5R16, (Little Russell Mt.), 25 July, ♀; Northeast Harbor, 13 July (Minot); Topsfield, 6 August, ♂; Princeton, 24 August, ♂.

Genus DEUTERONOMOS Prout 1915

5170 **magnarius** Guenée 18 localities, 3 September - 26 October, 237 ♂; 24 September - 26 October, 19 ♀.

Genus APICIA Guenee 1857 (CABERODES Guenee 1857)

5184 **confusaria** Hübner 23 localities, 8 July - 10 August, 452 ♂; 5 July - 16 August, 66 ♀.

variety **metrocamparia** Guenée and other variations occur with the usual form.

Genus SYSSAURA Hubner [1819] (PATALENE Herrich-Schaeffer 1855) (DREPANODES Guenee 1855)

*5187 **puber** Grote & Robinson Hampton, New Hampshire and Durham, New Hampshire, 13 July - 25 September.

Genus TETRACIS Guenee 1857

- 5197 *crocallata* Guenée 47 localities, 25 May - 3 August, 168 ♂; 25 May - 22 July, 29 ♀.
 5198 *lorata* Grote (*cahexiata* Guenée) 34 localities, 23 May - 30 July, 183 ♂; 23 May - 25 July, 26 ♀.

Genus ABBOTTANA Hulst 1896

- 5199 *clemataria* Abbott & Smith 18 localities, 2 May - 6 July, 128 ♂; 19 May - 18 June, 8 ♀.

Genus ANTEPIONE Packard 1876 (SABULODES Guenee 1857)
(EUTRAPELA Hubner [1809])

- 5200 *arcasaria* Walker (*thisoaria* Guenée) 12 localities, 5 May - 31 July, 16 ♂; 27 July, 1 ♀.
 form *furciferata* Packard Oquossoc, 30 June, ♂; Farmington, 21 June, ♀, 23 June, ♂, 29 June, ♂; Greenville, 14 July, ♂; Millinocket, 15 July, ♀; T9R5 (Oxbow), 16 July, ♀; T18R12, (Rocky Mt.), 20 July, ♂.

Genus PROCHOERODES Grote 1883

- 5211 *transversata* Drury 32 localities, 19 June - 3 October, 276 ♂; 2 August - 13 September, 16 ♀. Several variations occur.

Family EPIPLEMIDAE**Genus CALLIZZIA Packard 1876**

- 5223 *amorata* Packard 39 localities, 28 May - 12 August, 595 ♂; 21 June - 4 August, 34 ♀. Reared in Bar Harbor on *Lonicera canadensis*.

Genus CALLEDAPTERYX Grote 1868

- 5225 *dryopterata* Grote Mt. Vernon, 1 July, ♂; Augusta, 17 June, ♀, 28 June, ♀, 2 July, ♂, 21 July, 30 July, ♂; Vassalboro, 6 June, ♂, 21 July, ♂, 28 June, ♂, 3 July, ♂, 7 July, ♂, 9 July, ♂, 19 July, ♂, 14 August (2nd brood); Lincoln, 21 July, ♀, 28 July, ♀, 29 July, ♂.

Family LACOSOMIDAE**Genus LACOSOMA Grote 1864**

- *5227 *chiridota* Grote Durham, New Hampshire, 1 July - 6 July; Lee, New Hampshire, 30 June.

Families of the Macrolepidoptera of Maine

	No. of Species	Expected Species	Races	Forms Varieties Aberrations
Papilionidae	5		2	
Pieridae	10	1		1
Danaidae	1			1
Satyridae	7		2	
Nymphalidae	30		3	2
Libytheidae	1			
Lycaenidae	25		1	
Hesperiidae	26	4		
Sphingidae	38			
Saturniidae	8			
Citheroniidae	5			
Amatidae	3			
Nolidae	7	1		
Arctiidae	48	1		2
Agaristidae	2			
Phalaenidae	680	27	4	41
Notodontidae	50	1		1
Liparidae	12			1
Lasiocampidae	5			1
Zanolidae	2			
Thyatiridae	5			
Drepanidae	4			3
Geometridae	291	7	8	29
Epiplemidae	2			
Lacosomidae		1		
Totals	1267	43	20	82

Localities Where Extended Collecting Has Been Done

Areas where collectors have worked in New Hampshire localities close to the Maine border yielding rare species and species believed to occur in Maine: Durham, New Hampshire, University of N. H., much collecting.

Hampton, New Hampshire on the coastal plain about 14 miles from Maine, 1896-1941, S. Albert Shaw.

Lee, New Hampshire Professor R. L. Blickle

Newington, New Hampshire A federal moth-trapping project.

Localities where individuals have made important collections: These are marked with a triangle on the map and listed alphabetically.

Ashland, A. E. Brower

Augusta, Brower

Augusta-Vassalboro, Leland Haywood, Brower

Bangor, F. A. Eddy

Bar Harbor and Mt. Desert Island, an area of much collecting by Brower, William Procter, C. W. Johnson and others.

Bideford-Saco, Albert F. Winn (area visited every year 1900-1908); also

Biddeford Pool, Fortunes Rocks, and Old Orchard.

- Bigelow Mt., Brower
 Bingham, Katie Burke
 Bridgton, Chesman C. Spratt
 Brunswick, Alpheus S. Packard
 Buckfield, Viola P. DeCoster
 Bucks Harbor, Brower
 Camden-Lincolntonville, Dale Schweitzer
 Chester Bog, W. J. Clayton, L. P. Grey, Brower
 Coburn Gore, extended season at Border Customs and light at home.
 Enfield, Grey, Clayton, Brower and others.
 Farmington-Chester, Bruno Spies, Brower
 Hallowell, Rose and Marie Wadsworth of Manchester
 Hope, S. C. Kleene
 Indian Twp. (Princeton), Brower
 Jonesport, Brower
 Kennebunk - Kennebunkport, Donald W. Farquhar and others
 Kittery - Kittery Pt., Roland Thaxter
 Klondike Basin of Mt. Katahdin, T3R10, six trips, Brower
 Lac Frontiere, Brower
 Lincoln, Clayton, Grey
 Manchester, The Wadsworth sisters.
 Monmouth, John H. Brower, three summers
 Monmouth - Wales, C. A. Frost
 Mt. Desert Island (Bar Harbor, Mt. Desert, Southwest Harbor and Tremont)
 Mt. Katahdin, Brower and others.
 Mount Vernon, Richard Dearborn, Brower
 Northeast Harbor in town of Mt. Desert, C. S. Minot 1909-1912, and others.
 Norway, Charles B. Hamilton 1904-1921
 Norway - Sweden, Emma G. Holland 1900-
 Old Orchard, Winn
 Old Spec Mt. and Mahoosic, Brower
 Old Town, Charles Fish
 Orono, Prof. and Mrs. Fernald, F. L. Harvey, C. O. Dirks and others
 Oxbow area, four periods, Brower
 Passadumkeag, Clayton, Grey, Brower and others
 Portland - South Portland, W. E. Rogers, H. H. Lyman
 Rangeley and area, Cyril F. and Viola H. dos Passos
 Saco Heath in Saco, Brower
 Saddleback Mt., Sandy River Pln., Brower
 Sebec Lake, Willimantic, Packard's Landing, James McDunnough
 Skowhegan, E. E. Hitchins and son, Sam.
 Tumbledown Mt., Berlin (Weld), Brower
 Unity, John Reed 1939-1940
 Upton, Brower
 Vassalboro, Brower and Haywood
 Waldoboro, John A. Lovell
 Wilsons Mills, Lincoln Pln. (T5R2), Brower and others.
 Woodland (Caribou), Aroostook Co. where Olaf Nylander took rare species
 York - Wells, Farquhar

Light traps operated principally for Spruce Budworm moths by Maine Forest Service 1943-1972 or part of these years from July 4 to August 5. (Nearby towns on a road map in parentheses.) I made brief visits and collected at many of these traps. Customs stations have made small collections.

Arranged roughly from the southwest, northeastward and to the colder southeast.

Kingfield	T11R10, Horseshoe Mt
Moscow, Wyman Dam lights	T11R14, Clayton Lake
Lower Cusuptic, T4R3	T11R17, near Daaquam, Que.
Tim Pond, T2R4 (Eustis)	T13R12, Round Pond Mt.
Eustis	T14R16, Depot Mt.
Coburn Gore Customs	T15R13, mouth Big Black River
Enfield	T15R9, DeBoulie Mt.
Long A. AR6&9 (Millinocket)	T16R5, Square Lake
Millinocket	T16R13, Chimenticook
Greenville	T16R9, St. Francis
Big Squaw, T2R6	Allagash Pln., Allagash
Dennistown Pln., T5R2	Dickey, T17R11
Moose River Pln., T4R2	St. Francis, T16R9
Pittston Academy Grant, T2R4 (Seboomook)	T18R13, Campbell Branch
Seboomook, R-4	T17R12, Rocky Mt.
T3R12, Chesuncook Dam	T18R12, Rocky Mt.
Mt. Chase Pln., T5R6, Camp Colby & Shin Pond	T20R11 & 12, Estcourt Station
Ashland	Fort Kent Customs
T5R16, Little Russell Mt.	T17R5, Guerette - Cross Lake
T6R7	Madawaska Customs
T6R11, Round Pond	Van Buren Customs
T6R14, Caucomgomoc	Fort Fairfield Customs
T7R17, Baker Lake	Houlton Customs
T8R19, (near Baker Lake)	Vanceboro Customs
T9R18, Hardwood Mt.	Lambert Lake, T1R3
T8R13, Eagle Lake	Topsfield
T9R5, (Oxbow)	Kellyland, Baileyville (Princeton)
Masardis	Wesley
Ashland	Dennysville
T10R11, Clear Lake	Edmunds
T11R8, Round Mt.	Marion
	East Machias
	Jonesboro

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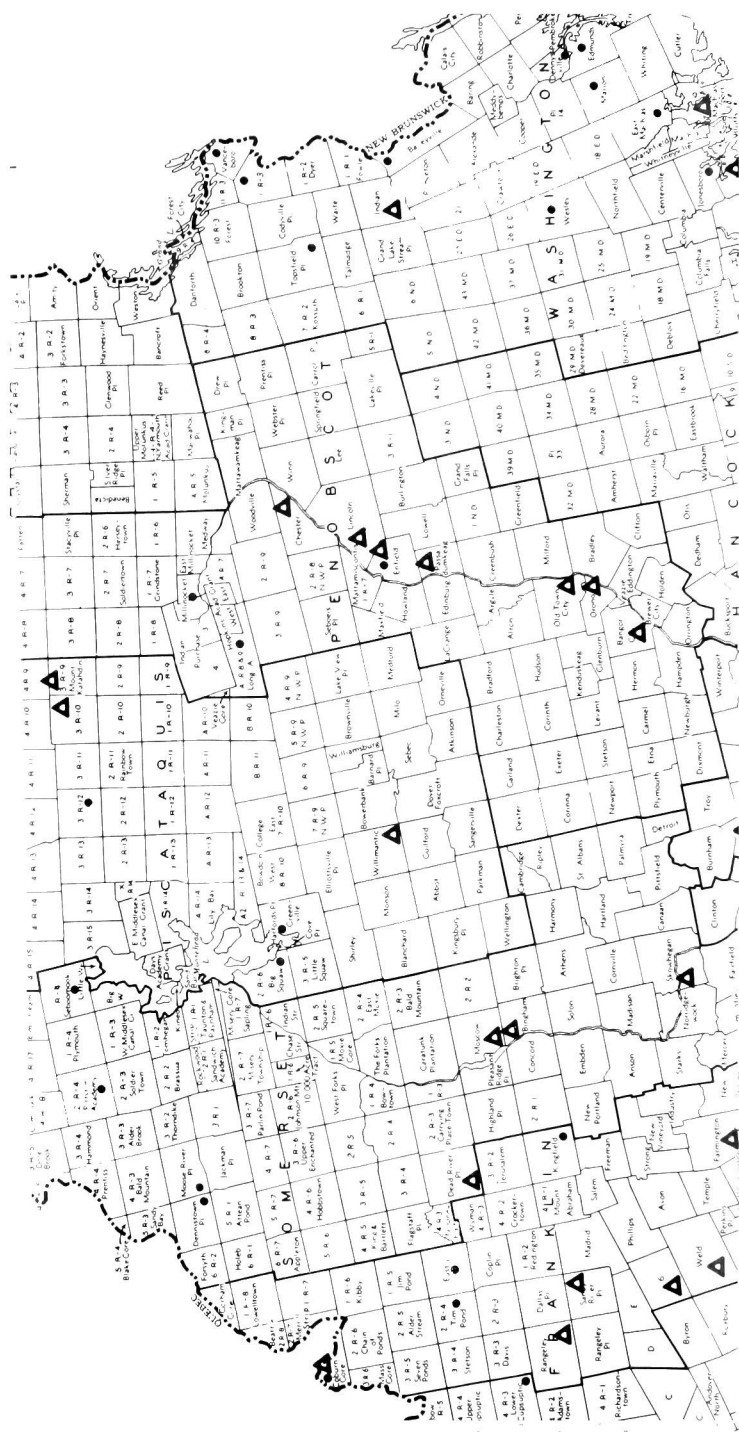
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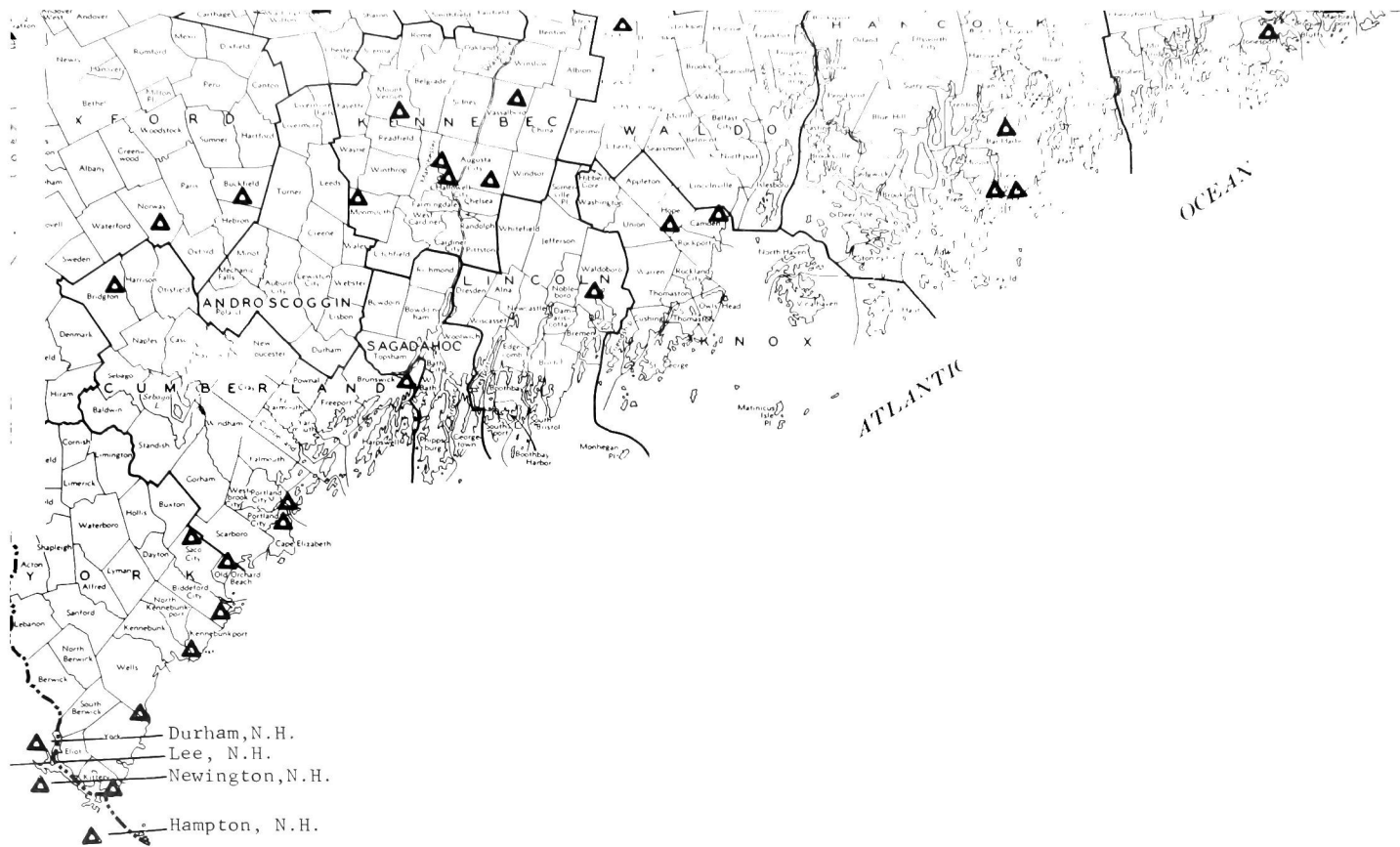
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- Lee, N.H.
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- Hampton, N.H.