

FLIGHT RECORDS OF LEPIDOPTERA TAKEN WITH A MODIFIED ROTHAMSTED LIGHT TRAP OPERATED AT PAIAKA

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(Received for publication, 27 June, 1951)

Summary

Flight records are given for 83 species of Lepidoptera taken with a modified Rothamsted light trap operated for one year at the Phormium Research Station, Paiaaka.

The construction of a modified Rothamsted light trap set up at the Phormium Research Station, Paiaaka, in July, 1949, and kept in operation for a year, and the number of insects belonging to the different orders represented in the catch have been indicated (Cumber, 1950). Flight records for a large number of species of insects were obtained, and the present paper gives records for the majority of the species of Lepidoptera taken.

As indicated in the previous paper, under certain conditions species which normally are not drawn to light may be taken. Hence, where the records show only a few specimens taken, the species may not normally be attracted by light, or it may be in low density in the field population. The numbers of many species given in this paper are of such magnitude, however, that obviously they represent normal fluctuations in populations of insects strongly attracted by light.

Included in these records is information on two species (*Orthoclydon praelectata* (Walk.) and *Persectania steropastis* (Meyr.)) which may cause considerable damage to *Phormium* leaf. Flight records obtained for the clover case-bearing moths (*Coleophora frishcella* L. and *Coleophora spissicornis* Haw.) may be taken as further instances of valuable information obtained from such records.

ACKNOWLEDGEMENTS

Assistance in the maintenance of the light trap was given by Mr. W. R. Boyce, Officer in Charge of the Phormium Research Station, Paiaaka, and by Mr. N. W. Fitzgerald, who also assisted in dealing with material collected during the peak of the flight season. The readily available collections of the Dominion Museum, Wellington, greatly assisted the identification of species. Mr. L. J. Dumbleton, Senior Entomologist, Entomological Research Station, Nelson, also gave valuable assistance in identification.

REFERENCE

- Cumber, R. A., 1950: A Year's Operation of a Modified Rothamsted Light Trap. *N.Z.J.Sci.Tech.*, 32, B (1), 1-8.

RECORD OF CATCH OF SPECIES OF LEPIDOPTERA

	21-31 July 1949	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	1-20 July 1950	Total
ARCTIADAE														
<i>Nyctemera annulata</i> (Boisd.)	.....	.....	.....	.....	.....	.....	.....	.....	1	2	.....	.....	.....	3
GEOMETRIDAE														
<i>Asthena pulchra</i> (Dbl.)	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
<i>Chloroclystis semialbata</i> (Walk.)	.....	.....	1	.....	1	.....	1	.....	.....	.....	.....	.....	.....	3
<i>Chloroclystis urticae</i> Huds.	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1
<i>Declana atronivea</i> (Walk.)	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
<i>Declana floccosa</i> Walk.	.....	.....	.....	.....	.....	.....	1	.....	.....	2	2	.....	.....	5
<i>Hydriomena callichlora</i> (Butl.)	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	2
<i>Hydriomena subochraria</i> (Dbl.)	.....	.....	.....	.....	7	.....	1	.....	2	.....	2	.....	.....	12
<i>Leptomeris rubraria</i> (Dbl.)	56	61	80	67	69	75	63	163	85	164	93	50	16	1,042
<i>Microdes epicryptis</i> Meyr.	.....	1	8	14	.....	.....	2	.....	.....	.....	.....	.....	.....	25
<i>Orthoclydon praefectata</i> (Walk.)	7	.....	1	1	10	28	7	.....	.....	129	117	.....	4	304
<i>Phrissogonus laticostatus</i> (Walk.)	.....	.....	.....	.....	.....	.....	.....	.....	.....	40	19	.....	.....	59
<i>Selidosema dejectaria</i> (Walk.)	3	.....	1	.....	.....	.....	3	.....	.....	9	18	.....	.....	34
<i>Selidosema indistincta</i> (Butl.)	.....	1	2	.....	.....	1	6	1	.....	4	6	1	.....	22
<i>Selidosema rudiata</i> (Walk.)	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
<i>Venusia verriculata</i> (Feld.)	9	8	1	2	10	28	6	1	1	3	4	.....	.....	63
<i>Xanthorhoe venipunctata</i> (Walk.)	336	145	45	25	28	117	96	211	1,425	1,408	798	112	280	5,026
HEPIALIDAE														
* <i>Porina</i> sp.	.....	.....	2	12	90	86	331	1,268	39	.....	.....	.....	.....	1,828
<i>Porina ensyii</i> Butl.	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1
<i>Porina minos</i> Huds.	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	12	.....	13
<i>Porina signata</i> (Walk.)	.....	.....	.....	.....	.....	.....	3	37	9	.....	.....	.....	.....	49
<i>Porina umbraculata</i> (Gn.)	.....	.....	.....	10	464	247	65	49	.....	.....	.....	.....	.....	835
NOCTUIDAE														
<i>Agrotis inominata</i> Huds.	3	4	5	5	2	7	2	.....	.....	.....	.....	.....	.....	28
<i>Agrotis ypsilon</i> (Rott.)	.....	.....	.....	.....	.....	.....	12	60	7	4	6	.....	.....	89
<i>Aletia moderata</i> (Walk.)	.....	.....	.....	.....	.....	.....	1	2	.....	.....	.....	.....	.....	3

*The identity of this species has yet to be determined. More than one species may be represented.

	21-31 July 1949	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	1-20 July 1950	Total
<i>NOCTUIDAE—Continued</i>														
<i>Aletia sapiens</i> Meyr. ....	....	....	....	....	....	....	1	....	2	....	....	....	....	3
<i>Erana graminosa</i> Walk. ....	....	....	....	....	....	....	....	....	1	4	....	....	....	5
<i>Heliothis armigera</i> Hubn. ....	....	....	....	....	....	....	3	3	7	....	....	....	....	13
<i>Leucania alopa</i> Meyr. ....	....	....	....	....	....	....	....	....	1	....	....	....	....	1
<i>Leucania semivittata</i> Walk. ....	....	....	4	5	1	....	2	1	5	47	....	....	....	65
<i>Melanchra coeleno</i> Huds. ....	....	....	....	....	1	....	....	....	....	....	....	....	....	1
<i>Melanchra insignis</i> (Walk.)	9	2	2	2	2	....	....	....	....	4	....	4	....	25
<i>Melanchra lignana</i> (Walk.) ....	....	....	....	....	....	....	....	....	....	6	2	....	....	8
<i>Melanchra mutans</i> (Walk.)	612	189	219	90	36	117	201	558	211	435	201	124	80	3,073
<i>Melanchra ustistriga</i> (Walk.)	349	69	375	56	13	9	13	55	22	32	12	5	251	1,089
<i>Persectania arotis</i> (Meyr.) ....	....	....	....	....	....	....	....	....	....	14	6	....	....	20
<i>Persectania astristriga</i> (Walk.) ....	....	....	....	....	....	....	26	34	....	....	....	....	....	60
<i>Persectania ewingi</i> (West.)	1	1	1	7	4	2	18	65	16	35	28	2	12	192
<i>Persectania steropastis</i> (Meyr.)	24	11	56	25	18	15	18	2	31	30	6	14	....	250
<i>Plusia chalcites</i> Esp. ....	....	....	2	....	....	....	....	....	....	....	....	....	....	2
<i>PTEROPHORIDAE</i>														
<i>Platyptilia falcatalis</i> Walk. ....	....	....	1	....	....	....	....	3	....	....	....	....	....	4
<i>PYRALIDAE</i>														
<i>Argyria pentadactyla</i> (Zell.) ....	....	....	....	....	....	....	....	....	38	24	....	....	....	62
<i>Crambus angustipennis</i> (Zell.) ....	....	....	....	....	3	4	3	1	....	....	....	....	....	11
<i>Crambus cyclopicus</i> Meyr. ....	....	....	....	....	....	....	....	....	8	590	7	....	....	605
<i>Crambus flexuosellus</i> Dbld.	7	1	1	249	4,237	2,380	3,583	10,572	14,150	3,660	2,910	108	4	41,862
<i>Crambus harpophorus</i> Meyr. ....	....	....	....	....	....	....	....	....	....	....	....	1	....	1
<i>Crambus ramosellus</i> Dbld. ....	....	....	....	....	2	55	96	220	300	180	20	....	....	873
<i>Crambus simplex</i> (Butl.) ....	....	....	....	....	....	....	....	....	14	6	....	....	....	20
<i>Diasemia grammalis</i> Dbld. ....	....	....	....	....	....	....	13	6	....	....	....	....	....	19
<i>Mecyna daiclealis</i> (Walk.) ....	....	....	....	....	....	....	....	....	3	....	....	....	....	3
<i>Mecyna flavidalis</i> (Dbld.)	25	8	47	225	64	98	51	198	300	480	1,295	35	4	2,840
<i>Mecyna maoralis</i> (Feld.) ....	....	....	....	....	3	1	44	813	3	....	....	....	....	864
<i>Mecyna marmarina</i> (Meyr.) ....	....	....	1	....	....	....	....	....	....	15	5	....	....	21
<i>Scoparia diphtheralis</i> Walk. ....	....	....	....	....	....	....	9	5	....	....	....	....	....	14

	21-31 July 1949	Aug	Sept	Oct	Nov	Déc	Jan	Feb	Mar	Apr	May	June	1-20 July 1950	Total
PYRALIDAE—Continued														
<i>Scoparia claphra</i> Meyr. ....	.....	.....	.....	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	4
<i>Scoparia leptalea</i> Meyr. ....	.....	.....	.....	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	3
<i>Scoparia octophora</i> Meyr. ....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	1
<i>Scoparia rotuella</i> (Feld.) ....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	2
<i>Scoparia submarginalis</i> (Walk.) ....	.....	.....	.....	.....	.....	.....	1	10	.....	2	4	.....	.....	17
TINEIDAE														
<i>Batrachedra arenosella</i> (Walk.) ....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1
<i>Borkhausenia armigerella</i> (Walk.) ....	.....	.....	.....	.....	2	.....	1	.....	.....	.....	.....	.....	.....	3
<i>Borkhausenia morosa</i> Philp. ....	.....	.....	.....	.....	.....	.....	7	7	.....	.....	.....	.....	.....	14
<i>Borkhausenia pseudopretella</i> (Stt.) ....	.....	.....	.....	.....	2	5	27	46	.....	.....	.....	.....	.....	80
<i>Choreutis bjerkandrella</i> Thunb. ....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7	.....	.....	.....	7
† <i>Coleophora frischella</i> L. ....	.....	.....	9	94	2,220	2,740	13,300	2,320	730	700	.....	.....	.....	21,010
<i>Coleophora spissicornis</i> Haw. ....	.....	.....	.....	.....	160	680	.....	.....	.....	.....	.....	.....	.....	840
<i>Cryptolechia liochroa</i> (Meyr.) ....	.....	.....	.....	.....	1	3	.....	.....	3	.....	.....	.....	.....	7
<i>Erechthias hemiclistra</i> (Meyr.) ....	.....	.....	.....	.....	13	1,019	2,758	141	120	2	.....	.....	.....	4,053
<i>Glyphipteryx achlyoessa</i> (Meyr.) ....	.....	.....	.....	122	14	.....	2	1	.....	2	.....	.....	.....	141
<i>Megacraspedus calamogonus</i> Meyr. ....	.....	.....	.....	.....	.....	.....	.....	.....	.....	20	.....	.....	.....	20
<i>Monopis ethelella</i> (Newman)	3	.....	2	13	.....	.....	6	2	.....	2	.....	.....	.....	28
<i>Opogona comptella</i> Walk. ....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	.....	2
<i>Opogona omoscopa</i> (Meyr.)	6	5	9	154	2,216	2,140	1,425	2,400	9,000	3,870	660	106	25	22,016
<i>Phthorimaea operculella</i> (Zell.) ....	.....	.....	.....	17	.....	.....	.....	.....	.....	.....	.....	.....	.....	17
<i>Plutella maculipennis</i> Curt.	80	44	15	.....	2	3	.....	.....	100	.....	.....	.....	.....	242
<i>Protosynaema steropucha</i> Meyr.	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	10	.....	12
<i>Strathmopoda phylegyra</i> Meyr. ....	.....	.....	.....	.....	1	3	.....	.....	.....	.....	.....	.....	.....	4
<i>Trachypepla curyleucota</i> Meyr. ....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1
TORTRICIDAE														
<i>Cnephasia jactatana</i> (Walk.)	4	2	2	.....	.....	.....	.....	6	.....	.....	.....	48	4	66
<i>Spilonota chaophila</i> (Meyr.) ....	.....	.....	.....	.....	.....	.....	4	.....	.....	.....	.....	.....	.....	4
<i>Tortrix excessana</i> (Walk.)	2	.....	.....	.....	17	4	.....	10	3	2	.....	.....	.....	38
<i>Tortrix leucaniana</i> (Walk.) ....	.....	.....	.....	14	33	2	203	166	100	25	3	.....	.....	556
<i>Tortrix postvittana</i> Walk.	2	.....	5	2	20	.....	37	117	.....	138	675	90	8	1,094

†The author is indebted to Mr. L. J. Dumbleton for indicating this unrecorded species of *Coleophora*.