

Fundy Model Forest

~Partners in Sustainability~

Report Title: Moth Diversity in an Old-Growth Forest: Summary of the Wolfe Lake Site, Fundy National Park, 1994

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The Fundy Model Forest... ...Partners in Sustainability

"The Fundy Model Forest (FMF) is a partnership of 38 organizations that are promoting sustainable forest management practices in the Acadian Forest region."

Atlantic Society of Fish and Wildlife Biologists Canadian Institute of Forestry **Canadian Forest Service** City of Moncton Conservation Council of New Brunswick Fisheries and Oceans Canada Indian and Northern Affairs Canada Eel Ground First Nation Elgin Eco Association **Elmhurst Outdoors Environment Canada** Fawcett Lumber Company Fundy Environmental Action Group Fundy National Park Greater Fundy Ecosystem Research Group INFOR, Inc. J.D. Irving, Limited KC Irving Chair for Sustainable Development Maritime College of Forest Technology NB Department of the Environment and Local Government NB Department of Natural Resources NB Federation of Naturalists New Brunswick Federation of Woodlot Owners NB Premier's Round Table on the Environment & Economy New Brunswick School District 2 New Brunswick School District 6 Nova Forest Alliance Petitcodiac Sportsman's Club Red Bank First Nation Remsoft Inc. Southern New Brunswick Wood Cooperative Limited Sussex and District Chamber of Commerce Sussex Fish and Game Association Town of Sussex Université de Moncton University of NB, Fredericton - Faculty of Forestry University of NB - Saint John Campus Village of Petitcodiac Washademoak Environmentalists





MOTH DIVERSITY IN AN OLD-GROWTH FOREST - SUMMARY OF THE WOLFE LAKE SITE, FUNDY NATIONAL PARK, 1994

by

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Introduction

Measures of diversity are frequently seen as indicators of the well being of ecosystems and can be used to gauge the effects of environmental disturbance through any number of factors. Species diversity consists of two components, i) the variety of species or species richness, and ii) the relative abundance of species. The major applications of diversity measurements are in nature conservation and environmental monitoring. In both cases, high diversity is held to be synonymous with ecological quality. Impacted ecosystems often show a shift in the pattern of species abundance (rare species often disappear), a change in dominance (one species often becomes relatively very abundant), and a change in species richness (usually a reduction).

This summary lists the 15,851 individual moths in 401 species in 14 families that were taken in the mixed-wood old-growth forest on the western edge of Wolfe Lake, Fundy National Park. As such it is the first step in characterizing the species diversity of such a forest that is to serve as baseline data from which to evaluate the impact of human activities on forest ecosystems in the region. It also serves as baseline data for assessing future (natural) changes in a relatively unperturbed forest ecosystem, and expands our knowledge of animal community structure in an old-growth forest in the Acadian forest region of Canada.

This summary consists of five parts.

PART I

A graphical representation of the seasonal flight periods of the 401 species, priorized by the first occurrence of each species and based on the weekly catches of individual moths. The data show a progression of species appearances from early May until the end of September.

PART II

Uses the same database as PART I but arranges the species names alphabetically thus allowing for quick retrieval of seasonal flight periods and relative abundance data for any species.

PART III

Uses the same basic format as above, but arranges the data based on the phylogenetic relationships of the species. Most species are in the families Geometridae and Noctuidae.

PART IV

Arranges the data based on the relative abundances of the species from the most common to the rarest. This 'species abundance frequency distribution' is one measure of community structure that forms the basis, along with species richness, for comparing biodiversity between forest sites.

PART V

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This section consists of a series of 4 charts that summarize the data.

Chart 1. Shows the number of individual moths caught per week; peak catch was between June 26 and July 9 (weeks 26 and 27).

Chart 2. Shows the number of species caught per week; peak numbers of species occurred between June 26 and July 16 (weeks 26, 27, and 28).

Chart 3. Shows the numbers of previously unrecorded ('new species') captured each week. The numbers reached a peak between June 12-18 (week 24) but were also high between June 26-July 9 (weeks 26 and 27). Note that 'new species' appeared during every week of the season.

Chart 4. Shows the species accumulation curve on a daily basis. There was a rapid increase in 'new species' between June 12 (day 163) and July 14 (day 195).

Acknowledgements

We thank Jim Edsall (Moncton), Dr. Douglas Ferguson (Washington, D.C.), and Dr. Reggie Webster (Fredericton) for identification of some of the species, and Sheila Lee Berube for converting the raw data into the graphical formats.

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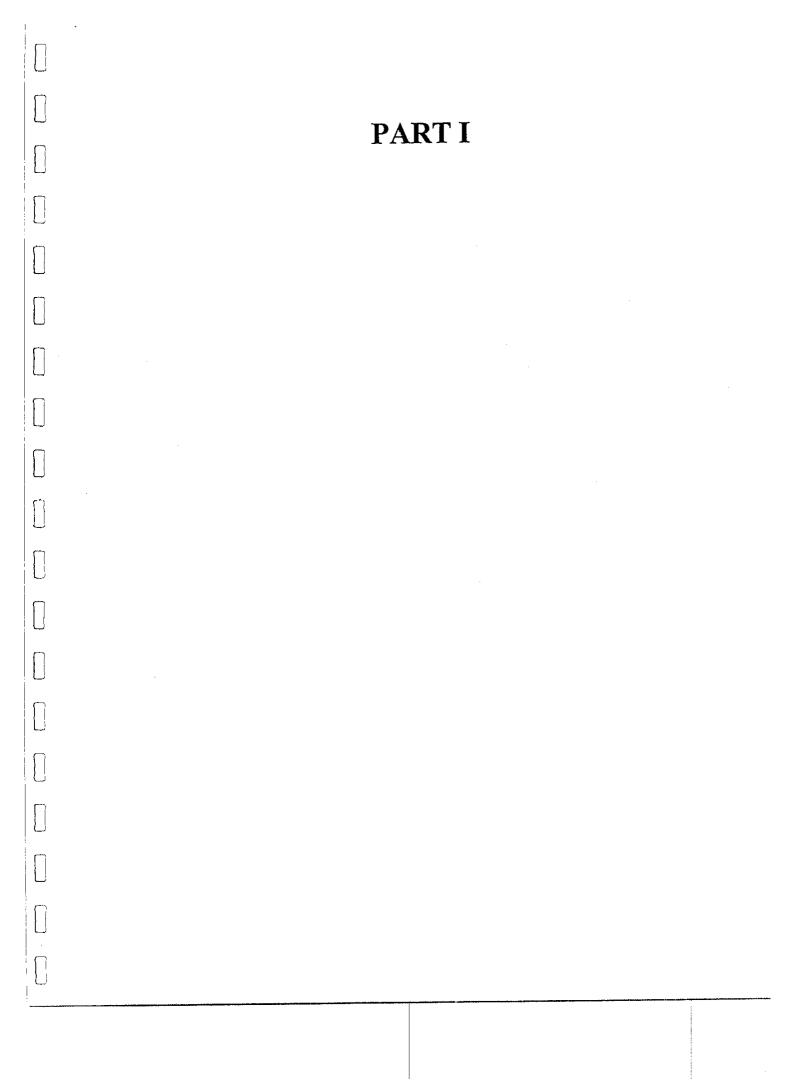
DE-CODING SHEET FOR GRAPHICAL FORMATS

Maximum catch, if greater than 9 moths

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Note: traps not operating on weeks 36, 37, and 38

NA la alc	Data Danza
Week	-
19	May 8-14
20	May 15-21
21	May 22-28
22	May29-June 4
23	June 5-11
24	June 12-18
25	June 19-25
26	June 26-July 2
27	July 3- 9
28	July 10-16
29	July 17-23
30	July 24-30
31	July 31-Aug. 6
32	Aug. 7-13
33	Aug. 14-20
34	Aug. 21-27
35	Aug. 28-Sept. 3
39	Sept. 25-Oct. 1



CAT#	SPECIES NAME	WEEK 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37	
9874 9888 9902 9922 9889 9893 10495 10011 7543 10996 10520 7329 10487 7639 7637 10490	Xylena curvimacula Lithophane innominata Lithophane baileyi Lithophane pexata Lithophane petulca Lithophane hemina Orthosia hibisci Brachionycta borealis Eupithecia annulata Metalepsis salicarum Morrisonia evicta Anticlea vasiliata Orthosia rubescens Cladara atroliturata Cladara limitaria Orthosia revicta Feralia comstocki		16 9 6 19 5 3 2 2 2 2 2 3 12 23 12 23 12 23 12 23 12 23 12 23 12 23 12 23 12 23 12 23 12 23 12 23 12 23 12 23 12 23 12 23 12 23 12 23 13 19
10008 10501	Crocigrapha normani		

Maximum catch, if greater than 9 moths

Note: traps not operating on weeks 36, 37, and 38

Week	Date Range
19	May 8-14
ⁱ 20	May 15-21
21	
22	May29-June 4
23	June 5-11
: 24	June 12-18
25	
26	June 26-July 2
27	July 3- 9
28	July 10-16
29	July 17-23
30	July 24-30
31	July 31-Aug. 6
32	Aug. 7-13
33	Aug. 14-20
34	
35	
39	Sept. 25-Oct. 1
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	SPECIES	WEEK	SUM
CAT#	NAME	19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38	3 39
9875	Xylena thoracica		1
9916	Lithophane unimoda	假治在:"算法" [法]起意义:"法	1
9917	Lithophane fagina		5
7459	Eupithecia columbiata		34
6597	Ectropis crepuscularia		43
6668	Lomographa glomeraria		59
7428	Venusia comptaria		11
6621	Melanolophia signataria		169
6842	Plagodis phlogosaria		219

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	SPECIES										٧	VEEI	<										SUM	
CAT#	NAME	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39		
9876	Xylena cineritia			i ĝij																			2	
9933	Eupsilia vinulenta																						1	
9936	Eupsilia morrisoni				or max age of																		1	
10005	Feralia jocosa																						4	
7933	Gluphisia avimacula						ţ,																5	
6804	Petrophora subaequaria																						3	
6570	Aethalura intertexta							E.M. E.C.R															68	
8697	Zale minerea										10000												125	
6252	Drepana bilineata							WRA Kiaż															136	

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FLIGHT PERIODS FOR SPECIES WHOSE FIRST OCCURRENCE WAS WEEK 22 - May 29-June 4

	SPECIES										v	/EEk	(SUM
CAT#	NAME	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	
9909	Lithophane tepida				Norderen Militaren Generatio																		1
9928	Lithophane thaxteri																						1
6811	Homochlodes lactispargaria																						2
7605	Eupithecia ravocostaliata																						1
6817	Selenia alciphearia						E.d																17
7994	Heterocampa guttivitta							er fi			10.00												19
7687	Phyllodesma americana				5645) (1994)																		25
7390	Xanthorhoe lacustrata				6B	n A																	6
10663	Agrotis ipsilon					N .					ļ		No.		R.S.				1000 N				9
9184	Colocasia flavicornis																						30
6251	Drepana arcuata																						81
	Semiothisa signaria dispuncta																						217
6344	Semiothisa signaria dispuncta					ŝć	SMAS	267.3PM	tuine.	16655480	XX												

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	SPECIES										v	VEEK	<										SUM
CAT#	NAME	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	
10994	Cerastis tenebrifera																						1
7635	Acasis viridata																						1
8713	Zale lunifera																						1
8694	Zale aeruginosa							100															3
6966	Eutrapela clemataria																						13
6822	Metarranthis duaria																						18
6428	Orthofidonia tinctaria																						5
7822	Smerinthus cerisyi					21 501 21 802 2012 23 23 23 24 24 27 23 24 28 23			10000														9
6818	Selenia kentaria																						5
10298	Lacanobia radix						Mideo o																5
7489	Eupithecia lariciata																						14
6807	Tacparia detersata						1. 7.																17
7821	Smerinthus jamaicensis							20															49
6840	Plagodis serinaria						<u>, </u>																81
8970	Baileya ophthalmica																						43
9177	Panthea acronyctoides							n he T															63
6838	Probole amicaria																						128
6620	Melanolophia canadaria																						49
6885	Besma quercivoria						ur ne																47
10521.1	Morrisonia latex								¥														44
10292	Melanchra adjuncta																						55
9261	Acronicta impressa																						16
10438	Pseudaletia unipuncta								i de la					sin i			ł						35

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	SPECIES		~~		~~			A E	~~	07				04	20	22	24	26	26	27	20		
	NAME	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	30	36	31	30	39	
CAT# 6347	Semiothisa pinistrobata						1981a																4
	Orthofidonia exornata								263														6
6429	Orthofidonia flavivenata						inann Scint	Dirita.	01245														1
6430							44492 11797																1
6582	Anacamptodes vellivolata									1.	in ei	122											17
6640	Biston betularia cognataria						1995 1942			nuru	24251	20089	í	Kelifi li									4
6667	Lomographa vestaliata						CONTRACT CONTRACT	and the second	9648														2
6734	Euchlaena marginaria Homochlodes fritillaria							Constantia		1.5													18
6812								27.W.S 1121120															13
6836	Anagoga occiduaria						1348 2889						a	248072			10023						15
7213	Ecliptopera silaceata albolineata						金額的 公前第	(3845) (3845)				1	211-22	8202.80 643.61	120063	4697504	ante	1					5
7307	Mesoleuca ruficilliata						2016 140982	BERN Generation	9445														3
7330	Anticlea multiferata						供給約 何時時間	ACCESSION OF	din		1	idinidi.		HERR									13
7474	Eupithecia miserulata						ALERE COSE	Night.				eeniii	NA NELS	cendíli	1	ur in						ta inter	12
7492	Eupithecia casloata								*35														2
7574	Eupithecia albicapitata						2200 Hanna		į	t (Maria)	ugan												4
7640	Lobophora nivigerata																						1
7812	Sphinx drupiferarum								07366	144727	05 7 4												16
7825	Paonias myops							eni-bili		alugre Ngga													15
7901	Clostera apicalis							SALESSO:		ù Mik Angus	erisii Misio												16
7922	Pheosia rimosa								19	Dozei				Contraction of the									2
7926	Notodonta scitipennis							Contest.		N LEON													9
8134	Spilosoma congrua						(117) 12189		1999. 1999.	i de la composition de la comp	NGT	ł											17
8137	Spilosoma virginica						9532) 14185	raiona Natari	idas Egen														4
8156	Phragmatobia fuliginosa rubricosa								130688 197728 557728														9
8717	Zale horrida						10199			ANNAL													16
8969	Baileya doubledayi						Hadili A Google	11 and Pro-															5
9050	Lithacodia concinnimacula								145770	athrie:	eren	\$											7
9065	Leuconycta diphteroides									1004													, 3
9189	Charadra deridens						· · · Netting	ooarcreit		- 114449	" ""说到她	ą											13
9257	Acronicta impleta						- 1993年 1993年 - 1993年	24800 a.c. 1971 (846) 1971 (846)				1											15
9259	Acronicta noctivaga																						2
9364	Apamea finitima						初始																1
10303	Lacanobia tacoma						日期	i i http://www.	Rector	346831													13
10563	Protorthodes oviduca							Silin Silin 7		Sector 1	1 and 1						Ķ						2
9582	Nedra ramosula						544 5127										an), ar						2
7229	Hydriomena perfracta							C 2 2 3 4 5 5 7 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	19 (41-14)	135,559(133)	e e e e e e e e e e e e e e e e e e e	8											50
7810	Sphinx gordius											ni M											50 12
8158	Phragmatobia assimilans									74													
6844	Plagodis alcoolaria									경	1200 · ····	és esta proces	STORAGE STREET	N) Q BRITS	2								78 299
6235	Habrosyne scripta										998 				1000								289
6964	Tetracis cachexiata											±fir											74
7235	Hydriomena divisaria											33 23 31											43 117
7449										incais Incais	1919	(4) (注 2010年7月	45										362
7487										11-1400. 11-1400. 11-1400. 11-1400.													362 23
7520											ani Marina M												14
7715	Dryocampa rubicunda							· · ·															

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FLIGHT PERIODS FOR SPECIES WHOSE FIRST OCCURRENCE WAS WEEK 24 - June 12 - 18

	SPECIES										v	VEEK	(SUM
CAT#	NAME	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	
9226	Acronicta noctivaga																						22
7915	Nadata gibbosa						AR CONT																394
8214	Lophocampa maculata									1510 1510		880 Julii 											41
9212	Acronicta grisea										-61 - C			34893724	1								463
9212	Acronicta hasta						iner Mark			u ten er		812.622 (*** }											37
	Acronicta fragilis																						523
9241	Phiogophora iris						3372.0) 3372.0)																261
9546	Melanchra pulverulenta						house Mark			044Clab		DLE AVÎ											12
10294	•						12月2 12月2					1											62
10300	Spiramater grandis						18528	TRUCT		i Liggeri Heidifik	New Y	ing in int											193
10301	Spiramater lutra							ironesi SDaris			**i N												292
10999	Aplectoides condita						490 8283			1.466 1.478	1840 V 1963 J												41
6963	Tetracis crocallata							ing di se		RICHER WURDER	la den La den	9 4											175
6755	Pero morrisonaria																						329
10587	Orthodes cynica																						
7419	Hydrelia lucata									je:													156
7236	Hydriomena renunciata						2021								- *								122
7824	Paonias excaecatus															100.49470	274	Vanno	z				1253
7139	Cyclophora pendulinaria									e de la			1										298
7919	Peridea basitriens												1.105	a sanin									233 337
7921	Peridea ferruginea						Pacity C Parts of Parts of																337 254
9207	Acronicta innotata												300	esen Sen	Ì								
9048	Lithacodia albidula										Lif.												38
9678	Elaphria versicolor									È.			3										301
6863	Caripeta divisata																						290

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	SPECIES									۱	WEE	к									S	UM
CAT#	NAME	19	20	21	22	23	24	25 2	6 27	28	29	30	31	32	33	34	35	36	37	38	39	
6253	Eudeilinia herminiata										2005-000 2005-000 2005-000											3
6763	Nacophora quernaria							1999 B														2
7293	Rheumaptera hastata																					1
7048	Nemoria mimosaria										R											14
7368	Xanthorhoe labradorensis							LING CONTRACTOR	MINE	TRANSPORT		2 d Mainin	a.									2
8338	Phalaenophana pyramusalis								974													6
8397	Palthis angulalis									daing	81 											4
7828	Pachysphinx modesta							1949) antast						enec,	F							3
7895	Clostera albosigma							193954 195519391		儲			2633	Cation:	1							6
7958 7995	Dasylophia thyatiroides Heterocampa biundata									8 1695		- Service Service										19
7995	Venusia cambrica										.9 1	EXERCIC:		101000								12
7425	Eupithecia sheppardata								2162 02 989 1954 1955	ent MAD		34	CALCINE P	ĸ								4
7528	Eupithecia assimilata								VA Lili													5
8455	Lomanaltes eductalis															all of the second se						17
9206	Acronicta leporina vulpina																					15
8909	Autographa rubida																					1
9286	Harrisimemna trisignata																					7
9066	Leuconycta lepidula																					1
10197	Cucullia florea																					2
10199	Cucullia omissa																					1
7529	Eupithecia absinthiata																					2 1
9578.1	Hyppa "xylinoides"									1 21-704Fr + ~	620											21
7420	Hydrelia condensata																					26
7526	Eupithecia russeliata							NTER AND			ill Circler	a ang ang ang ang ang ang ang ang ang an	1									71
9200	Acronicta americana								1 Th		d 1.											74
9203	Acronicta dactylina								538			NGC II 10										28
9545	Euplexia benesimilis										urenn 39											101
9681	Elaphria festivoides							(AND FILE)	200 - 160	Bank Gi Bank Gi	kei Suoria	urtus:		(2								39
10891	Ochropieura plecta											i de la composition Nacionalista		0								105
7650	Callizzia amorata							NERNA ANOMA	alisi in Alisi ng	61/4 1997	neren Det	arean Dir	ua Koniczi									33
6588	tridopsis larvaria								185 -	154 154	ani Maringi	ulis ING	9-919: S]	useini	i.							82
6330	Semiothisa ulsterata							UPARENT KINDAREN		463 972	nd idd Pailet		tai 17086	3								76
6237	Pseudothyatira cymatophoroide	5						101000 101000	1842 - 1 838 1838		H OKTI KS	isant: Mi	XXIAA	역 (13)								41
7320	Perizoma alchemillata							iden Diana	道道 研究研究			nö Ni se	389	298	83							58
8007	Schizura unicornis							ANDER AND E-A LETON			1999			1								

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FLIGHT PERIODS FOR SPECIES WHOSE FIRST OCCURRENCE WAS WEEK 26 - June 26-July 2

	SPECIES											EEK											SUM
	NAME	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	
\T#									107623														1
2554	Synanthedon acerni									cuas													:
6326	Semiothisa aemulataria																						
6637	Eufidonia convergaria									i Gradiani			調問										1
6740	Xanthotype urticaria										19693		7199731Q										1
6815	Gueneria similaria								1705) 1105)	(2196 													
6826	Metarranthis hypocharia									Mark Inc. 5													
6864	Caripeta piniata								BHE HEE				1										1
7188	Dysstroma walkerata									(916916) 1		0.80	â										
7388	Xanthorhoe ferrugata								1646		NSC 10												
7430	Trichodezia albovittata								NEW C														
7575	Eupithecia mutata										l UNTALI	1											
7594	Eupithecia anticaria								1855 AFRE														
7757	Antheraea polyphemus								2013) 90243	erik Geografi	i Jaoya	ŝ											1
7931	Gluphisia septentrionis								9149 1914 1925		in the second	9											
7953	Symmerista leucitys								ante i 1911: 1912:	ñ. N													
8006	Schizura badia									10 51 52	00000			ŝ									
8012	Oligocentria semirufescens									2 H H Terrer													
8129	Pyrrharctia isabella											2 1 1											
8140	Hyphantria cunea									ini Ka													
8267	Cisseps fulvicollis										******	******	1										
8351	Zanciognatha cruralis												n Alexan	4									
8444	Bomolocha palparia								1238		ϕ_{ij}			1									
8727	Parallelia bistriaris										:338iei	91											
8912	Autographa mappa								33				942 3										
8923	Autographa ampla									18		706 200											
9046	Lithacodia bellicula																						
	Capis curvata																						
9059	Acronicta tritona									6 T													
9211	Acronicta funeralis																						
9221	Acronicta oblinita								-19 150														
9272	Agriopodes failax								**** 1411														
9281									NG Igi														
9556	Chytonix palliatricula								19				1241										
9633	Callopistria cordata																						
10295	Melanchra assimilis									nana) Ing Nga	94 Married												
10372	Lacinipolia anguina								0 71 [2		9772 1. ja												
10922	Diarsia freemani																						
10947	Xestia oblata										RTTN REA	ns P+p+											
10993	Hemipachnobia subporphyrea	1									56												
4652	Tortricidia testacea									1329-53 1329-5 1335-5													
6820	Metanema determinata								12		2 C 10	n ATON											
8011	Schizura leptinoides																						
8162	Platarctia parthenos								1														
8940	Syngrapha abstrusa								1														

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	SPECIES										w	/EEK	(SUM
CAT#	NAME	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	
9251	Acronicta retardata							:	9 9														26
10405	Lacinipolia lorea											- mer an 606/67	an second										13
11001	Anaplectoides pressus									10-7342 XC	0.14												75
9578,2	Hyppa "ancocisconensis"																						51
6725	Euchlaena muzaria											34		re sexement	a								43 34
6598	Protoboarmia porcelaria										1	an an an ai											34
7540	Eupithecia perfusca										·		19 31	1617S	075172								116
8005	Schizura ipomoeae													100	19. A								44
11008	Eueretagrotis perattenta								1910 Tribul														53
11010	Heptagrotis phyllophora								ACCOUNTS NUMBER OF			10-54											

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	SPECIES										٧	NEEK	<									5	SUM
CAT#	NAME	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	
18	Sthenopis argenteomaculatus																						2
4654	Tortricidia flexuosa																						3
4659	Packardia geminata											E38322070											1
6343	Semiothisa sexmaculata																						1
6349	Semiothisa banksianae																						2
6590	Anavitrinella pampinaria																						1
9193	Raphia frater											5-00611 1016-01 011-01-0											4
6677	Cabera erythemaria																						10
6678	Cabera variola								-														2
6743	Xanthotype sospeta											ture room											10
6819	Metanema inatomaria																						7
7164	Scopula junctaria																						2
7189	Dysstroma hersiliata								1	. ISU													7
7194	Dysstroma brunneata											a da garan da da											6
7312	Spargania magnoliata								1			State of the state											8
7370	Xanthorhoe abrasaria congregata											*ine se B											4
7371	Xanthorhoe iduata																						4
7416	Orthonama centrostrigaria								1	(included													1
7423	Hydrelia albifera																						2
7625	Chloroclystis rectangulata								-														3
7886	Darapsa pholus											AUTORIS,											2
7990	Heterocampa umbrata										. 34.94.4 24	(antro New											2
8098	Clemensia albata												7387777	120126	2								6
8304	Dasychira plagiata										878824		andrai Anasia		à K								11
8356	Chytolita petrealis									Sillin Geograpi		21 21 21 21 21 21 21 21 21 21 21 21 21 2											12 6
8370	Bleptina caradrinalis										inner Rivin Dorta												3
8442	Bomolocha baltimoralis																						3
8443	Bomolocha bijugalis											i Renga	un Nidi	y.m.	*								
8939	Syngrapha alias									izie Genn	Rin Adur		UNA:	1930	ć,								11
9047	Lithacodia muscosula										unna Unit		733191										2
9053	Lithacodia carneola																						4
9326	Apamea verbascoides									CERTER TOWN													4 2
9341	Apamea vultuosa									uniti Unitita													11
9638	Amphipyra pyramidoides																	13.14	1				• •

continued on page 12

FLIGHT PERIODS FOR SPECIES WHOSE FIRST OCCURRENCE WAS WEEK 27 - July 3 - July 9

CAT#	SPECIES NAME	19	20	21	22	23	24	25	26		EK 28	29	30	31	32	33	34	35	36	37	38	39	SUM
40070	Lacinipolia lustralis									NO.N.													3
10370																							4
10449	Leucania insueta									CRC II													
10926	Spaelotis clandestina									haer													5
10288	Polia detracta									-9° 3													34
6654	Hypagyrtis unipunctata													932									61
6796	Campaea perlata										ĺ				9771/9 8-3399								41
7187	Dysstroma truncata traversata																						92
7698	Malacosoma disstria																						328
8322	Idia americalis														cun 1991 270 (288)								49
10919	Diarsia jucunda																						89
11000	Anaplectoides prasina											i. National Astronomy											62
31	Korscheitellus gracilis									ALC: NO													63
6656	Hypagyrtis piniata																						115
7159	Scopula limboundata											X. • •											34
11009	Eueretogrotis attenta													5005) (189)									48

PARTI

July	10	-	16

	SPECIES										W	/EEk	C										SUM
CAT#	NAME			~ 4				05	00	07	28	29	30	31	32	33	34	35	36	37	38	39	
		19	20	21	22	23	24	20	20	21	20	23	00	01	54	00	04	Ç,					1
6867	Caripeta angustiorata																						1
7132	Pleuroprucha insularia										HIRD HUMPER		(1984)	(decine									6
7701	Malacosoma americanum												1200										1
7787	Ceratomia undulosa										10000												2
7939	Furcula occidentalis											0.2.37	* 5 23										4
7998	Heterocampa manteo										Station of the second	115-12	neras Neras										5
8017	Oligocentria lignicolor										ENERGY STATE	arona	. (<u>.</u>										5
8111	Haploa lecontei												36783										8
8114	Holomelina laeta treatii												ir iai										2
8197	Apantesis virgo										Maria Maria												2
8319	Leucoma salicis																						1
8326	ldia rotundalis											i Containa	1										5
8362	Phalaenostola metonalis										- 1985 - 7859		[239255		1								12
8942	Syngrapha rectangula										- TUBE NAME	ising T	E	e in the second									1
8950	Plusia putnami										ionali ionalia ionalia	9 0		ţ									3
9333	Apamea lignicolora											*											2
9348	Apamea amputatrix										NIN.												1
9359	Apamea commoda										CESS: CESS:	100											2
9367.1	Agroperina cogitata																						-
9653	Caradrina morpheus											S. S.	sacher	it.									-
10446	Leucania multilinea														15870	19469	SECUL	*#5(8)@5	ł				13
10929	Eurois occulta											15 10 10 10 10	100000005	ana ana		9.9-13 1918 - 1							14 15
10942	Xestia c-nigrum adela													a teri									
10589.1	Orthodes goodelli											22 70 73	. 884-5977	82									2 30
8341	Zanciognatha theralis											÷.		i u									30
10275	Polia nimbosa											2											35 84
10276	Polia imbrifera													li Internet	007878	88330	san Ki	EIÆ					04 130
8323.1	ldia n.sp.nr. aemula											a augusta											66
8349	Zanclognatha protumnusalis										1915												90

PARTI

	SPECIES										v	VEEK	¢										SUM
CAT#	NAME	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	
22	Sthenopis auratus																						2
6287	Itame anataria																						7
6304	Itame bitactata																						11
6965	Eugonobapta nivosaria																						10
7414	Orthonama obstipata																						2
8123	Holomelina ferruginosa																						2
8186	Apantesis williamsii																						3
8203	Halysidota tessellaris																						1
8896	Diachrysia aereoides																						3
8897	Diachrysia balluca																						1
9437	Chortodes inquinata																						3
10293	Melanchra picta																						1
10238	Graphiphora augur haruspica														NJ 2014 DOI 10								3
11164	Schinia florida																						1
7316	Perizoma basaliata															A							62
	Itame pustularia												Ç. Ü				a i						161
6273																		m					61
7206	Eulithis explanata											ALC: NO	unsa Folice										20
11012	Cryptocala acadiensis											1.131.84	145249			4,51212	25						

PART I

	SPECIES										v	VEE	к										SUM
CAT#	NAME	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	
6303	Itame subcessaria																						1
7394	Epirrhoe alternata																						1
7941	Furcula modesta																						1
8404	Rivula propingualis																						2
8536	Calyptra canadensis																						1
8929	Syngrapha viridisigma																						13
8953	Plusia venusta																						1
10055	Apharetra dentata														1								4
10065	Homohadena infixa																						3
10304	Trichordestra legitima																						1
10431	Faronta diffusa																						1
10917	Diarsia rubifera																						23
11029	Abagrotis alternata																						3
6912	Sicya macularia																						23
7009	Nematocampa resistaria																						92
10930	Eurois astricta																						87
10962	Xestia perquiritata												idere Refiz	ett.		100							78
9547	Phlogophora periculosa																						46
10943	Xestia normaniana													и., б., С									73
10944	Xestia smithii																						56
7182	Dysstroma citrata																				2007000		72

PARTI

	SPECIES										N	/EEk	<										SUM
CAT#	NAME	19	20	21	22	23	24	25	26	27	28	29	30		32	33	34	35	36	37	38	39	
7208	Eulithis serrataria																						3
7928	Notodonta simplaria																						1
8352	Zanclognatha jacchasalis													跑									1
8738	Caenurgia crassiuscula																						1
8776	Catocala coelebs																						2
9367	Agroperina dubitans																200000000000000	5000.00 SP-8 23					1
9396	Eremobina claudens														1210E								5
9454	Amphipoea velata																						2
9564	Andropolia contacta															6 74 703 X6							2
9647	Proxenus miranda																						1
10280	Polia purpurissata																						3
10397	Lacinipolia renigera																						1
10406	Lacinipolia olivacea													10042482	40000000	20.0							15
10436	Aletia oxygala																						1
10627	Tricholita signata														2			oyteteka					4
11004	Protolampra rufipectus																論規						5

FLIGHT PERIODS FOR SPECIES WHOSE FIRST OCCURRENCE WAS WEEK 32 - Aug. 7 - 13

WOLFE LAKE - 1994

	SPECIES								۷	VEËł	<								SUM		
CAT#	NAME	19	20	21	22	23	24	25	26	27	28	29	30	31	 33	 35	36	37	38	39	
6798	Ennomos subsignaria																				7
6982	Prochoerodes transversata																				18
8846	Catocala sordida																				3
8925	Syngrapha altera																				1
8926	Syngrapha octoscripta																				1
9639	Amphipyra tragopogonis																				2
10915	Peridroma saucia																				1

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KE - 1994 FLIGHT PERIODS FOR SPECIES WHOSE FIRST OCCURRENCE WAS WEEK 33 - Aug. 14 - 20

WOL	FE	LAKE	- 1994	
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	SPECIES							v	VEEK	<								5	SUM			
CAT#	NAME	19	20	21	22	23	24	25	26	27	28	29	30	31	 	34	35	36	37	38	39	
8941	Syngrapha cryptica																					1
8867	Catocala blandula																					1
10968	Anomogyna badicollis																					15
6888	Lambdina fiscellaria																					301
9878	Lithomoia germana																					19

PARTI

FLIGHT PERIODS FOR SPECIES WHOSE FIRST OCCURRENCE WAS WEEK 34 - Aug. 21 - 27

WOLFE LAKE - 1994

	SPECIES						WE	ΕK														SUM	
CAT#	NAME	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	
																	N#######-**	2004030 201				WARATATI I	
8316	Orgyia leucostigma plagiata															1							7
9989	Sutyna privata																						2
10970	Anomogyna youngii															100							1

PART I

CAT#	SPECIES NAMES	19	20	21	22	23	WEI 25	27	28	29	30	31	32	33	34	35	36	37	38	SUM 39	
																					6
7673	Tolype laricis																				5
8857	Catocala ultronia																				3
9952	Eucirroedia pampina																				4
9961	Anathix ralla																				1
10123	Oncocnemis piffardi																				
																					1
10524	Nephelodes minians																				1
10756	Euxoa campestris																				56
6797	Ennomos magnaria																ar o an				50

PARTI

Page 20

CAT#	SPECIES NAME									v	VEE	<									SL	м	
0,11*		19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	
6898	Cingilia catenaria																						1
7433	Epirrita autumnata																						34
8833	Catocala concumbens																						4
9420	Oligia illocata							•														11.4	24
9427	Meropleon diversicolor																						4
9480	Papaipema pterisii																						3
9490	Papaipema nepheleptena																						1
9509	Papaipema unimoda																						5
9935	Eupsilia tristigmata																						4
	Sunira bicolorago																						5
9957	Xanthia togata																						1
9965	Hillia iris																						1
9967	• • • • • • •																						8
9976 109 42 .1	Platypolia anceps Xestia dolosa																						1 1

PART I

PART II

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	SPECIES			WEEK							SUM
Cat#	NAME	19 20 21 22 23 24	4 25 26 27	28 29 3	30 31 32	33 3	4 35	36	37 3	38 39	
11029	Abagrotis alternata			BY:							3
7635	Acasis viridata			hte	nnaisthis						1
9200	Acronicta americana	W1843		1.0							71
9203	Acronicta dactylina										74
9241	Acronicta fragilis		Pér de la 195		20104						523
9221	Acronicta funeralis	\$10416	- COLOR								3
9212	Acronicta grisea										463
9229	Acronicta hasta										37
9257	Acronicta impleta					NACIONAL CON					13
9261	Acronicta impressa			·							16
9249	Acronicta increta										228
9207	Acronicta innotata										254
9206	Acronicta leporina vulpina										15
9259	Acronicta noctivaga			Catcherter							15
9272	Acronicta oblinita										15 26
9251	Acronicta retardata	26907		ANSAR Sinton							22
9226	Acronicta superans			e en							3
9211	Acronicta tritona			RUU							68
6570	Aethalura intertexta			3050							3
9281	Agriopodes fallax										2
9367.1	Agroperina cogitata				08247						1
9367	Agroperina dubitans							ţ			9
10663	Agrotis ipsilon	152M2H	1/46	a uzani			333524	ā			1
10436	Aletia oxgala										2
9454	Amphipoea velata Amphipyra pyramdoides				- dhisiwi	170 H					11
9638	Amphipyra tragopogonis		1000	13			ernstadis	-		0.448.296358	2
9639 6582	Amphipyra tragopogonis Anacamptodes vellivolata	3192	n in the second s		0.321284	19					1
6836	Anagoga occiduaria			译							13
11000	Anaplectoides prasina	1300	to have been as the second								62
11000	Anaplectoides pressus						30.397.037	*5			75
9961	Anathix ralla						100	* N * 3			1
6590	Anavitrinella pampinaria			ň		m					1
9564	Andropolia contacta						NE SEC.	8			2
10968	Anomogyna badicollis						99%) 99%)	2/002			15
10970	Anomogyna youngii		NedL5225222"****	int.			195 175 9				1
7757	Antheraea polyphemus										2 3
7330	Anticlea multiferata	2									3 28
7329	Anticiea vasiliata			CENTRE -							20 1
9359	Apamea commoda			all a	19572						2
9348	Apamea amputatrix	1111	ne sur	and i							2
9364	Apamea finitima			ni Nasili (1							3
9333	Apamea lignicolora		193								4
9326	Apamea verbascoides										2
9341	Apamea vultuosa		2.2.6								2
8197	Apantesis virgo				(2016) (212)/2						3
8186	Apantesis williamsii			GIORE 1							4
10055	Apharetra dentata	15			uert saituusti	ncisidil					292
10999	Aplectoides condita	S	elesting (1999) South								3
8923	Autographa ampla		連続								3
8912	Autographa mappa			(5536)27							1
8909	Autographa rubida Railova doubledavi	Ri Ma									16
8969	Baileya doubledayi Baileya ophthalmica										43
8970	Besma quercivoria										47
6885 6640	Biston betularia cognataria		la di seconda di second Seconda di seconda di s Seconda di seconda di s								17
8370	Bleptina caradrinalis	53A	Land Control of the second sec								6
0010	Diopana dalaritation										

PART II



Cat#	SPECIES NAME	WEEK 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37	SUM 38 39
		14/11/2015/34/2010 10/10/10/10/10/10/10/10/10/10/10/10/10/1	
8442	Bomolocha baltimoralis		3
8443	Bomolocha bijugalis		3
8444	Bomolocha palparia		7
10011	Brachionycta borealis		2 10
6677 6678	Cabera erythemaria Cabera variola		2
8738	Caenurgia crassiuscula		2 1
7650	Callizzia amorata		105
9633	Callopistria cordata		17
8536	Calyptra canadensis	子通行的编辑子句和建物的编辑合称问题。	1
6796	Campaea perlata		41
9059	Capis curvata		1
9653	Caradrina morpheus		1
6867	Caripeta angustiorata		1
6863	Caripeta divisata		290
6864	Caripeta piniata	1. 日本語の構成である。そのである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のである。 のでのである。 のである。 のである。 のである。 のである。 のでのである。 のでのでる。 のでのでる。 のでのでる。 のでのである。 のでのでのでる。 のでのでる。 のでのでのでのでのでる。 のでのでのでる。 のでのでのでのでる。 のでのでのでのでのでのでのでる。 のでのでのでのでのでる。 のでのでのでのでのでのでのでのでのでのでのでのでのでのでのでのでのでのでので	1
8867	Catocala blandula	C) THY STRAFT	1
8776	Catocala coelebs		2
8833	Catocala concumbens	t verstenendentet reist verst	4
8846	Catocala sordida		3
8857	Catocala ultronia		5
10994	Cerastis tenebrifera		1
7787	Ceratomia undulosa		1
9189	Charadra deridens		3
7625	Chloroclystis rectangulata		3
9437	Chortodes inquinata	alloy yessel	3
8356	Chytolita petrealis		12
9556	Chytonix palliatricula		16
6898	Cingilia catenaria	-9927980%	
8267	Cisseps fulvicollis		1
7639	Cladara atroliturata		103 148
7637	Cladara limitaria		148
8098	Clemensia albata		3
7895	Ciostera albosigma		15
7901	Clostera apicalis		30
9184	Colocasia flavicornis		391
10501	Crocigrapha normani		20
11012	Cryptocala acadiensis		2
10197	Cucullia florea		1
10199	Cucullia omissa		298
7139	Cyclophora pendulinaria Darapsa pholus		2
7886 8304	Dasychira plagiata		11
7958	Dasylophia thyatiroides		6
8896	Diachrysia aereoides		3
8897	Diachrysia balluca		1
10922	Diarsia freemani		6
10919	Diarsia jucunda		89
10913	Diarsia rubifera		23
6251	Drepana arcuata		81
6252	Drepana bilineata		136
7715	Dryocampa rubicunda		14
7194	Dysstroma brunneata	这次的建筑是第二次有 一次在1993年第二月	6
7182	Dysstroma citrata		72
7189	Dysstroma hersiliata	- concerning and provide the second sec	7
7187	Dysstroma truncata traversata		92 10
7188	Dysstroma walkerata		10

PART II

Cat#	SPECIES NAME	WEEK 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 3	SUM 7 38 39
7213	Ecliptopera silaceata albolineata		15
6597	Ectropis crepuscularia		43
9681	Elaphria festivoides		101
9678	Elaphria versicolor		301
6797	Ennomos magnaria		56
6798	Ennomos subsignaria		7
7394	Epirrhoe alternata	Brand Fried State	1
7433	Epirrita autumnata	onuera	34
9396	Eremobina claudens		5
6734	Euchlaena marginaria		2
6725	Euchlaena muzaria		43
9952	Eucirroedia pampina		3
6253	Eudeilinia herminiata		3
11008	Eueretagrotis perattenta		44
11009	Eueretogrotis attenta		48
6637	Eufidonia convergaria	12945214211998374234321998374234321998374234321998374234 1294521421 1294521423 1274521423 1274521423 1274521423 127454244 127454244 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 12745424 1275542 127554 1275542 1275542 1275542 1275542 1275542 1275542 1275542 1275542 1275542 1275542 1275542 1275542 1275542 1275542 1275542 1275542 1275542 1275542 1275542 1275542 1275542 1275542 1275542 1275554 1275554 12755575 127555757 1275557 1275557 12755757 12755757 1275577 1275577 1275577 1275577 1275577 1275577 12755777 12755777 127557777777777	1
6965	Eugonobapta nivosaria	1: 1244 JAN 1: 124	10
7206	Eulithis explanata		61
7208	Eulithis serrataria		3
7200	Eupithecia absinthiata	61230 (2003 2003) 2003) 2003) 2004 2004 2004 2004 2004 2004 2004 200	2
7574	Eupithecia albicapitata	Anno ann an Air ann ann an Air ann ann ann ann ann ann ann ann ann an	2
7543	Eupithecia annulata		2
7594	Eupithecia anticaria		8
7528	Eupithecia assimilata		5
7320	Eupithecia casloata		12
7459	Eupithecia columbiata		34
7489	Eupithecia lariciata		14
7474	Eupithecia miserulata		13
7575	Eupithecia mutata	No ben and the second s	4
7449	Eupithecia palpata		117
7540	Eupithecia perfusca		38
7605	Eupithecia ravocostaliata		1
7526	Eupithecia russeliata		26
7520	Eupithecia satyrata dodata		23
7494	Eupithecia sheppardata		4
7487	Eupithecia subfuscata		362
9545	Euplexia benesimilis		28
9936	Eupsilia morrisoni		100010-00138
9935	Eupsilia tristigmata	No metrin	4
9933	Eupsilia vinulenta	- 2월 1978년 - 전문(1978년 - 전문(1971년) - 전문(1971년) - 국는 2017년	1
10930	Eurois astricta		87
10929	Eurois occulta		14
6966	Eutrapela clemataria		13
10756	Euxoa campestris		1
10431	Faronta diffusa		1
10008	Feralia comstocki		160
10005	Feralia jocosa		4
7941	Furcula modesta		1
7939	Furcula occidentalis	artin de la companya de la company de la companya de la	2
7933	Gluphisia avimacula		5
7931	Gluphisia septentrionis	 Come and Provide State Market State State	10
10928	Graphiphora augur haruspica		3
6815	Gueneria similaria		11
6235	Habrosyne scripta		289
8203	Halysidota tessellaris		1
8111	Haploa lecontei	471777 2020197 (1988) 6711 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1	5
9286	Harrisimemna trisignata		'
3200	, <u></u>	112 · · · · · · · · · · · · · · · · · ·	

PART II

Page 3

Cat#	SPECIES NAME	19	20	21	22	23	24	25 26	27	WEE 28 29		31 32	2 33 3	34 35	36 3	37 38		UM
10993	Hemipachnobia subporphyrea							111 H H H H		entrat de Bal	ĸ							1
11010	Heptagrotis phyllophora										Summer of the local diversion of the local di							53
7995	Heterocampa biundata				sierretetti	NAMES AND A DESCRIPTION	102183/38											19
7994	Heterocampa guttivitta					122												19 2
7990	Heterocampa umbrata									osana ang	Senta							4
7998	Heterocampa manteo								100	8879.59								1
9967	Hillia iris									HERE							3903	2
8123	Holomelina ferruginosa								1									8
8114	Holomelina laeta treatii Homochlodes fritillaria						GREE		LEUN	juliu islek								18
6812 6811	Homochlodes lactispargaria					ĝ		1925555555	in the second									2
10065	Homohadena infixa				PERM	53 23	25HHM	N.										3
7423	Hydrelia albifera																	2
7420	Hydrelia condensata										*							21
7419	Hydrelia lucata							1. ee ar a										156
7235	Hydriomena divisaria								5X5 8									43
7229	Hydriomena perfracta																	2
7236	Hydriomena renunciata								83 a -									122
6656	Hypagyrtis piniata								0.040	909 - C			ser 1					115
6654	Hypagyrtis unipunctata																	61
8140	Hyphantria cunea																	3 1
9578.1	Hyppa "xylinoides"									anar reje	erenaa							51
9578.2	Hyppa "ancocisconensis"									ociu 205 Statu Vitato		1000eres	90000					49
8322	Idia americalis													NOT				130
8323.1	ldia n.sp.nr. aemula										Patie			ar caulo ar caulou				1
8326	Idia rotundalis							TERRITARY					10.20					33
6588	Iridopsis larvaria							DEN PESH	Ye.									7
6287	Itame anataria										(This		(1)					11
6304	Itame bitactata										Syerie							161
6273	Itame pustularia										1993 1973 (1	26, 38		1,1213			11513012403	1
6303	Itame subcessaria Korscheltellus gracilis								NG M									63
31	Lacanobia radix						101 42			99885	ġ4,10239							5
10298 10303	Lacanobia tacoma					8268	en Unite	1994099100004110 19940991000004110	ng. 2011.01									1
10303	Lacinipolia anguina						9486073		9									3
10405	Lacinipolia lorea								2006). 2010-									13
10370	Lacinipolia lustralis											a real conservations	Maritarer en (m.	406192				3
10406	Lacinipolia olivacea																	15 1
10397	Lacinipolia renigera												000000000	nau sure				301
6888	Lambdina fiscellaria								9414140201	व्यक्षमत					24 24		·	4
10449	Leucania insueta								1914/120		inesu??	ŝ						13
10446	Leucania multilinea										y na se							2
8319	Leucoma salicis						854Z	11										7
9065	Leuconycta diphteroides									999 A								1
9066	Leuconycta lepidula						593	NI NO	9.845	nn ag		ŝ						38
9048	Lithacodia albidula									Balantin ooni	windere	÷						1
9046	Lithacodia bellicula							80896 102109				1						2
9053	Lithacodia carneola Lithacodia concinnimacula								11. Y		- derit	2						5
9050	Lithacodia concinnimacuia Lithacodia muscosula						5.81	1999-0999-09 1			30							11
9047	Lithomoia germana								82. ⁴ 8	.,				262,318 262,318 261,819				19
9878	Lithophane baileyi	7.55																6
9902	Lithophane fagina	She		eyali M	(274)													5
9917 9893	Lithophane hemina	087 7257															Ganes	3
9888	Lithophane innominata																	9 5
9889	Lithophane petulca			59			讕										- Shiri -	
9922	Lithophane pexata																Alter and a	10

PART II



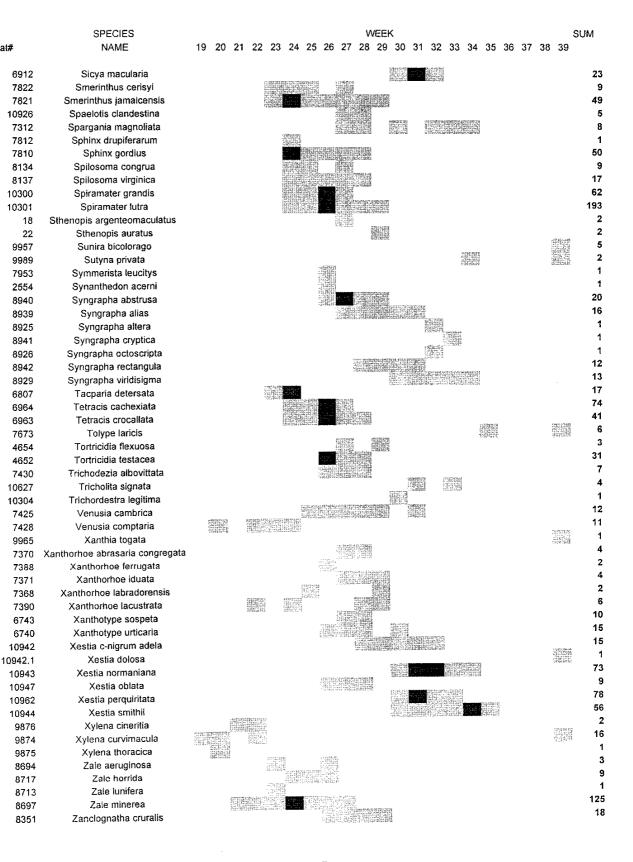
Cat#	SPECIES NAME	WEEK 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37	SU 38 39
9909	Lithophane tepida	7022490345 	
9928	Lithophane thaxteri	vije veletio creative data creative data creative data www.exector.adda	
9916	Lithophane unimoda	venter allen anderen anderen Frankelan Frankelan	
7640	Lobophora nivigerata		
8455	Lomanaltes eductalis		
6668	Lomographa glomeraria		
6667	Lomographa vestaliata		
8214	Lophocampa maculata		
7701	Malacosoma americanum		
7698	Malacosoma disstria		
10292	Melanchra adjuncta		
10295	Melanchra assimilis		
10293	Melanchra picta		
10294	Melanchra pulverulenta	4 - 64 - 69 - 69 - 69 - 69 - 69 - 69 - 6	
6620	Melanolophia canadaria		
6621	Melanolophia signataria		You for which
9427	Meropleon diversicolor	n de Alex de State Andrew y de la conference de	
7307	Mesoleuca ruficilliata		
10996	Metalepsis salicarum		
6820	Metanema determinata		
6819	Metanema inatomaria		
6819	Metanema inatomaria	2.2.9 hold Object state approximation of the first state approximation of the state approximation of t	
6822	Metarranthis duaria		
6826	Metarranthis hypocharia	. YEELATTU & AND A CALL ALL ALL ALL ALL ALL ALL ALL ALL	
10520	Morrisonia evicta		
10521.1	Morrisonia latex		
6763	Nacophora quernaria		
7915	Nadata gibbosa		
9582	Nedra ramosula		
7009	Nematocampa resistaria		
7009	Nemoria mimosaria		
10524	Nephelodes minians		
7926	Notodonta scitipennis		
7928	Notodonta simplaria		
	Ochropieura plecta		
10891	Oligia illocata	eranises for a second secon	
9420	Oligocentria lignicolor	64 2005-000 小林 建甲酮酸 14 200-000-000-000-000-000-000-000-000-000	
8017	Oligocentria semirufescens		
8012	Oncocnemis piffardi	U LA CONTRA CONTRACTO A	
10123	Orgyia leucostigma plagiata		
8316	Orgyla leucostignia plaglata Orthodes cynica		C12+12-10+10
10587	•		
10589.1	Orthodes goodelli Orthofidonia exernata		
6429	Orthofidonia exornata		
6430	Orthofidonia flavivenata		
6428	Orthofidonia tinctaria		
7416	Orthonama centrostrigaria		
7414	Orthonama obstipata	and a constraint of the constr	
10495	Orthosia hibisci		
10490	Orthosia revicta		
10487	Orthosia rubescens		
7828	Pachysphinx modesta		
4659	Packardia geninata	Hada serajan Natar Santar Santar Natar Santar	
8397	Palthis angulalis		
9177	Panthea acronyctoides		
7824	Paonias excaecatus		
7005	Paonias myops		
7825	Papaipema nepheleptena		THE REPORT OF TH

PART II

Cat#	SPECIES NAME	WEEK 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 3	SUM 37 38 39
			N 38 38
9480	Papaipema pterisii		3
9509	Papaipema unimoda		5
8727	Parallelia bistriaris		1
7919	Peridea basitriens		233
7921	Peridea ferruginea		337
10915	Peridroma saucia		1
7320	Perizoma alchemillata		41
7316	Perizoma basaliała		62
6755	Pero morrisonaria		175
6804	Petrophora subaequaria		3
8338	Phalaenophana pyramusalis		6
8362	Phalaenostola metonalis	i i je za kraj de presente i zakraj de presente i zakraj i zakraj de presente i zakraj	5
7922	Pheosia rimosa		16
9546	Phlogophora iris		261
9547	Phlogophora periculosa		46
8158	Phragmatobia assimilans		12
8156	Phragmatobia fuliginosa rubricosa	at a sector manager (2) and (2	4
7687	Phyllodesma americana		25
6844	Plagodis alcoolaria		78
6842	Plagodis phlogosaria		219
6840	Plagodis serinaria		81
8162	Platarctia parthenos		145
9976	Platypolia anceps	然和歌唱	8
7132	Pleuroprucha insularia	정가라(현실) - 여러 10716 - 여러 10716 - (10716) - (10716) - (10716) - (10716) - (10716) - (10716) - (10716) - (10716) - (10716) - (10716) - (10716) - (10716) - (10716) - (10716) - (10716) - (10716) - (10716) - (10716) - (10716) - (10716) - (10716) - (10716) - (10716) - (10716) - (10716) - (10716) - (10716) - (10716) - (10716) - (10716) - (10716) - (10716) - (10716) - (10716) - (10716) - (10716) - (10716) - (10716) - (10716) - (10716) - (10716) - (10716) - (10716) - (10716) - (10716) - (10716) - (10716) - (10716) - (10716) - (10716) - (10716) - (10716) - (10716) - (10716) - (10716) - (10716) - (10716) - (10716) - (10716) - (10716) - (10716) - (10716) - (10716) - (10716) - (10716) - (10716) - (10716) - (10716) - (10716) - (10716) - (10716) -	1
8950 8953	Plusia putnami Plusia venusta		1
10288	Polia detracta		34
10236	Polia imbrifera		84
10275	Polia nimbosa		39
10280	Polia purpurissata		3
6838	Probole amicaria		128
6982	Prochoerodes transversata		18
6598	Protoboarmia porcelaria		34
11004	Protoiampra rufipectus		5
10563	Protorthodes oviduca	7793332 (#144) # 1997 (#1997) # 1847 (#152) # 1997 (#153) # 1997 (#14) # 1997 (#153) # 1997 (#153) # 1997 (#154) # 1997 (#14) # 1997 (#153) # 1997 (#154) # 1997 (#154) # 1997 (#154) # 1997 (#154) # 1997 (#154)	13
9647	Proxenus miranda		1
10438	Pseudaletia unipuncta		35
6237	Pseudothyatira cymatophoroides		76
8129	Pyrrharctia isabella	・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・	4
9193	Raphia frater	Construction of the second sec	4
7293	Rheumaptera hastata	Harris Marga Harris Marga Karal Santa Karal Santa Karal Santa Karal Santa	1
8404	Rivula propinqualis		2
11164	Schinia florida	is the second	1
8011	Schizura leptinoides	1. 499 1991日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日日 1991日 1991日日 1991日 1991日 1991日 1991日 1991日 1991日 1991日 1991日 1991日 1991日 1991日 1991日 1991日 1991日 1991日 1991日 1991日 1991日 1991日 1991日 1991日 1991日 1991日 1991日 1991日 1991日 1991日 1991日 1991日 1991日 1991日 1991日 1991日 1991日 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 1991 19	29 1
8006	Schizura badia		116
8005	Schizura ipomoeae		58
8007	Schizura unicornis		2
7164	Scopula junctaria		34
7159 6817	Scopula limboundata Selenia alciphearia		34 17
6818	Selenia kentaria		5
6326	Semiothisa aemulataria	TARE SECTOR STATES	3
6349	Semiothisa banksianae	Tight AT State of the sector of the secto	2
6349 6347	Semiothisa pinistrobata		4
6343	Semiothisa sexmaculata		1
6344	Semiothisa signaria dispuncta		217
6330	Semiothisa ulsterata		82
		an y anna a gangaga an an ta' BMAAdabaran ta'at	

PART II

Cat#



PART II

WOLFE LAKE - 1994 SPECIES FLIGHT PERIODS, ARRANGED ALPHABETICALLY BY GENUS

Cat#	SPECIES NAME	19	20	21	22	23	24	25	26	27	VEE 29		03	1 3:	23	33	34	35	36	37	38	36	SUM
8352 8349 8341	Zanclognatha jacchasalis Zanclognatha protumnusalis Zanclognatha theralis											i ji ikuli Dhr			2000 C								1 66 30
																G	Gran	id Te	otal	=			15851

PART II

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			PAR			
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										WEE	ĸ				SUM
0.474	SPECIES NAME	19	20	21	22	22	24	25	26			32 33	34 3	5 36 3	
CAT#		19	20	41	42	20	24	20	20	2, 20 20	00 01	02 00	04 0	0 00 0	
HEPIALIDA															2
18	Sthenopis argenteomaculatus									Santan Galaga					2
22	Sthenopis auratus									CHIRAL STREET	NG NG				63
31	Korscheltellus gracilis									CEREMON .	1968 E E				
SESIIDAE									056342	8					1
2554	Synanthedon acerni									i.					•
LIMACODID															31
4652	Tortricidia testacea								·'``		3				3
4654	Tortricidia flexuosa										2907 2				1
4659	Packardia geminata									in and a					•
THYATIRID/							100	1920	8			Ē			289
6235	Habrosyne scripta								Serielii		a ny si				76
	Pseudothyatira cymatophoroides								hi i ki i i		and the second	() ()			
DREPANIDA					Mate	14	64976	NR N	NUL SI						81
6251	Drepana arcuata			onstra		g Slort									136
6252	Drepana bilineata					Shar	in the second					Real Print		in and a	3
6253	Eudeilinia herminiata							1000	10 10						_
GEOMETRI										5700					161
6273	Itame pustularia											- accilenti	1311470		#9958C 1-1
6287	Itame anataria									201010					1
6303	Itame subcessaria											1901313			11
6304	Itame bitactata								10055			GRAIN			3
6326	Semiothisa aemulataria							1454			191401				82
6330	Semiothisa ulsterata							11010		LINE HERE AND	Market I				1
6343	Semiothisa sexmaculata					2121	的機	(74) Q			21,251				217
6344	Semiothisa signaria dispuncta				inder	ig 1			149 0 8		nunu				4
6347	Semiothisa pinistrobata						9804	1000	81	0.0000000	20 28				2
6349	Semiothisa banksianae					158342			30	1939476-009					5
6428	Orthofidonia tinctaria								1. 12:-1-1						6
6429	Orthofidonia exornata							Hand	HER.	i)					1
6430	Orthofidonia flavivenata			1.20		16200		91 1975-13	(File)	R					68
6570	Aethalura intertexta					Rei i i i		8888 51		2X 1P					1
6582	Anacamptodes vellivolata						345	18 1978	KANA						33
6588	Iridopsis larvaria							2003	i dent An		Canasa	(hitestiii)			1
6590	Anavitrinella pampinaria		1922,772			2 112日	F10814	STREET.							43
6597	Ectropis crepuscularia		388 388			1 888	Rectary.					54 54			34
6598	Protoboarmia porcelaria					21.347 137122		MEGR			1134	2.4			49
6620	Melanolophia canadaria		968K	uuus		R E			inter and a second s						169
6621	Melanolophia signataria		3202			19462-5	57 C								1
6637	Eufidonia convergaria						399				1 di	1			17
6640	Biston betularia cognataria						胡馬	101110	ressió		linan a	- Angenau Galangenau			61
6654	Hypagyrtis unipunctata									A STATE OF					115
6656	Hypagyrtis piniata						/ 10 100			CAREAGE AND	in lative in a state	5028			4
6667	Lomographa vestaliata		E 112			1 37			199300	55					59
6668	Lomographa glomeraria		Hini.			35		5)E							10
6677	Cabera erythemaria										GERNAS	1.2.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1			2
6678	Cabera variola										972) 127)				43
6725	Euchlaena muzaria							202	322	1259903212221072					2
6734	Euchlaena marginaria						83	450	003						15
6740	Xanthotype urticaria								7016		nhaisfeit				10
6743	Xanthotype sospeta						1000								175
6755	Pero morrisonaria						24								2
6763	Nacophora quernaria							-83	638						41
6796	Campaea perlata										rgantsirks #4		1.000		56
6797	Ennomos magnaria														7
6798	Ennomos subsignaria					ang t Mili	19	190				er eta en fakal	NAXC .		3
6804	Petrophora subaequaria				MAGE	dil 		柳							17
6807	Tacparia detersata						-7 4								

PART III

CAT#	SPECIES NAME	19 2	0 21	2	22 23	3 24	25	26	27		VEEI 29		31 ;	32 :	33 :	34 3	5 36	37	3	839	SUM	
6811	Homochlodes lactispargaria			1000 E	Cituri Situri Situri		6.22														2	
6812	Homochlodes fritillaria			301	a, pipeto																18	
6815	Gueneria similaria																				11	
6817	Selenia alciphearia			1922																	17	
6818	Selenia kentaria				240	lana da Gran da	1.246.10		ine nateszári i	9454113235	172526387										5	
6819	Metanema inatomaria																				7	
6820	Metanema determinata				19292	anatan	aasas														20	
6822	Metarranthis duaria				1999 1999 1999			ogris dis													18 1	
6826	Metarranthis hypocharia					Cherto I M	UGANK	S. Gibbo	5171251												13	
6836	Anagoga occiduaria Probole amicaria					r Lain		140													128	
6838 6840	Plagodis serinaria						l'anna a		SUES												81	
6842	Plagodis phlogosaria	105					i Sec. sa	an an a'	HUQ												219	
6844	Plagodis alcoolaria	68	24241	ŝ	anis king		NIN CONTRACTOR		83389												78	
6863	Caripeta divisata					12.02			(他) 日本武	1.45											2 9 0	
6864	Caripeta piniata					21 176 7 1 89			.111.1466		Mareneo (C		31-448.634.8								1	
6867	Caripeta angustiorata								244 W. W												1	
6885	Besma quercivoria													24			107.7%				47	
6888	Lambdina fiscellaria													2122						057 2005	301	
6898	Cingilia catenaria											archarets		125268							1	
6912	Sicya macularia					1201-fra	inin manifi		essentation.	44,843,019											23	
6963	Tetracis crocallata									ile il Cine i											41 74	
6964	Tetracis cachexiata					055	201100				0466		unar								10	
6965	Eugonobapta nivosaria				180		inalità				2010	ir kes	1921RIN								13	
6966 6982	Eutrapela clemataria Prochoerodes transversata				352	HERONE.	Satur						1154								18	
7009	Nematocampa resistaria											681H			E E I		1919			432303414	92	
7048	Nemoria mimosaria																				14	
7132	Pleuroprucha insularia									SE SESSO SE SESSO SE SESSO	30 KA-4 1 M			0.032377962	120031/5	100	1016827				1	
7139	Cyclophora pendulinaria											Baarne				611 Circ					298	
7159	Scopula limboundata																				34 2	
7164	Scopula junctaria								3368 3468			8055	158(44)	RUNER		0.83				in state	72	
7182	Dysstroma citrata							Ś	364	10.00	RAIN		582049	UWA:I		25.0				35010	92	
7187	Dysstroma truncata traversata							10163													10	ļ
7188 7189	Dysstroma walkerata Dysstroma hersiliata							, naci													7	
7194	Dysstroma brunneata								3.HL			R									6	
7206	Eulithis explanata							,													61	
7208	Eulithis serrataria					1.00000.00	red s a statio					# PK. X23%		el 696643935		anatrovi					3	
7213	Ecliptopera silaceata albolineata															nation					15 2	
7229	Hydriomena perfracta						l Lungth		ESSE	(2154.72)	č										43	
7235	Hydriomena divisaria							Asie Do-	Tata (d)			ži									122	
7236	Hydriomena renunciata							299992 :			100	Ű									1	
7293	Rheumaptera hastata Mesoleuca ruficilliata					199794 1997-19															5	j
7307 7312	Spargania magnoliata					387	90.919		USP 1		10.00										8	;
7312	Perizoma basaliata								TRUSSEE	2630214994	hada		NP44		12111100-11	ALVERT CO.					62	!
7320	Perizoma alchemillata																				41	
7329	Anticlea vasiliata																				28	
7330	Anticlea multiferata										575829	17									3	
7368	Xanthorhoe labradorensis							a v 1.64	185,993	THE SEC											4	
7370	Xanthorhoe abrasaria congregata										á Henera	H									4	•
7371	Xanthorhoe iduata										GIGT										2	
7388 7390	Xanthorhoe ferrugata Xanthorhoe lacustrata			ļ			1	438.8	:												6	\$
7390	Epirrhoe alternata			į	666863					os Refe		27.57.2.2.5 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.945 56.9455 56.9455 56.9455 56.9455 56.94555 56.94555555555555555555555									1	
7414	Orthonama obstipata																				2	2
	·																					

PART III

CAT#	SPECIES NAME	WEEK 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37	S 38 39
7416	Orthonama centrostrigaria		
7419	Hydrelia lucata		
7420	Hydrelia condensata		
7423	Hydrelia albifera		
7425	Venusia cambrica		
7428	Venusia comptaria		
7430	Trichodezia albovittata		
7433	Epirrita autumnata		
7449	Eupithecia palpata		
7459	Eupithecia columbiata		
7474	Eupithecia miserulata		
7487	Eupithecia subfuscata		
7489	Eupithecia lariciata		
7492	Eupithecia casloata		
7494	Eupithecia sheppardata		
7520	Eupithecia satyrata dodata		
7526	Eupithecia russeliata		
7528	Eupithecia assimilata		
7529	Eupithecia absinthiata		
7540	Eupithecia perfusca		
7543	Eupithecia annulata		
7574	Eupithecia albicapitata	20174.2.11.01.21.11.11.11.11.11.11.11.11.11.11.11.11	
7575	Eupithecia mutata		
7594	Eupithecia anticaria		
7605	Eupithecia ravocostaliata		
7625	Chloroclystis rectangulata		
7635	Acasis viridata		
7637	Cladara limitaria		
7639	Cladara atroliturata		
7640	Lobophora nivigerata		
EPIPLEMIDA	AE		
7650	Callizzia amorata		
LASIOCAME	NDAE		
7673	Tolype laricis	4.331月17日 時間は10月1日 時間は10月1日 時間は10月1日 時間は10月1日 日本日本日本日本日本日本日本日本日本日本日本日本日本日本日本日本日本日本日	85857 85857
7687	Phyllodesma americana		
7698	Malacosoma disstria		
7701	Malacosoma americanum		
SATURNIID			
7715	Dryocampa rubicunda	111111202011 111111202011 111111202011 111111202011 111111202011	
7757	Antheraea polyphemus	S - Vare (star Ar var bert ber Die Verste Arbeiter van Taal S - Vare Star van die V Taa van die Vare Star va Star van die Vare Star van die Va Star van die Vare Star van die	
SPHINGIDA		6.00 M/STON	
7787	Ceratomia undulosa		
7810	Sphinx gordius		
7812	Sphinx drupiferarum		
7821	Smerinthus jamaicensis		
7822	Smerinthus cerisyl		
7824	Paonias excaecatus		
7825	Paonias myops		
7828	Pachysphinx modesta	#4月4年15日 	
7886	Darapsa pholus		
NOTODONT	IDAE		
7895	Clostera albosigma		
	Clostera apicalis		
7901	Nadata gibbosa		
7901 7915			
	Peridea basitriens		
7915	-		

PART III

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SPECIES FLIGHT PERIODS, ARRANGED PHYLOGENETICALLY

												.,	VE													SUN	4
- .	SPECIES NAME	10	20	21	22	2	3 2	24 2	25	26	27	28			0	31	32	2 3	3	34	35	36	37	3	18 3		
CAT#	NAME	10	20	-		_																					
7926	Notodonta scitipennis						10000									in str	3										2 1
7928	Notodonta simplaria									N CONTRACT		1912-1023	8		10 Merily	У. ,	8										10
7931	Gluphisia septentrionis						WH WE	en creat della			398	22.29	ñ														5
7933	Gluphisia avimacula					27							- M														2
7939	Furcula occidentalis												g N	-075	terat												1
7941	Furcula modesta									riteri (423				100													1
7953	Symmerista leucitys								- 6 7666		1407223	3															6
7958	Dasylophia thyatiroides							ľ.				i,															2
7990	Heterocampa umbrata				Pioren IX	nicia	();???Mi	NULL CONT		10000000		3															19
7994	Heterocampa guttivitta											9 9 720700	34 8	2175	(cib)	:											19
7995	Heterocampa biundata												ii Cara	jų Nasili													4
7998	Heterocampa manteo									A87-51203			j.	3			ME9	80.99									116
8005	Schizura ipomoeae													9269	900		1										1
8006	Schizura badia								1.126.07			erestet 115	1375			14526	3										58
8007	Schizura unicornis														10-01	ř.	ĩl										29
8011	Schizura leptinoides																										9
8012	Oligocentria semirufescens										120/22	額															5
8012	Oligocentria lignicolor															1 C 100											5
ARCTIIDAE											1997424			8:29													6
8098	Clemensia albata										1913 1958																5
8111	Haploa lecontei														J688855	ы											8
8114	Holomelina laeta treatii																										2
8123	Holomelina ferruginosa										(a		9														4
8129	Pyrrharctia isabella											257															9
8134	Spilosoma congrua												ved														17
8137	Spilosoma virginica												12.														3
8140	Hyphantria cunea																										4
8140 8156 F	Phragmatobia fuliginosa rubricosa	3																									12
8158	Phragmatobia assimilans												a teac	-Seft(Poz)	(155364)												145
8162	Platarctia parthenos													5													3
8186	Apantesis williamsii															iii a											2
8197	Apantesis virgo																										1
	Halysidota tessellaris															-42.00											41
8203	Lophocampa maculata								-96																		1
8214	Cisseps fulvicollis							74.67.14.1			1																
8267										,,,							arose .										11
LYMANTRI	Dasychira plagiata										- 32	1328 14-32	11.0-0-0-0	ND651 321232							actorett	F463888				unnant	7
8304	Orgyła leucostigma plagiata																			200	1023) U 276						2
8316	Leucoma salicis																										4
8319 NOCTUDA														and and a second	(22.nm,	AN 525	3 99%4.1	aren er	nya#	73122							49
NOCTUIDA	Idia americalis												2	Egg						ij.	9673W						49
8322	Idia n.sp.nr. aemula																		μÜ								130
8323.1	Idia rotundalis												10			where of											f
8326	Phalaenophana pyramusalis																										30
8338	Zanclognatha theralis										,	100		e e la c		18) 32	، ، دونونو	103min	ng.								
8341	Zanclognatha protumnusalis												ų,						191.02								1
8349	Zanciognatha protomitusano Zanciognatha cruralis									839) 543					1.11		191300 Jan										14
8351	Zanclognatha jacchasalis									54																	
8352	Zanciografia jacchasaiis Chytolita petrealis																										1:
8356	Phalaenostola metonalis										11	60			and and												1
8362	Bleptina caradrinalis										72				144												I
8370									2																		
8397	Palthis angulalis									. 1948)	£7.	20 - 1949 - 193	.s.:191														
8404	Rivula propinqualis Bomolocha baltimoralis												194														
8442																											
8443	Bomolocha bijugalis																						4				1
8444	Bomolocha palparia									1.1			1		90				18								1
8455	Lomanaltes eductalis											Design (* 1		1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.		12.225											

PART III

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CAT#	SPECIES NAME	WEEK 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37	SUM 38-39
8536	Calustra appadancia	小教 1 4代	
8694	Calyptra canadensis Zale aeruginosa		1
8697	Zale minerea		3
8713	Zale lunifera		125
8717	Zale horrida		1 9
8727	Parallelia bistriaris		9 1
8738	Caenurgia crassiuscula	12月1日日 12月1日日日 12月1日日日	1
8776	Catocala coelebs	in a strain	2
8833	Catocala concumbens	ter alter and the second s	4
8846	Catocala sordida		3
8857	Catocala ultronia		5
8867	Catocala blandula		1
8896	Diachrysia aereoides		3
8897	Diachrysia balluca	이것 이렇고 있다. 이가 50년 전 2015 2017년 2017년 11	- 1
8909	Autographa rubida		1
8912	Autographa mappa		3
8923	Autographa ampla		3
8925	Syngrapha altera	72.62.27.47.97 X4519766598 2.2.40084593 1997 2.2.12.1 1997 2.2.12.1	1
8926	Syngrapha octoscripta		1
8929	Syngrapha viridisigma		13
8939	Syngrapha alias		16
8940	Syngrapha abstrusa		20
8941	Syngrapha cryptica		1
8942	Syngrapha rectangula		12
8950	Plusia putnami		1
8953	Plusia venusta	·····································	1
8969	Baileya doubledayi		16
8970	Baileya ophthalmica		43
9046	Lithacodia bellicula		1 11
9047	Lithacodia muscosula Lithacodia albidula		38
9048 9050	Lithacodia concinnimacula		5
9050	Lithacodia cameola		2
9059	Capis curvata	eferinging eferingingi esternik	- 1
9065	Leuconycta diphteroides		7
9066	Leuconycta lepidula		1
9177	Panthea acronyctoides		63
9184	Colocasia flavicornis		30
9189	Charadra deridens	- (formation)	3
9193	Raphia frater		4
9200	Acronicta americana		71
9203	Acronicta dactylina		74
9206	Acronicta leporina vulpina		15
9207	Acronicta innotata		254
9211	Acronicta tritona		3 463
9212	Acronicta grisea		403
9221	Acronicta funeralis		22
9226	Acronicta superans		37
9229	Acronicta hasta		523
9241	Acronicta fragilis Acronicta increta		228
9249 9251	Acronicta increta Acronicta retardata		26
9251 9257	Acronicta impleta		13
9257	Acronicta noctivaga		15
9261	Acronicta impressa		16
9272	Acronicta oblinita	1. V DEDEL Z ANDREAM PROVINCE AND A DEDEL AND A DEDEL A DEDEL AND A DEDEL A DEDEL AND A DEDE A DEDEL AND A DEDE	15
9281	Agriopodes fallax		3

PART III



AT#	SPECIES NAME	19 20 21 22 23	24	25 2	VA 26 27 28	/EEK 29 30	31 32 33	3 34 35	36 3		UM
				THREE ST							
9286	Harrisimemna trisignata										
9326	Apamea verbascoides					DARKA KONG SOLO					
9333 9341	Apamea lignicolora Apamea vultuosa					Mir.id	143				
	Apamea amputatrix				SUME MARK	本の37 製造いた 開始の行	9				
9348 9359	Apamea commoda					2364	-//d Seco				
9364	Apamea finitima			Ě							
9367	Agroperina dubitans		anana:	e- e-	671-24488						
9367.1	Agroperina cogitata						1, 1891p.45				
9396	Eremobina claudens				19807/*45 ¹			Trisland di Trisland Trisland			
9420	Oligia illocata										
9427	Meropleon diversicolor										
9437	Chortodes inquinata										
9454	Amphipoea velata										
9480	Papaipema pterisii										
9490	Papaipema nepheleptena										
9509	Papaipema unimoda										
9545	Euplexia benesimilis										
9546	Phlogophora iris									77.7	2
9547	Phlogophora periculosa			9 4 4 6 6 6 7 6 7 9 1 1	· · · · · · · · · · · · · · · · · · ·						
9556	Chytonix palliatricula				na Gaptie Geografia						
9564	Andropolia contacta				TALL LINE OF AL MERINAL STOCKS						
9578.1	Hyppa "xylinoides"										
9578.2	Hyppa "ancocisconensis"			17				-			
9582	Nedra ramosula		CELEPT CELEPT	,			100				
9633	Callopistria cordata		.523***748			na diata Ny Gal				******	
9638	Amphipyra pyramidoides								662 6628		
9639	Amphipyra tragopogonis										
9647	Proxenus miranda						1931				
9653	Caradrina morpheus										
9678	Elaphria versicolor				in provinsi (1995) National States						3
9681	Elaphria festivoides		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0.000						**************	1
9874	Xylena curvimacula										
9875	Xylena thoracica										
9876	Xylena cineritia						or 194	MMM	orial		
9878	Lithomoia germana									11 11	
9888	Lithophane innominata										
9889	Lithophane petulca										
9893	Lithophane hemina										
9902	Lithophane baileyi										
9909	Lithophane tepida										
9916	Lithophane unimoda									HERSY	
9917	Lithophane fagina		(****)								
9922	Lithophane pexata									(thinks	
9928	Lithophane thaxteri										
9933	Eupsilia vinulenta										
9935	Eupsilia tristigmata	03285844								20.041	
9936	Eupsilia morrisoni							12		9859 1	
9952	Eucirroedia pampina							100	238		
9957	Sunira bicolorago							1997 - 22		siarans (
9961	Anathix ralla							â	2194		
9965	Xanthia togata										
9967	Hillia iris										
9976	Platypolia anceps										
9989	Sutyna privata	perpetato de provincio a								1948946	
10005	Feralia jocosa		11216777	10.20P3	:						
10008	Feralia comstocki			972 B.	2 						

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CAT#	SPECIES NAME	WEEK 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39	SUM
10011	Brachionycta borealis		2
10055	Apharetra dentata		4
10065	Homohadena infixa		3
10123	Oncocnemis piffardi		1
10197	Cucullia florea	en reconstruit 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 :	2
10199	Cucullia omissa		1
10275	Polia nimbosa	- 1919 - 2016. - 一般的なない。 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995	39
10276	Polia imbrifera		84
10280	Polia purpurissata		3
10288	Polia detracta		34
10292	Melanchra adjuncta		55
10293	Melanchra picta		1
10294	Melanchra pulverulenta		12
10295	Melanchra assimilis	ELEVAN UNDER DE LE CONTRACTOR DE LE CONT	9
10298	Lacanobia radix		5
10300	Spiramater grandis		62
10301	Spiramater lutra		193
10303	Lacanobia tacoma	이 있는 것이 있 이 있는 것이 있 는 것이 있는 것이 는 것이 있는 것이 있다. 것이 있는 것이 있 것이 있는 것이 있 것이 있는 것이 있다. 것이 있는 것이 있다. 것이 있는 것이 있는 것이 있는 것이 있는 것이 있는 것이 있 같이 있다. 것이 있 것이 있는 것이 있는 것이 있는 것이 있는 것이 있 같이 있다. 것이 있 것이 있는 것이 있는 것이 있는 것이 있는 것이 있다. 것이 같이 않은 것이 있 것이 있는 것이 없 것이 있다. 것이 것이 있 것이 있 같이 않이	1
10304	Trichordestra legitima		1
10370	Lacinipolia lustralis	4.1.1.1000 (24.1.4.4.0) (2.1.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2	3 3
10372	Lacinipolia anguina		3 1
10397 10405	Lacinipolia renigera Lacinipolia lorea		13
10405	Lacinipolia olivacea		15
10408	Faronta diffusa		1
10436	Aletia oxygala		1
10438	Pseudaletia unipuncta		35
10446	Leucania multilinea		13
10449	Leucania insueta		4
10487	Orthosia rubescens		39
10490	Orthosia revicta	2018 04	153
10495	Orthosia hibisci		2
10501	Crocigrapha normani		391
10520	Morrisonia evicta	A Set of Set of Set and Set of Set	12
10521.1	Morrisonia latex		44
10524	Nephelodes minians	192 (SYLER) from a few of a second seco	1
10563	Protorthodes oviduca		13
10587	Orthodes cynica		329
10589.1	Orthodes goodelli	代4月1日) 1月24日日 1月24日日	2
10627	Tricholita signata	interaction intera	4 9
10663	Agrotis ipsilon		1
10756	Euxoa campestris		39
10891	Ochropleura plecta		1
10915	Peridroma saucia	· 전문(1-1) · 전문(1-1) · 전문(1-1) · 전문(1-1) · 전문(1-1) · 전문(1-1) · (1-1) · (1-1)	23
10917	Diarsia rubifera		89
10919	Diarsia jucunda Diarsia freemani		6
10922 10926	Spaelotis clandestina		5
10928	Graphiphora augur haruspica		3
10929	Eurois occulta		14
10930	Eurois astricta		87
10942	Xestia c-nigrum adela		15
10942.1	Xestia dolosa		1
10943	Xestla normaniana		73
10944	Xestia smithii		56
10947	Xestia oblata		9
10962	Xestia perquiritata	a star singer a strange and	78

PART III

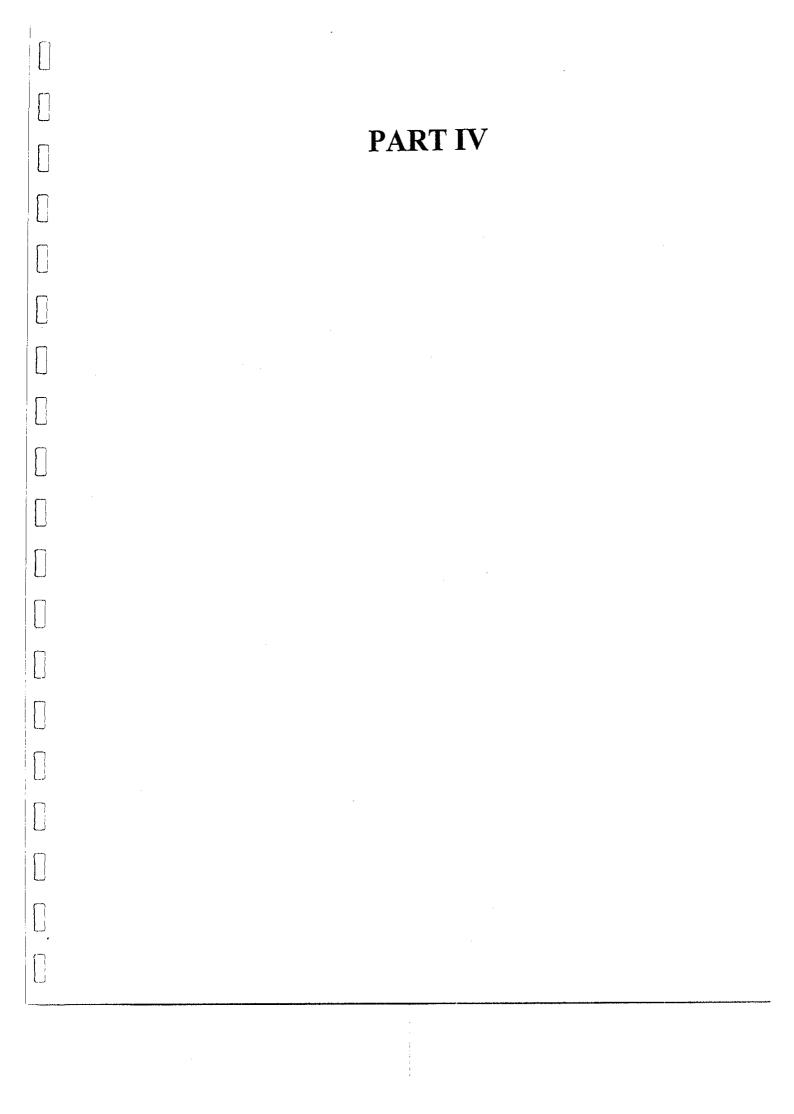
E - 1994 SPECIES FLIGHT PERIODS , ARRANGED PHYLOGENETICALLY

WOLFE	LAKE -	1994
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	SPECIES										v	VE	ΕK										SUM	
CAT#	NAME	19	20	21	22	23	24	25	26	27	28	29	9 30	31	32	33	34	35	36	37	38	39		
10968	Anomogyna badicollis															enn			5					
10970	Anomogyna youngii															8 A.	3 3 3 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2							15
10993	Hemipachnobia subporphyrea								10000															1
10994	Cerastis tenebrifera					BIRCH	1																	1
10996	Metalepsis salicarum	সম	S.1157	borki.	1.1011		1000																	1
10999	Aplectoides condita	2834						haug	ŝ	ngir														23
11000	Anaplectoides prasina						NA SE					ana				54							2	292
11001	Anaplectoides pressus								1000	1.1			i ji ti		0025	20 20 20								62
11004	Protolampra rufipectus											en p a session	(Alternation)		nanı:	enon::	ų	HERRY	2					75
11004	Eueretagrotis perattenta								-1013 IS	01016		082	29			(ber			l					5
11000	Eueretogrotis attenta													ALINSK	e e e e e e e e e e e e e e e e e e e									44
11003	Heptagrotis phyllophora								STORY S		110	2.5												48
11010	Cryptocala acadiensis								91200			n j	e.			(MCC)	*							53
11029	Abagrotis alternata										Cânalite	ЗИ (1	29101010										20
11164	Schinia florida										ž	(t)g)/s	a Milii											3
11104	Somma honda										- Above	Ú.	Ð											1
																		Gra	and	Tot	al =	2	158	51

PART III

Page 8



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FLIGHT PERIODS, SPECIES ABUNDANCE FREQUENCY DISTRIBUTION

	SPECIES								- 4		WEE		04	20	22			16 2	7 38	30	SU	И
CAT#	NAME	19	20	21	22	23	24	25 2	26	27 2	6 29	30	31	32	33 .	34	30 3	10 J	1 30	1 33		
7824	Paonias excaecatus									60.7 655				Į							1	253
9241	Acronicta fragilis												N hododosing	0								523
9212	Acronicta grisea									1169.52	1. 											463
7915	Nadata gibbosa																					394
10501	Crocigrapha normani								U.S.D													391
7487	Eupithecia subfuscata	Science on a	69. Mercent	-91:1-c 304:14	A.S							Baars	11111	ě.								362
7921	Peridea ferruginea													È.								337 329
10587	Orthodes cynica											antos:	NYB GO		NNE DI							328
7698	Malacosoma disstria								Quiter of		oley Og. Gr. harris	N.	- AN	. <u>1</u> . 1	÷.,	85103	19672					301
6888	Lambdina fiscellaria						1 1/2 10	worniels	912155		2013225	×			0.00536	P080	6991					301
9678	Elaphria versicolor												38 8	ng me		100						298
7139	Cyclophora pendulinaria								1.12 JA				(SEA	KORIN	1992	î	all with the					292
10999	Aplectoides condita								(). 		92 675		5.0E9	20								290
6863	Caripeta divisata										141.0	a di si konshi		į.								28 9
6235	Habrosyne scripta							2.21					.3960	識								261
9546	Phiogophora iris											d Arathi Arayya										254
9207	Acronicta innotata Peridea basitriens																					233
7919	Acronicta increta							an thài thao 1														228
9249	Plagodis phlogosaria			989 981	1937 1937						1978 A 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	M253052-6										219
6842 6344	Semiothisa signaria dispuncta		4[13]¥	245			thi Thil Giro															217
10301	Spiramater lutra				23752	z:M-						2012										193
6755	Pero morrisonaria																					175
6621	Melanolophia signataria							65.			2004-00400.2	NAME 1.1777		ana serie da prè si	N H GIGIETTE		,			3843	221	169 161
6273	Itame pustularia		16xoofice	4000.575¢	\$ 7*08-0003*								8 L			() ar						160
10008	Feralia comstocki										22464444483	85 N										156
7419	Hydrelia lucata									N.2.		653										153
10490	Orthosia revicta	NU.																				148
7637	Cladara limitaria		li ji ji ji			Кă.			uner		uHRICH	1.75 X2.7	19									145
8162	Platarctia parthenos			2828	11213/147		92224	un and the					23 26		UTPAC	san)	9662					136
6252	Drepana bilineata					145616		9,67,823	6000				a.://ji				(ener L					130
8323.1	ldia n.sp.nr. aemula						genein			SAN S	38 .	33H		24391			ŝ					128
6838	Probole amicaria			14	UNINE.			潮 動語														125
8697	Zale minerea			22				nt i i														122
7236	Hydriomena renunciata										(1999) (1999) (1999)	2128										117
7449	Eupithecia palpata Schizura ipomoeae						분덕	9997111709	17.55(4) 19944													116
8005	Hypagyrtis piniata								1,1145	NUMPER	с. Ч											115
6656 7650	Callizzia amorata							100														105
7639	Cladara atroliturata	681 780									ra heren											103 101
9681	Elaphria festivoides	.77.44		,								rtsa ci	\$470 - 1	873	10-MIN	5						92
7009	Nematocampa resistaria									100000000	1981					0 13						92
7187	Dysstroma truncata traversata														M 1							89
10919	Diarsia jucunda										100 M2											87
10930	Eurois astricta										92 4 5			200	(PAIRU)	H						84
10276	Polia imbrifera								u.u.s.r													82
6330	Semiothisa ulsterata				22.		.27					i azbio										81
6251	Drepana arcuata				2243					ia. Niji	1911112	1999,002.	1410,989	uleesa)	36,620 de 20 f. 1 f.	3204078.001	29.3					81
6840	Plagodis serinaria					13																78
6844	Plagodis alcoolaria						A			47-2												78
10962	Xestia perquiritata Pseudothyatira cymatophoroide:	3												51								76
6237	Anaplectoides pressus	-																				75 74
11001 6964	Tetracis cachexiata							*** 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 -				12244711	 1979-1-127									74 74
6964 9203	Acronicta dactylina									gart.					Satis		×321					74
10943	Xestia normaniana											N. C. S.	n d	di li setti						19		72
7182	Dysstroma citrata											ŝ	694		N SEA	5809 1				33	89,93	•
,.52	<i>,</i>																					

PART IV

CAT#	SPECIES NAME	WEEK 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38	SUM 39
9200	Acronicta americana		71
6570	Aethalura intertexta		68
8349	Zanclognatha protumnusalis		66
31	Korscheltellus gracilis		63
9177	Panthea acronyctoides		63 62
7316	Perizoma basaliata		62
10300	Spiramater grandis		62
11000	Anaplectoides prasina Hypagyrtis unipunctata		61
6654 7206	Eulithis explanata		61
6668	Lomographa glomeraria		59
8007	Schizura unicornis		58
6797	Ennomos magnaria		56
10944	Xestia smithii		56
10292	Melanchra adjuncta		55
11010	Heptagrotis phyllophora		53
9578.2	Hyppa "ancocisconensis"		51 50
7810	Sphinx gordius	en e	49
6620	Melanolophia canadaria		49
7821 8322	Smerinthus jamaicensis Idia americalis		49
8322 11009	Eueretogrotis attenta		48
6885	Besma quercivoria		47
9547	Phiogophora periculosa		46
10521.1	Morrisonia latex		44 44
11008	Eueretagrotis perattenta		44
6597	Ectropis crepuscularia		43
6725	Euchlaena muzaria		43
7235	Hydriomena divisaria		43
8970 6796	Baileya ophthalmica Campaea perlata		41
6963	Tetracis crocallata	in the second	41
7320	Perizoma atchemillata		41
8214	Lophocampa maculata		41 39
10275	Polia nimbosa		39
10487	Orthosia rubescens		39
10891	Ochropieura plecta		38
7540	Eupithecia perfusca Lithacodia albidula		38
9048 9229	Acronicta hasta	Litzerzetei	37
10438	Pseudaletia unipuncta		35
6598	Protoboarmia porcelaria		34
7159	Scopula limboundata		34 34
7433	Epirrita autumnata	2010-0251-027-00-05-05-0202-0251-0251-0251-0251-0251-	34
7459	Eupithecia columbiata		34
10288	Polia detracta		33
6588	tridopsis larvaria Tortricidia testacea		31
4652 8341	Zanclognatha theralis		30
9184	Colocasia flavicornis		30
8011	Schizura leptinoides		29 28
7329	Anticlea vasiliata		28
9545	Euplexia benesimilis		26
7526	Eupithecia russeliata		26
9251	Acronicta retardata		25
7687	Phyłlodesma americana Oligia illocata	<pre>discription of the second se Second second secon second second sec</pre>	24
9420	Ungra mocata		

PART IV



CAT#	SPECIES NAME	19 20	21	22	23 24	1 2	5 2	627		/EEK 29 30	31	32 33	34 35	36	37	29 20	SUM
		10 20			20 2.			- LI	20	UU U2	U .		UM 00	30	57	38 39	
6912 7520	Sicya macularia				.474a	i.e., sierette e	eed 💼	128° 75° 12	skatekt								23
7520 10917	Eupithecia satyrata dodata Diarsia rubifera				1.54						Hericisian	202201201					23
10996	Metalepsis salicarum	1000000	loite(1943							23 23
9226	Acronicta superans	101102063			encend Gereerd Jacob	10718	KS.	510M									23 22
7420	Hydrelia condensata				3-41 s				Nan H	00000							21
6820	Metanema determinata					itztą.	NOTO PALA										20
8940	Syngrapha abstrusa																20
11012	Cryptocata acadiensis							. holan .									20
7994	Heterocampa guttivitta			pixie						110/1100							19
7995	Heterocampa biundata						0.81109.25		(1957) (1957) (1957)			2010/00/02	ar fai ha	a			19
9878	Lithomoia germana	enormater	htestu	cacaer (acc	111111111									1200			19
9922	Lithophane pexata				Caratan Caratan Caratan	42,935	ere orte										19
6812 6822	Homochlodes fritillaria Metarranthis duaria							9999-0-9 <u>9</u>									18 18
6982	Prochoerodes transversata				S OF LEVEL		MU MU				400 A			1			18
8351	Zanclognatha cruralis						25		i chiq	CON	8					REFER	18
6640	Biston betularia cognataria								1. 1. x. [].								17
6807	Tacparia detersata						Mariana.	SELECT RESERVE	(MUNKI)	13945264	ALMINELS						17
6817	Selenia alciphearia																17
8137	Spilosoma virginica																17
8455	Lomanaltes eductalis								ŝ, ĉ,		1074 25.1 24.1			n 63m2s.			17
9633	Callopistria cordata				121 112	A	in Administration										17
7825	Paonias myops										STREET,						16 16
7922	Pheosia rimosa				20		energe nan da	Carlos - 15 Casi Di Pilip Si Graziti									16
8939 8969	Syngrapha alias Baileya doubledayi				302				S. 51 16.	01003405							16
9261	Acronicta impressa							উৎিক্রান্টা		(5)清平(1) (清)(1)	80.5133						16
9556	Chytonix palliatricula				3994399C2	908 979 Y	uu M			1945199	COCKERS:	sipiliti (1997)					16
9874	Xylena curvimacula		1999 - C. 19				(141)										16
6740	Xanthotype urticaria						997 1997		140		SE E E E E E E E E E E E E E E E E E E	1+0+0+0.5%	P06590355				15
7213	Ecliptopera silaceata albolineata							9989993977728	2022302.003		viste reni Office i Se	andri sarbi Mari sarbi					15
7901	Clostera apicalis				elli:												15 15
9206	Acronicta leporina vulpina				194												15
9259 9272	Acronicta noctivaga Acronicta oblinita				198	12139713		20001) (81)-61 23232 (2000) 23232 (2000)									15
10406	Lacinipolia olivacea						141	ومشارك وتعاولهم المرا	19962019								15
10942	Xestia c-nigrum adela							-					43137571				15
10968	Anomogyna badicollis																15
7048	Nemoria mimosaria						Yuu										14
7489	Eupithecia lariciata																14 14
7715	Dryocampa rubicunda						÷ .	PALS NO.	88.9		Ũ	name d'ir h		¥.			14
10929	Eurois occulta Anagoga occiduaria				385	han	atan.				8		ensimmerik				13
6836	Eutrapela clemataria																13
6966 74 7 4	Eupithecia miserulata						8)))		C and 2								13
8929	Syngrapha viridisigma				11.) i verser og	3							Ace-4-rom:	13
9257	Acronicta impleta																13
10405	Lacinipolia lorea									·*************************************	117						13
10446	Leucania multilinea					nn	- Setat	(Mariah M	i na cinada i na cina i pipina								13 13
10563	Protorthodes oviduca				14				i QQQC32								12
7425	Venusia cambrica										16 AUR						12
7492	Eupithecia casloata							64 <u>5</u>									12
8158 8356	Phragmatobia assimilans Chytolita petrealis					n Bel	1694 1										12
8942	Syngrapha rectangula							97268									12
10294	Melanchra pulverulenta				24- .52	e este Sector											12
	,																

PART IV

FLIGHT PERIODS, SPECIES ABUNDANCE FREQUENCY DISTRIBUTION

CAT#	SPECIES NAME	WEEK 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 3	SI 7 38 39
10500		10007184550150194500223882849944013	
10520 6304	Morrisonia evicta		
6304 6815	Itame bitactata		
	Gueneria similaria		
7428	Venusia comptaria	La Balancia de Calencia de Cal	
8304	Dasychira plagiata		
9047	Lithacodia muscosula		
9638	Amphipyra pyramidoides		t billion and an and a state of the state of
6677	Cabera erythemaria		101200028
6743	Xanthotype sospeta	5	
6965	Eugonobapta nivosaria		
7188	Dysstroma walkerata		
7931	Gluphisia septentrionis		
7822	Smerinthus cerisyi	Lind Begin and State Sta	
8012	Oligocentria semirufescens		
8134	Spilosoma congrua		
8717	Zale horrida		
9888			111118/844
	Lithophane innominata		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
10295	Melanchra assimilis		
10663	Agrotis ipsilon		
10947	Xestia oblata	- 19 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
7312	Spargania magnoliata		
7594	Eupithecia anticaria	S & Arright - 1 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 /	
8114	Holomelina laeta treatii		
9976	Platypolia anceps		HERE AND A CONTRACT OF A CONTR
6287	Itame anataria		ser tur brent
6798	Ennomos subsignaria		
6819	Metanema inatomaria		
7189	Dysstroma hersiliata		
7430	Trichodezia albovittata		
			913848T
8316	Orgyia leucostigma plagiata		ang an Ange Alexan The Ange Alexan The Ange Alexan The Ange Alexan State Alexan S
8444	Bomolocha palparia	- 24 - 14 - 14 - 14 - 14 - 14 - 14 - 14	
9065	Leuconycta diphteroides		
9286	Harrisimemna trisignata	The second secon	
6429	Orthofidonia exornata		
7194	Dysstroma brunneata	42 (2012) (2012) (2012) (2014) 12 (2014) (2014) (2014) 13 (2014) (2014) (2014) 14 (2014) (2014) (2014) (2014) 14 (2014) (2014) (2014) (2014) 14 (2014) (2014) (2014) (2014) (2014) 14 (2014) (2014) (2014) (2014) (2014) (2014) 14 (2014) (2014) (2014) (2014) (2014) (2014) (2014) 14 (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (2014) (20	
7390	Xanthorhoe lacustrata		
7673	Tolype laricis	ж. шары дал тай коллондаг зэрээн хэрэг хэрэг бар хар хар хар хар хар хар хар хар хар х	
7701	Malacosoma americanum		11 Den 11 Abri
7958	Dasylophia thyatiroides	43.2012 (2) 2012 (2) 2012 (2) 21 21 21 21 21 21 21 21 21 21 21 21 21	
8098	Clemensia albata		
8338	Phalaenophana pyramusalis		
8370	Bieptina caradrinalis		
9902	Lithophane baileyi		10.000 (0.000) - 10.000 (0.000) - 10.000 (0.000) - 10.000 (0.000)
	Diarsia freemani	課題の認定にも認識状態 提問のないでもない	
10922			
6428	Orthofidonia tinctaria	n 1.2 m 2 m 2 m 2 m 2 m 2 m 2 m 2 m 2 m 2 m	
6818	Selenia kentaria		
7307	Mesoleuca ruficilliata		
7528	Eupithecia assimilata		
7933	Gluphisia avimacula		
8017	Oligocentria lignicolor	- 105 5527 - 553 5576 - 105 5527 - 553 557 - 105 5527 - 105 557 - 105 557 - 105 557	
8111	Haploa lecontei		
8362	Phalaenostola metonalis		
8857	Catocala ultronia	1: (7)4/34_70/49124 (8:19925) R12/31:55 R22/31:55 R22/31:57	
9050	Lithacodia concinnimacula		0131275
9396	Eremobina claudens		
9509 9509	Papaipema unimoda		
9509 9889	Lithophane petulca		(india)
		NAMES AND A CONTRACT	

PART IV

FLIGHT PERIODS, SPECIES ABUNDANCE FREQUENCY DISTRIBUTION

CAT#	SPECIES NAME	19	20	21	22	23	24	25	26	27		/EEł 29		31	32	33	34	35	36	37	38	39	SUM
9917	Lithophane fagina	A 446																				39531	
9957	Sunira bicolorago		41933	9																			
10298	Lacanobia radix								1052													10,000,015	
10926	Spaelotis clandestina					3374728	553	19665992	844922370														
11004	Protolampra rufipectus									100000000				STATES STATES									
6347	Semiothisa pinistrobata								9 9 1 1						24.24978349								
6667	Lomographa vestaliata																						
7370	Xanthorhoe abrasaria congregata											7 -2 -2											
7371	Xanthorhoe iduata								2*******														
7494	Eupithecia sheppardata																						
7575	Eupithecia mutata						0822	1.1.1.4.4/11-	a andara		18494												
7640	Lobophora nivigerata								20			19972		if.									
7998	Heterocampa manteo								Quille in C	2217885152			02123	8									
8129	Pyrrharctia isabella						06471	seputa			i Couch I picket												
8156	Phragmatobia fuliginosa rubricosa						7095 81112			ĝ ĉomenta	192034												
8397	Paithis angulalis									nintli Canon	140261 11055											awarang Managang	
8833	Catocala concumbens									30123	ower.	1200, N											
9193	Raphia frater									121121 121122 121122 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 121221 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121 1211 12121 12121 12121 12121 12121 12121 12121 12121 12121 12121													
9326	Apamea verbascoides									3030													
9427	Meropleon diversicolor																						
9935	Eupsilia tristigmata			aren	NN NO	12																MAN	
10005	Feralia jocosa			1221		8									g								
10055	Apharetra dentata									61,67			Hili.			HNAR	ŝ						
10449	Leucania insueta									HARA					ï		ě						
10627	Tricholita signata												t	K) (Sana	26	SHEE:	h						
4654	Tortricidia flexuosa Eudeilinia herminiata									3083		和熱熱	2										
6253								1914) 1914	8 1975		្មាល់ផ្												
6326	Semiothisa aemulataria Petrophora subaequaria					3 0			19255		۶.												
6804	Eulithis serrataria			an a	i kini		Alei	10							*								
7208	Anticlea multiferata							20552		2				1282.7	98								
7330 7625	Chloroclystis rectangulata						A12	ine name	i i i i i i i i i i i i i i i i i i i														
7825	Clostera albosigma								W.	38/989	4												
8140	Hyphantria cunea							((25)3)		1				1.1949.99	mara ya.	i și							
8186	Apantesis williamsli								2228 979	44)*X***												
8442	Bomolocha baltimoralis												7010592	**									
8443	Bomolocha bijugalis												5										
8694	Zale aeruginosa						N) Fil			21 21 21	22222223	1											
8846	Catocala sordida					.1279 231	2923		10 14 144														
8896	Diachrysia aereoides										we do a vere												
8912	Autographa mappa											l	*										
8923	Autographa ampla																						
9189	Charadra deridens						122				\$ J ROAD TO LO 2	14											
9211	Acronicta tritona																						
9221	Acronicta funeralis									17													
9281	Agriopodes fallax									38 19		1161210	1200	84 <u>4</u> 1									
9333	Apamea lignicolora											ñ											
9437	Chortodes inquinata												1422										ł
9480	Papaipema pterisii	yeenin		uruş																		68,69	ŝ
9893	Lithophane hemina			3															S II				r 9
9952													345					98 19 19				2010)	
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10370									(něl)														
10372										ŝ		8196	CUN	880. 1									
10928												103											
	Abagrotis alternata												- 192	1223	13								

PART IV

WOLFE LAKE - 1994 FLIGHT PERIODS, SPECIES ABUNDANCE FREQUENCY DISTRIBUTION

CAT#	SPECIES NAME	19 20	21	22 23	3 24	25	26 27		VEEł 29		1 32	33	34	35	36	37	38	SU 39
							1090	en F										
18	Sthenopis argenteomaculatus								Abarta									
22	Sthenopis auratus						anaa	3888589	<u>unai</u>									
6349	Semiothisa banksianae							G MARKEN	Hino Charles									
6678	Cabera variola				35925	5		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1										
6734	Euchlaena marginaria					E Zensee	111.000	1.										
6763	Nacophora quernaria			201010101	CANTER													
6811	Homochlodes lactispargaria					N N	2242222	*										
7164	Scopula junctaria				1011000	**	itso Sile											
7229	Hydriomena perfracta					ananana.			722/12/200									
7368	Xanthorhoe labradorensis					They Mart	0.022878											
7388	Xanthorhoe ferrugata					1			6/23./COM			BE SIZE TO	0					
7414	Orthonama obstipata																	
7423	Hydrelia albifera						A CONTRACTOR	1										
7529	Eupithecia absinthiata																	
7543	Eupithecia annulata		1			Hubbond Photo												
7574	Eupithecia albicapitata	aras pristikanakija	×÷															
7757	Antheraea polyphemus				7420275	adamagning" 		N										
7886	Darapsa pholus					ià	nen il il i Mina Mina		1									
7926	Notodonta scitipennis						10594359											
7939	Furcula occidentalis				1513611	ä.(
7990	Heterocampa umbrata							arran U	\$									
7990 8123	Holomelina ferruginosa						8232	í.	SSIA									
8123										HSKA								
	Apantesis virgo																	
8319	Leucoma salicis							-2892) -	ê									
8404	Rivula propinqualis									acaa Ar	-	36						
8776	Catocala coelebs							8		22 16532		18. 1						
9053	Lithacodia carneola									un si								
9341	Apamea vultuosa						指数3	Hining										
9348	Apamea amputatrix				1keet.g	ar.	1304	, Hais										
9364	Apamea finitima							ĝ anamo	5									
9367.1	Agroperina cogitata							SLIPCY WS 14	10	\$\$ 3 3	sana	men	9					
9454	Amphipoea velata										Niler Ben Loose							
9564	Andropolia contacta					~ 2)) id)	6					
9582	Nedra ramosula				(2013)22 2319/04 2319/04	27 25					020	istra and	and a second					
9639	Amphipyra tragopogonis																	
9876	Xylena cineritia												-44864.08				4	14.86.753.25Y
9989	Sutyna privata		. (<i>. 9 million</i>	19 ME 14. 7 V.									NAME OF					
10011	Brachionycta borealis		it II															
10197	Cucullia florea	C10072349466	+															
10495	Orthosia hibisci					AND THE SECOND												
10589.1	Orthodes goodelli	32223																
2554	Synanthedon acerni					ş			•									
4659	Packardia geminata					÷		1										
4659 6303	Itame subcessaria						₹7.55÷?1	94										
	Semiothisa sexmaculata									1+6/m118288								
6343							2191.9	191										
6430	Orthofidonia flavivenata																	
6582	Anacamptodes vellivolata				NU	90 90		Ú)										
6590	Anavitrinella pampinaria						HH SEO	N.										
6637	Eufidonia convergaria																	
6826	Metarranthis hypocharia						110125											
6864	Caripeta piniata							- Stati	N									
6867	Caripeta angustiorata							and Agus										
6898	Cingilia catenaria							to ente	.et									
7132	Pleuroprucha insularia					15 million												
7293	Rheumaptera hastata									NEEDA								
7394	Epirrhoe alternata						arroth.	121										
7416	Orthonama centrostrigaria						1111	1										

PART IV

FLIGHT PERIODS, SPECIES ABUNDANCE FREQUENCY DISTRIBUTION

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8867	-											Si t	15933	Ű						
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8897	Diachrysia balluca							un ta												
8909	Autographa rubida							13												
8925	Syngrapha altera												1442							
	Syngrapha octoscripta												28	RECERA						
8941	Syngrapha cryptica										and the second se			,	4670812					
8950	Plusia putnami									20199	3									
8953	Plusia venusta								ē,			0202100								
9046	Lithacodia bellicula																			
9059	Capis curvata								4											
9066	Leuconycta lepidula						1000	38			201100									
9359	Apamea commoda									54222	ă	1								
9367	Agroperina dubitans											2	204024							5
	Papaipema nepheleptena							57											0.000	1W.
9578.1	Hyppa "xylinoides"						533					1								
9647	Proxenus miranda										1	1	policiens							
9653	Caradrina morpheus	STARK.	123							nona	B									
9875	Xylena thoracica		34		181)															
9909	Lithophane tepida	12100	碱的	12121	(04).															
9916	Lithophane unimoda		Crail Crail	6	1071 111 J															
9928	Lithophane thaxteri		10	161) 1671	0117															
9933	Eupsilia vinulenta																			
9936	Eupsilia morrisoni		14																	
9961	Anathix ralla																			
9965	Xanthia togata																			11) 32
9967	Hillia iris																			
10123	Oncocnemis piffardi																			
10199	Cucullia omissa Molonobra nicta						ine y	6758												
10293	Melanchra picta						1999 (K 1997 (K 1997 (K) 1997 (K)				416323									
10303	Lacanobia tacoma					100	2259)													
10304	Trichordestra legitima											·/····	CONTRACTOR CONTRACTOR CONTRACTOR							
10397	Lacinipolia renigera																			
10431	Faronta diffusa											49554025					AND 117			
10436	Aletia oxgala												2.799740			1044				
10524	Nephelodes minians															構想				
10756	Euxoa campestris													atterni Prillin Prillin					****	2.444
10915	Peridroma saucia																			
10942.1	Xestia dolosa																			
10970 10993 H	Anomogyna youngii lemipachnobia subporphyrea							jan Te												

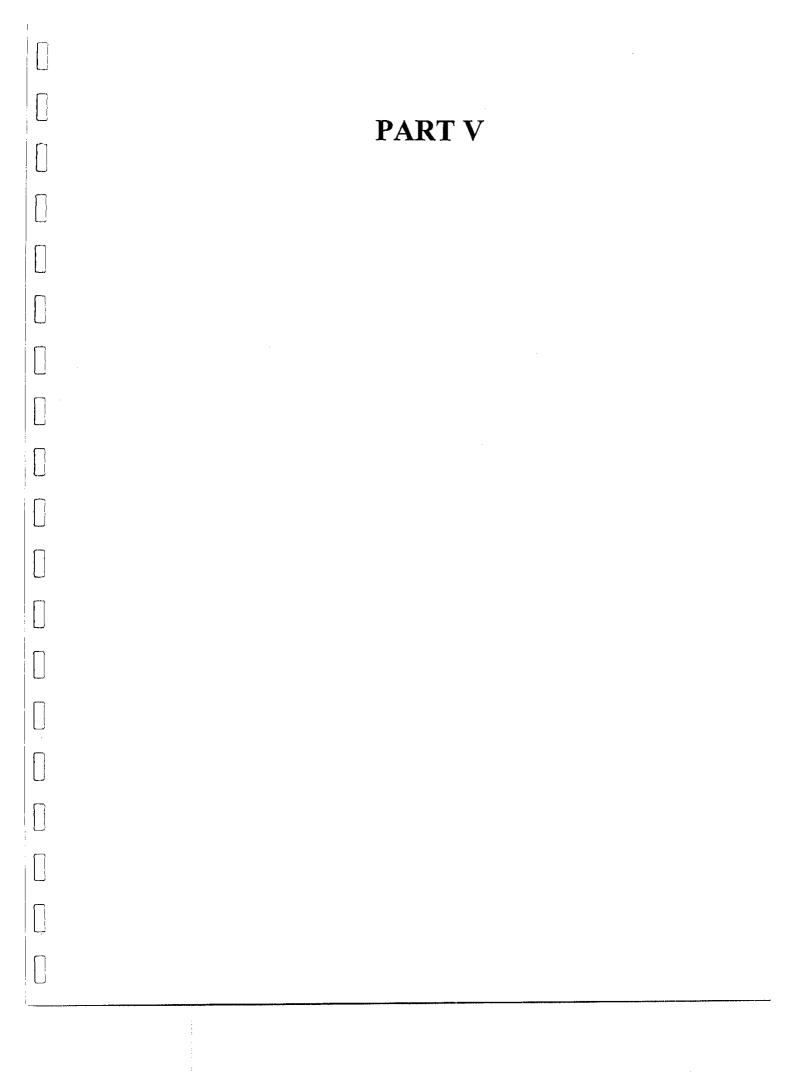
PART IV



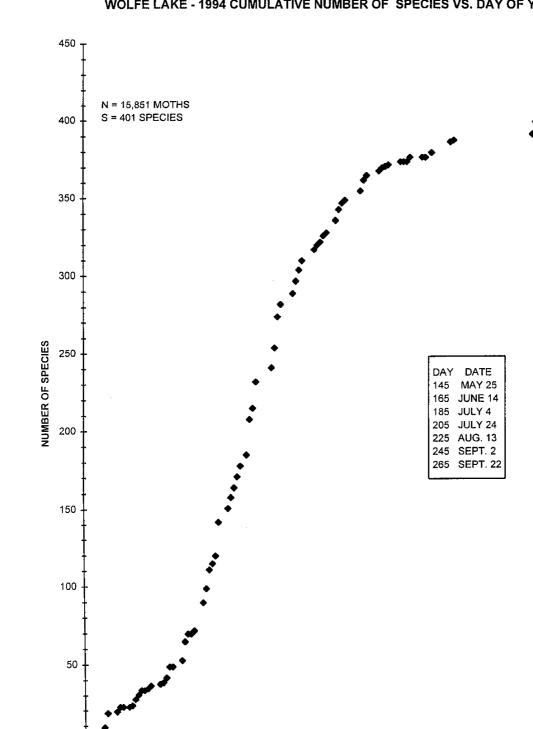
WOLFE LAKE - 1994 FLIGHT PERIODS, SPECIES ABUNDANCE FREQUENCY DISTRIBUTION

CAT#	SPECIES NAME	19 20	21	22	23	24	25	26	27	WEEK 8 29 3	30	31	32	33	34	35	36	37	38	39	SUM	
10994 11164	Cerastis tenebrifera Schinia florida				NOTES RELEASE RELEASE	1000																1 1
														Gr	and	l To	tal	=			158	51

PART IV







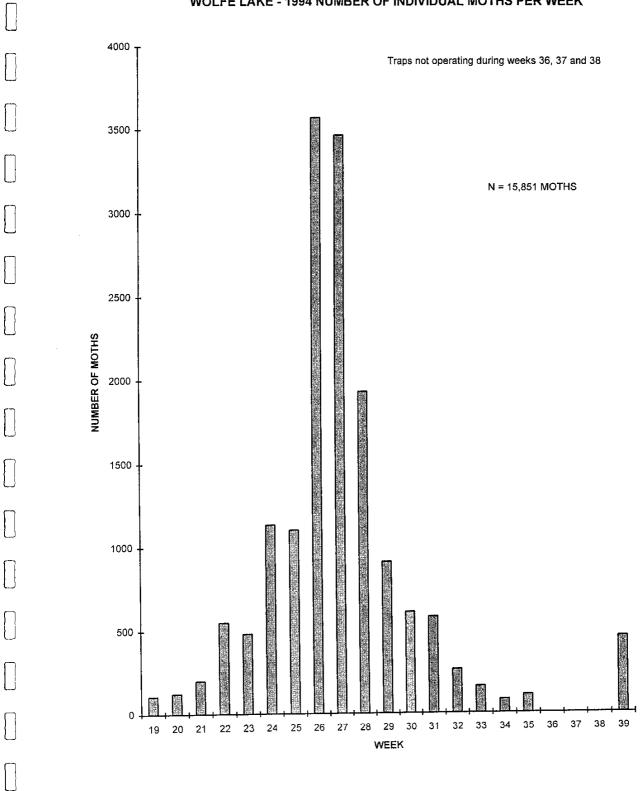
DAY OF YEAR

PART V

CHART 4

WOLFE LAKE - 1994 CUMULATIVE NUMBER OF SPECIES VS. DAY OF YEAR

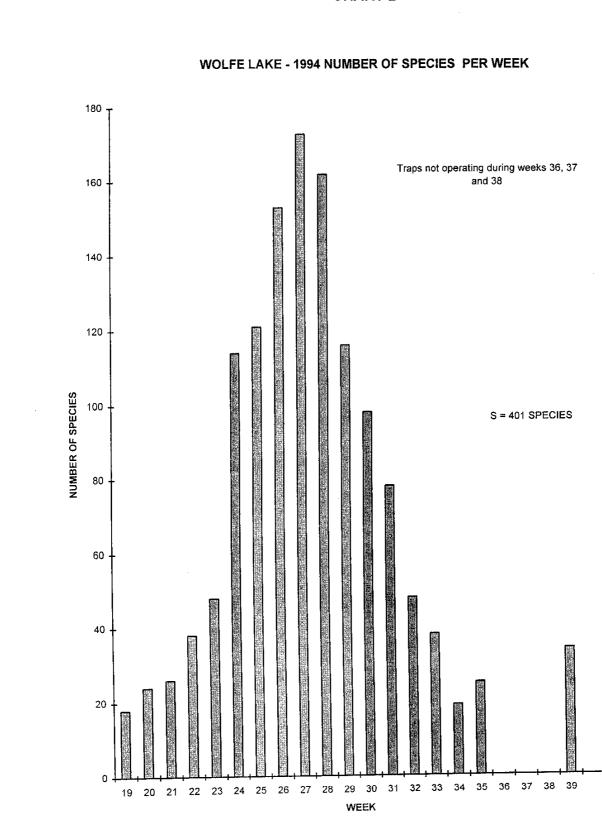




WOLFE LAKE - 1994 NUMBER OF INDIVIDUAL MOTHS PER WEEK

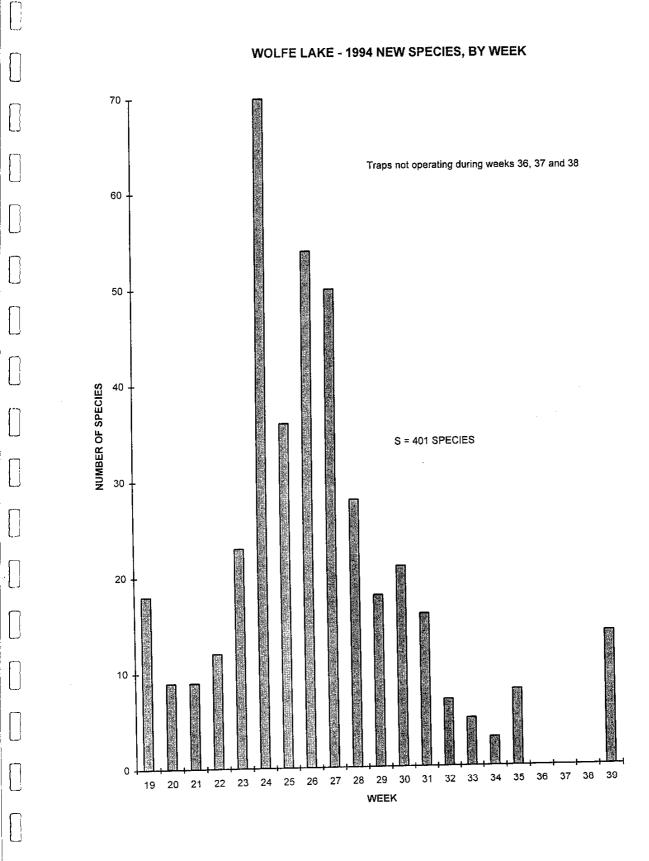
PART V

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PART V

CHART 2



PART V

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CHART 3