

NEWS

OF THE

LEPIDOPTERISTS' SOCIETY

Volume 41

Supplement S1

1998 Season Summary



Erynnis baptisiae, the Wild Indigo Duskywing, continues its range expansion. This specimen was photographed on September 27, 1998 in Scarborough, Ontario, near Toronto, by Michael King. See the story by Barry Harrison on the inside back cover and another of Michael King's photos on the outside back cover.



Index

NEWS OF THE LEPIDOPTERISTS' SOCIETY

Volume 41

Supplement S1

Zone 1:	Northwest Territories	3
	Yukon	4
	Alaska	5
Zone 2:	British Columbia	5
	Idaho	6
	Oregon, Washington	7
Zone 3:	Arizona	7
	California	9
	Nevada	12
Zone 4:	Colorado	13
	Montana	19
	New Mexico	24
	Utah	26
	Wyoming	31
Zone 5:	Saskatchewan	33
	Kansas	35
	Nebraska	36
	North Dakota	40
	South Dakota	41
Zone 6:	Louisiana	41
	Oklahoma, Texas	42
Zone 7:	Ontario	51
Zone 8:	Illinois	54
	Indiana	55
	Iowa, Kentucky	57
	Michigan	58
	Minnesota	61
	Missouri, Wisconsin	62
Zone 9:	Florida, Georgia	65
	North Carolina, South Carolina	66
	Virginia	67
Zone 10:	New Brunswick, Connecticut, Delaware, Maine	68
	Maryland	69
	Massachusetts, New Hampshire	70
	New Jersey, New York, Pennsylvania	71
Zone 11:	no reports received	72
Zone 12:	Mexico: Chiapas	73
	Mexico: Jalisco, Quintana Roo	76
	Season Summary Zone Co-ordinators	79
	Range Expansion in <i>Erynnis baptisiae</i>. Barry Harrison	79

Issue Date: April 1, 1999

ISSN 0091-1348

*This issue of the News of the Lepidopterists' Society was edited by
James P Tuttle, 3838 Fernleigh Ave, Troy, Michigan 48083-5715*

The Lepidopterists' Society is a non-profit educational and scientific organization. The object of the Society, which was formed in May 1947 and formally constituted in December 1950, is "to promote internationally the science of lepidopterology in all its branches; to further the scientifically sound and progressive study of Lepidoptera, to issue periodicals and other publications on Lepidoptera; to facilitate the exchange of specimens and ideas by both the professional worker and the amateur in the field; to compile and distribute information to other organizations and individuals for purposes of education and conservation and appreciation of Lepidoptera; and to secure cooperation in all measures" directed towards these aims. (Article II, Constitution of The Lepidopterists' Society.)

The News of the Lepidopterists' Society (ISSN 0091-1348) is published quarterly by The Lepidopterists' Society, c/o Los Angeles County Museum of Natural History, 900 Exposition Blvd., Los Angeles, CA 90007-4057, USA, and includes one or two supplements each year. The **Season Summary** is published every year as Supplement S1 and is mailed with issue 1 of the News. In even numbered years a complete **Membership Directory** is published as Supplement S2 and is mailed with issue 4 of that volume of the News. Please see the inside front cover for instructions regarding subscriptions, submissions to, and deadline dates for, the News.

Periodicals Postage Pending at address above (Los Angeles, CA) and at additional mailing office (Lawrence, KS).

POSTMASTER: Please send address changes to **News of the Lepidopterists' Society**, c/o Los Angeles County Museum of Natural History, 900 Exposition Blvd., Los Angeles, CA 90007-4057.

Copyright © 1999 by The Lepidopterists' Society. All rights reserved. The statements of contributors do not necessarily represent the views of the Society or the editor and the Society does not warrant or endorse products or services of advertisers.

Season Summary 1998

Zone 1 Far North

Alaska, Yukon, and Northwest Territories

Contributors Cite

ALS : Alaska Lepidoptera Survey

Coordinator: Kenelm W. Philip

JLH : Jack L. Harry

KWP : Kenelm W. Philip

General Comments:

Previously unreported localities or species are emphasized, as are localities not recorded through an even-odd year cycle. Note regarding the Alaska Lepidoptera Survey (ALS): Ken Philip (KLP) spent 8-11 June, 29-30 June, and 13 July on the Alaska Highway from Delta to Norway, 17-18 June and 21-22 July in Denali National Park, concentrating on the Highway Pass area. From 30 June to 5 July, and on 13 July, the southern Yukon was investigated, particularly Nickel Creek and Montana Mountain. The Bonanza Creek Experimental Forest near Fairbanks was checked throughout the summer as weather permitted.

NORTHWEST TERRITORIES

Range extensions: *Colias johanseni* from Cape Kendall (JLH). This is the first record of this species for any site other than Bernard Harbour (about 55 miles north of Cape Kendall). Records of interest: *Boloria natazhati* from Cape Kendall and Cape Krusenstern (JLH). James Troubridge and I, in 1988, guessed that *B. natazhati* would be common all along the coastline from Cape Hope to Cape Krusenstern, if not further. We were unable to confirm that guess at that time, but it seems clear now that this species is both common and widespread in the region.

Butterflies

PAPILIONIDAE

Papilio machaon W end CoronationGulf: Cape Kendall 03-Jul-98 JLH

PIERIDAE

Pontia occidentalis Dolphin&Union Strait: Bernard Harbour 04-Jul-98 - 09-Jul-98 JLH

Pieris napi W end CoronationGulf: Cape Kendall 03-Jul-98 JLH

Euchloe creusa W end CoronationGulf: Cape Kendall 03-Jul-98 JLH

Colias johanseni W end CoronationGulf: Cape Kendall 03-Jul-98 JLH

Colias johanseni Dolphin&Union Strait: Barnard Harbour 04-Jul-98 - 09-Jul-98 JLH

Colias hecla W end CoronationGulf: Cape Kendall 03-Jul-98 JLH

Colias hecla Dolphin&Union Strait: Bernard Harbour 04-Jul-98 - 09-Jul-98 JLH

Colias hecla common Victoria Island: Holman 29-Jun-99 - 01-Jul-98 JLH

Colias boothii W end CoronationGulf: Cape Kendall 03-Jul-98 JLH

Colias boothii Dolphin&Union Strait: Bernard Harbour 04-Jul-98 - 09-Jul-98 JLH

Colias nastes Victoria Island: Holman 29-Jun-98 - 01-Jul-98 JLH

Colias nastes W end CoronationGulf: Cape Kendall 03-Jul-98 JLH

Colias nastes Dolphin&Union Strait: Bernard Harbour 04-Jul-98 - 09-Jul-98 JLH

Colias palaeno W end CoronationGulf: Cape Kendall 03-Jul-98 JLH

LYCAENIDAE

Agriades franklinii Victoria Island: Holman 29-Jun-98 - 01-Jul-98 JLH

Agriades franklinii Dolphin&Union Strait: Bernard Harbour 04-Jul-98 - 09-Jul-98 JLH

NYMPHALIDAE

Boloria napaea Dolphin&Union Strait: Bernard Harbour 04-Jul-98 - 09-Jul-98 JLH

Boloria frigga Victoria Island: Holman 29-Jun-98 - 01-Jul-98 JLH

Boloria improba Victoria Island: Holman 29-Jun-98 - 01-Jul-98 JLH

Boloria improba common W end CoronationGulf: Cape Kendall 03-Jul-98 JLH

Boloria improba Dolphin&Union Strait: Cape Krusenstern 03-Jul-98 JLH

Boloria improba Dolphin&Union Strait: Bernard Harbour 04-Jul-98 - 09-Jul-98 JLH

Boloria polaris Victoria Island: Holman 29-Jun-98 - 01-Jul-98 JLH

Boloria polaris Dolphin&Union Strait: Cape Krusenstern 03-Jul-98 JLH

Boloria polaris W end CoronationGulf: Cape Kendall 03-Jul-98 JLH

Boloria polaris Dolphin&Union Strait: Bernard Harbour 04-Jul-98 - 09-Jul-98 JLH

Boloria natazhati Victoria Island: Holman 29-Jun-98 - 01-Jul-98 JLH

Boloria natazhati W end CoronationGulf: Cape Kendall 03-Jul-98 JLH

Boloria natazhati Dolphin&Union Strait: Cape Krusenstern 03-Jul-98 JLH

Boloria natazhati common Dolphin&Union Strait: Bernard Harbour 04-Jul-98 - 09-Jul-98 JLH

Boloria chariclea Victoria Island: Holman 29-Jun-98 - 01-Jul-98 JLH

Boloria chariclea Dolphin&Union Strait: Bernard Harbour 04-Jul-98 - 09-Jul-98 JLH

Erebia rossii W end CoronationGulf: Cape Kendall 03-Jul-98 JLH

<i>Erebia disa</i>	W end CoronationGulf: Cape Kendall	03-Jul-98	JLH
<i>Erebia fasciata</i>	Victoria Island: Holman	29-Jun-98 - 01-Jul-98	JLH
<i>Erebia fasciata</i>	W end CoronationGulf: Cape Kendall	03-Jul-98	JLH
<i>Erebia fasciata</i>	Dolphin&Union Strait: Bernard Harbour	04-Jul-98 - 09-Jul-98	JLH
<i>Oeneis bore</i>	W end CoronationGulf: Cape Kendall	03-Jul-98	JLH
<i>Oeneis bore</i>	Dolphin&Union Strait: Bernard Harbour	04-Jul-98 - 09-Jul-98	JLH
<i>Oeneis melissa</i>	Dolphin&Union Strait: Bernard Harbour	04-Jul-98 - 09-Jul-98	JLH
<i>Oeneis polixenes</i>	Victoria Island: Holman	29-Jun-98 - 01-Jul-98	JLH
<i>Oeneis polixenes</i>	Dolphin&Union Strait: Bernard Harbour	04-Jul-98 - 09-Jul-98	JLH

YUKON TERRITORIES

Weather: The southern Yukon had a hot and dry summer through mid-July. The best collecting was found at higher elevations, where the vegetation was not parched. At Lake Laberge the steppe vegetation was brown and crunchy underfoot on 1 July, and some normally common species were absent or rare. Records of interest: Six species were obtained at Nickel Creek including *Colias krauthii kluanensis*, *Lycaena phlaeas*, *Euphydryas anicia*, *Speyeria mormonia*, *Erebia magdalena mackinleyensis* and *Oeneis uhleri*. Collecting sites: The Bear Flats Lodge site, just east of the White River, that had been essentially destroyed by the highway construction in 1994, has totally recovered. The road is now on a higher embankment, and the collecting habitat is actually improved. Montana Mountain, just south of Carcross, is an excellent site for tundra butterflies. There is a large area above treeline, with mining roads running through it. With a 4X4 one can get up to the 5,500 foot elevation, with due care for occasional washouts in the access road, which is not very well maintained.

Butterflies

PIERIDAE

<i>Pontia occidentalis</i>	Kluane Lake vic.: Nickel Creek	01-Jul-98 - 12-Jul-98	KWP
<i>Pontia occidentalis</i>	Lake Bennett vic.: Montana Mountain	04-Jul-98 - 05-Jul-98	KWP
<i>Pieris napi</i>	Kluane Lake vic.: Nickel Creek	01-Jul-98 - 12-Jul-98	KWP
<i>Euchloe creusa</i>	Kluane Lake vic.: Nickel Creek	01-Jul-98 - 12-Jul-98	KWP
<i>Colias philodice</i>	Kluane Lake vic.: Nickel Creek	01-Jul-98 - 12-Jul-98	KWP
<i>Colias philodice</i>	Lake Bennett vic.: Montana Mountain	04-Jul-98 - 05-Jul-98	KWP
<i>Colias krauthii kluanensis</i> common	AK Hwy @ White River: Bear Flats Lodge	30-Jun-98	KWP
<i>Colias krauthii kluanensis</i>	Kluane Lake vic.: Nickel Creek	01-Jul-98 - 12-Jul-98	KWP
<i>Colias hecla</i>	Kluane Lake vic.: Nickel Creek	01-Jul-98 - 12-Jul-98	KWP
<i>Colias hecla</i>	Lake Bennett vic.: Montana Mountain	04-Jul-98 - 05-Jul-98	KWP
<i>Colias canadensis</i>	Kluane Lake vic.: Nickel Creek	01-Jul-98 - 12-Jul-98	KWP
<i>Colias nastes</i>	Kluane Lake vic.: Nickel Creek	01-Jul-98 - 12-Jul-98	KWP
<i>Colias nastes</i>	Lake Bennett vic.: Montana Mountain	04-Jul-98 - 05-Jul-98	KWP
<i>Colias palaeno</i>	Kluane Lake vic.: Nickel Creek	01-Jul-98 - 12-Jul-98	KWP
<i>Colias palaeno</i>	Lake Bennett vic.: Montana Mountain	04-Jul-98 - 05-Jul-98	KWP

LYCAENIDAE

<i>Lycaena phlaeas</i>	Kluane Lake vic.: Nickel Creek	01-Jul-98 - 12-Jul-98	KWP
<i>Everes amyntula</i>	Kluane Lake vic.: Nickel Creek	01-Jul-98 - 12-Jul-98	KWP
<i>Lycaeides idas</i>	Kluane Lake vic.: Nickel Creek	01-Jul-98 - 12-Jul-98	KWP
<i>Plebejus saepiolus</i>	Kluane Lake vic.: Nickel Creek	01-Jul-98 - 12-Jul-98	KWP
<i>Agriades rusticus</i>	Kluane Lake vic.: Nickel Creek	01-Jul-98 - 12-Jul-98	KWP
<i>Agriades rusticus</i> common	Lake Bennett vic.: Montana Mountain	04-Jul-98 - 05-Jul-98	KWP

NYMPHALIDAE

<i>Nymphalis milberti</i>	AK Hwy @ White River: Bear Flats Lodge	30-Jun-98	KWP
<i>Speyeria mormonia</i>	Kluane Lake vic.: Nickel Creek	01-Jul-98 - 12-Jul-98	KWP
<i>Boloria napaea</i> common	Lake Bennett vic.: Montana Mountain	04-Jul-98 - 05-Jul-98	KWP
<i>Boloria eunomia</i>	Kluane Lake vic.: Nickel Creek	01-Jul-98 - 12-Jul-98	KWP
<i>Boloria eunomia</i>	Lake Bennett vic.: Montana Mountain	04-Jul-98 - 05-Jul-98	KWP
<i>Boloria freija</i>	Kluane Lake vic.: Nickel Creek	01-Jul-98 - 12-Jul-98	KWP
<i>Boloria chariclea</i>	Kluane Lake vic.: Nickel Creek	01-Jul-98 - 12-Jul-98	KWP
<i>Boloria chariclea</i>	Lake Bennett vic.: Montana Mountain	04-Jul-98 - 05-Jul-98	KWP
<i>Phyciodes pratensis</i>	Kluane Lake vic.: Nickel Creek	01-Jul-98 - 12-Jul-98	KWP
<i>Phyciodes pratensis</i>	Lake Bennett vic.: Montana Mountain	04-Jul-98 - 05-Jul-98	KWP
<i>Euphydryas anicia</i>	Kluane Lake vic.: Nickel Creek	01-Jul-98 - 12-Jul-98	KWP
<i>Coenonympha kodiak</i>	Kluane Lake vic.: Nickel Creek	01-Jul-98 - 12-Jul-98	KWP
<i>Erebia theano</i>	Kluane Lake vic.: Nickel Creek	01-Jul-98 - 12-Jul-98	KWP
<i>Erebia lafontainei</i>	Kluane Lake vic.: Nickel Creek	01-Jul-98 - 12-Jul-98	KWP
<i>Erebia lafontainei</i>	Lake Bennett vic.: Montana Mountain	04-Jul-98 - 05-Jul-98	KWP
<i>Oeneis uhleri</i>	Kluane Lake vic.: Nickel Creek	01-Jul-98 - 12-Jul-98	KWP
<i>Oeneis bore</i>	Kluane Lake vic.: Nickel Creek	01-Jul-98 - 12-Jul-98	KWP
<i>Oeneis bore</i>	Lake Bennett vic.: Montana Mountain	04-Jul-98 - 05-Jul-98	KWP
<i>Oeneis melissa</i>	Lake Bennett vic.: Montana Mountain	04-Jul-98 - 05-Jul-98	KWP
<i>Oeneis polixenes</i>	Lake Bennett vic.: Montana Mountain	04-Jul-98 - 05-Jul-98	KWP

ALASKA

Weather: Interior Alaska had a slightly late and very dry spring, which was followed by a rather cloudy summer with a near-record number of rainy days. Late summer butterfly species were present only in very low numbers. Records of interest: The Bonanza Creek Experimental Forest colony of *Speyeria atlantis* continues to flourish. A larger number of individuals was found at a lower elevation than the original site. A sight record for this species was obtained at the Gerstle River, Alaska Highway east of Delta. The Northway airport colony of *Colias krauthii kluanensis* is doing well despite some construction in its limited habitat there. *Erebia magdalena mackinleyensis* and *E. occulta* were found on scree in a branch of Stony Creek, Denali National Park, and *E. rossii* was abundant along the park road in the Teklanika and Sanctuary River floodplains in mid-June. Collecting sites: The excellent site at mile 1410 Alaska Highway, east of Delta, was destroyed by powerline right of way clearing operations. In addition to cutting all of the vegetation, even trees, the power company also brought in heavy equipment and removed all of the berms on the site, creating a dead, flat expanse. Butterflies were almost totally absent at this site in July. Some recovery will occur in time, but the change in ground contour will not help, I fear.

Butterflies

PAPILIONIDAE

<i>Papilio machaon</i>	Baird Mountains: North Fork Squirrel River	30-Jun-98 - 09-Jul-98	ALS
<i>Papilio machaon</i>	KOBUK VALLEY NP: Great Kobuk Sand Dunes	15-Jul-98 - 21-Jul-98	ALS

PIERIDAE

<i>Pontia occidentalis</i>	Baird Mountains: North Fork Squirrel River	30-Jun-98 - 09-Jul-98	ALS
<i>Pontia occidentalis</i>	KOBUK VALLEY NP: Great Kobuk Sand Dunes	15-Jul-98 - 21-Jul-98	ALS
<i>Pieris napi</i>	Baird Mountains: North Fork Squirrel River	30-Jun-98 - 09-Jul-98	ALS
<i>Pieris napi</i>	KOBUK VALLEY NP: Great Kobuk Sand Dunes	15-Jul-98 - 21-Jul-98	ALS
<i>Colias philodice</i>	KOBUK VALLEY NP: Great Kobuk Sand Dunes	15-Jul-98 - 21-Jul-98	ALS
<i>Colias palaeno</i>	KOBUK VALLEY NP: Great Kobuk Sand Dunes	15-Jul-98 - 21-Jul-98	ALS

LYCAENIDAE

<i>Glaucopsyche lygdamus</i>	Baird Mountains: North Fork Squirrel River	30-Jun-98 - 09-Jul-98	ALS
<i>Lycaeides idas</i>	KOBUK VALLEY NP: Great Kobuk Sand Dunes	15-Jul-98 - 21-Jul-98	ALS

NYMPHALIDAE

<i>Boloria freija</i>	Baird Mountains: North Fork Squirrel River	30-Jun-98 - 09-Jul-98	ALS
<i>Erebia rossii</i> common	Alaska Range: Denali National Park, Teklanika River floodplain	18-Jun-98	KWP
<i>Erebia rossii</i>	Alaska Range: Denali National Park, Sanctuary River floodplain	18-Jun-98	KWP
<i>Erebia magdalena mackinleyensis</i>	Alaska Range: Stony Creek, Denali National Park	18-Jun-98	KWP
<i>Erebia occulta</i>	Alaska Range: Stony Creek, Denali NP	18-Jun-98	KWP
<i>Erebia occulta</i>	Alaska Range: Denali National Park, mile 49.3 park road	18-Jun-98	KWP
<i>Erebia fasciata</i>	Baird Mountains: North Fork Squirrel River	30-Jun-98 - 09-Jul-98	ALS
<i>Oeneis bore</i>	Baird Mountains: North Fork Squirrel River	30-Jun-98 - 09-Jul-98	ALS
<i>Oeneis melissa</i>	Baird Mountains: North Fork Squirrel River	30-Jun-98 - 09-Jul-98	ALS
<i>Oeneis polixenes</i>	Baird Mountains: North Fork Squirrel River	30-Jun-98 - 09-Jul-98	ALS

Zone 2 Pacific Northwest Idaho, Oregon, Washington, British Columbia

Coordinator: Jon H. Shepard

Contributors Cite

JB : Janis Burger

JF : John Fleckenstein

CSG : Cris Guppy

CEH : Charles E. Harp

NK : Norbert Kondla

MAP : M A Peterson

RMP : Robert M. Pyle

TLP : Thea Pyle

DTH : Daniel Thackaberry

DT : David Threatful

General Comments:

No one commented on general weather conditions in the USA portion of the zone. In British Columbia the weather was cool and wet in the early spring. By early July it had turned very hot and dry. From mid-July on, the number of species were down, especially the moths. Migratory butterflies were not reported in British Columbia or north of the very southern portion of Washington.

BRITISH COLUMBIA

Shepard and Guppy were finishing up their "Butterflies of British Columbia" book and did not have a single day in the field. Kondla and Threatful kept up the torch adding range extensions in time to be incorporated into the book. Shepard, collecting moths at his home near Sproule Creek, recorded 6 new species of noctuids. All were pest species not previously recorded in the West Kootenay, such as *Euxoa auxiliaris*. More evidence that the greenhouse effect continues to develop.

Butterflies

HESPERIIDAE

<i>Erynnis icelus</i>	Maryann Creek Rd	21-Jun-98	DT
<i>Erynnis propertius</i>	Maryann Creek Rd	21-Jun-98	DT
<i>Erynnis persius</i>	Maryann Creek Rd	21-Jun-98	DT
<i>Oarisma garita</i>	SOUTHWEST: Morrissey Creek	06-Jun-98	NK
<i>Hesperia comma</i>	Shorts Creek Canyon	19-Jul-98	DT

<i>Hesperia comma</i>	Fred Laing Ridge	26-Jul-98	DT
<i>Ochlodes sylvanoides</i>	Mt Sproat	28-Jul-98	DT
PAPILIONIDAE			
<i>Parnassius smintheus magnus</i>	Mt Sproat	28-Jul-98	DT
<i>Papilio oregonius</i>	SOUTHWEST: Morrissey Creek	14-Jun-98	NK
<i>Papilio canadensis</i>	SOUTHWEST: Asnola River Rd	11-Jun-98	NK
<i>Papilio rutulus</i>	NORTH: Big Bar Ferry	11-Jun-98	NK
PIERIDAE			
<i>Pontia occidentalis</i>	Keystone Peak	25-Jul-98	DT
<i>Pontia occidentalis</i>	Fred Laing Ridge	26-Jul-98	DT
<i>Colias nastes streckeri</i>	Keystone Peak	25-Jul-98	DT
<i>Colias nastes streckeri</i>	Mt Sproat	28-Jul-98	DT
LYCAENIDAE			
<i>Lycaena nivalis</i>	Shorts Creek Canyon	06-Jul-98	DT
<i>Satyrium sylvinum</i>	Shorts Creek Canyon	04-Aug-98	DT
<i>Glaucopsyche lygdamus columbia</i>	Mt Sproat	28-Jul-98	DT
<i>Lycaeides idas scudderii</i>	Shorts Creek Canyon	06-Jul-98	DT
<i>Lycaeides idas scudderii</i>	Mt Sproat	28-Jul-98	DT
<i>Lycaeides melissa</i>	Sand Creek	24-May-98	NK
<i>Agriades megalo</i>	Keystone Peak	25-Jul-98	DT
<i>Agriades megalo</i>	Fred Laing Ridge	26-Jul-98	DT
<i>Agriades megalo</i>	Mt Sproat	28-Jul-98	DT
NYMPHALIDAE			
<i>Speyeria callippe semivirida</i>	SOUTHWEST: Morrissey Creek	06-Jun-98	NK
<i>Speyeria atlantis beani</i>	Shorts Creek Canyon	06-Jul-98	DT
<i>Speyeria mormonia opis</i>	Standard Basin	24-Jul-98	DT
<i>Speyeria mormonia opis</i>	Mt Sproat	28-Jul-98	DT
<i>Speyeria mormonia erinna</i>	EAST: Conkle Lake Rd	02-Aug-98	NK
<i>Boloria selene atrocotalis</i>	8 km SE of Bishop Bluffs	07-Jul-98	CSG
<i>Boloria bellona toddi</i>	SOUTHWEST: Morrissey Creek	31-May-98	NK
<i>Boloria epithore chermocki</i>	Standard Basin	24-Jul-98	DT
<i>Boloria astarte</i>	Keystone Peak	25-Jul-98	DT
<i>Boloria astarte</i>	Mt Sproat	28-Jul-98	DT
<i>Boloria titania grandis</i>	8 km SE of Bishop Bluffs	07-Jul-98	CSG
<i>Phyciodes pallidus barnesi</i>	Shorts Creek Canyon	06-Jul-98	DT
<i>Euphydryas anicia</i>	Mt Sproat	28-Jul-98	DT
<i>Cercyonis pegala boopis</i>	Shorts Creek Canyon	14-Jul-98	DT
<i>Cercyonis sthenele paulus</i>	Shorts Creek Canyon	14-Jul-98	DT

IDAHO

The only contribution was on moths collected on the extreme eastern border with Wyoming. Ray Stanford searched Nelson Curtis' collection and found 156 more county records for butterflies, but since they are from previous years those records are not reported here.

Moths

THYATIRIDAE			
<i>Habrosyne scripta</i>	MADISON: Caynyon Creek @ FR328	18-Jul-98	CEH
GEOMETRIDAE			
<i>Hydria undulata</i>	MADISON: Caynyon Creek @ FR328	18-Jul-98	CEH
SPHINGIDAE			
<i>Smerinthus cerisyi</i>	MADISON: Caynyon Creek @ FR328	18-Jul-98	CEH
NOTODONTIDAE			
<i>Clostera apicalis</i>	MADISON: Caynyon Creek @ FR328	18-Jul-98	CEH
<i>Odontosia elegans</i>	MADISON: Caynyon Creek @ FR328	18-Jul-98	CEH
ARCTIIDAE			
<i>Estigmene arizonensis</i>	MADISON: Caynyon Creek @ FR328	18-Jul-98	CEH
<i>Turuptiana permaculata</i>	MADISON: Caynyon Creek @ FR328	18-Jul-98	CEH
<i>Grammia williamsii</i>	MADISON: Caynyon Creek @ FR328	18-Jul-98	CEH
<i>Lophocampa maculata</i>	MADISON: Caynyon Creek @ FR328	18-Jul-98	CEH
NOCTUIDAE			
<i>Synedoida adumbrata</i>	MADISON: Caynyon Creek @ FR328	18-Jul-98	CEH
<i>Autographa ampla</i>	MADISON: Caynyon Creek @ FR328	18-Jul-98	CEH
<i>Anagrapha falcifera</i>	MADISON: Caynyon Creek @ FR328	18-Jul-98	CEH
<i>Acronicta leporina</i>	MADISON: Caynyon Creek @ FR328	18-Jul-98	CEH
<i>Acronicta hasta</i>	MADISON: Caynyon Creek @ FR328	18-Jul-98	CEH
<i>Apamea inordinata</i>	MADISON: Caynyon Creek @ FR328	18-Jul-98	CEH
<i>Lacinipolia olivacea</i>	MADISON: Caynyon Creek @ FR328	18-Jul-98	CEH

OREGON

The only new county records were sent in by Dan Thackaberry. No migratory species were reported with the exception of a single county record.

Butterflies

HESPERIIDAE

Atalopedes campestris LINCOLN: Logsden Rd 28-May-98 DTH

PAPILIONIDAE

Papilio eurymedon MALHEUR: Anderson Crossing 27-Jun-98 DTH

PIERIDAE

Colias interior LINN: Hoodoo 09-Aug-98 DTH

LYCAENIDAE

Lycaena heteronea DESCHUTES: Indian Ford 07-Jul-98 DTH

Everes comyntas LINCOLN: Logsden Rd 26-Apr-98 DTH

Everes amyntula LINCOLN: Disaster Peak Rd 28-Jun-98 DTH

Euphilotes enoptes MALHEUR: Disaster Peak Rd 28-Jun-98 DTH

Glaucopsyche piasus LAKE: Bacon Camp Rd 13-Jun-98 DTH

NYMPHALIDAE

Polygonia oreas LINCOLN: Logsden Rd 26-Apr-98 DTH

Vanessa annabella LINCOLN: Anderson Crossing 27-Jun-98 DTH

Limenitis lorquini LINCOLN: Whitehorse Rd 28-Jun-98 DTH

WASHINGTON

Bob Pyle, despite his busy schedule, managed the only report from the state with the assistance of his legion of helpers.

Butterflies

HESPERIIDAE

Carterocephalus palaemon WHATCOM: S shore of Lake Terrell 11-May-98 MAP

Atalopedes campestris SKAMANIA: Carson 29-Aug-98 RMP

Euphyes vestris WHATCOM: Silver Lake 20-Jul-98 TLP

PIERIDAE

Euchloe ausonides SAN JUAN: American Camp 06-May-98 JF

LYCAENIDAE

Lycaena mariposa Clallam: 5 mi S of Sequim 12-Aug-98 JB

NYMPHALIDAE

Vanessa virginiensis SKAMANIA: Johnston Ridge, Mt St Helens 03-Sep-98 RMP

Vanessa virginiensis Pacific: K. O. Lookout @ Gray's River divide 19-Oct-98 RMP

Zone 3 Southwest

California, Arizona, Nevada

Coordinator: Robert L. Langston

Contributors Cite

JPB : James P. Brock
RVK : Richard V. Kelson
RHL : Ron H. Leuschner
RCM : Robert C. Mower
WPS : W. P. Sochor
PT1 : Paul Thompson
JBV : John B. Vernon

KD : Ken Davenport
RLL : Robert L. Langston
GLM : Gene & Lynn Monroe
KMR : Kelly M. Richers
RES : Ray E. Stanford
JPT : James P. Tuttle
ADW : Andrew D. Warren

JAD : John A DeBenedictis
L/R : Ron Leuschner & Kelly Richer
M/B : Bill Mooney & Howard Byrne
AOS : A. Oakley Shields
WLS : William L. Swisher
V/L : J. Vernon & R. Langston

ARIZONA

Included are 5 COUNTY records for butterfly species. Three of these are from earlier years. The specimens were found in the Oregon State University collection while attending the annual Northwest Lepidopterists' workshop in late October. Many moth records from the well collected Cochise County were submitted by Ron Leuschner (RHL). Some of these could be COUNTY records, but it is not really known until a database for Arizona moths is established.

Butterflies

HESPERIIDAE

Erynnis brizo burgessi GREENLEE: Hill, 5708', Hwy 78, 8 mi NE of US191 21-Mar-98 RES

Erynnis meridianus Greenlee: Hill, 5708', Hwy 78, 8 mi NE of US191 21-Mar-98 RES

synchronous with burgessi; both species common and fresh

Erynnis funeralis	Pima: Sabino Canyon, Santa Catalina Mountains	29-May-98	JPB
last instar larvae on Coursettia microphylla - new HOST			
Pholisora catullus	YUMA: alfalfa field 3 mi E of Yuma	09-Mar-98	RES
EARLY in season; previous earliest on 31-Mar-76 by R.A. Bailowitz			
PAPILIONIDAE			
Papilio polyxenes asterius	Greenlee: Hill, 5708', Hwy 78, 8 mi NE of US191	21-Mar-98	RES
PIERIDAE			
Anthocharis pima	Greenlee: Hill, 5708', Hwy 78, 8 mi NE of US191	21-Mar-98	RES
2nd county record; first in 1993 by WLS			
Nathalis iole	Apache: 0.5 mi E of McNary, 7600'	30-Aug-98	PT1
recorded from all Arizona counties and during all months of the year			
LYCAENIDAE			
Leptotes marina	Pima: 0.75 mi S of Sabino Canyon, Tucson	08-Jun-98	JPB
numerous larvae on Lysiloma microphylla - new HOST			
Everes comyntas	PINAL: Ray, 2024'	09-Apr-62	ADW
leg. G.H. Ferguson, female gen. det. by ADW; OSU collection, Corvallis, Oregon			
Plebejus saepiolus gertschi	YAVAPAI: 8 mi W of Sedona	07-Jul-89	RES
leg. J.R. Reed; in OSU collection, Corvallis, Oregon			
Agriades rusticus	YAVAPAI: 8 mi W of Sedona	07-Jul-89	RES
leg. J.R. Reed; in OSU collection, Corvallis, Oregon			
NYMPHALIDAE			
Euptoieta hegesia hoffmanni	Santa Cruz: Patagonia	15-Jul-98	JPB
Euptoieta hegesia hoffmanni	Pima: 0.75 mi S of Sabino Canyon, Tucson	05-Oct-98	JPB
southern Arizona had a good influx of the Mexican Fritillary in 1998			
Moths			
OECOPHORIDAE			
Himmacia stratia	Cochise: Cave Creek	16-Jul-98	RHL
TORTRICIDAE			
Rhyacionia bushnelli	Cochise: Rustler Park, 8500'	16-Jul-98	L/R
Rhyacionia pallifasciata	Cochise: Rustler Park, 8500'	16-Jul-98	L/R
PYRALIDAE			
Crambus angustexon	Cochise: Rustler Park, 8500'	16-Jul-98	L/R
Laetilia ephestiella	Cochise: Rustler Park, 8500'	16-Jul-98	L/R
GEOMETRIDAE			
Semiothisa kuschea	Cochise: Rustler Park, 8500'	16-Jul-98	L/R
Vinemina perdita	Cochise: Rustler Park, 8500'	16-Jul-98	L/R
Biston multidentata	Cochise: Rustler Park, 8500'	16-Jul-98	L/R
both sexes, including males unknown to Rindge in his 1975 revision			
Caripeta suffusata	Cochise: Rustler Park, 8500'	16-Jul-98	L/R
Sabulodes olifata	Cochise: Rustler Park, 8500'	16-Jul-98	L/R
SATURNIIDAE			
Citheronia splendens sinaloensis	Santa Cruz: Pena Blanca Lake area	28-Aug-98 - 14-Sep-98	JPT
3rd-5th instar larvae found on Rhus choriophylla, Arctostaphylos pungens, and Gossypium thurberi			
Hemileuca juno	Santa Cruz: Rio Rico area	19-Nov-98	JPT
adults abundant; females at gas station lights and males in diurnal flight			
Automeris patagoniensis	Santa Cruz: along I-19 just north of the Ruby Rd exit	23-Jul-98	JPT
Automeris cecrops pamina	Santa Cruz: Pena Blanca Lake area	28-Aug-98 - 14-Sep-98	JPT
larval clusters very common on manzanita (Arctostaphylos pungens)			
SPHINGIDAE			
Sphinx asella	Cochise: Mule Mountains near Bisbee	05-Oct-98 - 10-Oct-98	JPT
last instar larvae on mountain mahogany (Cercocarpus montanus)			
Eumorpha satellitia	Pima: Box Canyon, Santa Rita Mountains	21-Aug-98	M/B
Eumorpha satellitia	Santa Cruz: Pena Blanca	28-Aug-98	M/B
NOCTUIDAE			
Oxycilla ondo	Cochise: Rustler Park, 8500'	16-Jul-98	L/R
Matigramma adoceta	Cochise: Cave Creek	16-Jul-98	RHL
Catocala frederici	Cochise: Cave Creek	16-Jul-98	RHL
Paratrachea viridescens	Cochise: Rustler Park, 8500'	16-Jul-98	L/R
Sideridis palmillo	Cochise: Rustler Park, 8500'	16-Jul-98	L/R
Pseudoseptis grandipennis	Cochise: Rustler Park, 8500'	16-Jul-98	L/R

CALIFORNIA

Included are 17 COUNTY records for butterfly species. For the moths there is one STATE record and at least 55 COUNTY records. For several years Richers (KMR) has been establishing a database for all California counties. If not recorded for their prospective counties, these are considered "new" for the Season Summary. Included are many of the "common" species such as *Plutella xylostella*, *Hyles lineata* and *Helicoverpa zea*. Debenedictis (JAD) submitted an extensive list for Yolo County. Less than half of these are included in this summary, but all will be entered in the KMR database. Swisher (WLS) reported that with above average rains of 1997 and 1998, there resulted spectacular wildflower displays in the low elevation Colorado Desert of Southern California and Arizona. However, during March and April the weather fronts came solidly, one after another, making it almost impossible to have a window of time between storms for collecting. Shields (AOS) reported that at Jerseydale, 3600', Mariposa County, there was much more than the usual rain and snow in January - March. Unusually late was 5" of rain and 10" of snow in April and finally 4" of rain in early May. Langston (RLL) reported that in the Bay Area, rains continued through 29 May, with showers as late as 8 June. Many of the spring species were still flying in June, and some of the so-called summer species did not appear until July. Therefore, many LATE dates are cited below.

Butterflies

HESPERIIDAE

<i>Erynnis icelus</i> leg. P.G. Nice; in OSU collection; dubious, very odd record!	STANISLAUS: Del Puerto Canyon	08-Jun-75	ADW
<i>Erynnis tristis</i> leg. S.G. Jewett, in OSU collection	NEVADA: 2 mi N of Cisco, 6270'	19-Jun-36	ADW
<i>Erynnis tristis</i> confirms 1936 record	Nevada: Wolf Mtn, 2631', 8 mi SSW of Grass Valley	15-Jun-98	RES
<i>Pholisora catullus</i>	Stanislaus: below Tulloch Reservoir, 550'	15-Jun-98	RES
<i>Hesperia comma dodgei</i> still present after its original discovery 37 years ago!	Contra Costa: Point San Pablo	07-Aug-98 - 11-Aug-98	RLL
<i>Hesperia columbia</i> main flight 6 weeks late due to El Nino	Ventura: hilltop nr Owl's Barn	13-Jun-98 - 19-Jun-98	KD
<i>Hesperia nevada</i> late in season	Mono: hilltop N of Sonora Pass, 10,000'	09-Aug-98	KD
<i>Ochlodes agricola</i> late in season	Contra Costa: Mitchell Canyon, Mt. Diablo	27-Jul-98	RVK
<i>Ochlodes agricola nemorum</i>	FRESNO: Parkfield Grade at 1200'	01-Jun-98 - 20-Jun-98	KD
<i>Megathymus yuccae martini</i>	Kern: 4.7 mi S of Oak Creek Pass	28-Apr-98 - 30-Apr-98	KD

PAPILIONIDAE

<i>Papilio bairdii</i> scarce, a single specimen among many lepidopterists at the Pacific Slope meeting	San Bernardino: Grace Valley Ranch, 8000'	26-Jun-98	JBV
<i>Papilio zelicaon</i> form "nitra"; leg. J.L. Creelman, in San Diego Mus Nat. Hist.	SAN DIEGO: San Diego, Mt. Hope cemetery	23-Mar-36	RES
<i>Papilio crespontes</i> 61 sightings including several ovipositions	Orange: Garden Grove	26-May-98 - 23-Oct-98	WPS
<i>Papilio crespontes</i>	San Diego: Encinitas, Quail Botanical Gardens	23-Jun-98	RLL
<i>Papilio crespontes</i> leg. C.P. Slater which confirms records in Lep. Soc. News 39: 107, 1997	Los Angeles: Long Beach	08-Jul-98 - 12-Aug-98	RES
<i>Papilio eurymedon</i>	MERCED: Cathedral Peak, 2970'; E of San Benito County line	12-Jun-98	RES

PIERIDAE

<i>Pontia beckerii</i> earliest record ever	Kern: Cinco/Cantil area, Mojave Desert	27-Jan-98	KD
<i>Pontia sisymbrii</i> leg. R.W. Brown in San Diego Mus. Nat. Hist.	IMPERIAL: In-Ko-Pah Gorge	12-Mar-60	RES
<i>Pieris napi microstriata</i> late in season; in same canyon on 15-Jun-98 per RLL	Contra Costa: Mitchell Canyon, Mt. Diablo	27-Jul-98	RVK
<i>Anthocharis cethura</i>	Inyo: Hill, 3850', Eureka Valley	20-Apr-98	WLS
<i>Anthocharis sara</i> latest record ever	Monterey: N of Chews Ridge	11-Jul-98	KD
<i>Phoebis sennae marcellina</i> generally flying north; both sexes in good numbers	San Diego: San Diego, Balboa Park	22-Jun-98	RLL
<i>Phoebis sennae marcellina</i>	Orange: Garden Grove	16-Oct-98	WPS
<i>Eurema nicippe</i> proof that adults overwinter in northern part of Mojave Desert	Kern: Cinco/Cantil area	21-Nov-97 - 27-Jan-98	KD
<i>Nathalis iole</i> unusual at this high elevation	San Bernardino: Grace valley Ranch, 8000'	27-Jun-98	RLL

LYCAENIDAE

<i>Lycaena arota</i> east and in the desert transition zone; photo only as within a state park	San Diego: nr Cottonwood Springs, 3000'	16-May-97	GLM
<i>Lycaena xanthoides</i> 2nd county record	Mono: Swall Meadow, E side of Sierra Nevada	08-Aug-98	KD
<i>Lycaena gorgon</i> utilizing <i>Eriogonum indictum</i> - possible new HOST	Fresno: Parkfield Grade at 1200'	01-Jun-98 - 20-Jun-98	KD
<i>Lycaena helloides</i> late in season	Yolo: Davis	17-Oct-98 - 01-Nov-98	JAD

<i>Atlides haesus estesi</i>	San Bernardino: 16 mi E of Twentynine Palms	13-Mar-98	JBV
<i>Satyrium sylvinum dryope</i>	FRESNO: Coalinga Mineral Springs and Creek	20-Jun-98	KD
<i>Satyrium auretorum</i>	Solano: Mix Canyon, Vaca Hills	12-Jun-98	V/L
	synchronous with 3 other hairstreaks; californicum, sylvinum, and melinus pudicus		
<i>Satyrium saepium</i>	MERCED: Cathedral Peak, 2970'; E of San Benito County line	12-Jun-98	RES
<i>Callophrys dumetorum perplexa</i>	Los Angeles: nr Pearblossom	30-Apr-98	JBV
<i>Callophrys muiri</i>	MONTEREY: 7 mi NE of Parkfield	20-Apr-98	KD
<i>Strymon columella istapa</i>	San Diego: Hell Hole Canyon, 1200'	05-May-98	GLM
	early, usually flies in autumn in the desert; photo only as within a state park		
<i>Hemiargus isola alce</i>	ALPINE: Avalanche Meadow, 8200'	01-Sep-98	RVK
<i>Everes amyntula</i>	FRESNO: N of Parkfield Summit, 3000'	01-Jun-98	KD
<i>Celastrina ladon echo</i>	MERCED: Cathedral Peak, 2970'; E of San Benito County line	12-Jun-98	RES
<i>Plebejus saepiolus hilda</i>	San Bernardino: Grace Valley Ranch, 8000'	26-Jun-98 - 28-Jun-98	V/L
RIODINIDAE			
<i>Apodemia mormo</i>	Kern: Jawbone Canyon Rd	30-Apr-98	JBV
<i>Apodemia mormo langei</i>	FRESNO: Parkfield Grade at 1200'	15-Sep-98	KD
	near langei; utilizing <i>Eriogonum indictum</i> , but sympatric with other mormo phenotypes using <i>E. fasciculatum</i>		
NYMPHALIDAE			
<i>Nymphalis californica</i>	Mariposa: Jerseydale, 3600'	15-Mar-98 - 20-Apr-98	AOS
	several residents; not migrating		
<i>Nymphalis californica</i>	MERCED: Cathedral Peak, 2970'; E of San Benito County line	12-Jun-98	RES
<i>Vanessa cardui</i>	Kern: Cinco/Cantil area	24-Nov-97 - 27-Jan-98	KD
	adults overwintering in numbers along S end of Sierra Nevada and edge of Mojave Desert as early as 22-Dec-97		
<i>Vanessa cardui</i>	Kings: Kettleman City	23-May-98	AOS
	very heavy N-NNW migration		
<i>Vanessa cardui</i>	Yolo: Woodland	05-Jul-98	AOS
	S-SE migration in fair numbers from local emergence; MADE THE NEWS!		
<i>Euptoieta claudia</i>	Mono: hilltop N of Sonora Pass, 10,000'	09-Aug-98	KD
	obviously a stray, but confirms Comstock (1927) statement for Mono County		
<i>Speyeria coronis</i>	Stanislaus: Del Puerto Canyon	15-Sep-98	RVK
	second county record		
<i>Chlosyne gabbii</i>	MERCED: Cathedral Peak, 2970'; E of San Benito County line	12-Jun-98	RES
	northern range extension		
<i>Thessalia leanira</i>	Contra Costa: Donner Canyon, Mt. Diablo	06-Jul-98	RVK
	late in the season		
<i>Thessalia leanira wrighti</i>	Kern: 1 mi S of Bodfish	01-May-98	JBV
<i>Cercyonis pegala</i>	KERN: Greenhorn Mtns, 1.5 mi N of Glennville	21-Jul-97	KD
	undescribed subspecies; det. J.F. Emmel; no others for Kern County in 1998		
<i>Danaus plexippus</i>	Alameda: Albany Hill, 50-300'	29-Apr-98 - 31-Dec-98	RLL
	last worn adults from winter aggregation in April; more Monarchs in Oct-Dec than in past two years		
<i>Danaus plexippus</i>	Yolo: Davis	04-Jul-98 - 25-Oct-98	JAD
	small numbers		
<i>Danaus gilippus strigosus</i>	MONTEREY: Little Cholame Creek, 4 mi N of Parkfield	15-Sep-98	KD
Moths			
HEPIALIDAE			
<i>Gazoryctria hectoides</i>	SAN BERNARDINO: Grace Valley Ranch nr Onyx Summit	26-Jun-98	RHL
TINEIDAE			
<i>Niditinea spretella</i>	CONTRA COSTA: Kensington	05-Mar-98 - 19-Oct-98	RLL
<i>Monopis crocipitella</i>	YOLO: Davis	20-Apr-98 - 03-Nov-98	JAD
<i>Opogona omoscopa</i>	YOLO: Davis	03-Apr-98 - 03-Nov-98	JAD
<i>Oinophila v flavum</i>	YOLO: Davis	05-Jun-98	JAD
LYONETIIDAE			
<i>Bedellia somnulentella</i>	YOLO: Davis	24-Jul-98 - 19-Oct-98	JAD
OECOPHORIDAE			
<i>Ethmia discostrigella</i>	San Bernardino: Grace Valley Ranch, 8000'	26-Jun-98 - 28-Jun-98	RLL
BLASTOBASIDAE			
<i>Oegoconia quadripuncta</i>	YOLO: Davis	26-Jun-98 - 28-Sep-98	JAD
MOMPHIDAE			
<i>Mompha eloisella</i>	YOLO: Davis	14-Jun-98	JAD
COSMOPTERIGIDAE			
<i>Periploca ceanothiella</i>	YOLO: Davis	24-May-98 - 29-Jun-98	JAD
GELECHIIDAE			
<i>Leucogoniella californica</i>	YOLO: Davis	01-Aug-98 - 02-Sep-98	JAD
PLUTELLIDAE			
<i>Plutella xylostella</i>	YOLO: Davis	27-Apr-98 - 30-Oct-98	JAD

SESIIDAE

<i>Sesia tibialis</i>	Los Angeles: Pallet Creek @ Valyermo Rd	26-Jun-98 - 29-Jun-98	JBV
<i>Sesia tibialis</i>	Sonoma: Petaluma	15-Jul-98 - 01-Sep-98	JBV
<i>Synanthedon albicornis</i>	SONOMA: Porter Creek, 3 mi E of Mark West Springs	16-Jul-98 - 28-Jul-98	JBV
<i>Synanthedon bibionipennis</i>	Shasta: La Moine @ I-5	15-Jul-98 - 20-Jul-98	JBV
<i>Synanthedon resplendens</i>	SONOMA: Porter Creek, 3 mi E of Mark West Springs	11-Jun-98 - 15-Jul-98	JBV
<i>Synanthedon resplendens</i>	Los Angeles: Big Pines Rd, 2 mi E of Bob's Gap Rd	26-Jun-98 - 29-Jun-98	JBV
<i>Synanthedon novaroensis</i>	SHASTA: La Moine @ I-5	15-Jul-98 - 20-Jul-98	JBV
<i>Synanthedon sequoiae</i>	MARIN: 5 mi W of Fairfax	15-Jun-98 - 27-Jul-98	JBV
<i>Synanthedon sequoiae</i>	TUOLUMNE: Hwy 108, 5 mi NE of Long Barn	30-Jun-98 - 10-Jul-98	JBV
<i>Synanthedon sequoiae</i>	LAKE: 8 & 10 mi SE of Kelseyville	02-Jul-98 - 15-Jul-98	JBV
<i>Penstemonia clarkei</i>	Marin: Pine Mountain Rd, 4 mi W of Fairfax	13-Jul-98 - 24-Jul-98	JBV

TORTRICIDAE

<i>Bactra verutana</i>	YOLO: Davis	10-Sep-98	JAD
<i>Eumaroza malachitana</i>	KERN: Lake of the Woods, 5200'	22-Aug-98	RHL
	STATE RECORD; usually in eastern USA		
<i>Hystriophora roessleri</i>	CONTRA COSTA: Point Richmond	19-May-98 - 04-Jun-98	RLL
<i>Archips argyrospila columbiana</i>	YOLO: Davis	24-May-98	JAD
<i>Amorbia cuneana</i>	LAKE: SE slope of Mt Konocti	30-Mar-98	RLL

PYRALIDAE

<i>Petrophila jaliscalis</i>	YOLO: Davis	28-Jul-98 - 19-Oct-98	JAD
<i>Uresiphita reversalis</i>	YOLO: Davis	19-Oct-98	JAD
<i>Pyrausta volupialis</i> diurnal	CONTRA COSTA: Kensington	23-Sep-98	RLL
<i>Pyrausta laticlavia</i>	YOLO: Davis	16-Apr-98 - 19-Oct-98	JAD
<i>Pyrausta fodinalis</i> diurnal	CONTRA COSTA: Kensington	08-Apr-98 - 01-Jun-98	RLL
<i>Mecyna mustelinalis</i>	CONTRA COSTA: Mitchell Canyon, Mt Diablo	15-Jun-98	RLL
<i>Nomophila nearctica</i>	CONTRA COSTA: Kensington	06-Jul-98 - 10-Aug-98	RLL
<i>Diastictis fracturalis</i>	YOLO: Davis	13-Jul-98 - 03-Sep-98	JAD

PTEROPHORIDAE

<i>Trichoptilus californicus</i>	YOLO: Davis	23-Jun-98	JAD
<i>Adaina ambrosiae</i>	YOLO: Davis	10-Sep-98	JAD

GEOMETRIDAE

<i>Alsophila pometaria</i> early	SONOMA: Kenwood, 404'	02-Jan-98	RHL
<i>Semiothisa napensis</i>	YOLO: Davis	05-Jun-98	JAD
<i>Semiothisa californiaria</i>	CONTRA COSTA: Kensington	31-Aug-98 - 09-Oct-98	RLL
<i>Stenoporpia pulchella</i> late	Riverside: Pinyon Crest, 4200'	27-Nov-98	RHL
<i>Pterotaea plagia</i>	SAN DIEGO: Scissors Crossing	13-Jun-98	RHL
<i>Erannis tiliaria vancouverensis</i> early	SONOMA: Kenwood, 404'	02-Jan-98	RHL
<i>Eudrepanulatrix rectifascia</i>	LAKE: SE slope of Mt Konocti	30-Mar-98	RLL
<i>Nacophora aetha</i>	San Bernardino: Grace Valley Ranch nr Onyx Summit	26-Jun-98	RHL
<i>Neoterpes edwardsata</i>	YOLO: Davis	30-May-98 - 17-Oct-98	JAD
<i>Xanthorhoe defensaria</i>	SAN BERNARDINO: Grace Valley Ranch, 8000'	27-Jun-98	RLL
<i>Operophtera occidentalis</i> early	SONOMA: Kenwood, 404'	02-Jan-98	RHL

SATURNIIDAE

<i>Coloradia velda</i>	San Bernardino: Grace Valley Ranch nr Onyx Summit	26-Jun-98	RHL
------------------------	---	-----------	-----

SPHINGIDAE

<i>Agrius cingulata</i>	KERN: Bakersfield, Norris School	08-Oct-87	KMR
<i>Arctonotus lucidus</i>	Kern: 2 mi E of Caliente, 1600'	22-Feb-91	KMR
<i>Proserpinus clarkiae</i>	Placer: Yankee Jim Road, 3 mi S of I-80, 1800'	21-Apr-98	RLL
<i>Hyles lineata</i>	YOLO: Davis	28-Jul-98	JAD

NOCTUIDAE

<i>Tetanolita palligera</i>	YOLO: Davis	28-Apr-98 - 30-Oct-98	JAD
<i>Tetanolita palligera</i>	CONTRA COSTA: Kensington	23-Sep-98	RLL
<i>Drasteria mirifica hastingsi</i>	SAN BERNARDINO: Grace Valley Ranch nr Onyx Summit	26-Jun-98	RHL
<i>Autoplusia egena</i>	YOLO: Davis	04-Oct-98 - 19-Oct-98	JAD
<i>Autographa californica</i>	SAN FRANCISCO: Twin Peaks & Golden Gate Park	27-Mar-98 - 05-Jun-98	RLL
<i>Alypia mariposa</i> diurnal	CONTRA COSTA: Mitchell Canyon, Mt Diablo	15-Jun-98	RLL
<i>Annaphila lithosina</i>	NEVADA: 1 mi E of Washington, 2600'	28-May-98	RLL
<i>Discestra chartaria</i>	YOLO: Davis	18-Apr-98 - 29-Jun-98	JAD
<i>Euxoa leuschneri</i>	San Bernardino: Grace Valley Ranch nr Onyx Summit	26-Jun-98	RHL

Heliothodes diminutivus	YOLO: Davis	11-Aug-98 - 13-Sep-98	JAD
Helicoverpa zea	CONTRA COSTA: Kensington	13-Jun-98 - 30-Aug-98	RLL
Heliothis subflexus	YOLO: Davis	06-Oct-98	JAD
Heliothis virescens	RIVERSIDE: Riverside, Arlington Heights	25-Jun-98	RLL

NEVADA

Included is only one COUNTY record for a butterfly, but several range extensions and new populations were found. Also, only one COUNTY record for a moth. Swisher (WLS) reported that the above average El Nino rains of 1998 resulted in spectacular wildflower displays in the Southwest. However, continual cold fronts hampered planning for the desired times of the season. Stanford (RES) reported that on 10 June with clouds brewing, two species were found very late which usually fly in March and April.

Butterflies

PIERIDAE

Euchloe hyantis lotta very late in the season	Storey: San Juan Hill, 5823', 2 mi W of Ramsey/Comstock	10-Jun-98	RES
Anthocharis cethura	Nye: Hill, 3650', 11mi SW of Scotty Junction	19-Apr-98	WLS
Anthocharis cethura first record for the Fish Valley, common	Esmeralda: Hill, 5300', 6 mi SE of Oasis	29-Apr-98	WLS
Anthocharis cethura fresh, very late in the season	STOREY: San Juan Hill, 5823', 2 mi W of Ramsey/Comstock	10-Jun-98	RES

LYCAENIDAE

Brephidium exile LATE in season, many adults, sunny cool, windy; surrounding vegetation seemed dry	Clark: Laughlin	17-Nov-98	RHL
---	-----------------	-----------	-----

NYMPHALIDAE

Thessalia leanira alma	Esmeralda: Hill, 5300', 6 mi SE of Oasis	29-Apr-98	WLS
------------------------	--	-----------	-----

Moths

ARCTIIDAE

Grammia oithona leg. Jason G. Ritz; deposited in BYU collection, Provo, Utah	LANDER: Big Creek cpd, S of Austin	30-Jul-98	RCM
---	------------------------------------	-----------	-----

Zone 4 Rocky Mountains

Alberta, Montana, Wyoming, Utah, Colorado, New Mexico

Coordinator: Ray E. Stanford

Contributors Cite

JKA : James K. Adams	KCB : Karolis C. Bagdonas	BKB : Barbara K. Bartell
RB : Richard W. Baumann	KB : Kathy Bollhoeffer	ROB : Richard Bray
BBB : Barton B. Brinkman	FMB : F. Martin Brown	EB : Evi Buckner
JB : Janis Burger	SJC : Steven J. Cary	JPC : Janet Chu
JAC : Joel Cox	ND : Nancy Daniel	DWD : Donald W. Davis
DD1 : Diane Debinski	PSD : Pat Druckenmiller	JDE : J. Donald Eff
SLE : Scott L. Ellis	CDF : Clifford D. Ferris	MSF : Michael S. Fisher
CFG : Clyde F. Gillette	JG : Jeff Glassberg	WJH : Wilford Hanson
CEH : Charles E. Harp	JLH : Jack L. Harry	DDH : Dorothy & Don Hoard
RWH : Richard W. Holland	JMJ : Joel M. Johnson	SAJ : Samuel A. Johnson
UK : Urling Kingery	GFK : George F. Knowlton	SJK : Steven J. Kohler
GL : Gary Lawson	RHL : Ron H. Leuschner	JNL : Jack Levy
RM : Randy Merker	CAM : Clifford Miles	GLM : Gene & Lynn Monroe
JM1 : Jean Morgan	RCM : Robert C. Mower	ARM : Alan R. Myrup
SMN : Mark Nelson	JKN : John Newlin	JO1 : Jim Oberfoell
PAO : Paul A. Opler	TWO : Tom W. Ortenburger	JP : John Pfeil
PMP : Phyllis M. Pineda	KMP : Kim Potter	WR : Bill Radke
JLR : John Richards	JAS : James A. Scott	SS : Sara Simonson
CPS : Charles P. Slater	AJS : Arthur J Snyder	SWS : Steve Sommerfeld
KAS : Kit Stanford	RES : Ray E. Stanford	PT1 : Paul Thompson
KBT : Kenneth B. Tidwell	RWW : Ralph Waldt	ADW : Andrew D. Warren
BW : Byron Weber	MFW : M. F. Whiting	EW : Ellery Worthen

General Comments:

General Comments: In my 20th year as Zone co-ordinator, I was very pleased to receive records from no fewer than 106 contributors. This is more than the previous high of 47 in 1994, and I wish to dedicate this year's Summary to these people as well as the nearly 200 others over the 20 years. Reasons behind this year's increase include the good work of State co-ordinators in MT (Steve Kohler), UT (Bob Mower), NM (Steve Cary), and for moths in the entire Zone (Paul Opler); increasing awareness of our project by students and teachers throughout the region; and the rapidly enlarging interest in Rocky Mountain moths. For the 20th consecutive year, records were received

from Cliff Ferris, Steve Kohler, Jim Scott, and my own family; I thank these people especially for their continuous support over 2 decades and longer. This year I will prepare and submit for publication in the News a summary of these 20+ years of faithful comradeship among our hundreds of Lepidopterists and their families and friends. A few preliminary stats are included below. It has truly been a lifetime event for me to have been a part of this important process, and I thank all of you from the soles of my feet to the thinning and greying hairs up top. I do not plan to quit yet, but volunteers younger than I are encouraged to submit ideas and/or names of potential successors/victims at any time.

Our Zone enjoyed one of the best years in the past quarter-century, with "El Nino" moisture throughout the season until late summer, but then drought which experts say will continue for one to several years in the southwestern quarter of the USA and adjacent Mexico.

Certainly, this is the driest and warmest winter in our 32 years living in Denver. In all there are 382 butterfly data and 415 moth data in this report [1336 and 1107 over the last 3 years], which shows the continuing advancement of knowledge of our moths. There were 3 STATE records for butterflies, and 35 for moths; 242 COUNTY records for butterflies and 377 for moths; 172 butterfly species [128 with CRs] and 175 moth species [150 with CRs]. Five moth species (Hyles euphorbiae, Schinia coerita, Schinia siren, Schinia diffusa, Schinia intermontana) are new for the entire zone. The average number of butterfly species per county in Zone 4 is now 107.6 [90.8% of projection], compared with 66.6 [56%] 20 years earlier, and with 122.8 [95.8%] currently for Zone 3 (AZ,CA,NV). No other Zones approach these numbers. Over the 20 years there have been 8394 CRs for 390 butterfly species. For those wishing to raise this over 400, here is a list of the 15 species appearing in one or more Zone 4 Summaries but NOT with new CRs during the same period: Thorybes bathyllus, Piruna polingii, Atrytonopsis deva, Amblyscirtes exotera, Agathymus mariae, A. evansi, Megathymus ursus, Eurema dina, Ministrymon azia, Callophrys nippon, Microtia elva, Enodia anthedon. A few "best ever" numbers include 1305 butterfly CRs in 1985, 268 butterfly species in 1986, 202 butterfly species with CRs in 1994, and 250 moth CR species in 1997. There were 18 early records and also 18 late records for butterflies in 1998, suggesting that it was neither an unusually early nor late season from Montana south through New Mexico. In 1998 we established an exception to the Law of Regressive Achievement, which states that "Last year's results are always better than this year's results". In today's parlance, we really kicked butt! Finally, this year we note the 95th birthday of Dr. Seuss [Theodor Seuss Geisel, MD], 1904-1991, who wrote "Oh me, Oh my, What Funnv Things Flv Bv".

(intermontana) are new for the entire zone. The average number of butterfly species per county in Zone 4 is now 107.6 [90.8% of projection], compared with 66.6 [56%] 20 years earlier, and with 122.8 [95.8%] currently for Zone 3 (AZ,CA,NV). No other Zones approach these numbers. Over the 20 years there have been 8394 CRs for 390 butterfly species. For those wishing to raise this over 400, here is a list of the 15 species appearing in one or more Zone 4 Summaries but NOT with new CRs during the same period: Thorybes bathyllus, Piruna polingii, Atrytonopsis deva, Amblyscirtes exotera, Agathymus mariae, A. evansi, Megathymus ursus, Eurema dina, Ministrymon azia, Callophrys nippon, Microtia elva, Enodia anthedon. A few "best ever" numbers include 1305 butterfly CRs in 1985, 268 butterfly species in 1986, 202 butterfly species with CRs in 1994, and 250 moth CR species in 1997. There were 18 early records and also 18 late records for butterflies in 1998, suggesting that it was neither an unusually early nor late season from Montana south through New Mexico. In 1998 we established an exception to the Law of Regressive Achievement, which states that "Last year's results are always better than this year's results". In today's parlance, we really kicked butt! Finally, this year we note the 95th birthday of Dr. Seuss [Theodor Seuss Geisel, MD], 1904-1991, who wrote "Oh me, Oh my, What Funnv Things Flv Bv".

(intermontana) are new for the entire zone. The average number of butterfly species per county in Zone 4 is now 107.6 [90.8% of projection], compared with 66.6 [56%] 20 years earlier, and with 122.8 [95.8%] currently for Zone 3 (AZ,CA,NV). No other Zones approach these numbers. Over the 20 years there have been 8394 CRs for 390 butterfly species. For those wishing to raise this over 400, here is a list of the 15 species appearing in one or more Zone 4 Summaries but NOT with new CRs during the same period: Thorybes bathyllus, Piruna polingii, Atrytonopsis deva, Amblyscirtes exotera, Agathymus mariae, A. evansi, Megathymus ursus, Eurema dina, Ministrymon azia, Callophrys nippon, Microtia elva, Enodia anthedon. A few "best ever" numbers include 1305 butterfly CRs in 1985, 268 butterfly species in 1986, 202 butterfly species with CRs in 1994, and 250 moth CR species in 1997. There were 18 early records and also 18 late records for butterflies in 1998, suggesting that it was neither an unusually early nor late season from Montana south through New Mexico. In 1998 we established an exception to the Law of Regressive Achievement, which states that "Last year's results are always better than this year's results". In today's parlance, we really kicked butt! Finally, this year we note the 95th birthday of Dr. Seuss [Theodor Seuss Geisel, MD], 1904-1991, who wrote "Oh me, Oh my, What Funnv Things Flv Bv".

(intermontana) are new for the entire zone. The average number of butterfly species per county in Zone 4 is now 107.6 [90.8% of projection], compared with 66.6 [56%] 20 years earlier, and with 122.8 [95.8%] currently for Zone 3 (AZ,CA,NV). No other Zones approach these numbers. Over the 20 years there have been 8394 CRs for 390 butterfly species. For those wishing to raise this over 400, here is a list of the 15 species appearing in one or more Zone 4 Summaries but NOT with new CRs during the same period: Thorybes bathyllus, Piruna polingii, Atrytonopsis deva, Amblyscirtes exotera, Agathymus mariae, A. evansi, Megathymus ursus, Eurema dina, Ministrymon azia, Callophrys nippon, Microtia elva, Enodia anthedon. A few "best ever" numbers include 1305 butterfly CRs in 1985, 268 butterfly species in 1986, 202 butterfly species with CRs in 1994, and 250 moth CR species in 1997. There were 18 early records and also 18 late records for butterflies in 1998, suggesting that it was neither an unusually early nor late season from Montana south through New Mexico. In 1998 we established an exception to the Law of Regressive Achievement, which states that "Last year's results are always better than this year's results". In today's parlance, we really kicked butt! Finally, this year we note the 95th birthday of Dr. Seuss [Theodor Seuss Geisel, MD], 1904-1991, who wrote "Oh me, Oh my, What Funnv Things Flv Bv".

(intermontana) are new for the entire zone. The average number of butterfly species per county in Zone 4 is now 107.6 [90.8% of projection], compared with 66.6 [56%] 20 years earlier, and with 122.8 [95.8%] currently for Zone 3 (AZ,CA,NV). No other Zones approach these numbers. Over the 20 years there have been 8394 CRs for 390 butterfly species. For those wishing to raise this over 400, here is a list of the 15 species appearing in one or more Zone 4 Summaries but NOT with new CRs during the same period: Thorybes bathyllus, Piruna polingii, Atrytonopsis deva, Amblyscirtes exotera, Agathymus mariae, A. evansi, Megathymus ursus, Eurema dina, Ministrymon azia, Callophrys nippon, Microtia elva, Enodia anthedon. A few "best ever" numbers include 1305 butterfly CRs in 1985, 268 butterfly species in 1986, 202 butterfly species with CRs in 1994, and 250 moth CR species in 1997. There were 18 early records and also 18 late records for butterflies in 1998, suggesting that it was neither an unusually early nor late season from Montana south through New Mexico. In 1998 we established an exception to the Law of Regressive Achievement, which states that "Last year's results are always better than this year's results". In today's parlance, we really kicked butt! Finally, this year we note the 95th birthday of Dr. Seuss [Theodor Seuss Geisel, MD], 1904-1991, who wrote "Oh me, Oh my, What Funnv Things Flv Bv".

(intermontana) are new for the entire zone. The average number of butterfly species per county in Zone 4 is now 107.6 [90.8% of projection], compared with 66.6 [56%] 20 years earlier, and with 122.8 [95.8%] currently for Zone 3 (AZ,CA,NV). No other Zones approach these numbers. Over the 20 years there have been 8394 CRs for 390 butterfly species. For those wishing to raise this over 400, here is a list of the 15 species appearing in one or more Zone 4 Summaries but NOT with new CRs during the same period: Thorybes bathyllus, Piruna polingii, Atrytonopsis deva, Amblyscirtes exotera, Agathymus mariae, A. evansi, Megathymus ursus, Eurema dina, Ministrymon azia, Callophrys nippon, Microtia elva, Enodia anthedon. A few "best ever" numbers include 1305 butterfly CRs in 1985, 268 butterfly species in 1986, 202 butterfly species with CRs in 1994, and 250 moth CR species in 1997. There were 18 early records and also 18 late records for butterflies in 1998, suggesting that it was neither an unusually early nor late season from Montana south through New Mexico. In 1998 we established an exception to the Law of Regressive Achievement, which states that "Last year's results are always better than this year's results". In today's parlance, we really kicked butt! Finally, this year we note the 95th birthday of Dr. Seuss [Theodor Seuss Geisel, MD], 1904-1991, who wrote "Oh me, Oh my, What Funnv Things Flv Bv".

(intermontana) are new for the entire zone. The average number of butterfly species per county in Zone 4 is now 107.6 [90.8% of projection], compared with 66.6 [56%] 20 years earlier, and with 122.8 [95.8%] currently for Zone 3 (AZ,CA,NV). No other Zones approach these numbers. Over the 20 years there have been 8394 CRs for 390 butterfly species. For those wishing to raise this over 400, here is a list of the 15 species appearing in one or more Zone 4 Summaries but NOT with new CRs during the same period: Thorybes bathyllus, Piruna polingii, Atrytonopsis deva, Amblyscirtes exotera, Agathymus mariae, A. evansi, Megathymus ursus, Eurema dina, Ministrymon azia, Callophrys nippon, Microtia elva, Enodia anthedon. A few "best ever" numbers include 1305 butterfly CRs in 1985, 268 butterfly species in 1986, 202 butterfly species with CRs in 1994, and 250 moth CR species in 1997. There were 18 early records and also 18 late records for butterflies in 1998, suggesting that it was neither an unusually early nor late season from Montana south through New Mexico. In 1998 we established an exception to the Law of Regressive Achievement, which states that "Last year's results are always better than this year's results". In today's parlance, we really kicked butt! Finally, this year we note the 95th birthday of Dr. Seuss [Theodor Seuss Geisel, MD], 1904-1991, who wrote "Oh me, Oh my, What Funnv Things Flv Bv".

<i>Pholisora catullus</i> High elevation record.	CLEAR CREEK: Mt. Evans Road, 12700'	31-Jul-83	CPS
<i>Ancyloxypha numitor</i>	WELD: West side of Greeley, 4780'	10-Jul-98	RES
<i>Ancyloxypha numitor</i>	MORGAN: Muir Springs Park, 4300', 3 mi NW of Ft Morgan	24-Aug-98	RES
<i>Hylephila phyleus</i> Common in NE CO and adjacent parts of NE, for first time on record.	LOGAN: Sterling city park, 3950'	25-Sep-98	RES
<i>Hylephila phyleus</i>	MORGAN: Fort Morgan, on marigold blossoms, 4350'	25-Sep-98	RES
<i>Hylephila phyleus</i> West range extension; not found in the Denver/Ft Collins area.	WELD: Hudson, 4995', on alfalfa blossoms	08-Oct-98	RES
<i>Hylephila phyleus</i>	YUMA: Wray, 3600', on marigold blossoms	09-Oct-98	RES
<i>Hesperia comma ochracea</i> South range extension on plains.	Elbert: CR 149 nr Horse Crk, 5800', 6 mi W of Kutch	27-Aug-98	RES
<i>Hesperia leonardus pawnee</i> Same. Crowley Co, just to the south, would be new.	Elbert: CR 149 nr Horse Crk, 5800', 6 mi W of Kutch	27-Aug-98	PMP
<i>Hesperia pahaska</i>	MORGAN: Wildcat Creek @ SR 52, 4450'	13-Jul-98	RES
<i>Hesperia viridis</i>	WELD: SR 71 @ Cedar Creek, 4900'	02-Jun-98	RES
<i>Hesperia viridis</i>	PHILLIPS: SR 59, 4028', 4 mi S of Haxtun	14-Jul-98	RES
<i>Hesperia viridis</i>	ADAMS: Alfalfa field nr Barr Lake, 5100'	13-Aug-98	RES
<i>Hesperia viridis</i>	MORGAN: Alfalfa field, 2 mi W of Ft. Morgan, 4350'	13-Aug-98	RES
<i>Hesperia viridis</i> Late record [previously 10 Sep]	Fremont: Temple Cn Park, Grape Creek	19-Sep-98	MSF
<i>Polites peckius</i>	LOGAN: Sterling city park, 3950'	24-Aug-98	RES
<i>Polites mystic</i>	Douglas: Castlewood Canyon SP, 6400', 5 mi S Franktown	01-Aug-98	RES
<i>Atrytone arogos</i>	GILPIN: N Clear Crk, 8000', 1 mi SE of Blackhawk	07-Jul-96	BBB
<i>Anatrytone logan lagus</i>	GILPIN: N Clear Crk, 7500', 4 mi SE of Blackhawk	06-Jul-97	RES
<i>Ochlodes sylvanoides</i> Common, fresh, photographed by several people on butterfly walk.	Douglas: Castlewood Canyon SP, 6400', 5 mi S Franktown	01-Aug-98	RES
<i>Ochlodes sylvanoides</i>	WELD: UNC campus, Greeley, 4700'	09-Aug-98	RES
<i>Poanes taxiles</i>	Douglas: Castlewood Canyon SP, 6400', 5 mi S Franktown	01-Aug-98	RES
<i>Euphyes bimacula</i>	WELD: West side of Greeley, 4780'	10-Jul-98	RES
<i>Euphyes vestris</i>	Douglas: Castlewood Canyon SP, 6400', 5 mi S Franktown	01-Aug-98	RES
<i>Megathymus yuccae</i> 1 worn female collected; only the second Douglas County record.	Douglas: Hidden Pointe area, 8-10 mi NNW Castle Rock	11-May-98	ADW
<i>Megathymus streckeri leussleri</i> 1 fresh female collected, a life subspecies for RES.	MORGAN: Wildcat Creek @ SR 52, 4450'	02-Jun-98	RES
PAPILIONIDAE			
<i>Papilio polyxenes asterius</i>	Douglas: Castlewood Canyon SP, 6400', 5 mi S Franktown	01-Aug-98	RES
<i>Papilio bairdii</i> form "brucei"; Only previous county record was the black phenotype.	LOGAN: CR 9 at Chalk Bluffs, hill 4900' 1 mi S of NE line	13-Jul-98	RES
<i>Papilio zelicaon</i> Both yellow and black phenotypes.	Logan: CR 9 at Chalk Bluffs, hill 4900' 1 mi S of NE line	02-Jun-98	RES
<i>Papilio zelicaon</i> 1 fresh male hilltopping; very late date, probably a rare 2nd brood.	Logan: CR 9 at Chalk Bluffs, hill 4900' 1 mi S of NE line	09-Aug-98	RES
<i>Papilio indra</i>	Boulder: Several records W of Boulder, 5700-5800'	27-May-98 - 30-May-98	PT1
<i>Papilio crespontes</i> Early record [previously 20 Jun]	Denver: Back yard, 720 Fairfax Street	31-May-98	RES
<i>Papilio crespontes</i> High elevation record.	GILPIN: SR 46, W of Golden Gate Cn SP, 8900'	31-Aug-98	BKB
<i>Papilio multicaudatus</i>	Douglas: Castlewood Canyon SP, 6400', 5 mi S Franktown	01-Aug-98	RES
PIERIDAE			
<i>Neophasia menapia</i> 1 female nectaring in late afternoon; mostly sparse limber pines.	WELD: CR105, 5455', 15 rd mi ENE of Hereford, in pines	09-Aug-98	RES
<i>Pontia beckerii</i> Very late record for E Slope [previously 18 Aug]; EAST range ext.	BACA: Carrizo Crk BLM PG, 4800', 23.5 mi W of Campo	18-Sep-98	RES
<i>Pontia occidentalis</i>	CHEYENNE: US 287, 4600', 3 mi N of Aroya, wetland area	16-Jul-98	RES
<i>Pieris rapae</i>	Douglas: Castlewood Canyon SP, 6400', 5 mi S Franktown	01-Aug-98	RES
<i>Colias philodice</i> Very early record [previously 3 Apr] and late for E. slope.	Larimer: Bonner Peak, 2 mi S of Livermore	22-Feb-98 - 03-Dec-98	SLE
<i>Colias eurytheme</i> Late record [previously 3 Dec; 4 Dec is my birthday!]	Arapahoe: DeLaney Farm Open Space	04-Dec-98	RES
<i>Colias alexandra</i> Late record [previously 22 Aug].	Douglas: Chatfield Reservoir SRA	01-Sep-75	MSF
<i>Colias alexandra</i>	MORGAN: Wildcat Creek @ SR 52, 4450'	02-Jun-98	RES
<i>Zerene cesonia</i>	Jefferson: Deer Creek Canyon	30-May-98	JAC
<i>Zerene cesonia</i> A good year for this stray species.	Douglas: Several localities	31-May-98 - 12-Aug-98	ADW
<i>Zerene cesonia</i> Late record [previously 3 Oct]	Prowers: Holly, 3390' [lowest elevation town in CO]	08-Oct-98	RES

Phoebis sennae	LOGAN: CR 9 at Chalk Bluffs, hill 4900' 1 mi S of NE line	13-Jul-98	RES
Phoebis sennae	Prowers: Lamar, 3600'	11-Oct-98	RES
Late record [previously 16 Sep]			
Nathalis iole	Jefferson: Deer Creek Canyon	30-May-98	JAC
LYCAENIDAE			
Lycaena dione	Douglas: Castlewood Canyon SP, 6400', 5 mi S Franktown	01-Aug-98	RES
Lycaena hyllus	CHEYENNE: US 287, 4600', 3 mi N of Aroya, wetland area	16-Jul-98	RES
Lycaena rubida	Douglas: Castlewood Canyon SP, 6400', 5 mi S Franktown	01-Aug-98	RES
Lycaena rubida	Larimer: Black Cn Trail, RMNP [photo]	05-Sep-98	GLM
Late record [previously 18 Aug]			
Lycaena helloides	BACA: Carrizo Crk BLM PG, 4800', 23.5 mi W of Campo	18-Sep-98	RES
Southeast range extension.			
Hypaurotis crysalus	Douglas: Hidden Pointe area, 8-10 mi NNW Castle Rock	04-Jul-98	ADW
Early record for East Slope [previously 5 Jul]			
Hypaurotis crysalus	Douglas: Castlewood Canyon SP, 6400', 5 mi S Franktown	01-Aug-98	RES
Abundant, our STATE insect photographed by several people.			
Satyrium titus	Jefferson: Clear Creek Canyon, 6950'	05-Jul-98	UK
One of our team that recorded 113 butterfly species in 1 day.			
Satyrium acadicum	Douglas: Hidden Pointe area, 8-10 mi NNW Castle Rock	02-Jul-98 - 13-Aug-98	ADW
This and next 2 species widely sympatric, with no intergrades.			
Satyrium californicum	Douglas: Hidden Pointe area, 8-10 mi NNW Castle Rock	04-Jul-98 - 19-Jul-98	ADW
A strong colony, with no Ceanothus in miles; LFP here unknown.			
Satyrium sylvinum	Douglas: Hidden Pointe area, 8-10 mi NNW Castle Rock	09-Jul-98 - 19-Jul-98	ADW
Early record [previously 10 Jul]			
Satyrium sylvinum	ELBERT: County Line Rd @ W Kiowa Creek	18-Jul-98 - 08-Aug-98	MSF
The 8 Aug capture was by RES, who missed the boat this time!			
Satyrium sylvinum	Douglas: Castlewood Canyon SP, 6400', 5 mi S Franktown	01-Aug-98	RES
Satyrium calanus godarti	Douglas: Hidden Pointe area, 8-10 mi NNW Castle Rock	18-Jun-98	ADW
Early record [previously 22 Jun]			
Satyrium calanus godarti	Douglas: Castlewood Canyon SP, 6400', 5 mi S Franktown	01-Aug-98	RES
Satyrium saepium	EL PASO: Hills W of Palmer Lake, 7800'	27-Jul-98	SAJ
1 male collected; abundant Ceanothus fendleri in vicinity.			
Ministrymon leda	BOULDER: 6 mi NW of Lyons, 6500'	03-Jul-98	GLM
Second State record, first from E slope. Good photos, det PAO/RES.			
Callophrys apama	Jefferson: Clear Creek Canyon, 6950'	05-Jul-98	JM1
One of our team that recorded 113 butterfly species in 1 day.			
Callophrys fotis	Mesa: Salt Crk Cn, 2 mi W of SR 141	02-May-98	SLE
Confirmatory county record [the earlier one, by RES, is a rag!]			
Strymon melinus	Douglas: Castlewood Canyon SP, 6400', 5 mi S Franktown	01-Aug-98	RES
Brephidium exile	Douglas: Daniels Park	12-Aug-98	ADW
Rare in 1998, but the first seen here in several years.			
Zizula cyna	BOULDER: Gregory Canyon, 6300', at wet sand	29-May-70	JDE
STATE RECORD; specimen at CU Museum, det RES 1998.			
Leptotes marina	COSTILLA: Near San Luis	08-Sep-98	JAS
Good flights nearly statewide, 27 May thru mid-Sep [JAS, RES, ADW].			
Everes comyntas	LOGAN: CR 9 at Chalk Bluffs, hill 4900' 1 mi S of NE line	13-Jul-98	RES
Everes amyntula	Douglas: Daniels Park, 62-6600', 10 mi NNW Castle Rock	15-Apr-98 - 12-Aug-98	ADW
Good spring flight; then fresh 2nd generation on 12 Aug.			
Celastrina neglecta humulus	Larimer: Lone Pine Creek, W of Livermore, 6240'	03-Jul-98	PMP
Northward range extension [would be WY STATE record].			
Celastrina neglecta humulus	WELD: Greeley, 4700'	10-Jul-98	RES
Northeast range extension.			
Euphilotes rita coloradensis	LOGAN: CR 9 at Chalk Bluffs, hill 4900' 1 mi S of NE line	13-Aug-98	RES
Northeast range extension.			
Lycaeides melissa	Hinsdale: S Spring Crk Pass, 10000'	28-Jul-98	MSF
Only second record from county.			
Lycaeides melissa	Douglas: Castlewood Canyon SP, 6400', 5 mi S Franktown	01-Aug-98	RES
Plebejus acmon texana	Douglas: Castlewood Canyon SP, 6400', 5 mi S Franktown	01-Aug-98	RES
Recently changed from "acmon" to lupini by J.A.Scott.			
NYMPHALIDAE			
Agraulis vanillae	Prowers: Lamar, 3600'	11-Oct-98	RES
Very late record [previously 6 Aug]			
Polygonia progne	Jefferson: Indian Peak	26-May-98	JAS
State record for typical subspecies; most are nigrozephyrus here.			
Polygonia progne nigrozephyrus	OURAY: 4 mi W of Ridgway, SR 62	11-Aug-94	MSF
Polygonia progne nigrozephyrus	Mesa: West Unaweep Cn	22-Aug-98	MSF
Nymphalis californica	Douglas: Hidden Pointe area, 8-10 mi NNW Castle Rock	11-Apr-98 - 10-May-98	ADW
One individual each date; no Ceanothus in miles.			

Nymphalis californica	Jefferson: Mt. Lindo	16-May-98	ADW
Over a dozen seen, perhaps a new state high number for one day.			
Nymphalis californica	EL PASO: Hills W of Palmer Lake, 7800', larvae collected	20-Jun-98	SAJ
On Ceanothus fendleri; adults emerged 30 Jun.			
Vanessa cardui	Douglas: Castlewood Canyon SP, 6400', 5 mi S Franktown	01-Aug-98	RES
Several seen; a poor year for this species in 1998			
Vanessa annabella	LOGAN: Sterling city park, 3950'	25-Sep-98	RES
Common on the CO prairies in 1998.			
Vanessa annabella	YUMA: Wray, 3600', on marigold blossoms	09-Oct-98	RES
Vanessa atalanta	Douglas: Castlewood Canyon SP, 6400', 5 mi S Franktown	01-Aug-98	RES
1 specimen seen; a very poor year for the Red Admiral in Colorado.			
Junonia coenia	WASHINGTON: Akron, 4700'	13-Jul-98	RES
Speyeria aphrodite	MORGAN: Wildcat Creek @ SR 52, 4450'	13-Jul-98	RES
Speyeria idalia	Douglas: Hidden Pointe area, 8-10 mi NNW Castle Rock	04-Jul-98	ADW
One fresh male on hilltop.			
Speyeria idalia	Larimer: Several habitats W of Ft Collins, under study	11-Jul-98 - 08-Aug-98	SLE
Breeding population on private property [SLE]; strays [RES].			
Speyeria idalia	WASHINGTON: Akron, 4700'	13-Jul-98	RES
Almost the only butterfly I have ever seen in this town !			
Speyeria idalia	WELD: SR 71 @ Cedar Creek, 4900'	13-Jul-98	RES
Speyeria idalia	ARAPAHOE: Cherry Creek SP	13-Jul-98	JAC
The best year for this species in eastern Colorado ever!			
Speyeria idalia	PHILLIPS: SR 59, 4028', 4 mi S of Haxtun	14-Jul-98	RES
Speyeria idalia	CHEYENNE: US 287, 4600', 3 mi N of Aroya, wetland area	16-Jul-98	RES
Speyeria idalia	DENVER: Denver Botanic Gardens, with Channel 4 News !	09-Aug-98	RES
Female seen by millions on evening news.			
Speyeria idalia	ADAMS: Alfalfa field nr Barr Lake, 5100'	13-Aug-98	RES
Speyeria idalia	CROWLEY: SR 71 at Lincoln Co line, 4780'	27-Aug-98	PMP
Joint sighting at close range with RES. SW range extension.			
Speyeria nokomis	COSTILLA: Near San Luis	07-Sep-98 - 10-Sep-98	JAS
First CR for this in many years; few if any more will ever be found.			
Speyeria edwardsii	BACA: Carrizo Crk BLM PG, 4800', 23.5 mi W of Campo	18-Sep-98	RES
Southeast range extension.			
Speyeria zerene sinope	WELD: SR 71 @ Cedar Creek, 4900'	13-Jul-98	RES
East range extension.			
Speyeria callippe meadii	Douglas: Hidden Pointe area, 8-10 mi NNW Castle Rock	04-Jul-98	RES
15 mile eastward range extension [unknown in Arapahoe and Elbert Counties]			
Speyeria atlantis hesperis	Douglas: Hidden Pointe area, 8-10 mi NNW Castle Rock	11-Jun-98 - 12-Jul-98	ADW
Early record [previously 12 Jun]			
Speyeria atlantis hesperis	Douglas: Castlewood Canyon SP, 6400', 5 mi S Franktown	01-Aug-98	RES
Very common, an especially good year for this species here.			
Speyeria atlantis hesperis	ELBERT: Peaceful Valley BSA Ranch, 7100'	08-Aug-98	RES
East range extension.			
Boloria selene tollandensis	Larimer: Shadow Mountain Dam, RMNP	30-Jun-98 - 19-Aug-96	ROB
Early record [previously 2 July for montane populations]			
Boloria bellona toddi	Larimer: Shadow Mountain Dam, RMNP	26-May-98 - 05-Sep-98	ROB
Early record [previously 28 May] and first records for second generation			
Phyciodes tharos	CUSTER: 5 mi NW of Beulah	23-Sep-98	JAS
Date and phenotype exclude the sympatric P. cocyta.			
Phyciodes pratensis camillus	LOGAN: S of Chalk Bluffs, CR 9, 4600'	02-Jun-98	RES
Northeast range extension.			
Phyciodes pratensis camillus	BACA: Carrizo Crk BLM PG, 4800', 23.5 mi W of Campo	18-Sep-98	RES
Southeast range extension.			
Phyciodes mylitta	PUEBLO: Boone, SR 96, 4525', on rabbitbrush	11-Oct-98	RES
Very late record [previously 19 Aug]			
Chlosyne gorgone	Douglas: Castlewood Canyon SP, 6400', 5 mi S Franktown	01-Aug-98	RES
Thessalia fulvia	DOUGLAS: Hidden Pointe area, 8-10 mi NNW Castle Rock	22-Aug-98	ADW
One fresh male on hilltop; rare eastward from this site.			
Limenitis archippus	Jefferson: Waterton Cn, S Platte River, 5600'	04-Jun-98	ADW
First modern record from Jefferson Co; 1 fresh male coll.			
Limenitis archippus	Douglas: Castlewood Canyon SP, 6400', 5 mi S Franktown	01-Aug-98	RES
A good year for the Viceroy on the Colorado plains.			
Adelpha bredowii eulalia	GILPIN: S side, Dory Hill, 8700' [no oaks in 30 miles]	31-May-98	RES
Stray, north range extension, high elevational record [female, coll.]			
Adelpha bredowii eulalia	Douglas: Castlewood Canyon SP, 6400', 5 mi S Franktown	01-Aug-98	RES
Adelpha bredowii eulalia	Mesa: West Unaweep Cn	22-Aug-98	MSF
1 fresh male taken at wet sand; another seen.			
Adelpha bredowii eulalia	COSTILLA: Near San Luis	07-Sep-98	JAS

Anaea andria	DOUGLAS: Hidden Pointe area, 8-10 mi NNW Castle Rock	11-Apr-98 - 20-May-98	ADW
Several collected; others seen on many dates in April and May.			
Satyroides eurydice	KIT CARSON: CR NN, 19 mi N of Bethune, S Fk Republican River	15-Jul-98	RES
Cercyonis pegala	Douglas: Castlewood Canyon SP, 6400', 5 mi S Franktown	01-Aug-98	RES
Abundant.			
Cercyonis oetus	Douglas: Castlewood Canyon SP, 6400', 5 mi S Franktown	01-Aug-98	RES
Erebia theano ethela	Garfield: near Twin Lakes, 11020', 79 individuals seen	25-Aug-98 - 27-Aug-98	KMP
Flat Tops Wilderness survey; confirms viable even-year population here			
Oeneis chryxus	RIO BLANCO: Baldy Mtn, 8500', White River NF	24-Jun-38	FMB
In collection of CPS, det CPS/RES 1998.			
Oeneis chryxus	Gilpin: Stanford cabin, Dory Hill, 8900'	05-Jul-98	TWO
One of our team that recorded 113 butterfly species in 1 day.			
Oeneis uhleri	Jefferson: "Phippsburg, CO" [obvious typo for Phillipsburg]	03-Jun-56	RES
We need to bury the "Phippsburg" [Routt Co.] datum as erroneous.			
Oeneis uhleri	Jefferson: Mt. Lindo	16-May-98	ADW
Danaus gilippus thersippus	Arapahoe: Cherry Creek SP	14-Jul-98	ADW
Also leg. JAC. Thersippus replaces strigosus as an earlier name [ref.].			
Moths			
TORTRICIDAE			
Pseudosciaphila duplex	GILPIN: S side, Dory Hill, 8900', at lights	05-Jul-98	RES
Rhyacionia fumosana	GILPIN: S side, Dory Hill, 8900', at lights	17-May-98	RES
PYRALIDAE			
Catoptria latiradiella	GILPIN: S side, Dory Hill, 8900', at lights	05-Jul-98	RES
THYRIDIDAE			
Thyris maculata	BOULDER: 6 mi NW of Lyons, 6500' [diurnal]	19-Jun-98	GLM
5 puddling on a damp gravelly road.			
PTEROPHORIDAE			
Platyptilia carduidactyla	GILPIN: S side, Dory Hill, 8900', at lights	05-Jul-98	RES
Oidaematophorus brucei	GILPIN: S side, Dory Hill, 8900', at lights	05-Jul-98	RES
GEOMETRIDAE			
Plagodis phlogosaria	GILPIN: S side, Dory Hill, 8900', at lights	05-Jul-98	RES
Enypia griseata	GILPIN: S side, Dory Hill, 8900', at lights	02-Aug-97	RES
Dysstroma citrata	Gilpin: S side, Dory Hill, 8900', at lights	06-Jul-97 - 31-Aug-97	RES
Late record			
Eulithis xylina	Gilpin: S side, Dory Hill, 8900', at lights	06-Jul-97 - 31-Aug-97	RES
Late record			
Ecliptopera silaceata	GILPIN: S side, Dory Hill, 8900', at lights	05-Jul-98	RES
Hydriomena perfracta	Gilpin: S side, Dory Hill, 8900', at lights	05-Jul-98	RES
First record since 1993.			
Spargania magnoliata	GILPIN: S side, Dory Hill, 8900', at lights	05-Jul-98	RES
Epirrhoe alternata	GILPIN: S side, Dory Hill, 8900', at lights	05-Jul-98	RES
Operophtera bruceata	GILPIN: S side, Dory Hill, 8900', at lights	11-Oct-96	RES
SATURNIIDAE			
Hyalophora columbia gloveri	Larimer: Bonner Peak, 2 mi S of Livermore	17-May-98	SLE
Several adults clinging to Cercocarpus montanus and other shrubs.			
SPHINGIDAE			
Hemaris diffinis	Douglas: Castlewood Canyon SP, 6400', 5 mi S Franktown	01-Aug-98	RES
Hyles lineata	SEDGWICK: Julesburg, 3511'	24-Aug-98	RES
Hyles lineata	WASHINGTON: Akron, 4700'	24-Aug-98	RES
Hyles lineata	LOGAN: Sterling city park, 3950'	24-Aug-98	RES
Hyles lineata	ELBERT: CR 149 nr Horse Crk, 5800', 6 mi W of Kutch	27-Aug-98	PMP
NOTODONTIDAE			
Gluphisia severa	GILPIN: S side, Dory Hill, 8900', at lights	17-May-98	RES
Furcula scolopendrina	Gilpin: S side, Dory Hill, 8900', at lights	05-Jul-98	RES
Oligocentria perangulata	GILPIN: S side, Dory Hill, 8900', at lights	05-Jul-98	RES
ARCTIIDAE			
Lycomorpha pholus	Boulder: Rabbit Mountain	09-Jul-98	GLM
Holomelina fragilis	WELD: SR 71 @ Cedar Creek, 4900'	13-Jul-98	RES
Holomelina fragilis	MORGAN: Wildcat Creek @ SR 52, 4450'	13-Jul-98	RES
Holomelina fragilis	LOGAN: CR 9 at Chalk Bluffs, hill 4900' 1 mi S of NE line	13-Jul-98	RES
Holomelina fragilis	SEDGWICK: CR 11, 3900', 5.5 mi N of Sedgwick	13-Jul-98	RES
Holomelina fragilis	PHILLIPS: SR 59, 4028', 4 mi S of Haxtun	14-Jul-98	RES
Holomelina fragilis	YUMA: Wray, 3600'	14-Jul-98	RES
Holomelina fragilis	KIT CARSON: CR NN, 19 mi N of Bethune, S Fk Republican River	15-Jul-98	RES
Lophocampa argentata	BOULDER: 6 mi NW of Lyons, 6500'	10-Jul-98	GLM
pupated 30 May - 14 Jun; emerged 10 - 16 Jul 98.			
Aemilia ambigua	Gilpin: S side, Dory Hill, 8900', at lights	05-Jul-98	RES

<i>Ctenucha cressonana</i> ?Early record.	BOULDER: 6 mi NW of Lyons, 6500'	07-Jun-98	GLM
<i>Cisseps fulvicollis</i>	ELBERT: County Line Rd @ W Kiowa Creek	08-Aug-98	RES
<i>Cisseps fulvicollis</i>	DOUGLAS: SR 83 @ Douglas/EI Paso county line, 7300'	08-Aug-98	RES
<i>Cisseps fulvicollis</i>	EL PASO: SR 83 @ Douglas/EI Paso county line, 7300'	08-Aug-98	RES
NOCTUIDAE			
<i>Scoliopteryx libatrix</i> Thanks to PAO for this and most other determinations of my moths	GILPIN: S side, Dory Hill, 8900', at lights	05-Jul-98	RES
<i>Synedoida howlandi</i>	ARAPAHOE: I-70 rest stop lights, milepost 331, 5317'	19-Aug-98	CEH
<i>Synedoida tejonica</i>	LINCOLN: Limon, at fluorescent store lights	19-Aug-98	CEH
<i>Ascalapha odorata</i> One found roosting in a highway culvert.	Jefferson: Clear Creek Canyon at Indian Gulch, 6100'	05-Jul-98	ADW
<i>Ascalapha odorata</i> Late record; collected dead, but still soft enough to spread.	Denver: In shop window, East Denver	13-Oct-98	RES
<i>Caenurgina crassiuscula</i>	MORGAN: Wildcat Creek @ SR 52, 4450'	13-Jul-98	RES
<i>Caenurgina crassiuscula</i>	DOUGLAS: Castlewood Canyon SP, 6400', 5 mi S Franktown	01-Aug-98	RES
<i>Caenurgina crassiuscula</i>	ELBERT: County Line Rd @ W Kiowa Creek	08-Aug-98	RES
<i>Caenurgina crassiuscula</i>	EL PASO: SR 83 @ Douglas/EI Paso county line, 7300'	08-Aug-98	RES
<i>Catocala aholibah</i> Several seen flying among the Gambel Oaks.	Douglas: Castlewood Canyon SP, 6400', 5 mi S Franktown	01-Aug-98	RES
<i>Catocala grotiana</i> Late date for our locality.	Gilpin: S side, Dory Hill, 8900', at lights	12-Sep-98	RES
<i>Anagrapha falcifera</i>	GILPIN: S side, Dory Hill, 8900', at lights	05-Jul-98	RES
<i>Syngrapha sackenii</i>	GILPIN: S side, Dory Hill, 8900', at lights	05-Jul-98	RES
<i>Euscirrhopterus gloveri</i>	LINCOLN: Limon, at fluorescent store lights	19-Aug-98	CEH
<i>Apamea auranticolor</i>	Gilpin: S side, Dory Hill, 8900', at lights	05-Jul-98 - 02-Aug-97	RES
<i>Crymodes devastator</i>	Denver: At lights, 720 Fairfax Street.	06-Jul-98	KAS
<i>Enargia decolor</i> Early date; common.	Gilpin: S side, Dory Hill, 8900', at lights	23-Aug-98	RES
<i>Ipimorpha pleonectusa</i> Late date for our locality.	Gilpin: S side, Dory Hill, 8900', at lights	16-Aug-97 - 31-Aug-97	RES
<i>Andropolia contacta</i>	GILPIN: S side, Dory Hill, 8900', at lights	12-Sep-98	RES
<i>Hyppa xylinoides</i>	Gilpin: S side, Dory Hill, 8900', at lights	05-Jul-98	RES
<i>Plagiomimicus pityochromus</i>	ARAPAHOE: I-70 rest stop lights, milepost 331, 5317'	19-Aug-98	CEH
<i>Xylena cineritia</i>	GILPIN: S side, Dory Hill, 8900', at lights	17-May-98	RES
<i>Homoglaea carbonaria</i>	GILPIN: S side, Dory Hill, 8900', at lights	17-May-98	RES
<i>Litholomia napaea</i>	GILPIN: S side, Dory Hill, 8900', at lights	17-May-98	RES
<i>Cucullia speyeri dorsalis</i>	GILPIN: S side, Dory Hill, 8900', at lights	05-Jul-98	RES
<i>Cucullia asteroides</i> Rare in Colorado fide PAO.	GILPIN: S side, Dory Hill, 8900', at lights	05-Jul-98	RES
<i>Discestra farnhami</i>	GILPIN: S side, Dory Hill, 8900', at lights	05-Jul-98	RES
<i>Mamestra configurata</i>	Denver: At lights, 720 Fairfax Street.	30-May-98	RES
<i>Polia discalis</i>	GILPIN: S side, Dory Hill, 8900', at lights	05-Jul-98	RES
<i>Lacinipolia naevia</i> Late date for our locality.	Gilpin: S side, Dory Hill, 8900', at lights	05-Jul-98	RES
<i>Leucania commoides</i>	GILPIN: S side, Dory Hill, 8900', at lights	05-Jul-98	RES
<i>Nephelodes minians</i>	GILPIN: S side, Dory Hill, 8900', at lights	23-Aug-98	RES
<i>Homorthodes reliqua</i> Rare in Colorado fide PAO.	GILPIN: S side, Dory Hill, 8900', at lights	05-Jul-98	RES
<i>Agrotis stigmosa</i>	GILPIN: S side, Dory Hill, 8900', at lights	05-Jul-98	RES
<i>Agrotis ipsilon</i>	GILPIN: S side, Dory Hill, 8900', at lights	23-Aug-98	RES
<i>Euxoa divergens</i>	GILPIN: S side, Dory Hill, 8900', at lights	05-Jul-98	RES
<i>Euxoa auxiliaris</i> Apparent "2nd generation" was downslope migrants [PAO]	Denver: At lights, 720 Fairfax Street.	30-May-98 - 03-Sep-98	RES
<i>Euxoa auxiliaris</i>	Gilpin: S side, Dory Hill, 8900', at lights	05-Jul-98	RES
<i>Eurois occulta</i>	GILPIN: S side, Dory Hill, 8900', at lights	23-Aug-98	RES
<i>Xestia bolteri</i>	GILPIN: S side, Dory Hill, 8900', at lights	05-Jul-98	RES
<i>Xestia oblata</i>	Gilpin: S side, Dory Hill, 8900', at lights	06-Jul-97	RES
<i>Paradiarsia littoralis</i>	Gilpin: S side, Dory Hill, 8900', at lights	06-Jul-97	RES
<i>Protoschinia nuchalis</i>	LINCOLN: Limon, at fluorescent store lights	19-Aug-98	CEH
<i>Schinia masoni</i>	Boulder: Rabbit Mountain	12-Jun-98	GLM
<i>Schinia siren</i> STATE record.	LINCOLN: Limon, at fluorescent store lights	19-Aug-98	CEH
<i>Schinia bicuspida</i>	LINCOLN: Limon, at fluorescent store lights	19-Aug-98	CEH
<i>Schinia errans</i>	LINCOLN: Limon, at fluorescent store lights	19-Aug-98	CEH
<i>Schinia mortua</i>	LINCOLN: Limon, at fluorescent store lights	19-Aug-98	CEH
<i>Schinia jaguarina</i>	LINCOLN: Limon, at fluorescent store lights	19-Aug-98	CEH

Schinia oleagina First Colorado prairie record.	LINCOLN: Limon, at fluorescent store lights	19-Aug-98	CEH
Schinia simplex	ARAPAHOE: Aurora, nr intersection of Mississippi/Peoria	08-Jul-98	CEH
Schinia regia	LINCOLN: Limon, at fluorescent store lights	19-Aug-98	CEH
Schinia gaurae	LINCOLN: Limon, at fluorescent store lights	19-Aug-98	CEH
Schinia meadi	Lincoln: Limon, at fluorescent store lights	19-Aug-98	CEH
Schinia terttia	LINCOLN: Limon, at fluorescent store lights	19-Aug-98	CEH
Schinia terttia	ARAPAHOE: I-70 rest stop lights, milepost 331, 5317'	19-Aug-98	CEH
Schinia diffusa STATE record.	LINCOLN: Limon, at fluorescent store lights	19-Aug-98	CEH
Schinia walsinghami	LINCOLN: Limon, at fluorescent store lights	19-Aug-98	CEH
Schinia walsinghami First Colorado prairie record.	ARAPAHOE: I-70 rest stop lights, milepost 331, 5317'	19-Aug-98	CEH
Schinia coercita STATE record.	LINCOLN: Limon, at fluorescent store lights	19-Aug-98	CEH
Schinia cumatilis	ARAPAHOE: I-70 rest stop lights, milepost 331, 5317'	19-Aug-98	CEH
Schinia reniformis	LINCOLN: Limon, at fluorescent store lights	19-Aug-98	CEH
Schinia obliqua	LINCOLN: Limon, at fluorescent store lights	19-Aug-98	CEH
Schinia ciliata	LINCOLN: Limon, at fluorescent store lights	19-Aug-98	CEH
Schinia citrinella	Lincoln: Limon, at fluorescent store lights	19-Aug-98	CEH

MONTANA

A new record high of 14 people sent in reports for 1998; the previous high was 13 in 1982, the year the national meeting was held in Great Falls [just kidding!]. It was a wet and delayed season, with many species flying as much as a month late. BUTTERFLIES: 128 total data, 1 STATE record and westward range extension [Polygonia comma], 123 COUNTY records, 76 species, 74 CR species. Currently there are 188 species known from MT, 10 species known from all 56 counties, and 85.9 avg spp/co = 87.8% of projection. Expected species, not yet recorded from Montana, include Erynnis juvenalis, Hesperia dacotae, Atalopedes campestris, Poanes hobomok, Satyrium californicum, Everes comyntas, Polygonia interrogationis, Asterocampa celtis, Enodia anthedon, Megisto cymela, and Oeneis polixenes. MOTHS: 112 total data, 14 STATE records, 106 COUNTY records, 57 species, 53 CR species. We are several years from establishing projections for MT moths, but Chuck Harp and others are making an excellent start.

Butterflies

HESPERIIDAE

Epargyreus clarus	MEAGHER: US 12 at White Sulphur Spgs, 5000'	21-Jun-98	RES
Thorybes pylades	WIBAUX: Pines Unit Oil Field, 12/57/20, 2870'	31-May-98	JO1
Thorybes pylades Leg. Will Kerling	MISSOULA: Mount Jumbo, near Missoula	04-Jul-98	SJK
Erynnis pacuvius lilius Sympatric with E. icelus, E. persius, E. afranius, all fresh; elev. 52-6200'.	TETON: S Fk Teton River, 2-6.5 mi W Pine Butte Rch	23-Jun-98	RES
Erynnis persius fredericki Leg. CEH/CLH/ch	BIG HORN: Sage Creek, S of Prior; common	10-May-98	CEH
Pholisora catullus	STILLWATER: 6 mi N of Park City, in canyon, 3500'	17-May-98	CEH
Oarisma garita	FALLON: SR 7 nr Ollie Road, 3400', 16 mi N of Baker	19-Jun-98	SJK
Oarisma garita	WHEATLAND: US 191 at Sweet Grass Co line, 4800'	21-Jun-98	RES
Oarisma garita	JUDITH BASIN: 15 mi SW of Utica, 4800', roadside grassland	28-Jun-98	RES
Hesperia uncas	PHILLIPS: 1.5 mi N of Dodson	20-May-98	SJK
Hesperia uncas Leg CLH/CH/ch	CARBON: SE of Bridger @ Bowler, nectaring on Erigeron	06-Jun-98	CEH
Hesperia uncas Leg A. Showatter.	Carbon: US 212, S of Red Lodge, Beartooth Plateau	15-Aug-98	SJK
Hesperia juba	Lewis & Clark: Little Prickley Pear Cr, 20 mi NW of Helena	06-Sep-96	SJK
Hesperia juba Previous "dot" was a misdetermination, fide SJK [it is H. nevada]	BIG HORN: Sage Creek, S of Prior	18-May-98	SJK
Hesperia ottoe ? Late record; nearly time for H. leonardus pawnee there.	DAWSON: 3-5 mi S of Glendive	07-Aug-98	SJK
Hesperia pahaska	WIBAUX: Pines Unit Oil Field, 12/57/20, 2870'	31-May-98	JO1
Hesperia pahaska Westward range extension.	SWEET GRASS: Breaks E of US 191, 5100', 28 mi N Big Timber	28-Jun-98	RES
Hesperia pahaska Westward range extension.	WHEATLAND: Breaks W of US 191, 4950', 13 mi S Harlowton	28-Jun-98	RES
Hesperia nevada	JUDITH BASIN: 15 mi SW of Utica, 4800', roadside grassland	28-Jun-98	RES
Polites sabuleti Two generations; May record was by Will Kerling.	RAVALLI: Near Willoughby Crk, 4 mi SE of Stevensville	30-May-98 - 18-Sep-98	SJK
Polites draco	LIBERTY: Breed Crk, E Butte, Sweetgrass Hills	11-Jun-98	BW
Polites draco	PONDERA: 8.3 mi WSW of Dupuyer, 4650'	25-Jun-98	RES
Polites peckius	TETON: Choteau, 3810'	25-Jun-98	RES
Polites peckius	CARTER: Nr Camp Needmore, 3750', 5.5 mi SE Ekalaka	15-Jul-98	SJK
Polites peckius	FALLON: Coulee N of Medicine Rocks, 3185'	15-Jul-98	SJK
Polites themistocles	MEAGHER: US 89 @ Allen Gulch Rd [FR 836], 6100'	21-Jun-98	RES

Polites mystic ? Late record.	FALLON: Coulee N of Medicine Rocks, 3185'	15-Jul-98	SJK
Anatrytone logan	CARTER: Nr Camp Needmore, 3750', 5.5 mi SE Ekalaka	15-Jul-98	SJK
Anatrytone logan	FALLON: Coulee N of Medicine Rocks, 3185'	15-Jul-98	SJK
Ochlodes sylvanoides	DAWSON: 3-5 mi S of Glendive	07-Aug-98	SJK
Atrytonopsis hianna	BLAINE: Near Lohman	20-May-98	SJK
Atrytonopsis hianna	PHILLIPS: 1.5 mi N of Dodson	20-May-98	SJK
Amblyscirtes oslari	HILL: Badlands NW of Havre, 2760'	08-May-98	GL
Megathymus streckeri leussleri	HILL: Hills SW of Havre, 3100'	08-Jun-98	GL
PAPILIONIDAE			
Papilio bairdii yellow form; early record	WIBAUX: Pines Unit Oil Field, 12/57/20, 2870'	31-May-98	JO1
Papilio zelicaon yellow form	WHEATLAND: Deadmans Basin Rsvr, 3890', 5 mi E Shawmut	28-Apr-98	CEH
Papilio zelicaon Both yellow and black forms	WIBAUX: Pines Unit Oil Field, 12/57/20, 2870'	29-May-98	JO1
Papilio canadensis	LIBERTY: Breed Crk, E Butte, Sweetgrass Hills	11-Jun-98	BW
Papilio canadensis	TETON: Pine Butte Ranch, 5100'	24-Jun-98	RES
Papilio canadensis	PONDERA: 8.3 mi WSW of Dupuyer, 4650'	25-Jun-98	RES
Papilio rutulus	TETON: Pine Butte Ranch, 5100'	24-Jun-98	RES
Papilio rutulus	WHEATLAND: Harlowton, 4300'	28-Jun-98	RES
Papilio multicaudatus	LIBERTY: Breed Crk, E Butte, Sweetgrass Hills	11-Jun-98	BW
Papilio multicaudatus	WIBAUX: Pines Unit Oil Field, 12/57/20, 2870'	16-Jun-98	JO1
Papilio multicaudatus	DAWSON: 3-5 mi S of Glendive	14-Jul-98	SJK
Papilio multicaudatus	CUSTER: 11 mi E of Miles City	17-Jul-98	SJK
Papilio eurymedon	TETON: S Fk Teton River, 6200', Headq. Pass Trailhead	27-Jun-91	RWW
Also RES sighting, 23 Jun 98, Pine Butte Ranch, 5100'.			
PIERIDAE			
Pontia sisymbrii Would be ND STATE record !	WIBAUX: Pines Unit Oil Field, 12/57/20, 2870'	29-Apr-98	JO1
Pontia sisymbrii Would be SASK Provincial record!	HILL: Beaver Creek, 3300', S of Havre	16-May-98	GL
Pontia protodice	BROADWATER: Near Toston	15-Jul-83	SJK
Pontia protodice Northeast range extension.	SHERIDAN: Medicine Lake	04-Jul-85	SJK
Pontia protodice	LIBERTY: Near Chester	18-Aug-86	SJK
Colias alexandra	SWEET GRASS: US 191, 5200', 9 mi N of Sweetgrass Creek	21-Jun-91	RES
Colias alexandra	VALLEY: Bjornberg Bridge, NW of Hinsdale	20-May-98	SJK
Colias alexandra	BLAINE: Northeast of Chinook	21-May-98	SJK
Colias christina astraea Life species for RES! AKA pseudochristina, occidentalis, . . .	Meagher: Shale slopes, US 89, 5750', nr Newlan Creek Rd	21-Jun-98	RES
Colias interior	HILL: Miners Gulch, Beaver Crk Cn, S of Havre, 3300'	20-Jul-97	GL
Colias gigantea Leg. Doug Mullins.	CARBON: Beartooth Plateau	05-Jul-81	SJK
LYCAENIDAE			
Lycaena dione	CARTER: Lower coulee, Medicine Rocks	15-Jul-98	SJK
Lycaena dione	FALLON: Coulee N of Medicine Rocks, 3185'	15-Jul-98	SJK
Lycaena hyllus	TREASURE: Near Hysham	18-Jun-98	SJK
Lycaena rubida	FALLON: Coulee N of Medicine Rocks, 3185'	15-Jul-98	SJK
Lycaena rubida	CARTER: Lower coulee, Medicine Rocks	15-Jul-98	SJK
Satyrium acidicum	CARTER: Lower coulee, Medicine Rocks	15-Jul-98	SJK
Satyrium acidicum	FALLON: Coulee N of Medicine Rocks, 3185'	15-Jul-98	SJK
Callophrys affinis	JUDITH BASIN: 15 mi SW of Utica, 4800', roadside grassland	28-Jun-98	RES
Callophrys affinis	WHEATLAND: Breaks W of US 191, 4950', 13 mi S Harlowton	28-Jun-98	RES
Callophrys sheridanii neoperplexa	YELLOWSTONE: 8 mi N of Laurel, 3380', off SR 532 in canyons	22-Apr-98	CEH
Callophrys spinetorum	TETON: Pine Butte Ranch, 5100'	23-Jun-98	RES
There is an earlier record, same locality, 21 Jun 1988, Jim Oberfoell.			
Everes amyntula	TOOLE: Sheep Crk, M Butte, Sweetgrass Hills	10-Jun-98	BW
Everes amyntula	LIBERTY: Breed Crk, E Butte, Sweetgrass Hills	11-Jun-98	BW
Euphilotes battoides oregonensis	SANDERS: 4.5 mi N of Camas Prairie	05-May-98 - 20-May-97	SJK
Euphilotes ancilla	TETON: Pine Butte Ranch, 5100'	23-Jun-98	RES
There is an earlier record, just received, Teton Cn, 11 Jul 89, Jim Oberfoell.			
Lycæides idas atrapraetextus	TETON: Pine Butte Ranch, 5100'	23-Jun-98	RES
There is an earlier record, just received, Teton Cn, 17 Jun 63, Jim Oberfoell.			
Plebejus icarioides	WIBAUX: Pines Unit Oil Field, 12/57/20, 2870'	31-May-98	JO1
Plebejus shasta	WIBAUX: Pines Unit Oil Field, 12/57/20, 2870'	12-Jun-98	JO1
Plebejus shasta minnehaha	TETON: Kiosk Ridge and Pine Butte, both badlands	17-Jul-98	PSD
Major filler records; this badland species is obviously widespread in MT.			

Plebejus acmon	VALLEY: 1 mi S of Hinsdale	20-May-98	SJK
All MT "acmon" are now classified as lupini; subspecies detts will help.			
Plebejus acmon spangelata	MADISON: Lone Mountain, 9200', on rockslides	12-Aug-98	PAO
STATE record for phenotype. Associated with Eriogonum umbellatum.			
Agriades rusticus	TETON: Wetland/grassland near Pine Butte, 4500'	23-Jun-98	PSD
RIODINIDAE			
Apodemia mormo	DAWSON: Near Radio Hill, 4 mi S of Glendive	08-Aug-98	SJK
Northeast range extension.			
NYMPHALIDAE			
Polygona comma	CARTER: Nr Camp Needmore, 3750', 5.5 mi SE Ekalaka	16-Jul-98	SJK
STATE record, western range extension.			
Polygona satyrus	LIBERTY: 0.5 mi N of Whitlash	09-May-98 - 12-Sep-98	BW
Polygona zephyrus	ROSEBUD: Butte Crk Rd, SE of Rosebud	22-Apr-98	SJK
Early record for eastern MT.			
Polygona zephyrus	CARTER: Nr Camp Needmore, 3750', 5.5 mi SE Ekalaka	16-Jul-98	SJK
Polygona progne	POWDER RIVER: SW of Volborg	03-Sep-93	SJK
Not intermediate to oreas, as earlier speculated by RES!			
Polygona progne	DAWSON: 3-5 mi S of Glendive	14-Jul-98	SJK
Northeast range extension.			
Nymphalis californica	JEFFERSON: Nez Perce Creek, 12 mi NE of Butte	22-Jul-61	JKN
Nymphalis californica	SILVER BOW: Hail Columbia Gulch, 10 mi N of Butte	22-Jul-61	JKN
Euptoieta claudia	DEER LODGE: FR 683, 2 mi E of Silver Lake	08-Jul-98	SJK
Euptoieta claudia	JEFFERSON: Whitetail Rd, 2.5 mi NW of Whitehall	28-Aug-98	SJK
Speyeria cybele	FALLON: West of Plevna	15-Jul-98	SJK
Speyeria coronis	GARFIELD: Musselshell River bluffs, N of Mosby	18-Aug-98	SJK
Northeast range extension.			
Speyeria coronis snyderi	SILVER BOW: Hail Columbia Gulch, 10 mi N of Butte	22-Jul-61 - 04-Aug-61	JKN
Speyeria callippe gallatini	PONDERA: 8.3 mi WSW of Dupuyer, 4650'	25-Jun-98	RES
Speyeria atlantis hutchinsi	Teton: Wetland/grassland near Pine Butte, 4500'	23-Jun-98	PSD
Speyeria atlantis hutchinsi	Pondera: 8.3 mi WSW of Dupuyer, 4650'	25-Jun-98	RES
Boloria selene	FALLON: Coulee N of Medicine Rocks, 3185'	15-Jul-98	SJK
Boloria frigga	GALLATIN: Bacon Rind Crk, NE of Hebgen Lake	10-Jul-93	DD1
Eastern/southeastern range extension.			
Boloria freija	GALLATIN: Teepee Crk Rd, NE of Hebgen Lake	21-Jun-98	DD1
Phyciodes tharos	DEER LODGE: Galen	10-Aug-83	SJK
Phyciodes tharos	GRANITE: Drummond	05-Aug-85	SJK
Westward range extension.			
Phyciodes tharos	BROADWATER: Hellgate Gulch, 26 mi N of Townsend	17-May-92	SJK
Leg. Bea Vogel.			
Phyciodes tharos	POWELL: 7 mi S of Helmsville	01-Jun-95	SJK
Phyciodes tharos	LEWIS & CLARK: Helena	11-Jun-95	SJK
Leg. Bea Vogel.			
Phyciodes cocyta	BIG HORN: Near Pryor	10-Jul-72	SJK
Eastern/southeastern range extension.			
Phyciodes cocyta	DANIELS: 5 km N of Scoby	01-Aug-80	SJK
Leg. Gary Anweiler.			
Phyciodes cocyta	SHERIDAN: 1 mi S of Antelope	04-Jul-85	SJK
Northeast range extension.			
Phyciodes cocyta	TETON: Wetland/grassland near Pine Butte, 4500'	23-Jun-98	PSD
Earlier record recently received: near same place, 21 Jul 83, SJK.			
Phyciodes cocyta	PONDERA: 8.3 mi WSW of Dupuyer, 4650'	25-Jun-98	RES
Earlier record recently received: near same place, 13 Jul 83, SJK.			
Phyciodes cocyta	WHEATLAND: Breaks W of US 191, 4950', 13 mi S Harlowton	28-Jun-98	RES
Phyciodes batesii	PONDERA: Dry Fork Creek, S of Dupuyer	13-Jun-83	SJK
Westward range extension.			
Phyciodes batesii	MUSSELSHELL: Bull Mountains	11-Jun-87	SJK
Important filler record for this difficult, late-spring-flying species.			
Phyciodes mylitta	TETON: Egg Mountain dinosaur dig, 11.5 mi W Choteau	24-Jun-98	PSD
Chlosyne gorgone	BLAINE: 3 mi N of Savoy	21-May-98	SJK
Northwest range extension.			
Chlosyne palla calydon	TETON: Pine Butte Ranch, 5100'	23-Jun-98	PSD
There is an earlier record, same locality, 2 Jul 63, Jim Oberfoell.			
Chlosyne whitneyi damoetas	MADISON: Lone Mountain, 9200', on rockslides	12-Aug-98	PAO
Southwestern range extension.			
Chlosyne acastus	STILLWATER: 6 mi N of Park City, in canyon, 3500'	17-May-98	CEH
Euphydryas anicia howlandi	WHEATLAND: Breaks W of US 191, 4950', 13 mi S Harlowton	28-Jun-98	RES
Euphydryas editha hutchinsi	BIG HORN: Sage Creek, S of Pryor, below bluffs	10-May-98	CEH
Eastern/southeastern range extension.			

Limnitis archippus	TETON: Choteau, 3810', along river with willows	25-Jun-98	RES
Limnitis weidemeyerii	TETON: Pine Butte Ranch, 5100', at wet mud [photo]	17-Jun-91	RWW
Limnitis weidemeyerii	PONDERA: Dry Forks, 3534', 3 mi NW of Conrad	24-Jun-98	RES
Limnitis weidemeyerii	WHEATLAND: Breaks W of US 191, 4950', 13 mi S Harlowton	28-Jun-98	RES
Limnitis weidemeyerii	FALLON: W of Plevna, 2800'	15-Jul-98	SJK
Limnitis weidemeyerii	CARTER: Nr Camp Needmore, 3750', 5.5 mi SE Ekalaka	15-Jul-98	SJK
Limnitis weidemeyerii	JEFFERSON: Delmoe Lake, 6100'	11-Aug-98	EB
Joint sighting with PAO.			
Cercyonis oetus	WIBAUX: Pines Unit Oil Field, 12/57/20, 2870'	05-Jun-98	JO1
? Early record.			

Moths

GEOMETRIDAE

Archiearis infans	Carbon: 11 mi SW of Red Lodge, Rock Creek, 6800'	04-May-98	CEH
Diurnal in limber pine/birch habitat.			
Plataea trilinearia	Carbon: 4 mi S of Warren, open dry prairie habitat	18-May-98	CEH
Plataea trilinearia	YELLOWSTONE: 5.5 mi W of Custer @ rest stop lights	21-May-98	CEH
Plataea trilinearia	TREASURE: 5 mi SSW of Hysham @ rest stop lights	21-May-98	CEH
Plataea trilinearia	ROSEBUD: 3 mi W of Hathaway @ rest stop lights	21-May-98	CEH
Plataea trilinearia	STILLWATER: 7 mi W of park City @ rest stop lights	27-May-98	CEH

LASIOCAMPIDAE

Gloveria arizonensis	YELLOWSTONE: 5.5 mi W of Custer @ rest stop lights	02-Jul-98	CEH
Gloveria arizonensis	STILLWATER: 7 mi W of park City @ rest stop lights	05-Jul-98	CEH

SATURNIIDAE

Coloradia doris	SWEET GRASS: 4 mi SE of Greycliff @ rest area lights	05-Jul-98	CEH
Automeris io	STILLWATER: 7 mi W of park City @ rest stop lights	27-May-98	CEH
STATE record; northward range extension.			
Antheraea polyphemus	RAVALLI: Florence: Tie Chute Lane	17-Jul-98	RCM
STATE record! Old-timers, please chime in with earlier data from MT.			
Hyalophora columbia gloveri	YELLOWSTONE: 5.5 mi W of Custer @ rest stop lights	21-May-98	CEH
Hyalophora columbia gloveri	STILLWATER: 7 mi W of park City @ rest stop lights	27-May-98	CEH

SPHINGIDAE

Ceratonia undulosa	ROSEBUD: 3 mi W of Hathaway @ rest stop lights	21-May-98	CEH
STATE record; westward range extension.			
Sphinx vashti	TETON: Pine Butte Ranch, 5100'	23-Jun-98	RES
Northward range extension.			
Sphinx vashti	YELLOWSTONE: 5.5 mi W of Custer @ rest stop lights	02-Jul-98	CEH
Sphinx vashti	STILLWATER: 7 mi W of park City @ rest stop lights	05-Jul-98	CEH
Sphinx vashti	RAVALLI: Florence: Tie Chute Lane	17-Jul-98	RCM
Westward range extension.			
Sphinx vashti	POWELL: Gold Creek Rest Area, Hwy I-90	17-Jul-98	RCM
Smerinthus cerisyi	TETON: Pine Butte Ranch, 5100'	23-Jun-98	RES
Smerinthus cerisyi	RAVALLI: Florence: Tie Chute Lane	17-Jul-98	RCM
Westward range extension.			
Smerinthus cerisyi	MISSOULA: Miller Crk, 3.2 mi E of Horseshoe Ln.	18-Jul-98	RCM
Northwest range extension.			
Paonias excaecatus	MISSOULA: Miller Crk, 3.2 mi E of Horseshoe Ln.	18-Jul-98	RCM
Southwest range extension.			
Paonias excaecatus	SWEET GRASS: 4 mi SE of Greycliff @ rest area lights	21-Jul-98	CEH
South/southeast range extension.			
Paonias myops	RAVALLI: Florence: Tie Chute Lane	17-Jul-98	RCM
Westward range extension.			
Paonias myops	MISSOULA: Miller Crk, 3.2 mi E of Horseshoe Ln.	18-Jul-98	RCM
Westward range extension.			
Pachysphinx occidentalis	RAVALLI: Florence: Tie Chute Lane	17-Jul-98	RCM
STATE record; northward range extension.			
Proserpinus juanita	Big Horn: 6.5 mi S of Pryor, on Astragalus flowers	18-May-98	CEH
Hyles euphorbiae	RAVALLI: Florence: Tie Chute Lane	17-Jul-98	RCM
Hyles euphorbiae	MISSOULA: Miller Crk, 3.2 mi E of Horseshoe Ln.	18-Jul-98	RCM
[Ed. Note] rapidly expanding range after original release by USDA/MDA as biological control for spurge			
Hyles euphorbiae	SWEET GRASS: Big Timber Crk @ Halfmoon Cg	20-Jul-98	RCM
Hyles gallii	TETON: Pine Butte Ranch, 5100'	23-Jun-98	RES
Earlier record by RWW [photo]; STATE record.			
Hyles gallii	GLACIER: Kiowa Campground, near Hwy 89	19-Jul-98	RCM
Hyles gallii	SWEET GRASS: Big Timber Crk @ Halfmoon Cg	20-Jul-98	RCM

NOTODONTIDAE

Clostera apicalis	TREASURE: 7 mi SE of Hysham, 2750', at MV light	06-Aug-98	CEH
Second STATE record.			

ARCTIIDAE

<i>Cisthene barnesii</i> STATE record; northward range extension.	YELLOWSTONE: I-94 rest area lights, 5.5 mi WSW of Custer	02-Jul-98	CEH
<i>Lycomorpha grotei</i> STATE record; northward range extension; also unknown all adj States/Prov.	BIG HORN: Sage Crk, Pryor Mtns, 10 mi E of Bowler	20-Jul-97	CEH
<i>Estigmene acrea</i> Eastward range extension.	ROSEBUD: Rest stop lights, 3 mi W of Hathaway	21-May-98	CEH
<i>Estigmene acrea</i>	YELLOWSTONE: I-94 rest area lights, 5.5 mi WSW of Custer	02-Jul-98	CEH
<i>Estigmene acrea</i> Southward range extension.	STILLWATER: I-90 rest area lights, 7 mi W of Park City	05-Jul-98	CEH
<i>Turuptiana permaculata</i> Eastward range extension.	ROSEBUD: Rest stop lights, 3 mi W of Hathaway	21-May-98	CEH
<i>Turuptiana permaculata</i>	YELLOWSTONE: I-94 rest area lights, 5.5 mi WSW of Custer	02-Jul-98	CEH
<i>Turuptiana permaculata</i>	STILLWATER: I-90 rest area lights, 7 mi W of Park City	05-Jul-98	CEH
<i>Turuptiana permaculata</i> Westward range extension. Would be Idaho STATE record.	RAVALLI: Florence: Tie Chute Lane	17-Jul-98	RCM
<i>Neoarctia beanii</i> Northward range extension.	GLACIER: Kiowa Campground, near Hwy 89	19-Jul-98	RCM
<i>Platarctia parthenos</i> Westward range extension.	RAVALLI: Florence: Tie Chute Lane	17-Jul-98	RCM
<i>Platarctia parthenos</i>	MISSOULA: Miller Crk, 3.2 mi E of Horseshoe Ln.	18-Jul-98	RCM
<i>Platarctia parthenos</i> STATE record; northward range extension.	GLACIER: Kiowa Campground, near Hwy 89	19-Jul-98	RCM
<i>Platyprepia virginalis</i> Northward range extension.	TETON: Pine Butte Ranch, 5100'	25-Jun-98	KAS
<i>Arctia caja</i> Westward range extension.	MISSOULA: Miller Crk, 3.2 mi E of Horseshoe Ln.	18-Jul-98	RCM
<i>Arctia caja</i> Eastward range extension.	SWEET GRASS: Big Timber Crk @ Halfmoon Cg	20-Jul-98	RCM
<i>Grammia ornata</i> Westward range extension.	MISSOULA: Miller Crk, 3.2 mi E of Horseshoe Ln.	18-Jul-98	RCM
<i>Grammia nevadensis</i>	STILLWATER: I-90 rest area lights, 7 mi W of Park City	28-Aug-98	CEH
<i>Grammia blakei</i> Southward range extension.	BIG HORN: Sage Crk, S of Pryor	13-May-98 - 18-May-98	CEH
<i>Grammia williamsii</i> Eastward range extension.	BIG HORN: Sage Crk, S of Pryor; 4th/5th instar larvae	13-May-98 - 18-May-98	CEH
<i>Grammia parthenice</i>	STILLWATER: I-90 rest area lights, 7 mi W of Park City	28-Aug-98	CEH
<i>Lophocampa maculata</i> Westward range extension.	RAVALLI: Florence: Tie Chute Lane	17-Jul-98	RCM
<i>Cycnia oregonensis</i> Westward range extension.	MISSOULA: Miller Crk, 3.2 mi E of Horseshoe Ln.	18-Jul-98	RCM
<i>Ectypia clio</i> STATE record; northward range extension; also unknown all adj States/Prov.	YELLOWSTONE: I-94 rest area lights, 5.5 mi WSW of Custer	06-Aug-98	CEH
<i>Cisseys fulvicollis</i> Southward range extension; unknown from Idaho or Wyoming.	SWEET GRASS: Big Timber Crk @ Halfmoon Cg	20-Jul-98	RCM

NOCTUIDAE

<i>Synedoida pallescens</i> Leg. ch; diurnal.	Yellowstone: 8 mi N of Laurel, 3380', off SR 532 in canyons	17-May-98	CEH
<i>Synedoida pallescens</i>	ROSEBUD: Rest stop lights, 3 mi W of Hathaway	21-May-98	CEH
<i>Synedoida pallescens</i>	STILLWATER: I-90 rest area lights, 7 mi W of Park City	05-Jul-98	CEH
<i>Synedoida pallescens</i>	TREASURE: 5.5 mi E of Hysham, I-94, 2707', @MV lights	05-Aug-98	CEH
<i>Synedoida petricola</i>	Yellowstone: 8 mi N of Laurel, 3380', off SR 532 in canyons	25-Apr-98 - 29-Apr-98	CEH
<i>Synedoida petricola</i>	Big Horn: Sage Crk, S of Pryor	13-May-98	CEH
<i>Caenurgina annexa</i>	CARBON: Rock Crk, 6800', 11 mi SW of Red Lodge	04-May-98	CEH
<i>Caenurgina annexa</i>	BIG HORN: Sage Crk, S of Pryor	13-May-98	CEH
<i>Catocala luciana</i> With <i>C. relicta</i> , <i>unijuga</i> , <i>parta</i> , <i>hermia</i> , <i>briseis</i> , <i>semirelicta</i> , <i>meskei</i> , others.	YELLOWSTONE: Billings, Riverfront Park, 3250', at bait	04-Sep-98 - 06-Sep-98	CEH
<i>Catocala meskei</i>	STILLWATER: I-90 rest area lights, 7 mi W of Park City	28-Aug-98	CEH
<i>Catocala amatrix editha</i>	Yellowstone: Billings, Riverfront Park, 3250', at bait	31-Aug-98 - 07-Sep-98	CEH
<i>Rachiplusia ou</i>	STILLWATER: I-90 rest area lights, 7 mi W of Park City	15-Aug-98	CEH
<i>Pseudanarta crocea</i> On rabbitbrush.	GOLDEN VALLEY: US 12, 0.5 mi E of Cushman, 3750'	31-Aug-98	CEH
<i>Nycterophæta luna</i>	ROSEBUD: Rest stop lights, 3 mi W of Hathaway	21-May-98	CEH
<i>Nycterophæta luna</i>	YELLOWSTONE: I-94 rest area lights, 5.5 mi WSW of Custer	02-Jul-98	CEH
<i>Dargida procincta</i> All bait records are by CEH/ch.	YELLOWSTONE: Billings, Riverfront Park, 3250', at bait	04-Sep-98 - 06-Sep-98	CEH
<i>Hydroeciodes serrata</i>	TREASURE: I-94 rest area lights, 5.5 mi WSW of Custer	05-Aug-98	CEH
<i>Eutricopsis nexilis</i>	BIG HORN: 5 mi S of Pryor, on <i>Antenaria</i> blooms	18-May-98	CEH

<i>Eutricopis nexilis</i>	FERGUS: Maiden Cn, 4800', 16 mi NE of Lewistown	24-May-98	CEH
<i>Heliothis ononis</i>	BIG HORN: 5 mi S of Pryor, on Antennaria blooms	18-May-98	CEH
<i>Heliothis ononis</i>	FERGUS: Maiden Cn, 4800', 16 mi NE of Lewistown	24-May-98	CEH
<i>Heliothis oregonicus</i>	BIG HORN: 5 mi S of Pryor, on Antennaria blooms	18-May-98	CEH
<i>Protoschinia nuchalis</i>	YELLOWSTONE: I-94 rest area lights, 5.5 mi WSW of Custer	02-Jul-98	CEH
<i>Protoschinia nuchalis</i>	ROSEBUD: I-94 rest area lights, 3 mi W of Forsyth, 2600'	12-Jul-98	CEH
<i>Protoschinia nuchalis</i>	TREASURE: I-94 frontage rd, 7 mi SE of Hysham, 2750'	15-Jul-98	CEH
<i>Schinia intermontana</i>	BIG HORN: 6.5 mi S of Pryor, on Antennaria blooms	18-May-98	CEH
STATE record; southward range extension.			
<i>Schinia intermontana</i>	CARBON: Bowler, SE of Bridger, 4850', on Erigeron	06-Jun-98	CEH
Westward range extension.			
<i>Schinia acutilinea</i>	STILLWATER: I-90 rest area lights, 7 mi W of Park City	05-Jul-98	CEH
<i>Schinia acutilinea</i>	GOLDEN VALLEY: US 12, 0.5 mi E of Cushman, 3750'	31-Aug-98	CEH
<i>Schinia bina</i>	YELLOWSTONE: 8 mi N of Laurel, 3380', off SR 532 in canyons	17-May-98	CEH
<i>Schinia bina</i>	BIG HORN: 6 mi S of Pryor, Pryor Mtns, 4600'	06-Jun-98	CEH
STATE record. On <i>Crepis acuminatus</i> .			
<i>Schinia mortua</i>	TREASURE: 5.5 mi E of Hysham, I-94, 2707', @MV lights	05-Aug-98	CEH
STATE record; northward range extension.			
<i>Schinia jaguarina</i>	STILLWATER: I-90 rest area lights, 7 mi W of Park City	05-Jul-98 - 21-Jul-98	CEH
<i>Schinia jaguarina</i>	SWEET GRASS: I-90 rest area lights, 4 mi SE of Greycliff	05-Jul-98 - 21-Jul-98	CEH
<i>Schinia jaguarina</i>	ROSEBUD: I-94 rest area lights, 3 mi W of Forsyth, 2600'	12-Jul-98	CEH
Eastward range extension.			
<i>Schinia jaguarina</i>	PETROLEUM: SR 200, 2 mi E of Winnett, 2980'	23-Jul-98	CEH
On <i>Psoralidium tenuiflora</i> .			
<i>Schinia jaguarina</i>	GARFIELD: S Fk Lodgepole Crk, NE of Mosby, 2643'	23-Jul-98	CEH
Northeast range extension.			
<i>Schinia jaguarina</i>	MUSSELSHELL: US 87, S edge of Klein, 3201'	23-Jul-98	CEH
On <i>Psoralidium tenuiflora</i> .			
<i>Schinia jaguarina</i>	TREASURE: 5.5 mi E of Hysham, I-94, 2707', @MV lights	05-Aug-98	CEH
<i>Schinia oleagina</i>	PETROLEUM: Melstone Rd, 4 mi SSW of Mosby, 2666'	25-Jul-98	CEH
<i>Schinia oleagina</i>	YELLOWSTONE: 5 mi WNW of Billings, Molt Rd, 3656'	01-Aug-98	CEH
Larvae on <i>Brickellia eupatorioides</i> .			
<i>Schinia oleagina</i>	TREASURE: 5.5 mi E of Hysham, I-94, 2707', @MV lights	05-Aug-98	CEH
<i>Schinia oleagina</i>	GALLATIN: 22 mi W of Bozeman, above SR 84, 4682'	29-Aug-98	CEH
Ex larvae; CEH/ch. STATE record [unknown from all touching States/Prov].			
<i>Schinia oleagina</i>	MADISON: 26 mi WSW of Bozeman, above SR 84, 5120'	29-Aug-98	CEH
Larvae on <i>Brickellia eupatorioides</i> .			
<i>Schinia gaurae</i>	YELLOWSTONE: 7 mi E of Pompeys Pillar, I-94, 3120'	15-Jul-98	CEH
On <i>Gaura mollis</i> .			
<i>Schinia gaurae</i>	TREASURE: I-94 frontage rd, 7 mi SE of Hysham, 2750'	15-Jul-98	CEH
Eastward range extension.			
<i>Schinia gaurae</i>	BIG HORN: I-90, 3420', 12 mi E of Billings	22-Jul-98	CEH
Eastward range extension.			
<i>Schinia gaurae</i>	MUSSELSHELL: US 87, S edge of Klein, 3201'	23-Jul-98	CEH
On <i>Gaura mollis</i> .			
<i>Schinia gaurae</i>	PETROLEUM: Melstone Rd, 4 mi SSW of Mosby, 2666'	25-Jul-98	CEH
On <i>Gaura mollis</i> .			
<i>Schinia gaurae</i>	CARBON: US 212, 4 mi S of Selesia	25-Jul-98	CEH
Southward range extension.			
<i>Schinia gaurae</i>	STILLWATER: I-90, 2 mi E of Columbus, 4200'	29-Aug-98	CEH
Ex larvae.			
<i>Schinia sanguinea</i>	TREASURE: 5.5 mi E of Hysham, I-94, 2707', @MV lights	05-Aug-98	CEH
Eastward range extension; second known State record.			

NEW MEXICO

The 13 contributors tie the record high of 1989, the year of the Albuquerque Lep Soc meeting. The season was dry and poor (CDF; no others' comments). BUTTERFLIES: 54 total data, 1 STATE record [*Chlorostymon simaethis*], 20 COUNTY records, 44 species, 19 CR species. Currently there are 315 species known from NM, 19 species known from all 33 counties, and 116.4 avg spp/co = 91.3% of projection. Expected species, not yet recorded from New Mexico, include *Papilio glaucus*, *Callophrys comstocki*, and *Plebejus shasta*. MOTHS: 14 total data, 6 STATE records, 14 COUNTY records, 13 species, 13 CR species.

Butterflies

HESPERIIDAE

<i>Cogia caicus</i>	EDDY: Rattlesnake Springs	21-Jun-98	SJC
East range extension; would be Texas STATE record !			
<i>Erynnis persius</i>	Taos: State Line Camp, 10200'	06-Jul-98	SJC
Oviposition: <i>Astragalus</i> sp.			
<i>Stinga morrisoni</i>	Torrance: 8 mi W of Corona	05-Apr-98	SJC
East range extension within Torrance County.			

Poanes taxiles	Colfax: Cerrososo Canyon	06-Jun-98	SJC
Early record [previously 8 Jun]			
Paratrytone snowi	Colfax: S side of Raton Pass	14-Aug-98	MSF
Megathymus yuccae	Quay: Sunflower Canyon	04-Apr-98	RWH
Confirms several previous sightings; EARLY for northern NM.			
PAPILIONIDAE			
Papilio polyxenes asterius	Los Alamos: Burnt Mesa	27-Jun-98	DDH
Oviposition: Pseudocymopterus montanus [det SJC].			
Papilio bairdii	Los Alamos: Valle Canyon	27-Jun-98	DDH
Oviposition: Artemisia dracunculus [det SJC].			
Papilio zelicaon	Taos: State Line Peak, 12867' [?high elev. record]	05-Jul-98	SJC
Would be a LAS ANIMAS Co, Colorado record !			
PIERIDAE			
Pontia beckerii	UNION: Carrizozo Crk, 4480', 5 mi SW of Kenton, OK	18-Sep-98	RES
East range extension; LATE record [previously 14 Sep]			
Pontia sisymbrii	Catron: US 180, hill 5280', 7 mi S of Glenwood	22-Mar-98	RES
Pontia sisymbrii	Torrance: 1.5 mi NE of Duran	05-Apr-98	SJC
East range extension within Torrance County.			
Pontia sisymbrii	Catron: Gordon Cn, Saliz Mountains	21-Apr-98	CDF
Abundant. Also E. brizo, E. telemachus, N. iole, C. neumoegeni sabina.			
Pontia protodice	Grant: Mimbres River	08-Aug-98	ND
Oviposition on Descurainia sp. [det SJC]			
Pontia occidentalis	UNION: Carrizozo Crk, 4480', 5 mi SW of Kenton, OK	18-Sep-98	RES
Euchloe hyantis lotta	Catron: US 180, hill 5280', 7 mi S of Glenwood	22-Mar-98	RES
Euchloe hyantis lotta	Hidalgo: Aberdeen Hills, 5020', 4.7 mi SW of Lordsburg	23-Mar-98	RES
Euchloe hyantis lotta	Otero: Hill M25, McGregor Range	24-Mar-98	RES
Anthocharis pima	Luna: Rock Hound SP	08-Mar-98 - 23-Mar-98	RES
Not out yet on 8 March; common and fresh on 23 March.			
Anthocharis pima	CATRON: US 180, hill 5280', 7 mi S of Glenwood	22-Mar-98	RES
North range extension.			
Anthocharis pima	Hidalgo: Aberdeen Hills, 5020', 4.7 mi SW of Lordsburg	23-Mar-98	RES
Common.			
Anthocharis pima	OTERO: Hill M25, McGregor Range	24-Mar-98	RES
Northeast range extension.			
Anthocharis thoosa	Luna: Rock Hound SP	08-Mar-98 - 23-Mar-98	RES
Out fresh on 8 Mar; mostly worn on 23 Mar.			
Anthocharis thoosa	Catron: US 180, hill 5280', 7 mi S of Glenwood	22-Mar-98	RES
Anteus clorinde	BERNALILLO: Albuquerque	10-Oct-98	EW
Very late record [previously 9 Sep].			
Eurema nise	EDDY: Last Chance Canyon	10-Oct-98	SJC
East range extension in NM.			
Nathalis iole	Sandoval: Frijoles Canyon	26-Nov-98	SJC
Late record [previously 21 Nov].			
LYCAENIDAE			
Lycaena helloides	UNION: Carrizozo Crk, 4480', 5 mi SW of Kenton, OK	18-Sep-98	RES
Late record [previously 12 Sep].			
Chlorostymon simaethis	OTERO: Near Oliver Lee SP	13-May-98	JG
STATE record [huge filler between AZ and eastern TX].			
Satyrium titus	Santa Fe: Road to Glorieta Peak	11-Jul-98	SJC
With ND.			
Satyrium sylvinum	COLFAX: Vermejo River near Casa Grande	07-Jul-98	SJC
East range extension.			
Satyrium calanus godarti	Colfax: Sugarite Canyon SP	07-Sep-98	SJC
Very late record [previously 26 Aug]			
Callophrys spinetorum	Torrance: 8 mi W of Corona	05-Apr-98	SJC
East range extension within Torrance County.			
Brephidium exile	UNION: Carrizozo Crk, 4480', 5 mi SW of Kenton, OK	18-Sep-98	RES
Zizula cyna	Eddy: Rattlesnake Springs	21-Jun-98	JP
Early record [previously 6 July].			
Celastrina ladon cinerea	VALENCIA: JFK Campground, Manzano Mountains	25-Mar-98	RES
Plebejus icarioides	Los Alamos: Burnt Mesa	27-Jun-98	DDH
Oviposition: Lupinus argenteus [det SJC].			
RIODINIDAE			
Calephelis nemesis	EDDY: Near Black River Village	02-May-98	RM
East range ext; VERY EARLY [previously 27 May]; observers SJC/RM/JP].			
NYMPHALIDAE			
Polygonia interrogatoris	Quay: Sunflower Canyon	22-Mar-98	SJC

Polygonia zephyrus East range extension in Lincoln County.	Lincoln: 10 mi W of Corona	05-Apr-98	SJC
Vanessa cardui Abundant, flying northward.	Valencia: JFK Campground, Manzano Mountains	25-Mar-98	RES
Vanessa annabella With JP. Southeast range extension.	EDDY: Rattlesnake Springs	21-Jun-98	SJC
Vanessa annabella	Taos: Near Taos and near Questa.	09-Sep-98 - 10-Sep-98	JAS
Junonia nigrosuffusa	BERNALILLO: Albuquerque	16-Oct-98	EW
Speyeria mormonia eurynome East range extension.	COLFAX: Underwood Lakes	06-Jul-98	SJC
Phyciodes mylitta	Colfax: S side of Raton Pass	14-Aug-98	MSF
Chlosyne nycteis drusus Very late record [previously 24 Aug].	Colfax: Sugarite Canyon SP	07-Sep-98	SJC
Chlosyne acastus Larvae reared on Macaeranthera bigelovii.	Bernalillo: Albuquerque	16-Jun-98	EW
Chlosyne neumoegei sabina East range extension.	LINCOLN: Madden Cn, 8000', Carrizo Peak	03-May-98	RWH
Thessalia fulvia Now recorded from all NM counties except De Baca.	LOS ALAMOS: Los Alamos	08-May-98	DDH
Adelpha bredowii East range extension within Chaves County.	Chaves: Bitter Lake NWR	08-Sep-98	WR
Erebia epipsodea East range extension.	COLFAX: Underwood Lakes	06-Jul-98	SJC
Neominois ridingsii Major south/southeast range extension.	LINCOLN: 1 mi N of Benado Gap, 6800', nr Carrizo Peak	21-Jun-98	RWH
Danaus plexippus Oviposition: Asclepias subverticillata [det SJC].	Eddy: Rattlesnake Springs	25-Jul-98	JP

Moths

MEGALOPYGIDAE

Trosia obsolescens ?STATE record.	HIDALGO: Guadalupe Cn, 31 mi E of Douglas, AZ	14-Jul-97	RCM
--------------------------------------	---	-----------	-----

LIMACODIDAE

Parasa chloris ?STATE record.	HIDALGO: Guadalupe Cn, 31 mi E of Douglas, AZ	14-Jul-97	RCM
----------------------------------	---	-----------	-----

SPHINGIDAE

Hyles lineata EARLY record.	HIDALGO: Lordsburg	23-Mar-98	RES
Hyles lineata LATE record.	UNION: Clayton, at store lights	11-Oct-98	RES

ARCTIIDAE

Haematomis mexicana STATE record; fills gap between SW Texas and SE Arizona.	HIDALGO: Guadalupe Cn, 31 mi E of Douglas, AZ	14-Jul-97	RCM
Grammia geneura Only the second STATE record.	HIDALGO: Guadalupe Cn, 31 mi E of Douglas, AZ	14-Jul-97	RCM
Euchaetes zella Only the second STATE record.	HIDALGO: Guadalupe Cn, 31 mi E of Douglas, AZ	14-Jul-97	RCM
Euchaetes antica STATE record and eastward range extension.	HIDALGO: Guadalupe Cn, 31 mi E of Douglas, AZ	14-Jul-97	RCM

NOCTUIDAE

Anagrapha falcifera	UNION: Carrizozo Crk, 4480', 5 mi SW of Kenton, OK	18-Sep-98	RES
Admetovis similis	GRANT: Mangas Springs	21-Apr-98 - 26-Apr-98	CDF

UTAH

The 58 contributors, mainly for moth specimens in various collections, with field and lab help from Bob Mower over the last decade or more, surpass enormously the previous 3 season highs of 18 contributors. One of this year's "contributors" is Dr. Arthur J. Snyder, one of the most distinguished among early Rocky Mountain Lepidopterists; he collected in northern Utah extensively in the last decade of the 19th century, was an early member of the Chicago Academy of Sciences, and a teacher of Dr. John Adams Comstock. The season was described as unusually dry by Scott Ellis. RES was rained out on two visits to Utah, with snow on one day, and never saw a Lepidopteran in 1998! So, perhaps it was a "normal" season on average, with 2 observers finding exactly opposite conditions. BUTTERFLIES: 13 total data [TERRIBLE!], no STATE records, 7 COUNTY records, 9 species, 5 CR species. Currently there are 215 species known from UT, 45 species known from all 29 counties, and 112.0 avg spp/co = 93.1% of projection. Expected species, not yet recorded from Utah, include Carterocephalus palaemon, Thymelicus lineola, Hesperia viridis, Atrytonopsis python, Colias pelidne, Lycaena mariposa, Euphydryas gillettii, and Coenonympha haydenii. MOTHS: 181 total data, 7 STATE records, 175 COUNTY records, 42 species, 41 CR species.

Butterflies

HESPERIIDAE

Erynnis pacuvius lilius North range extension; unknown from southern Idaho; VERY LATE date !.	WEBER: 0.6 mi SW of North Ogden Divide, 5900'	19-Aug-98	JLH
--	---	-----------	-----

PIERIDAE

<i>Colias alexandra</i> Perhaps early record?	Piute: SR 82, near Koosharem	08-May-98	SLE
<i>Zerene cesonia</i> Perhaps early record?	Garfield: Kachina Bridge Trail, NBNM	03-May-98	SLE
<i>Nathalis iole</i> Perhaps early record?	Garfield: Kachina Bridge Trail, NBNM	03-May-98	SLE

LYCAENIDAE

<i>Leptotes marina</i> Perhaps early record?	Garfield: Kachina Bridge Trail, NBNM	03-May-98	SLE
<i>Leptotes marina</i> North range extension; unknown from Idaho.	WEBER: 2700N at I-15, Farr West, 4260'	09-Aug-98	JLH
<i>Leptotes marina</i> Northeast range extension; 2nd county record.	Uinta: 7 mi W of Lapoint, 5600'	16-Aug-98	JLH
<i>Hemiargus isola</i> Now known from all but 6 UT counties.	DAVIS: NE side of Farmington, 5000'	02-Jun-98	JLH
<i>Hemiargus isola</i> Northwest range extension; unknown from SE Idaho.	BOX ELDER: US 89, 4 mi S of Willard, 4300'	09-Aug-98	JLH
<i>Hemiargus isola</i> North range extension in Utah.	CACHE: Bug Lake Rd, nr Strawberry Valley, 7000'	10-Aug-98	JLH

NYMPHALIDAE

<i>Junonia coenia</i> leg. Todd Stout.	EMERY: Buckhorn Wash, 2 mi N of San Raphael R, 5200'	07-Sep-98	JLH
<i>Phyciodes mylitta</i> Now known from all but 3 UT counties [Grand,Kane,Wasatch].	UINTA: 7 mi W of Lapoint, 5600'	16-Aug-98	JLH
<i>Danaus gilippus thersippus</i> Perhaps early record?	Garfield: Kachina Bridge Trail, NBNM	03-May-98	SLE

Moths**LASIOCAMPIDAE**

<i>Tolyte glenwoodii</i> ?STATE record	KANE: Pink Coral Sand Dunes	04-Sep-98	RCM
<i>Gloveria arizonensis</i> ?STATE record	SEVIER: 3 mi W of Koosharem	30-Jul-98	RCM

SATURNIIDAE

<i>Coloradia pandora</i>	KANE: Pink Coral Sand Dunes	04-Sep-98	RCM
<i>Coloradia doris</i> Southeast range extension within Utah.	SAN JUAN: 9 mi N of Blanding	26-Jun-98	RCM
<i>Automeris io</i>	San Juan: 9 mi N of Blanding	26-Jun-98	RCM
<i>Antheraea polyphemus</i>	CARBON: US 6, 3.8 mi S of Price Recreation Area	02-Jul-98	RCM

SPHINGIDAE

<i>Manduca quinquemaculata</i>	SEVIER: 3 mi W of Koosharem	30-Jul-98	RCM
<i>Sphinx chersis</i>	CARBON: US 6, 3.8 mi S of Price Recreation Area	02-Jul-98	RCM
<i>Sphinx vashti</i>	CARBON: US 6, 3.8 mi S of Price Recreation Area	02-Jul-98	RCM
<i>Sphinx dollii</i>	CARBON: US 6, 3.8 mi S of Price Recreation Area	02-Jul-98	RCM
<i>Paonias excaecatus</i> Second STATE record.	SAN JUAN: 9 mi N of Blanding	26-Jun-98	RCM
<i>Erinnyis ello</i> STATE record.	UTAH: Orem	03-Aug-98	RCM
<i>Hemaris diffinis</i> Unknown in SW Colorado.	SAN JUAN: 10.8 mi N of CR 282, N of Blanding	27-Jun-98	RCM
<i>Hyles gallii</i> West range extension [unknown from Nevada or California].	UTAH: Provo	31-Jul-97	RCM
<i>Hyles lineata</i> South range extension in Utah; unreported from northern AZ.	KANE: Pink Coral Sand Dunes	04-Sep-98	RCM

ARCTIIDAE

<i>Cisthene barnesii</i>	SEVIER: 3 mi W of Koosharem	30-Jul-98	RCM
<i>Hypoprepia cadaverosa</i> South range extension in Utah; unreported from SW Colorado.	SAN JUAN: 9 mi N of Blanding	26-Jun-98	RCM
<i>Bucecia pulverina</i>	CARBON: US 6, 3.8 mi S of Price Recreation Area	02-Jul-98	RCM
<i>Holomelina fragilis</i>	CARBON: US 6, 3.8 mi S of Price Recreation Area	02-Jul-98	RCM
<i>Holomelina fragilis</i>	SEVIER: 3 mi W of Koosharem	30-Jul-98	RCM
<i>Estigmene acrea</i> The first known Utah record leg. Thomas U. Spalding.	UTAH: Vineyard	03-May-19	RCM
<i>Estigmene acrea</i> USU collection, det RCM.	WEBER: Hooper	07-Jul-37	RCM
<i>Estigmene acrea</i> DCC collection; collector unk; south range ext; late record.	WASHINGTON: St. George	02-Oct-46	RCM

Estigmene acrea USU collection, det. RCM. East range extension in Utah.	GRAND: La Sal Mountains	10-Jul-63	RCM
Estigmene acrea USU collection, det. RCM.	MILLARD: Delta	27-Jun-68	GFK
Estigmene acrea North range extension [would be STATE records in ID or WY].	CACHE: Logan	07-Jul-81	RCM
Estigmene acrea West range extension in Utah.	TOOELE: NW Fork, Dry Lake Fork [larvae]	06-Sep-90	CFG
Estigmene acrea UMH collection, det RCM. No Y2K glitch here: it was 1895 !	SALT LAKE: City Creek Canyon	10-Jun-95	AJS
Estigmene acrea USU collection	DAVIS: Bountiful	19-May-29	RCM
Spilosoma virginica USU collection, det. RCM	DAVIS: Farmington	21-Jul-36	GFK
Spilosoma virginica Southeast range extension within Utah.	GRAND: La Sal Mountains	10-Jun-63	RCM
Spilosoma virginica USU collection, det. RCM	GARFIELD: Bryce Canyon	02-Jun-66	GFK
Spilosoma virginica SUS collection	CACHE: Logan	19-Apr-74	RCM
Spilosoma virginica	DUCHENNE: Roosevelt	11-Jun-83	ARM
Spilosoma virginica East range extension in Utah.	UINTAH: Hayden, Whiterocks Road	10-Jul-85	RCM
Spilosoma virginica Southwest range extension [would be NV STATE record].	WASHINGTON: Lytle Ranch, Beaver Dam Wash	19-Aug-87	WJH
Spilosoma virginica UMH collection, det RCM. No Y2K glitch here: it was 1895 !	SALT LAKE: City Creek Canyon	10-Jun-95	AJS
Spilosoma virginica BYU collection; leg. Thomas U. Spalding	Utah: Vineyard	09-Jun-18	RCM
Spilosoma vagans East range extension in Utah.	UINTAH: White Rocks Campground	26-Jun-97	RCM
Spilosoma vagans	Carbon: US 6, 3.8 mi S of Price Recreation Area	02-Jul-98	RCM
Hyphantria cunea BYU collection; leg. Ashley D. Boyle	SALT LAKE: Salt Lake City	21-Jun-30	RCM
Hyphantria cunea Early record.	UINTAH: Split Mountain Gorge	10-Apr-55	RCM
Hyphantria cunea South range extension in Utah.	WASHINGTON: Pine Valley	15-May-61	DWD
Hyphantria cunea BYU collection, det RCM	TOOELE: Little Valley Campground	14-Jun-80	RB
Hyphantria cunea	DUCHENNE: Roosevelt	02-Jun-84	ARM
Hyphantria cunea western range extension in Utah (would be Nevada STATE RECORD)	BOX ELDER: Raft River Mtns, Fisher Canyon	20-Jul-84	MFV
Hyphantria cunea	SEVIER: Park West	28-Jun-88	RCM
Hyphantria cunea BYU collection, det RCM	WAYNE: Fruita	27-Jun-89	RB
Hyphantria cunea	EMERY: Green River	20-Jul-92	RCM
Hyphantria cunea East range extension in Utah.	GRAND: Moab	19-Jul-95	RCM
Turuptiana permaculata BYU collection	SUMMIT: Park City	24-Jun-33	JB
Turuptiana permaculata East range extension in Utah.	UINTAH: Vernal	05-Jul-40	RCM
Turuptiana permaculata North range extension	DAGGETT: Paradise Park Camp	20-Jul-62	DWD
Turuptiana permaculata southern range extension in Utah	WASHINGTON: Pine Valley	06-Aug-66	RCM
Turuptiana permaculata USU collection	BEAVER: Beaver	14-Sep-68	RCM
Turuptiana permaculata USU collection, det RCM.	WAYNE: Boulder Mountain	10-Jul-69	DWD
Turuptiana permaculata USU collection	SALT LAKE: Salt Lake City, east bench	29-Aug-72	RCM
Turuptiana permaculata	UTAH: Orem	16-Jun-81	RCM
Turuptiana permaculata USU collection	IRON: Cedar City	12-Aug-81	RCM
Turuptiana permaculata LACM collection.	GARFIELD: 5 mi N of Bryce Canyon NP entrance	24-Jul-82	RHL
Turuptiana permaculata	DUCHENNE: Roosevelt	17-Aug-84	ARM

Turuptiana permaculata RCM collection.	SEVIER: Fish Lake	24-Aug-84	RB
Turuptiana permaculata	SANPETE: Oak Creek, 2.5 mi N of Fairview	23-Jul-87	RCM
Turuptiana permaculata	GRAND: 10 mi N of Oowah Lake Jct, La Sal Loop Road	20-Jul-92	RCM
Turuptiana permaculata West range extension. BYU collection, det RCM, leg. Thomas U. Spalding	JUAB: Eureka	04-Jul-19	RCM
Arachnis picta BYU collection, det RCM. East range extension in Utah.	UINTAH: Vernal	12-Aug-61	RCM
Arachnis picta DCC collection	SANPETE: Maple Canyon	13-Aug-68	RCM
Arachnis picta West range ext. in UT; SUS collection, det RCM. Late record.	BEAVER: Beaver	03-Oct-68	RCM
Arachnis picta Very early date; evidence of bivoltinism, or just a weird record?	MILLARD: Flowell	22-Jun-73	RCM
Arachnis picta BYU collection. North range ext [would be STATE record for ID or WY].	BOX ELDER: Bettridge Canyon	20-Aug-79	RCM
Arachnis picta USU collection	EMERY: 2 mi W of Little Gilson	15-Sep-80	RCM
Arachnis picta	DAGGETT: Crouse Canyon	02-Aug-82	CDF
Arachnis picta	DUCHENNE: Roosevelt	20-Sep-82	ARM
Arachnis picta BYU collection	GARFIELD: Pleasant Creek Campground	03-Aug-84	RB
Arachnis picta	CARBON: Helper	10-Sep-92	RCM
Arachnis picta South range extension in Utah; unknown from northern AZ.	KANE: Pink Coral Sand Dunes	04-Sep-98	RCM
Arachnis apachea USU collection, det RCM	SAN JUAN: Bluff	16-Aug-74	DWD
Arachnis apachea	WAYNE: SR 12 at Morrill Mdw Brook Ranch Road	21-Jul-92	RCM
Arachnis apachea East range extension. Ssp apachea would be a CO STATE record.	GRAND: Moab, Circle-K store	28-Aug-96	JKA
Platarctia parthenos STATE RECORD	UINTAH: Whiterocks Campground	29-Jun-84	ARM
Platyprepia virginalis BYU collection, leg. Ashley D. Boyle	DAVIS: Mueller's	07-Jul-30	RCM
Platyprepia virginalis leg. W. Levi Phillips	UTAH: Hobble Creek	18-Jul-43	RCM
Platyprepia virginalis USU collection	MILLARD: Delta	24-Jun-51	RCM
Platyprepia virginalis East range extension in Utah.	GRAND: La Sal Mountains	10-Jun-63	RCM
Platyprepia virginalis USU collection. Southwest range extension.	WASHINGTON: Leeds Canyon	06-Jun-64	RCM
Platyprepia virginalis North range extension in Utah [see WY also].	RICH: Laketown, 1.8 mi SSE of Bear Lake	04-Jul-85	SWS
Platyprepia virginalis	WAYNE: Eagan Fish Hatchery, 3 mi S of Bicknell	27-Jul-91	CAM
Platyprepia virginalis USU collection	CACHE: Logan	09-Jul-18	RCM
Platyprepia virginalis BYU collection, leg. Ashley D. Boyle	SALT LAKE: City Creek Canyon	02-Jul-27	RCM
Pararctia yarrowii BYU collection	DUCHENNE: Roberts Pass, Uinta Mountains	04-Jul-46	RCM
Pararctia yarrowii	Summit: Bald Mountain, Uinta Mountains	24-Jul-87	JNL
Arctia caja BYU collection, leg. Ashley D. Boyle	SUMMIT: Park City	23-Jul-30	RCM
Arctia caja USU collection	WEBER: Clinton [sic]	15-Aug-38	RCM
Arctia caja USU collection, det. RCM	DAVIS: Bountiful	08-Aug-41	RCM
Arctia caja USU collection	GRAND: Moab	16-Jun-47	RCM
Arctia caja BYU collection	GARFIELD: Panguitch	07-Aug-52	RCM
Arctia caja SUS collection, det. RCM	IRON: Cedar City	25-Aug-64	RCM
Arctia caja USU collection	BOX ELDER: Snowville	14-Aug-71	GFK
Arctia caja USU collection	SEVIER: 5 mi S of Sigurd	23-Aug-83	RCM
Arctia caja	DUCHENNE: Roosevelt	18-Aug-84	ARM

Arctia caja	CARBON: Price Canyon Recr Area	26-Jul-86	RCM
Arctia caja	RICH: Laketown, 1.8 mi SSE of Bear Lake	21-Jul-87	SWS
Northeast range extension; would be WY STATE record.			
Arctia caja	DAGGETT: Browns Park, Jarvie Ranch	23-Aug-87	RCM
Northeast range extension; would be WY STATE record.			
Arctia caja	WASHINGTON: Pine Valley	03-Aug-93	RCM
Southwest range extension [would be AZ STATE record]; leg. Neal K. Mower			
Arctia caja	JUAB: Eureka	24-Aug-21	RCM
BYU collection; leg. Thomas U Spalding			
Grammia turbans	DAGGETT: Browns Park, Jarvie Ranch	23-Aug-87	RCM
STATE record; would also be CO STATE record.			
Grammia turbans	RICH: Garden City at Bear Lake	01-Sep-90	RCM
North range extension in Utah [see WY also].			
Grammia turbans	SUMMIT: SR 150, 4 mi S of WY border [larva collected]	01-Jul-95	RCM
Grammia turbans	UINTAH: 1 mi W of Jones Hole	07-Aug-97	RCM
Grammia virguncula	UINTAH: Vernal	06-Jul-91	RCM
Specimen in RCM collection.			
Grammia virguncula	RICH: Randolph (Maverick Station)	04-Sep-93	RCM
Grammia ornata	CACHE: Logan	05-May-30	RCM
USU collection			
Grammia ornata	UTAH: Aspen Grove	08-May-61	RCM
BYU collection			
Grammia ornata	WEBER: North Ogden	29-May-62	DWD
USU collection, det RCM			
Grammia ornata	SALT LAKE: Parleys Canyon	11-Jun-91	RCM
USU collection, det RCM			
Grammia nevadensis	WASHINGTON: Leeds Canyon	27-Jul-65	DWD
USU collection, det RCM.			
Grammia nevadensis	SAN JUAN: La Sal Mountains, Pack Creek	27-Jun-67	RCM
BYU collection. Very early date is peculiar.			
Grammia nevadensis	BOX ELDER: Snowville	11-Sep-71	GFK
USU collection, det RCM. North range ext; would be ID STATE record.			
Grammia nevadensis	SALT LAKE: Salt Lake City	23-Aug-75	GFK
USU collection, det RCM.			
Grammia nevadensis	DUCHENNE: Roosevelt	10-Sep-83	ARM
Grammia nevadensis	DAGGETT: Browns Park, Jarvie Ranch	23-Aug-87	RCM
Grammia nevadensis	SANPETE: Oak Creek, 2.5 mi N of Fairview	24-Aug-88	RCM
Grammia nevadensis	RICH: Pickleville, SW of Bear Lake	02-Sep-89	RCM
Grammia nevadensis	UINTAH: White River, S of Bonanza	24-Aug-90	RCM
East range extension in Utah.			
Grammia nevadensis	IRON: I-15 rest stop N of Paragonah	16-Sep-90	RCM
Grammia nevadensis	WAYNE: Carcass Creek, Boulder Mountains	21-Jul-92	RCM
Grammia nevadensis	SUMMIT: SR 150, 2.7 mi S of WY border	03-Sep-93	RCM
Northeast range extension; would be WY STATE record.			
Grammia nevadensis	WASATCH: Wallsburg turnoff, E of Deer Creek Reservoir	10-Sep-93	RCM
Grammia nevadensis	MILLARD: Black Rock Desert, 60 mi S of Delta [larvae]	15-Apr-95	JMJ
West range extension in Utah.			
Grammia nevadensis	KANE: Pink Coral Sand Dunes	04-Sep-98	RCM
South range extension in Utah.			
Grammia geneura	WAYNE: Torrey (Wonderland Inn), nr Jct SR12/24	23-Jul-92	RCM
Notarctia proxima	SUMMIT: Park City	28-Jun-33 - 03-Jul-33	RCM
BYU collection, leg. Ashley D. Boyle			
Notarctia proxima	CACHE: Logan	20-Aug-39	GFK
Northwest range extension; would be ID STATE record.			
Notarctia proxima	WEBER: Hooper	21-Aug-39	GFK
USU collection, det. RCM			
Notarctia proxima	SANPETE: Manti	07-Jun-41	GFK
USU collection, det. RCM			
Notarctia proxima	UINTAH: Vernal	16-Sep-53	RCM
SCC collection			
Notarctia proxima	GRAND: La Sal Mountains	10-Jun-63	RCM
USU collection			
Notarctia proxima	WASHINGTON: St. George	05-Sep-69	RCM
BYU collection, det RCM. Southwest range extension.			
Notarctia proxima	SALT LAKE: Bell Canyon	27-May-78	RCM
BYU collection			
Notarctia proxima	DUCHENNE: Roosevelt	20-Aug-83	RCM
Notarctia proxima	DAGGETT: Crouse Canyon	10-Aug-89	CDF
Northeast range extension; would be WY STATE record.			

Notarctia proxima	JUAB: Callao	27-Jun-22	RCM
West range extension in Utah, leg.	Thomas U. Spalding		
Grammia williamsii	WASHINGTON: Leeds Canyon	27-Jul-65	DWD
Southwest range extension.			
Grammia williamsii	SEVIER: Ivie Creek	26-Jun-70	KBT
Early date.			
Grammia williamsii	BOX ELDER: Snowville	11-Sep-71	GFK
USU collection, det. RCM; northern	range extension (would be Idaho STATE RECORD)		
Grammia williamsii	BEAVER: Beaver, 6300'	29-Jul-77	RHL
Grammia williamsii	SUMMIT: Park West	27-Jun-88	RCM
Grammia williamsii	DAGGETT: Crouse Canyon	08-Aug-88	CDF
Grammia williamsii	IRON: Parowan Canyon, Vermillion Campground	29-Jun-90	RCM
Grammia williamsii	GRAND: 10 mi N of Oowah Lk Jct, E of Moab	20-Jul-92	RCM
Grammia f pallida	WASHINGTON: Leeds Canyon	27-Jul-65	RCM
STATE RECORD. USU collection			
Grammia f pallida	SAN JUAN: Natural Bridges	10-Jul-67	RCM
USU collection			
Grammia f pallida	GRAND: 10 mi N of Oowah Lk Jct, E of Moab	20-Jul-92	RCM
East range extension in Utah.			
Grammia phyllira	DAGGETT: Crouse Canyon	14-Aug-82	KCB
STATE record. This record requires	verification.		
Grammia parthenice	SALT LAKE: City Creek Canyon	13-Jul-30	RCM
BYU collection, leg. Ashley D. Boyle			
Grammia parthenice	UTAH: Pleasant Grove	29-Jul-37	RCM
USU collection			
Grammia parthenice	TOOELE: Tooele	19-Sep-37	RCM
USU collection			
Grammia parthenice	WEBER: Ogden	10-Jul-41	RCM
USU collection			
Grammia parthenice	CACHE: Logan	03-Aug-47	RCM
USU collection			
Grammia parthenice	BOX ELDER: Snowville	29-Aug-53	RCM
USU collection. North range ext [would be ID STATE record.			
Grammia parthenice	WASHINGTON: Pine Valley	15-May-61	DWD
South range extension in Utah. Would be AZ/NV STATE records.			
Grammia parthenice	DAVIS: Woods Cross	19-Jul-62	DWD
USU collection, det RCM.			
Grammia parthenice	DAGGETT: Paradise Park	28-Jul-62	DWD
Northeast range extension; would be WY STATE record.			
Grammia parthenice	DUCHENNE: Fruitland	17-Jun-63	RCM
USU collection			
Grammia parthenice	GRAND: La Sal Mountains	19-Jul-68	DWD
East range extension in Utah.			
Grammia parthenice	WAYNE: Boulder Mountain	20-Jul-69	DWD
USU collection, det RCM.			
Grammia parthenice	KANE: Duck Creek	08-Aug-72	RCM
USU collection			
Grammia parthenice	GARFIELD: Ruby's Inn, Bryce Canyon	26-May-74	WJH
USU collection, det RCM.			
Grammia parthenice	SANPETE: Oak Creek, 2.5 mi N of Fairview	23-Jul-87	RCM
Lophocampa maculata	CARBON: US 6, 3.8 mi S of Price Recreation Area	02-Jul-98	RCM
Bertholdia trigona	DAGGETT: Flaming Gorge	30-Jul-97	JLR
North range extension; would be ID/WY STATE records.			
Bertholdia trigona	Daggett: Crouse Canyon, near Browns Park	08-Aug-97	RCM
NOCTUIDAE			
Catocala aholibah	KANE: Pink Coral Sand Dunes	04-Sep-98	RCM
Catocala verrilliana	KANE: Pink Coral Sand Dunes	04-Sep-98	RCM

WYOMING

There were 7 contributors, which is above average over the past 30 years. The highest number was 18 in 1994. Ferris described a wet spring, followed by a dry and hot summer, a situation that seemed to prevail in most of our region in 1998. BUTTERFLIES: 40 total data, no STATE records, 26 COUNTY records, 35 species, 25 CR species. Currently there are 214 species known from WY, 22 species known from all 24 counties, and 105.4 avg spp/co = 88.8% of projection. Expected species, not yet recorded from Wyoming, include Ancyloxypha numitor, Euphyes bimacula, Megathymus yuccae, Speyeria nokomis, Phyciodes pictus, and Oeneis alberta. MOTHS: 8 total data, 5 STATE records, 7 COUNTY records, 8 species, 7 CR species.

Butterflies

HESPERIIDAE

Erynnis afranius	SHERIDAN: W end of SR 335, 6600', 16 mi SW of Sheridan	20-Jun-98	RES
------------------	--	-----------	-----

Pyrgus ruralis Northeast range extension.	SHERIDAN: US 14, Granite Pass, 9000'	29-Jun-98	RES
Oarisma garita Now known from all 24 Wyoming counties.	BIG HORN: US 14, Cabin Crk Cg, 7200'	29-Jun-98	RES
Hesperia uncas	JOHNSON: Mosier Gulch PG, US 16, 6300', 7 mi W of Buffalo	20-Jun-98	RES
Hesperia juba East/southeast range extension.	GOSHEN: 1.5 mi S of Torrington, US 85, 4200'	15-Sep-98	RES
Polites themistocles North range extension in Wyoming.	SHERIDAN: W end of SR 335, 6600', 16 mi SW of Sheridan	20-Jun-98	RES
Polites themistocles	BIG HORN: US 14, Granite Creek, 8700'	29-Jun-98	RES
Ochlodes sylvanoides East/southeast range extension.	GOSHEN: 1.5 mi S of Torrington, US 85, 4200'	15-Sep-98	RES
PAPILIONIDAE			
Parnassius smintheus	HOT SPRINGS: Wind River Canyon, 4850'	29-Jun-98	RES
Papilio polyxenes asterius Eastward range extension.	GOSHEN: 1.5 mi S of Torrington, US 85, 4200'	15-Sep-98	RES
Papilio zelicaon	WASHAKIE: US 16, 9300', 3.5 mi ESE of Meadowlark Lake	29-Jun-98	RES
Papilio eurymedon	JOHNSON: Mosier Gulch PG, US 16, 6300', 7 mi W of Buffalo	20-Jun-98	RES
PIERIDAE			
Euchloe hyantis lotta	Sweetwater: Cedar Mountain, 7000-7300', SW of Green River	02-Jun-98	CDF
Euchloe hyantis lotta	CARBON: SR 789 @ Continental Divide, 7318', 12 mi S CJ	08-Jun-98	RES
Anthocharis sara stella	Sublette: Slide Creek Falls, 8150-9500'	15-Jul-98 - 19-Jul-98	PT1
LYCAENIDAE			
Lycaena hyllus Confirms earlier records by DD in late July.	TETON: Willow Flats, Teton NP	09-Aug-98	PAO
Satyrium behrii Abundant.	Fremont: Red Canyon Ranch TNC, SW of Lander	23-Jun-98	CDF
Callophrys affinis	Fremont: Red Canyon Ranch TNC, SW of Lander	23-Jun-98	CDF
Leptotes marina 2nd STATE record; eastward range extension.	GOSHEN: 1.5 mi S of Torrington, US 85, 4200'	15-Sep-98	RES
Hemiargus isola Northeast range extension.	NIOBRARA: US 85, 3856', 4 mi SSW of Mule Creek Junction	05-Jun-98	RES
Everes comyntas 2nd STATE record; eastward range extension.	GOSHEN: 1.5 mi S of Torrington, US 85, 4200'	15-Sep-98	RES
Everes amyntula Northeast range extension.	SHERIDAN: US 14, 7500', Horseshoe Mtn Resort	29-Jun-98	RES
Euphilotes ancilla	NATRONA: Smith Crk Rd, 7200', E end of Casper Mountain	20-Jun-98	KAS
Plebejus shasta minnehaha	Sweetwater: Cedar Mountain, 7000-7300', SW of Green River	02-Jun-98	CDF
Plebejus shasta minnehaha Southeast range extension in Wyoming.	GOSHEN: US 85, 5020', hills 13 mi S of Lusk	05-Jun-98	RES
Plebejus shasta minnehaha	Fremont: Red Canyon Ranch TNC, SW of Lander	23-Jun-98	CDF
NYMPHALIDAE			
Vanessa annabella ?Early date. Hasn't CDF seen dozens over the decades?	ALBANY: Laramie, at Texaco gas station [collected !]	08-Jun-98	RES
Speyeria aphrodite ethne ?High elevation record.	WASHAKIE: US 16, 9300', 3.5 mi ESE of Meadowlark Lake	29-Jun-98	RES
Speyeria idalia Southeast range extension in Wyoming.	GOSHEN: 1.5 mi S of Torrington, US 85, 4200'	15-Sep-98	RES
Boloria napaea halli	Sublette: Osborne Mountain, 11900'	01-Aug-98	PT1
Euphydryas anicia	SWEETWATER: Cedar Mountain, 7000-7300', SW of Green River	02-Jun-98	CDF
Euphydryas anicia	Sweetwater: Exit 184, I-80, at Continental Divide, 8300'	08-Jun-98	RES
Euphydryas editha	Sweetwater: Cedar Mountain, 7000-7300', SW of Green River	02-Jun-98	CDF
Coenonympha haydenii	Sublette: Green River Lfakes, 8000-9500'	15-Jul-98 - 19-Jul-98	PT1
Erebia magdalena	Sublette: Flattop Mountain, 11600' and Upper Slide Crk Bsn	17-Jul-98 - 03-Aug-98	PT1
Erebia theano ethela	Sublette: Slide Creek Trail, 9000'	19-Jul-98	PT1
Neominois ridingsii Northeast range extension.	WESTON: US 85 @ Dewey Rd, 3850', 19 mi S of Newcastle	05-Jun-98	RES
Oeneis taygete	Sublette: Osborne Mountain, 11900'	01-Aug-98	PT1
Oeneis jutta	Sublette: Green River Lfakes, 8000-9500'	15-Jul-98 - 19-Jul-98	PT1
Moths			
GEOMETRIDAE			
Meris patula STATE record.	FREMONT: Red Canyon Ranch, TNC, SW of Lander	11-Aug-98	CDF
ARCTIIDAE			
Platyprepia virginalis STATE record.	NATRONA: Smith Crk Rd, 7200', E end of Casper Mountain	20-Jun-98	KAS
Pararcia yarrowii	Park: US 212, 10500', Beartooth Plateau	28-Jul-98	CEH

NOCTUIDAE

Heliothis belladonna STATE record and eastward range extension; diurnal.	FREMONT: Red Canyon Ranch, TNC, SW of Lander	21-May-98	CDF
Schinia edwardsi STATE record and eastward range extension; diurnal.	WASHAKIE: Tensleep TNC preserve, SE of Tensleep	25-Jun-98	CDF
Schinia grandimedia STATE record and northward range extension.	WASHAKIE: Tensleep TNC preserve, SE of Tensleep	23-Jul-98	CDF
Schinia gaurae Eastward range extension; 2nd STATE record.	GOSHEN: 6 mi SE of Torrington	14-Jun-98	CEH

Zone 5 Great Plains Saskatchewan, Manitoba, North Dakota, South Dakota, Nebraska, Kansas

Coordinator: Ronald Alan Royer

Contributors Cite

NED : Neil E. Dankert	DMG : Daniel M. Glaeske	G/G : Bernie Gollop & Mike Gollop
DRL : Douglas R. Long	GMM : Gary M. Marrone	JO1 : Jim Oberfoell
LBP : Loren & Babs Padelford	JMR : Jim M. Reiser	RAR : Ronald Alan Royer
SMS : Steven M. Spomer	RES : Ray E. Stanford	JWJ : John Weber, Jr
SGW : Steve G. Williams	MBZ : Myron B. Zimmer	

SASKATCHEWAN

Mike and Bernie Gollop (G/G) reported that the 1998 El Nino was a bonanza for early and late butterflies. Extensions to decade-old flight periods occurred for 49 (36%) of Saskatchewan's 138 species (with more than two records). Thirty-nine of these had record dates that averaged 9 days early, 3 being between 20-26 days. Sixteen species broke late dates by an average of 18 days with 5 between 26-71 days. Seven butterflies extended their flight periods at both ends. The Gollops compiled the report from a long list of collaborators including Mel Fitch, Robert Gebhart, Ron Hooper, Ross Layberry, Gerard Leahy, Anna Leighton, Keith Roney, and Lorriene and Craig Salisbury. Mel Fitch collected Saskatchewan's 3rd West Coast Lady and 6th American Lady near Eastend on the same day - 12 September. Monarchs were down significantly from 1997, a peak year.

Butterflies

HESPERIIDAE

Epargyreus clarus 3 days after previous late date	Roche Percee, 49° X 102°	28-Jul-98	G/G
Erynnis icelus 4 days before previous early date	Dundurn, 10 mi NW, 51° X 106°	09-May-98	G/G
Erynnis afranius 12 days before previous early date	Consul: 10 mi S, 49° X 109°	05-May-98	G/G
Erynnis persius 12 days before previous early date	Consul: 10 mi S, 49° X 109°	04-May-98	G/G
Pyrgus communis 12 days before previous early date	Saskatoon, 52° X 106°	13-May-98	G/G
Polites peckius 32 days after previous late date	Saskatoon: 2205 Ewart Ave, 52° X 106°	30-Jun-98	G/G
Polites themistocles 2 days before previous early date	Saskatoon: 2009 Park Ave, 52° 106°	30-Jun-98	G/G
Ochlodes sylvanoides 16 days before and 6 days after previous dates	Eastend, 49° X 108°	26-Jul-98 - 15-Sep-98	G/G
Euphyes vestris 2 days before previous early date	Sonningdale, 52° X 107°	18-Jun-98	G/G
Amblyscirtes vialis 9 days before previous early date	Dundurn, 10 mi NW, 51° X 106°	18-Jun-98	G/G

PAPILIONIDAE

Papilio oregonius dodi 12 days before previous early date	Eastend: Freel's, 49° X 108°	07-May-98	G/G
Papilio canadensis 5 days before previous early date	Eastend, 49° X 108°	08-May-98	G/G

PIERIDAE

Pieris rapae 26 days before previous early date	Saskatoon: 2205 Ewart Ave, 52° X 106°	04-Apr-98	G/G
Pieris marginalis 18 days before previous early date	Eastend, 49° X 108°	12-May-98	G/G
Euchloe olympia 8 days before previous early date	Dundurn, 10 mi NW, 51° X 106°	11-May-98	G/G

<i>Colias philodice</i> 4 days before and 2 days after previous dates	Eastend, 49° X 108°	03-May-98 - 30-Oct-98	G/G
<i>Colias christina</i> 44 days after previous late date	Saskatoon: 7 mi E, 52° X 106°	22-Sep-98	G/G
LYCAENIDAE			
<i>Lycaena rubida</i> 4 days before previous early date	Eastend, 49° X 108°	24-Jun-98	G/G
<i>Callophrys niphon</i> 4 days before previous early date	Duck Lake: 10 mi N, 52° X 106°	14-May-98	G/G
<i>Callophrys eryphon</i> 24 days before previous early date	Cypress Hills Prov. Pk: Boiler Crk Rd, 49° X 109°	06-May-98	G/G
<i>Euphilotes ancilla</i> 12 days before previous early date	Eastend: Freel's, 49° X 108°	31-May-98	G/G
<i>Glaucopsyche lygdamus</i> 5 days before previous early date	Regina, 50° X 104°	02-May-98	G/G
<i>Lycaeides melissa</i> 9 days before previous early date	Eastend: Freel's, 49° X 108°	16-May-98	G/G
<i>Plebejus saepiolus</i> 2 days before previous early date	Eastend, 49° X 108°	15-May-98	G/G
<i>Plebejus shasta</i> 18 days after previous late date	Eastend, 49° X 108°	18-Jul-98	G/G
<i>Plebejus acmon</i> 13 days before and 18 days after previous dates	Eastend, 49° X 108°	14-May-98	G/G
<i>Agriades rusticus</i> 5 days before and 27 days after previous dates	Eastend, 49° X 108°	14-May-98	G/G
NYPHALIDAE			
<i>Polygonia comma</i> 7th provincial record	Roche Percee, 49° X 102°	28-Jul-98	G/G
<i>Polygonia progne</i> 17 days before previous early date	Eastend, 49° X 108°	31-Mar-98	G/G
<i>Nymphalis vau-album</i> 4 days before previous early date	Saskatoon: 2202 York Ave, 52° X 106°	26-Mar-98	G/G
<i>Vanessa virginiensis</i> 30 days after previous late date; 6th provincial record.	Eastend: Freel's, 49° X 108°	12-Sep-98	G/G
<i>Vanessa annabella</i> 71 days after previous late date; 3rd & 4th provincial records.	Eastend, 49° X 108°	12-Sep-98 - 24-Oct-98	G/G
<i>Vanessa atalanta</i> 3 days before and 7 days after previous dates	Saskatoon, 52° X 106°; Eastend, 49° X 108°	27-Apr-98 - 24-Oct-98	G/G
<i>Euptoieta claudia</i> 6 days before previous early date	Eastend, 49° X 108°	24-May-98	G/G
<i>Speyeria idalia</i> PROVINCIAL RECORD	Minton, 12 mi SW, 49° X 104°	26-Jul-98	G/G
<i>Boloria selene</i> 14 days before previous early date	Saskatoon: 7 mi E, 52° X 106°	08-Jun-98	G/G
<i>Boloria bellona</i> 1 day before previous early date	Saskatoon: 7 mi E, 52° X 106°	11-May-98	G/G
<i>Boloria freija</i> 7 days before previous early date	Cypress Hills Provincial Pk: Boiler Crk, 49°X109°	06-May-98	G/G
<i>Boloria chariclea</i> 4 days before previous early date	McMahon L, 55° X 108°	10-Jul-98	G/G
<i>Phyciodes tharos</i> 20 days before and 1 day after previous dates	Consul: 10 mi S, 49°X109°; Ft Qu'Appelle, 50°X103°	04-May-98 - 27-Sep-98	G/G
<i>Phyciodes cocyta</i> 26 days after previous late date	Dundurn, 10 mi NW, 51° X 106°	07-May-98	G/G
<i>Phyciodes batesii</i> 3 days before previous early date	Saskatoon: 7 mi E, 52° X 106°	31-May-98	G/G
<i>Chlosyne acastus</i> 2 days before previous early date	Eastend, 49° X 108°	25-May-98	G/G
<i>Limenitis arthemis</i> 11 days before previous early date	Eastend, 49° X 108°	29-May-98	G/G
<i>Coenonympha tullia</i> 7 days after previous late date	Eastend, 49° X 108°	07-Sep-98	G/G
<i>Erebia disa mancinus</i> 18 days before previous early date	Tantallon: 5 mi S, 50° X 101°	27-May-98	G/G
<i>Erebia discoidalis</i> 3 days after previous late date	Saskatoon: Central Ave Prairie, 52° X 106°	06-Jun-98	G/G
<i>Erebia epipsodea</i> 5 days before previous early date	Saskatoon: 7 mi E, 52°X106°; Eastend, 49°X108°	22-May-98	G/G

Oeneis uhleri 3 days before previous early date	Eastend, 49° X 108°	12-May-98	G/G
Danaus plexippus 10 days before and 2 days after previous dates	Saskatoon @135 Saguenay Dr	23-May-98 - 09-Sep-98	G/G

KANSAS

Two separate reports were submitted.

Butterflies

HESPERIIDAE

Hylephila phyleus	SHERMAN: In town of Goodland, 3550'	09-Oct-98	RES
Hesperia leonardus pawnee Confirms earlier sightings	Cheyenne: S Fk Republican R, 3100'	25-Aug-98	RES
Hesperia viridis	SHERMAN: N Fk Smoky Hill Rd at Sherman Lake, 3600'	15-Jul-98	RES
Hesperia viridis EAST	LOGAN: Logan State Fishing Lake, 3000'	15-Jul-98	RES
Hesperia viridis Nectaring on dogbane	HAMILTON: Arkansas R at Syracuse	15-Jul-98	RES
Polites themistocles	CHEYENNE: S Fk Republican R, 3100'	15-Jul-98	RES
Anatrytone logan lagus	SHERMAN: N Fk Smoky Hill Rd at Sherman Lake, 3600'	15-Jul-98	RES
Euphyes bimaculata Confirms STATE	CHEYENNE: S Fk Republican R, 3100'	15-Jul-98	RES
Euphyes vestris kiowah EAST for ssp. kiowah	LOGAN: Logan State Fishing Lake, 3000'	15-Jul-98	RES
Amblyscirtes vialis	Lyon: Emporia	22-Sep-98	SGW

PAPILIONIDAE

Papilio polyxenes	Franklin: 10 mi E of Ottawa on I-35	22-Sep-98	SGW
Papilio polyxenes asterius	Wallace: Sharon Springs, 3380'	15-Jul-98	RES
Papilio glaucus	WALLACE: Sharon Springs, 3380'	15-Jul-98	RES
Papilio glaucus yellow morph	LOGAN: Logan State Fishing Lake, 3000'	15-Jul-98	RES
Papilio multicaudatus	Wallace: Sharon Springs, 3380'	15-Jul-98	RES

PIERIDAE

Pontia occidentalis	HAMILTON: Arkansas R at Syracuse	15-Jul-98	RES
Colias philodice	Wellington: At state line I-35 rest area	21-Sep-98	SGW
Colias eurytheme	Franklin: 10 mi E of Ottawa on I-35	22-Sep-98	SGW
Zerene cesonia	SHERMAN: N Fk Smoky Hill Rd at Sherman Lake, 3600'	15-Jul-98	RES
Zerene cesonia	LOGAN: Logan State Fishing Lake, 3000'	15-Jul-98	RES
Phoebis sennae eubule	Wellington: At state line I-35 rest area	21-Sep-98	SGW
Phoebis sennae eubule	Franklin: Ottawa	22-Sep-98	SGW
Phoebis sennae eubule	Wallace: Sharon Springs, 3380'	09-Oct-98	RES

LYCAENIDAE

Lycaena helloides EAST	HAMILTON: Arkansas R at Syracuse	17-Sep-98	RES
Satyrrium acidicum	LOGAN: Logan State Fishing Lake, 3000'	15-Jul-98	RES
Brephidium exile	SHERMAN: N Fk Smoky Hill Rd at Sherman Lake, 3600'	09-Oct-98	RES
Brephidium exile	WALLACE: Sharon Springs, 3380'	09-Oct-98	RES
Brephidium exile	STANTON: Johnson City	09-Oct-98	RES
Brephidium exile	GREELEY: Tribune, 3500'	09-Oct-98	RES
Brephidium exile	MORTON: Elkhart	09-Oct-98	RES
Leptotes marina	LOGAN: Logan State Fishing Lake, 3000'	15-Jul-98	RES

NYMPHALIDAE

Nymphalis antiopa	HAMILTON: Arkansas R at Syracuse	15-Jul-98	RES
Vanessa annabella	HAMILTON: Arkansas R at Syracuse	15-Jul-98 - 17-Sep-98	RES
Vanessa annabella	CHEYENNE: S Fk Republican R, 3100'	08-Oct-98	RES
Junonia coenia	SHERMAN: N Fk Smoky Hill Rd at Sherman Lake, 3600'	15-Jul-98	RES
Junonia coenia	Franklin: Ottawa	22-Sep-98	SGW
Junonia coenia	THOMAS: Exit 36, I-70 at SR 184	09-Oct-98	RES
Junonia coenia	KEARNEY: 1 mi SE Kendall, 3200'	09-Oct-98	RES
Speyeria edwardsii	HAMILTON: Arkansas R at Syracuse	17-Sep-98	RES
Asterocampa clyton	Franklin: Ottawa	22-Sep-98	SGW
Satyrodes eurydice STATE RECORD; one fresh male collected	CHEYENNE: S Fk Republican R, 3100'	15-Jul-98	RES
Cercyonis pegala	WICHITA: Marshy Cr, SR 96, 3 mi E Selkirk	15-Jul-98	RES
Danaus plexippus small migration	Franklin: Ottawa	22-Sep-98	SGW
Danaus gilippus	SHERMAN: N Fk Smoky Hill Rd at Sherman Lake, 3600'	15-Jul-98	RES
Danaus gilippus	WALLACE: Sharon Springs, 3380'	09-Oct-98	RES

Moths

GEOMETRIDAE

Haematopis grataria Franklin: In Ottawa 22-Sep-98 SGW

SPHINGIDAE

Hyles lineata CHEYENNE: S Fk Republican R, 3100' 25-Aug-98 RES
 Hyles lineata WALLACE: Sharon Springs, 3380' 09-Oct-98 RES
 Hyles lineata MORTON: Elkhart 09-Oct-98 RES
 Hyles lineata Greeley: Tribune, 3500' 09-Oct-98 RES
 Hyles lineata Stanton: Johnson City 09-Oct-98 RES
 Hyles lineata THOMAS: Exit 36, I-70 at SR 184 09-Oct-98 RES
 Hyles lineata Hamilton: Arkansas R at Syracuse 09-Oct-98 RES
 Hyles lineata SHERMAN: N Fk Smoky Hill Rd at Sherman Lake, 3600' 09-Oct-98 RES

ARCTIIDAE

Holomelina fragilis HAMILTON: Arkansas R at Syracuse 15-Jul-98 RES
 STATE RECORD
 Holomelina fragilis WALLACE: Sharon Springs, 3380' 15-Jul-98 RES
 Holomelina fragilis SHERMAN: N Fk Smoky Hill Rd at Sherman Lake, 3600' 15-Jul-98 RES

NOCTUIDAE

Papaipema necopina Franklin: In Ottawa 22-Sep-98 SGW
 Spodoptera ornithogalli Lyon: Emporia 22-Sep-98 SGW
 Helicoverpa zea Hamilton: Arkansas R at Syracuse 17-Sep-98 - 09-Oct-98 RES
 Helicoverpa zea Lyon: Emporia 22-Sep-98 SGW
 Helicoverpa zea Franklin: In Ottawa 22-Sep-98 SGW
 Helicoverpa zea Wallace: Sharon Springs, 3380' 09-Oct-98 RES
 Helicoverpa zea Greeley: Tribune, 3500' 09-Oct-98 RES
 Helicoverpa zea Morton: Elkhart 09-Oct-98 RES
 Helicoverpa zea Stanton: Johnson City 09-Oct-98 RES
 Helicoverpa zea Cheyenne: S Fk Republican R, 3100' 09-Oct-98 RES
 Helicoverpa zea Thomas: Exit 36, I-70 at SR 184 09-Oct-98 RES
 Helicoverpa zea Sherman: N Fk Smoky Hill Rd at Sherman State, 3600' 09-Oct-98 RES

NEBRASKA

Neil Dankert reported that resident butterflies enjoyed an average to good year. Weather was generally favorable, with only a portion of southwestern Nebraska suffering through an early summer drought. Numbers were generally good. Southern species appeared early and often, and they lingered well into October thanks to a mild autumn. Most unusual were multiple sightings of the rarely encountered Vanessa annabella in southwestern Nebraska. Jim Reiser also reported a new hostplant record, Ambrosia grayi, for Chlosyne gorgone. A total of 96 county records were found in 1998, bringing the species/county average to 50. A total of 120 species were observed, up from a total of 105 last year, in part through the numerous encounters with southern species. Sixteen moth species were added to the state checklist. With seven 1997 additions, this brings the state moth total to 681 species. Moth activity in south-central Nebraska peaked in late June and again in late August. In 23 days during the latter period, eight Schinia species, including two new state records, came to light at Neil Dankert's residence. Special thanks go out to Ron Leuschner and Charles Harp for many of the moth determinations.

Butterflies

HESPERIIDAE

Epargyreus clarus Wheeler: Pibel Lake 12-Jul-98 NED
 One worn example collected
 Epargyreus clarus CHEYENNE: Lodgepole Cr in Sydney nr Trinity Lutheran Church 13-Jul-98 RES
 Epargyreus clarus KIMBALL: field on CR6/59, 2.1 mi N CO state line, 4850' 13-Jul-98 RES
 Thousands of leps in this field, about 50 spp.
 Erynnis horatius SARPY: La Vista 01-Sep-98 JMR
 ex larva on Q. gambelii
 Erynnis funeralis Furnas: Holbrook area 31-Aug-98 DRL
 One collected, the first sighting since 1992/93
 Erynnis afranius DEUEL: Lodgepole Cr. 0.5 mi S Chappell, 3620' 13-Jul-98 RES
 Ancyloxypha numitor NEMAHA: Indian Cave SP 12-Aug-98 LBP
 75 sighted
 Ancyloxypha numitor CHEYENNE: Lodgepole Cr in Sydney nr Trinity Lutheran Church 24-Aug-98 RES
 Ancyloxypha numitor HAYES: Frenchman Cr. at Hamlet 25-Aug-98 RES
 Gallery forest
 Ancyloxypha numitor HITCHCOCK: 0.5 mi N Palisade 25-Aug-98 RES
 Hylephila phyleus NEMAHA: Indian Cave SP 12-Aug-98 LBP
 10 sighted
 Hylephila phyleus BUFFALO: T8N, R15W, S16 24-Sep-98 - 25-Oct-98 NED
 Hylephila phyleus DEUEL: Chappell, 3640' 25-Sep-98 RES
 Hylephila phyleus CHEYENNE: Lodgepole Cr in Sydney nr Trinity Lutheran Church 25-Sep-98 RES
 Widespread in SW Nebraska in 1998 -- very unusual (see Colorado)
 Hylephila phyleus KEARNEY: Alfalfa field just E of Minden 11-Oct-98 NED
 One collected

Hesperia uncas	CHASE: 1 mi SE Enders Dam, 3100'	14-Jul-98	RES
Hesperia uncas	RED WILLOW: 0.8 mi N Perry	25-Aug-98	RES
Hesperia ottoe	WHEELER: Clear Cr. and pasture just S of Pibel Lake	12-Jul-98	NED
One male collected			
Hesperia ottoe	DUNDY: US 34 @ Arikaree R., 2 mi WNW Haigler, 3180'	14-Jul-98	RES
One worn male nectaring swamp milkweed			
Hesperia ottoe	PERKINS: 0.5 mi E Grant	14-Jul-98	RES
One male nectaring at yellow composite (unusual)			
Hesperia leonardus pawnee	HITCHCOCK: 1 mi S Palisade	25-Aug-98	RES
Hesperia leonardus pawnee	RED WILLOW: 0.8 mi N Perry	25-Aug-98	RES
Nectaring (with H. uncas) at Liatris in shortgrass prairie hills			
Hesperia leonardus pawnee	HAYES: 1.5 mi S Hamlet, 3020'	25-Aug-98	RES
Nectaring Liatris in short grass prairie			
Hesperia viridis	KIMBALL: field on CR6/59, 2.1 mi N CO state line, 4850'	13-Jul-98	RES
All females; thousands of leps in this field, about 50 spp.			
Hesperia viridis	Cheyenne: Lodgepole Cr in Sydney nr Trinity Lutheran Church	13-Jul-98	RES
Females on town flowers			
Hesperia viridis	DUNDY: US 34 @ Arikaree R., 2 mi WNW Haigler, 3180'	14-Jul-98	RES
Nectaring swamp milkweed and thistle			
Polites themistocles	KIMBALL: Lodgepole Cr., 5 mi W Potter on US 30, 4560'	02-Jun-98	RES
Polites themistocles	WHEELER: Pibel Lake	12-Jul-98	NED
One collected, one other seen			
Polites mystic	WHEELER: Clear Cr., 1-2/3 mi N of Pibel Lake	12-Jul-98	NED
One collected, six seen, all worn			
Anatrytone logan lagus	ROCK: 12 mi S Bassett	01-Jul-98	SMS
Anatrytone logan lagus	KEITH: Lake Ogallala SRA, 1.5 mi below Kingsley Dam, 3200'	14-Jul-98	RES
Euphyes vestris	WHEELER: Clear Cr. and pasture just S of Pibel Lake	12-Jul-98	NED
Two observed			
Euphyes vestris	DEUEL: Lodgepole Cr. 0.5 mi S Chappell, 3620'	13-Jul-98	RES
Amblyscirtes vialis	KIMBALL: Lodgepole Cr., 5 mi W Potter on US 30, 4560'	02-Jun-98	RES
Amblyscirtes vialis	DEUEL: Lodgepole Cr. 0.5 mi S Chappell, 3620'	13-Jul-98	RES
Mostly worn, but 2 fresh			
Lerodea eufala	BUFFALO: T8N, R15W, S16	26-Sep-98	NED
One collected			
Lerodea eufala	FRANKLIN: 1 mi N, 1 mi W Franklin	11-Oct-98	NED
One collected			
PAPILIONIDAE			
Battus philenor	Furnas: Holbrook area	08-Sep-98	DRL
First Nebraska record since 1991			
Papilio polyxenes	Deuel: Chappell, 3640'	13-Jul-98	RES
Oviposition observed on poison hemlock; larvae on dill also			
Papilio bairdii	Kimball: field on CR6/59, 2.1 mi N CO state line, 4850'	13-Jul-98	RES
1 fresh individual; thousands of leps in this field, about 50 spp.			
Papilio troilus	LANCASTOR: Wilderness Park	18-Jul-98	SMS
One sighted			
PIERIDAE			
Pontia protodice	HAYES: 1.5 mi S Hamlet, 3020'	25-Aug-98	RES
Common			
Pontia occidentalis	DEUEL: Chappell, 3640'	13-Jul-98	RES
P. protodice also present			
Euchloe olympia	KEITH: Cedar Point Biological Station	14-May-98	NED
leg. Nick Pleskac			
Zerene cesonia	Deuel: Chappell, 3640'	13-Jul-98	RES
Two seen, one collected			
Zerene cesonia	DUNDY: US 34 @ Arikaree R., 2 mi WNW Haigler, 3180'	08-Oct-98	RES
One seen			
Phoebis sennae eubule	Kimball: field on CR6/59, 2.1 mi N CO state line, 4850'	13-Jul-98	RES
Two nectaring, thousands of leps in this field, about 50 spp.			
Phoebis sennae eubule	Furnas: Holbrook area	30-Aug-98	DRL
Common			
Eurema lisa	Furnas: Holbrook area	09-Sep-98 - 13-Sep-98	DRL
Common for four days			
Eurema lisa	GOSPER:	13-Sep-98	DRL
Eurema lisa	RED WILLOW:	13-Sep-98	DRL
Eurema nicippe	Lancaster: Wilderness Park	18-Apr-98	SMS
EARLY RECORD			
Eurema nicippe	Furnas: Holbrook area	20-Jul-98 - 12-Aug-98	DRL

LYCAENIDAE

Lycaena rubida	PERKINS: 0.5 mi E Grant	14-Jul-98	RES
Several seen along with L. dione, L. hyllus, and L. helloides			
Satyrrium acadicum	WHEELER: Hwy 281 5-3/4 mi S Bartlett	12-Jul-98	NED
One collected, one other observed			
Satyrrium liparops	LANCASTOR: Wilderness Park	16-Jun-98	SMS
Satyrrium liparops	WHEELER: 1 mi W Pibel Lake	12-Jul-98	NED
One collected			
Callophrys siva	Deuel: Lodgepole Cr. 0.5 mi S Chappell, 3620'	13-Jul-98	RES
Mostly worn, but 2 fresh			
Callophrys grynea	Furnas: Holbrook area	05-May-98	DRL
Typical two flights			
Strymon melinus	Red Willow: 0.8 mi N Perry	25-Aug-98	RES
Only one seen, collected			
Brephidium exile	LANCASTOR: Arbor Lake WMA	16-Sep-98	SMS
Occasional; first records in about 15 years			
Leptotes marina	CHEYENNE: SR 19 @ Lodgepole Creek, 4170'	02-Jun-98	RES
Widespread in W Nebraska and E Colorado in 1998			
Leptotes marina	KIMBALL: field on CR6/59, 2.1 mi N CO state line, 4850'	13-Jul-98	RES
Dozens nectaring (mostly females), thousands of leps in this field, about 50 spp.			
Leptotes marina	DEUEL: Chappell, 3640'	13-Jul-98 - 25-Sep-98	RES
Hemiargus isola alce	WHEELER: Clear Cr. and pasture just S of Pibel Lake	12-Jul-98	NED
One collected			
Celastrina argiolus	WHEELER: 1 mi W Pibel Lake	12-Jul-98	NED
One collected			
Euphilotes rita coloradensis	CHEYENNE: SR 19 @ CO state line, 4600'	13-Aug-98	RES
2nd state record			
Glaucopsyche lygdamus oro	Custer: Devil's Gulch, 2 mi N Arnold	12-May-98	NED
One male, one female collected, two others seen			
Plebejus acmon texana	DEUEL: Lodgepole Cr. 0.5 mi S Chappell, 3620'	13-Jul-98	RES

NYMPHALIDAE

Libytheana carinenta	Brown: Niobrara Valley Preserve HQ	01-Jul-98	SMS
One collected			
Libytheana carinenta	Furnas: Holbrook area	01-Sep-98	DRL
Common			
Polygonia interrogationis	KIMBALL: field on CR6/59, 2.1 mi N CO state line, 4850'	13-Jul-98	RES
Thousands of leps in this field, about 50 spp.			
Vanessa virginiensis	CHEYENNE: Lodgepole Cr in Sydney nr Trinity Lutheran Church	13-Jul-98 - 25-Sep-98	RES
Good year for Vanessa except V. atalanta			
Vanessa cardui	CLAY: 5 mi W Clay Center	17-Jul-98	SMS
Vanessa annabella	KIMBALL: field on CR6/59, 2.1 mi N CO state line, 4850'	13-Jul-98	RES
Several nectaring, thousands of leps in this field, about 50 spp.			
Vanessa annabella	Deuel: Chappell, 3640'	25-Sep-98	RES
Vanessa annabella	CHEYENNE: Lodgepole Cr in Sydney nr Trinity Lutheran Church	25-Sep-98	RES
Good year for Vanessa except V. atalanta			
Vanessa annabella	DUNDY: US 34 @ Arikaree R., 2 mi WNW Haigler, 3180'	08-Oct-98	RES
Nectaring in sunflowers			
Vanessa annabella	KEITH: Lake Ogallala SRA, 1.5 mi below Kingsley Dam, 3200'	08-Oct-98	RES
Vanessa annabella	CHASE: Imperial, 3300'	08-Oct-98	RES
Vanessa annabella	Furnas: Holbrook area	11-Oct-98 - 15-Oct-98	DRL
Vanessa atalanta	WHEELER: Pibel Lake	12-Jul-98	NED
One collected			
Junonia coenia	Lancastor: Wilderness Park	18-Apr-98	SMS
EARLY RECORD			
Junonia coenia	CHEYENNE: Lodgepole Cr in Sydney nr Trinity Lutheran Church	25-Sep-98	RES
Widespread in 1998, but not common			
Junonia coenia	DEUEL: Chappell, 3640'	25-Sep-98	RES
Speyeria aphrodite	DEUEL: Lodgepole Cr. 0.5 mi S Chappell, 3620'	13-Jul-98	RES
Speyeria idalia	DEUEL: Lodgepole Cr. 0.5 mi S Chappell, 3620'	13-Jul-98	RES
A banner year in NE Colorado and even Wyoming			
Speyeria idalia	DUNDY: US 34 @ Arikaree R., 2 mi WNW Haigler, 3180'	14-Jul-98	RES
At least three seen, one male collected			
Speyeria idalia	PERKINS: 0.5 mi E Grant	14-Jul-98	RES
Two seen here, others nearby			
Speyeria idalia	CLAY: 5 mi W Clay Center	17-Jul-98	SMS
Boloria selene sabulicollis	Wheeler: Clear Cr. and pasture just S of Pibel Lake	12-Jul-98	NED
One collected, seven others seen			
Phyciodes pratensis	CHEYENNE: SR 19 @ Lodgepole Creek, 4170'	02-Jun-98 - 25-Sep-98	RES

Chlosyne gorgone One collected	WHEELER: Clear Cr., 1-2/3 mi N of Pibel Lake	12-Jul-98	NED
Limenitis arthemis astyanax One observed	WHEELER: 1 mi W Pibel Lake	12-Jul-98	NED
Limenitis archippus One collected	WHEELER: Clear Cr., 1-2/3 mi N of Pibel Lake	12-Jul-98	NED
Asterocampa celtis One fresh female collected	Wheeler: Pibel Lake	12-Jul-98	NED
Satyrodes eurydice One collected, four others seen	WHEELER: Clear Cr. and pasture just S of Pibel Lake	12-Jul-98	NED
Satyrodes eurydice About 20 seen, some nectaring swamp milkweed	DUNDY: US 34 @ Arikaree R., 2 mi WNW Haigler, 3180'	14-Jul-98	RES
Satyrodes eurydice Several, some flying among cattails	KEITH: Lake Ogallala SRA, 1.5 mi below Kingsley Dam, 3200'	14-Jul-98	RES
Megisto cymela One collected, two seen	WHEELER: 1 mi W Pibel Lake	12-Jul-98	NED
Megisto cymela	CHEYENNE: Lodgepole Cr in Sydney nr Trinity Lutheran Church	13-Jul-98	RES
Cercyonis pegala	FRONTIER: Red Willow Res., 11.5 mi N McCook, 2600'	25-Aug-98	RES
Cercyonis pegala olympus One collected, one other seen	WHEELER: 1 mi W Pibel Lake	12-Jul-98	NED
Danaus plexippus Two flying southward	FRONTIER: Red Willow Res., 11.5 mi N McCook, 2600'	25-Aug-98	RES
Danaus gilippus strigosus Two or three seen nectaring, thousands of leps in this field, about 50 spp.	KIMBALL: field on CR6/59, 2.1 mi N CO state line, 4850'	13-Jul-98	RES

Moths

TORTRICIDAE

Olethreutes cespitana STATE RECORD, identification confirmed RHL	Buffalo: T8N, R15W, S 16	02-Jul-97	NED
Eucosma agricolana STATE RECORD, identification confirmed RHL	Buffalo: T8N, R15W, S 16	20-Jun-98	NED
Gypsonoma haimbachiana STATE RECORD, identification confirmed RHL	Buffalo: T8N, R15W, S 16	03-Aug-97	NED
Argyrotaenia velutinana STATE RECORD, identification confirmed RHL	BUFFALO: T8N, R15W, S 16	02-Jul-97	NED

PYRALIDAE

Ostrinia penitalis STATE RECORD, identification confirmed RHL	BUFFALO: T8N, R15W, S 16	03-Aug-97	NED
Fumibotys fumalis STATE RECORD, identification confirmed RHL	BUFFALO: T8N, R15W, S 16	17-Aug-98	NED
Microcrambus elegans STATE RECORD, identification confirmed RHL	Buffalo: T8N, R15W, S 16	02-Jul-97	NED
Parapediasia tenerella STATE RECORD, identification confirmed RHL	Buffalo: T8N, R15W, S 16	05-Aug-98	NED
Condylolomia participalis STATE RECORD, identification confirmed RHL	Buffalo: T8N, R15W, S 16	09-Jul-97	NED
Nephoterix delassalis STATE RECORD, identification confirmed RHL	Buffalo: T8N, R15W, S 16	10-Aug-98	NED
Homoeosoma electellum STATE RECORD, identification confirmed RHL	Buffalo: T8N, R15W, S 16	05-Aug-98	NED

GEOMETRIDAE

Semiothisa snoviata STATE RECORD, identification confirmed RHL	Buffalo: T8N, R15W, S 16	10-Aug-98	NED
Scopula junctaria STATE RECORD, identification confirmed RHL	Buffalo: T8N, R15W, S 16	17-Aug-98	NED
Archirhoe neomexicana STATE RECORD, identification confirmed RHL	Buffalo: T8N, R15W, S 16	17-Aug-98	NED

SATURNIIDAE

Anisota stigma Four collected, two others seen	BROWN: Niobrara Valley Preserve HQ	02-Jul-98	NED
---	------------------------------------	-----------	-----

NOTODONTIDAE

Heterocampa biundata STATE RECORD, identification confirmed RHL	Buffalo: T8N, R15W, S 16	02-Aug-97	NED
--	--------------------------	-----------	-----

ARCTIIDAE

Holomelina fragilis	DEUEL: Lodgepole Cr. 0.5 mi S Chappell, 3620'	13-Jul-98	RES
Holomelina fragilis STATE RECORD	CHEYENNE: Lodgepole Cr in Sydney nr Trinity Lutheran Church	13-Jul-98	RES
Holomelina fragilis	CHASE: 1 mi SE Enders Dam, 3100'	14-Jul-98	RES

NOCTUIDAE

Zanclognatha pedipilalis	Buffalo: T8N, R15W, S 16	17-Aug-98	NED
STATE RECORD, identification confirmed RHL			
Pseudeva purpurigera	BUFFALO: T8N, R15W, S 16	23-Jun-98	NED
STATE RECORD			
Marathyssa inficita	BUFFALO: T8N, R15W, S 16	17-Aug-98	NED
STATE RECORD			
Lithacodia muscosula	Buffalo: T8N, R15W, S 16	10-Aug-98	NED
STATE RECORD			
Homohadena infixa	Buffalo: T8N, R15W, S 16	27-Jun-98	NED
STATE RECORD, identification confirmed RHL			
Schinia siren	Buffalo: T8N, R15W, S 16	09-Aug-98	NED
Eight specimens			
Schinia lynx	Buffalo: T8N, R15W, S 16	16-Aug-98	NED
One specimen			
Schinia ultima	BUFFALO: T8N, R15W, S 16	09-Aug-98 - 21-Aug-98	NED
Five specimens, 1st or 2nd NE record			
Schinia arcigera	Buffalo: T8N, R15W, S 16	01-Sep-98	NED
One specimen			
Schinia mortua	BUFFALO: T8N, R15W, S 16	18-Aug-98 - 20-Aug-98	NED
Three specimens, fourth NE records			
Schinia jaguarina	Buffalo: T8N, R15W, S 16	01-Sep-98	NED
One specimen			
Schinia rivulosa	Buffalo: T8N, R15W, S 16	09-Aug-98	NED
One specimen			
Schinia nubila	BUFFALO: T8N, R15W, S 16	17-Aug-98	NED
STATE RECORD, one specimen			
Schinia saturata	Buffalo: T8N, R15W, S 16	09-Aug-98 - 21-Aug-98	NED
20 specimens			
Schinia trifascia	Buffalo: T8N, R15W, S 16	19-Aug-98	NED
One specimen			
Schinia tertia	BUFFALO: T8N, R15W, S 16	16-Aug-98 - 18-Aug-98	NED
STATE RECORD, two specimens			
Schinia chrysellia	BUFFALO: T8N, R15W, S 16	17-Aug-98	NED
Third NE record, one specimen			

NORTH DAKOTA

A relatively mild winter followed by early snow melt made for spring emergence of most species in good numbers. A second year of drought during June reduced many early summer species dramatically, however, *Speyeria idalia* had a good season and ranged widely in western counties, with examples encountered as far northwest as Burke County. Four entirely new sites were discovered for *Hesperia dacotae* in McHenry County, one encompassing nearly 600 contiguous acres, increasing confidence that the Towner-Karlsruhe area on the southern margin of Glacial Lake Souris hosts the most significant remaining metapopulation in the state. Preoccupation with the site-specific butterfly monitoring projects precluded extensive exploration of other areas, so few new records were recorded this year except for a nice set of reports from Jim Oberfoell for Golden Valley County.

Butterflies**HESPERIIDAE**

<i>Epargyreus clarus</i>	GOLDEN VALLEY: Sentinel Butte	22-Jun-98	JO1
<i>Thorybes pylades</i>	GOLDEN VALLEY: Sentinel Butte	31-May-98	JO1
<i>Pyrgus communis</i>	GOLDEN VALLEY: Sentinel Butte	11-Jul-98	JO1
<i>Pholisora catullus</i>	GOLDEN VALLEY: Beach	20-May-98	JO1
<i>Ancyloxypha numitor</i>	WILLIAMS: Missouri River Valley nr Williston	14-Jun-97	DMG
<i>Hesperia comma</i>	GOLDEN VALLEY: Sentinel Butte	14-Aug-98	JO1
<i>Hesperia dacotae</i>	McHenry: Towner-Karlsruhe area	25-Jun-98 - 13-Jul-98	RAR
Four new sites discovered			
<i>Polites origenes</i>	GOLDEN VALLEY: Buffalo Gap	12-Jul-98	JO1
<i>Ochlodes sylvanoides</i>	McKenzie: Roosevelt National Park	27-Jul-98 - 13-Aug-98	RAR
Common in early August; third consecutive year confirmed for state			
<i>Poanes hobomok</i>	STUTSMAN: Arrowwood NWR	26-May-98 - 01-Jul-98	RAR

PAPILIONIDAE

<i>Papilio bairdii</i> yellow form	Golden Valley: Sentinel Butte	12-Jun-98	JO1
---------------------------------------	-------------------------------	-----------	-----

PIERIDAE

<i>Pontia occidentalis</i>	GOLDEN VALLEY: Sentinel Butte	22-Jun-98	JO1
<i>Colias eurytheme</i>	GOLDEN VALLEY: Sentinel Butte	19-May-98	JO1
<i>Colias alexandra</i>	GOLDEN VALLEY: Sentinel Butte	22-Jun-98	JO1
An almost completely white specimen			

LYCAENIDAE

<i>Strymon melinus</i>	GOLDEN VALLEY: Buffalo Gap	15-Jul-98	JO1
------------------------	----------------------------	-----------	-----

Plebejus saepiolus	GOLDEN VALLEY: Sentinel Butte	30-May-98	JO1
Plebejus acmon	GOLDEN VALLEY: Bufalo Gap	15-Jul-98	JO1
RIODINIDAE			
Apodemia mormo	GOLDEN VALLEY: Bufalo Gap	13-Aug-98	JO1
NYMPHALIDAE			
Nymphalis vau-album	Slope: Burning Coal Vein Campground	28-Jul-98	RAR
A single example observed; first reported encounter in many years this far SW in state			
Speyeria cybele	GOLDEN VALLEY: Sentinel Butte	10-Jul-98	JO1
Speyeria aphrodite	GOLDEN VALLEY: Sentinel Butte	10-Jul-98	JO1
Speyeria idalia	BURKE: Lostwood National Wildlife Refuge	10-Jul-98	RAR
NORTHWEST			
Speyeria edwardsii	GOLDEN VALLEY: Sentinel Butte	22-Jun-98	JO1
Speyeria callippe	GOLDEN VALLEY: Sentinel Butte	22-Jun-98	JO1
Chlosyne acastus	GOLDEN VALLEY: Sentinel Butte	30-May-98	JO1
Limenitis weidemeyerii	GOLDEN VALLEY: Sentinel Butte	22-Jun-98	JO1
Satyrodes eurydice	BARNES: Clausen Springs County Park	16-Jul-98	JWJ
Cercyonis pegala	GOLDEN VALLEY: Sentinel Butte	13-Jul-98	JO1
Cercyonis oetus	GOLDEN VALLEY: Buffalo Gap	13-Aug-98	JO1
Moths			
SATURNIIDAE			
Antheraea polyphemus	Golden Valley: Sentinel Butte	02-Jul-98	JO1
Hyalophora columbia gloveri	Golden Valley: Sentinel Butte	20-May-98	JO1
Hyalophora columbia gloveri	Golden Valley: Sentinel Butte	06-Jun-98	JO1
A natural hybrid with H. cecropia			
Hyalophora columbia gloveri	Dunn: Killdeer Mountains	28-Jun-98	RAR
One gravid female			
SPHINGIDAE			
Sphinx chersis	GOLDEN VALLEY: Camel Hump Rest Area	01-Aug-98	JO1

SOUTH DAKOTA

Gary Marrone submitted one state and three county records.

Butterflies

LYCAENIDAE

Euphilotes ancilla	LAWRENCE: Mirror Lakes	18-Jun-95	GMM
STATE, a single, fresh male -- recently determined by RES			

NYMPHALIDAE

Vanessa annabella	EDMUNDS: Bowdle	28-Sep-98	MBZ
Collected five fresh specimens			
Neominois ridingsii	CUSTER: Nine mi SE Newcastle on US 16 at state line, 4600'	05-Jun-98	RES
Only second SD record, does not occur east of Black Hills			

Zone 6 South Central

Oklahoma, Texas, Arkansas, Louisiana

Coordinator: Charles W. Bordelon, Jr.

Contributors Cite

CWB : Charles W. Bordelon, Jr.
 NED : Neil E. Dankert
 NVG : Nick V. Grisham
 JK1 : Joann Karges
 R/E : D. Rudolf & C. Ely
 RHW : Roland H. Wauer

B/K : C. Bordelon & E. Knudson
 JFD : Joseph F. Doyle
 CEH : Charles E. Harp
 ECK : Edward C. Knudson
 CRS : Charles R. Sassine
 SGW : Steve G. Williams

DXC : Dale Clark
 GBG : Gary B. Gier
 MLI : Michael L. Israel
 Q/C : Mike Quinn & Carrie Cate
 RES : Ray E. Stanford

LOUISIANA

Butterflies

HESPERIIDAE

Erynnis funeralis	EAST FELICIANA: Ethel	30-Oct-98	MLI
Calpodus ethlius	JEFFERSON: Grand Isle	28-Oct-98	MLI
Panoquina ocola	EAST FELICIANA: Ethel	29-Oct-98	MLI
Panoquina ocola	CALCASIEU: Lake Charles	30-Oct-98	CWB

PIERIDAE

Zerene cesonia	EAST FELICIANA: Ethel	25-Oct-98	MLI
----------------	-----------------------	-----------	-----

RIODINIDAE

Calephelis virginiensis	WEST FELICIANA: M A Brown Nature Preserve	20-Oct-98 - 23-Oct-98	MLI
NYMPHALIDAE			
Agraulis vanillae	LAFOURCHE: Port Fourchon	29-Oct-98	MLI
Junonia coenia	LAFOURCHE: Port Fourchon	29-Oct-98	MLI
Phyciodes phaon	LAFOURCHE: Port Fourchon	29-Oct-98	MLI
Danaus gilippus strigosus	CALCASIEU: Lake Charles	30-Oct-98	CWB

Moths**SPHINGIDAE**

Enyo lugubris	JEFFERSON: Grand Isle	28-Oct-98	MLI
---------------	-----------------------	-----------	-----

OKLAHOMA**Butterflies****HESPERIIDAE**

Hylephila phyleus	ELLIS: US60 in Arnett	10-Oct-98	RES
Hylephila phyleus	HARPER: US270 @ May	10-Oct-98	RES
Amblyscirtes nysa	BEAVER: 11.5 mi E of Forgan	24-May-98	NED

PAPILIONIDAE

Battus philenor	KAY: 2 mi W of Blackwell	21-Sep-98	SGW
-----------------	--------------------------	-----------	-----

PIERIDAE

Pontia beckerii	CIMARRON: Cimarron River, 3.5 mi N of Kenton	18-Sep-98	RES
STATE RECORD			
Colias eurytheme	KAY: 2 mi W of Blackwell	21-Sep-98	SGW
Phoebis sennae eubule	CARTER: I-35 2 mi W of Ardmore	21-Sep-98	SGW

LYCAENIDAE

Lycaena helloides	CIMARRON: Cimarron River, 3.5 mi N of Kenton	18-Sep-98	RES
STATE RECORD			
Brephidium exile	Cimarron: Boise City	18-Sep-98	RES
locally common			
Brephidium exile	CIMARRON: Cimarron River, 3.5 mi N of Kenton	18-Sep-98	RES

NYMPHALIDAE

Polygonia interrogationis	CIMARRON: Boise City	16-Jul-98	RES
Junonia coenia	TEXAS: Guymon	09-Oct-98	RES
Phyciodes pratensis	CIMARRON: Cimarron River, 3.5 mi N of Kenton	18-Sep-98	RES
only second state capture; two specimens seen, one collected			
Thessalia fulvia	BEAVER: 11.5 mi E of Forgan	24-May-98	NED
ex larvae; adults emerged 10-20 June, 1998			

Moths**NOCTUIDAE**

Drasteria ingeniculata	KINGFISHER: 8 mi E of Okeene off Hwy 51 at Cimarron River	15-Jun-98	CEH
Ascalapha odorata	Noble: I-35 @ Perry	21-Sep-98	SGW
Ascalapha odorata	Texas: Guymon	09-Oct-98	RES
Anagrapha falcifera	Cimarron: Cimarron River, 3.5 mi N of Kenton	18-Sep-98	RES
Schinia volupia	Oklahoma: NE Oklahoma City; Lake Aluma	15-Jun-98	CEH
few adults on Gaillardia aestivalis & G. pulchella			
Schinia jaguarina	Oklahoma: 6 mi SW of Luther; hillside at I-44 & Hogback Rd	16-Jun-98	CEH
on Psoralidium tenuiflorum			
Schinia simplex	KINGFISHER: 12 mi W of Crescent	15-Jun-98 - 17-Jun-98	CEH
on Ipomoea leptophylla; found on same plant 13 mi W of Hennessey and S of Hwy 51			
Schinia gaurae	KINGFISHER: 8 mi E of Okeene off Hwy 51 at Cimarron River	15-Jun-98	CEH
on Gaura suffulta (new host)			
Schinia citrinella	Kingfisher: 8 mi E of Okeene off Hwy 51 at Cimarron River	15-Jun-98	CEH
on Croton texensis (new host)			

TEXAS

Bordelon (CWB) reported a mild, wet winter and a cool spring, followed by extreme heat and drought until fall. The cool spring and summer drought, combined with the fires in Mexico, did not prevent some very interesting species from turning up. Migratory patterns appeared to be normal, except for a large movement of the Southern Dogface (*Zerene cesonia*) in extreme eastern Texas. Only 5 new state records and 1 U.S. record were discovered in 1998; a far cry from previous seasons. Overall, disappointing, compared to the usual average.

Butterflies**HESPERIIDAE**

Phocides palemon lilea	Hidalgo: Penitas	14-Nov-98 - 21-Nov-98	CRS
Phocides palemon lilea	Cameron: Audubon Palm Grove Sanctuary	17-Nov-98 - 18-Nov-98	CWB
Urbanus dorantes	Cameron: Audubon Palm Grove Sanctuary	17-Nov-98	B/K
Urbanus teleus	Cameron: Audubon Palm Grove Sanctuary	17-Nov-98	B/K
Thorybes pylades	DENTON: Murrell P. Grapevine Lake	04-Apr-98 - 18-Apr-98	NVG

<i>Cogia outis</i>	ANDERSON: 4.5 mi NNE of Anderson Bethel	25-Apr-98	R/E
<i>Staphylus ceos</i>	HUDSPETH: US62/180 nr Hueco, 5400'	24-Mar-98	RES
<i>Gorgythion vox</i>	Hidalgo: Donna	01-Dec-98	Q/C
<i>Xenophanes tryxus</i>	UVALDE: SR127 3 mi S of Concan	14-Oct-98	JFD
<i>Systasea zampa</i>	HUDSPETH: US62/180 nr Hueco, 5400'	24-Mar-98	RES
<i>Chiomara asychis georgina</i>	DALLAS: Dallas	07-Oct-98	DXC
very common in the Rio Grande Valley, and apparently spread far northward in 1998			
<i>Chiomara asychis georgina</i>	TARRANT: Ft Worth	08-Oct-98 - 09-Oct-98	JK1
<i>Chiomara asychis georgina</i>	Starr: Fronton	11-Oct-98 - 14-Nov-98	B/K
very common in the Rio Grande Valley			
<i>Erynnis brizo</i>	HOPKINS: 2 mi SW of Tira	22-Mar-98	R/E
<i>Erynnis brizo</i>	WOOD: 5 mi NW of Quitman	28-Mar-98	R/E
<i>Erynnis juvenalis</i>	HOPKINS: 2 mi SW of Tira	22-Mar-98	R/E
<i>Erynnis juvenalis</i>	WOOD: 5 mi NW of Quitman	28-Mar-98	R/E
<i>Erynnis meridianus</i>	EL PASO: Ft Bliss, E of Franklin Mtns, 3980'	24-Mar-98	RES
<i>Erynnis funeralis</i>	DENTON: Murrell P. Grapevine Lake	18-Apr-98 - 08-May-98	NVG
<i>Erynnis funeralis</i>	FRANKLIN: 1.5 mi SSW of Mason	04-Oct-98	R/E
<i>Erynnis funeralis</i>	HUTCHINSON: Stinnett	10-Oct-98	RES
<i>Erynnis funeralis</i>	JIM HOGG: vic. of Hebbronville	11-Oct-98	B/K
<i>Erynnis funeralis</i>	SAN AUGUSTINE: 6 mi NW of Broaddus	24-Oct-98	R/E
<i>Erynnis baptisiae</i>	DENTON: Murrell P. Grapevine Lake	08-May-98	NVG
<i>Erynnis baptisiae</i>	ANGELINA: 8 mi SE of Zavalla	25-May-98	R/E
<i>Pyrgus scriptura</i>	Brewster: Big Bend NP	07-Sep-98 - 08-Nov-98	RHW
<i>Pyrgus communis</i>	CAMP: 5 mi NE of Pittsburg	04-Oct-98	R/E
<i>Pyrgus communis</i>	FRANKLIN: 1.5 mi SSW of Mason	04-Oct-98	R/E
<i>Pyrgus communis</i>	ROBERTS: Miami	10-Oct-98	RES
<i>Pyrgus communis</i>	CARSON: Skellytown	10-Oct-98	RES
<i>Pyrgus communis</i>	GRAY: Pampa	10-Oct-98	RES
<i>Pyrgus communis</i>	RED RIVER: 6 mi S of Bogota	25-Oct-98	R/E
<i>Celotes nessus</i>	HUDSPETH: US62/180 nr Hueco, 5400'	24-Mar-98	RES
<i>Pholisora catullus</i>	DALLAM: Dalhart	16-Jul-98	RES
<i>Hesperopsis alpheus</i>	Brewster: Big Bend NP	07-Sep-98 - 09-Sep-98	RHW
<i>Piruna haferniki</i>	Brewster: Big Bend NP	06-Sep-98	RHW
<i>Lerema accius</i>	DENTON: Murrell P. Grapevine Lake	16-Jun-98 - 06-Sep-98	NVG
<i>Lerema accius</i>	KARNES: nr Karnes City	23-Oct-98	SGW
<i>Perichares philetus</i>	Hidalgo: Yturria Brush NWR	05-Dec-98	ECK
<i>Perichares philetus</i>	Starr: Fronton	06-Dec-98	CWB
<i>Copaeodes aurantiacus</i>	RUNNELS: Ballinger	03-Oct-98	SGW
<i>Hylephila phyleus</i>	WISE: 9 mi N of Decatur	11-Apr-98	NVG
<i>Hylephila phyleus</i>	DENTON: Denton	20-Sep-98	SGW
<i>Hylephila phyleus</i>	HEMPHILL: Canadian	10-Oct-98	RES
<i>Hylephila phyleus</i>	JIM HOGG: vic. of Hebbronville	11-Oct-98	B/K
<i>Hesperia metea licinus</i>	WISE: 9 mi N of Decatur	29-Mar-98 - 11-Apr-98	NVG
<i>Hesperia attalus</i>	WHEELER: I-40, 2 mi W of Oklahoma state line	13-Jun-97	GBG
<i>Hesperia meskei</i>	NACOGDOCHES: 4 mi ENE of Pleasant Hill	31-May-98	R/E
<i>Polites origenes</i>	WISE: 9 mi N of Decatur	30-May-98 - 21-Jun-98	NVG
<i>Wallengrenia otho</i>	WISE: 9 mi N of Decatur	03-May-98 - 30-May-98	NVG
<i>Wallengrenia otho</i>	GRIMES: Camp Allen	16-May-98	NVG
<i>Wallengrenia otho</i>	MORRIS: 1 mi E of Cason	27-May-98	R/E
<i>Wallengrenia egeremet</i>	MORRIS: 1 mi E of Cason	27-May-98	R/E
<i>Wallengrenia egeremet</i>	CAMP: 5 mi NE of Pittsburg	27-May-98	R/E
<i>Wallengrenia egeremet</i>	HOPKINS: 2.5 mi NW of Peerless	07-Jun-98	R/E
<i>Wallengrenia egeremet</i>	DELTA: 8 mi SW of Klondike	07-Jun-98	R/E
<i>Pompeius verna</i>	CAMP: 5 mi NE of Pittsburg	27-May-98	R/E
<i>Atalopedes campestris</i>	DELTA: 8 mi SW of Klondike	07-Jun-98	R/E
<i>Atalopedes campestris</i>	HUTCHINSON: Stinnett	10-Oct-98	RES
<i>Atalopedes campestris</i>	ROBERTS: Miami	10-Oct-98	RES
<i>Atalopedes campestris</i>	CARSON: Skellytown	10-Oct-98	RES
<i>Atalopedes campestris</i>	DALLAM: Dalhart	10-Oct-98	RES
<i>Atalopedes campestris</i>	MOORE: Dumas	10-Oct-98	RES
<i>Atalopedes campestris</i>	JIM HOGG: vic. of Hebbronville	11-Oct-98	B/K
<i>Atalopedes campestris</i>	TITUS: 3.5 mi NW of Mt Pleasant	31-Oct-98	R/E
<i>Anatrytone logan lagus</i>	LAMAR: Pat Mayse WMA	26-Apr-98	NVG
<i>Poanes zabulon</i>	LAMAR: Pat Mayse WMA	26-Apr-98	NVG
<i>Poanes zabulon</i>	HOPKINS: 7 mi WSW of Peerless	07-Jun-98	R/E
<i>Poanes zabulon</i>	RAINS: 7.5 mi SW of Emory	21-Jun-98	R/E
<i>Poanes zabulon</i>	SMITH: 9.5 mi NW of Linsdale	21-Jun-98	R/E

Poanes viator	TRINITY: 6 mi S of Trinity	10-May-98	R/E
Quasimellana eulogius	Starr: Fronton	11-Oct-98 - 14-Nov-98	B/K
continues to be very common in Rio Grande Valley			
Euphyes dion	UPSHUR: 3.5 mi SW of Big Sandy	27-May-98	R/E
Euphyes dion	WOOD: 2 mi S of Mineola	21-Jun-98	R/E
Euphyes dion	HARRISON: 2.5 mi W of Darco	28-Jun-98	R/E
Euphyes ruricola metacomet	WISE: 9 mi N of Decatur	03-May-98 - 07-Jun-98	NVG
Euphyes ruricola metacomet	NEWTON: 1 mi W of Toledo	29-Aug-98	R/E
Atrytonopsis python	Brewster: Big Bend NP	28-Apr-98 - 02-Sep-98	RHW
Amblyscirtes hegon	BOWIE: 3 mi SW of Basset	28-Mar-98	R/E
Amblyscirtes hegon	CASS: 9 mi S of Linden	28-Mar-98	R/E
Amblyscirtes nysa	KINNEY: Brackettville	16-Oct-98	SGW
Amblyscirtes celia	REFUGIO: Refugio	14-Nov-98	SGW
several on yellow lantana			
Amblyscirtes belli	WISE: 9 mi N of Decatur	03-May-98 - 09-May-98	NVG
Amblyscirtes belli	DELTA: 8 mi SW of Klondike	07-Jun-98	R/E
Amblyscirtes alternata	WISE: 9 mi N of Decatur	29-Mar-98 - 30-May-98	NVG
Lerodea eufala	WISE: 9 mi N of Decatur	30-May-98	NVG
Lerodea eufala	HOPKINS: 2.5 mi NW of Peerless	07-Jun-98	R/E
Lerodea eufala	HEMPHILL: Canadian	10-Oct-98	RES
Lerodea eufala	ROBERTS: Miami	10-Oct-98	RES
Lerodea eufala	LIPSCOMB: Higgins	10-Oct-98	RES
on marigold flowers			
Lerodea dysaules	Cameron: Audubon Palm Grove Sanctuary	17-Nov-98	B/K
Oligoria maculata	JASPER: 7 mi NE of Rockland	24-May-98	R/E
Panoquina ocola	COOKE: L. Ray Roberts SP	05-May-98	NVG
Panoquina ocola	DALLAS: Dallas	07-Aug-98	DXC
Panoquina ocola	ANDERSON: 4.5 mi NNE of Anderson Bethel	09-Aug-98	R/E
Panoquina ocola	DENTON: Murrell P. Grapevine Lake	26-Sep-98 - 10-Oct-98	NVG
Panoquina ocola	FRANKLIN: 1.5 mi SSW of Mason	04-Oct-98	R/E
Panoquina ocola	WILSON: SR123 nr Stockdale	23-Oct-98	SGW
Panoquina ocola	HOPKINS: 2.5 mi N of Tira	25-Oct-98	R/E
Panoquina ocola	LAMAR: 2.5 mi E of Cunningham	25-Oct-98	R/E
Panoquina ocola	RED RIVER: 6 mi S of Bogota	25-Oct-98	R/E
Panoquina ocola	MARION: 3 mi N of Jefferson	30-Oct-98	R/E
leg. Chris Collins			
Panoquina ocola	PANOLA: 2.5 mi SSW of Tatum	11-Nov-98	R/E
Panoquina hecebola	Hidalgo: Madero	07-Dec-98	B/K
Panoquina sylvicola	Hidalgo: Madero	07-Dec-98	B/K
Megathymus yuccae reinthali	JEFFERSON: Beaumont	02-Apr-98	CWB
SE Texas material superficially identical to Florida specimens			
PAPILIONIDAE			
Battus philenor	COOKE: Gainesville	20-Sep-98	SGW
Battus philenor	NOLAN: SR153 15 mi SE of Sweetwater	02-Oct-98	SGW
Papilio polyxenes asterius	HOPKINS: 1.5 mi W of Peerless	07-Jun-98	R/E
Papilio polyxenes asterius	WEBB: Laredo	10-Aug-98	SGW
Papilio polyxenes asterius	FALLS: SR6 2 mi E of Marlin	20-Sep-98	SGW
Papilio thoas autocles	VAL VERDE: US277 @ Sycamore Creek, 14 mi SE of Del Rio	17-Oct-98	SGW
Papilio cresphontes	JIM HOGG: vic. of Hebbronville	10-Oct-98	B/K
Papilio ornithion	UVALDE: Concan	01-Oct-95	DXC
Papilio glaucus	WISE: 9 mi N of Decatur	07-Jun-98	NVG
Papilio glaucus	DELTA: 8 mi SW of Klondike	07-Jun-98	R/E
Papilio glaucus	HOPKINS: 7 mi WSW of Peerless	07-Jun-98	R/E
Papilio glaucus	WOOD: 2 mi S of Mineola	21-Jun-98	R/E
Eurytides marcellus	BOWIE: 3 mi SW of Basset	28-Mar-98	R/E
PIERIDAE			
Pontia protodice	CAMP: 5 mi S of Pittsburg	27-May-98	R/E
Pontia protodice	TITUS: 25 mi W of Long's Chapel	27-May-98	R/E
Pontia protodice	ROBERTS: Miami	10-Oct-98	RES
Ganyra josephina josepha	Cameron: Audubon Palm Grove Sanctuary	17-Nov-98	B/K
Anthocharis midea	SAN JACINTO: 5 mi W of Sheperd	01-Mar-98 - 12-Apr-98	NVG
Anthocharis midea	WISE: 9 mi N of Decatur	29-Mar-98	NVG
Anthocharis midea	ANGELINA: 8 mi SE of Zavalla	04-Apr-98	R/E
Colias philodice	DALLAS: Dallas	03-Oct-92	DXC
Colias philodice	MCCULLOUGH: US87 5 mi NW of Brady	02-Oct-98	SGW
Colias philodice	NOLAN: SR153 15 mi SE of Sweetwater	02-Oct-98	SGW

Colias philodice abundant	LIPSCOMB: Higgins	10-Oct-98	RES
Colias philodice	HEMPHILL: Canadian	10-Oct-98	RES
Colias philodice	ROBERTS: Miami	10-Oct-98	RES
Colias eurytheme	BELL: SR36 1 mi W of Temple	25-May-98	SGW
Colias eurytheme	ROBERTSON: SR6 nr Hearne	20-Sep-98	SGW
Colias eurytheme	FALLS: SR6 2 mi E of Marlin	20-Sep-98	SGW
Colias eurytheme	CARSON: Skellytown	10-Oct-98	RES
Colias eurytheme abundant	ROBERTS: Miami	10-Oct-98	RES
Zerene cesonia	WISE: 9 mi N of Decatur	29-Mar-98 - 30-May-98	NVG
Zerene cesonia	FALLS: SR6 2 mi E of Marlin	20-Sep-98	SGW
Zerene cesonia	ROBERTSON: SR6 nr Hearne	20-Sep-98	SGW
Zerene cesonia	HEMPHILL: Canadian	10-Oct-98	RES
Zerene cesonia	EDWARDS: FM674 22 mi SW of Rocksprings	16-Oct-98	SGW
Anteos clorinde nivifera	WEBB: Laredo	10-Aug-98	SGW
Anteos clorinde nivifera	VAL VERDE: nr Del Rio	11-Aug-98 - 17-Oct-98	SGW
Anteos clorinde nivifera	WILLACY: 5 mi NE of Raymondville	18-Sep-98	SGW
Anteos maerula	Cameron: Harlingen	20-Aug-98 - 08-Oct-98	SGW
Anteos maerula	MEDINA: Castroville	24-Aug-98	SGW
Anteos maerula	REFUGIO: Refugio	18-Sep-98	SGW
Anteos maerula	WILLACY: 5 mi NE of Raymondville	20-Sep-98	SGW
Phoebis sennae eubule	WISE: 9 mi N of Decatur	07-Jun-98	NVG
Phoebis sennae eubule	NOLAN: SR153 15 mi SE of Sweetwater	02-Oct-98	SGW
Phoebis sennae eubule	SCURRY: US84 2 mi NW of Snyder	02-Oct-98	SGW
Phoebis sennae eubule	MCCULLOUGH: US87 5 mi NW of Brady	02-Oct-98	SGW
Phoebis sennae eubule	RUNNELS: Ballinger	03-Oct-98	SGW
Phoebis sennae eubule	HEMPHILL: Canadian	10-Oct-98	RES
Phoebis sennae eubule	ROBERTS: Miami	10-Oct-98	RES
Phoebis sennae eubule	EDWARDS: FM674 22 mi SW of Rocksprings	16-Oct-98	SGW
Phoebis philea	Cameron: Santa Maria NWR	16-Nov-98	B/K
Phoebis agarithe	NOLAN: SR153 15 mi SE of Sweetwater	02-Oct-98	SGW
Phoebis agarithe	CAMP: 5 mi NE of Pittsburg	04-Oct-98	R/E
Phoebis agarithe	FRANKLIN: 1.5 mi SSW of Mason	04-Oct-98	R/E
Phoebis agarithe	TITUS: 11 mi SE of Mt Pleasant	04-Oct-98	R/E
Phoebis agarithe	HEMPHILL: Canadian	10-Oct-98	RES
Phoebis agarithe	EDWARDS: FM674 22 mi SW of Rocksprings	16-Oct-98	SGW
Phoebis agarithe	WILSON: SR123 nr Stockdale	23-Oct-98	SGW
Phoebis agarithe	GUADALUPE: SR123 S of Seguin	23-Oct-98	SGW
Phoebis agarithe	NEWTON: 4 mi W of Mayflower	24-Oct-98	R/E
Kricogonia lyside	Tarrant: Ft Worth	21-Jun-98	JK1
Kricogonia lyside	KARNES: nr Karnes City	23-Oct-98	SGW
Eurema proterpia	Cameron: Audubon Palm Grove Sanctuary	17-Nov-98	B/K
Eurema lisa	WASHINGTON: Brazos SP	18-Jun-89	SGW
Eurema lisa	WISE: 9 mi N of Decatur	23-May-98	NVG
Eurema lisa	ROBERTSON: SR6 nr Hearne	20-Sep-98	SGW
Eurema nicippe	WISE: 9 mi N of Decatur	03-May-98	NVG
Eurema nicippe	CAMP: 5 mi NE of Pittsburg	04-Oct-98	R/E
Eurema nicippe	JIM HOGG: vic. of Hebronville	11-Oct-98	B/K
Eurema boisduvalianum	Hidalgo: Santa Maria NWR	16-Nov-98	B/K
Eurema boisduvalianum	STARR: Fronton	06-Dec-98	CWB
Eurema mexicanum	Cameron: Audubon Palm Grove Sanctuary	17-Nov-98	B/K
Nathalis iole	WISE: 9 mi N of Decatur	29-Mar-98 - 21-Jun-98	NVG
Nathalis iole abundant	ROBERTS: Miami	10-Oct-98	RES
Nathalis iole	DUVAL: US59 2 mi W of Freer	17-Oct-98	SGW
Nathalis iole	KARNES: nr Karnes City	23-Oct-98	SGW
LYCAENIDAE			
Atlides haesus	HENDERSON: 1 mi E of Crossroads	28-Feb-98	R/E
Atlides haesus abundant	Tarrant: Ft Worth	01-Oct-98 - 21-Oct-98	JK1
Atlides haesus	FRANKLIN: 2 mi NNE of Hagansport	25-Oct-98	R/E
Atlides haesus	UPSHUR: Diana	31-Oct-98	R/E
Satyrium calanus falacer	GRIMES: Camp Allen	16-May-98	NVG
Satyrium calanus falacer	MORRIS: 1 mi E of Cason	27-May-98	R/E
Ministrymon clytie	Hidalgo: Madero	07-Dec-98	B/K
Calycopsis cecrops	WISE: 9 mi N of Decatur	29-Mar-98 - 21-Jun-98	NVG

<i>Calycopis cecrops</i>	TITUS: 6 mi S of Mt Pleasant	22-Aug-98	R/E
<i>Calophrys henrici turneri</i>	NACOGDOCHES: 10 mi SW of Nacogdoches	29-Mar-98	R/E
<i>Calophrys niphon</i>	ANDERSON: 8 mi WNW of Palestine	28-Feb-98	R/E
<i>Fixsenia favonius</i>	ANDERSON: 4.5 mi NNE of Anderson Bethel	25-Apr-98	R/E
<i>Parrhasius m-album</i>	WISE: 9 mi N of Decatur	27-Jun-98	NVG
<i>Strymon melinus</i>	KARNES: nr Karnes City	23-Oct-98	SGW
<i>Strymon bebrycia</i>	BREWSTER: Big Bend NP @ Tornillo & Boot Canyon	30-Apr-98	RHW
<i>Strymon alea</i>	Cameron: Audubon Palm Grove Sanctuary	20-Apr-98	B/K
<i>Strymon columella istapa</i>	DALLAS: Dallas	23-Jul-98	DXC
<i>Leptotes marina</i>	DALLAS: Dallas	27-Jun-93	DXC
<i>Leptotes marina</i>	TYLER: 0.5 mi NW of Rockland	02-May-98	R/E
<i>Leptotes marina</i>	KINNEY: Brackettville	16-Oct-98	SGW
<i>Leptotes marina</i>	VAL VERDE: nr Del Rio	17-Oct-98	SGW
<i>Hemiargus ceraunus zachaeina</i>	DENTON: Murrell P. Grapevine Lake	18-Sep-98 - 26-Sep-98	NVG
<i>Hemiargus ceraunus zachaeina</i>	Tarrant: Ft Worth	03-Dec-98 - 06-Dec-98	JK1
<i>Hemiargus isola alce</i>	NACOGDOCHES: 4 mi ENE of Pleasant Hill	03-May-98	R/E
<i>Hemiargus isola alce</i>	RUSK: 6.5 mi SE of Mt Enterprise	03-May-98	R/E
<i>Hemiargus isola alce</i>	TITUS: 25 mi W of Long's Chapel	27-May-98	R/E
<i>Hemiargus isola alce</i>	CAMP: 5 mi NE of Pittsburg	27-May-98	R/E
<i>Everes comyntas</i>	WISE: 9 mi N of Decatur	29-Mar-98 - 23-May-98	NVG
<i>Celastrina ladon</i>	SABINE: Six Mile	07-Mar-98	B/K
RIODINIDAE			
<i>Caria ino melicerta</i>	Hidalgo: Santa Maria NWR	16-Oct-98 - 16-Nov-98	B/K
common throughout lower Rio Grande Valley			
<i>Lasaia sula peninsularis</i>	Cameron: Audubon Palm Grove Sanctuary	20-Apr-98 - 17-Nov-98	B/K
<i>Lasaia sula peninsularis</i>	Hidalgo: Rio Rico Rd nr. Santa Maria	16-Nov-98	B/K
<i>Melanis pixe</i>	Hidalgo: Rio Rico Rd nr. Santa Maria	16-Nov-98	B/K
locally common			
<i>Apodemia chisosensis</i>	Brewster: Big Bend NP	30-Apr-98 - 08-May-98	RHW
NYMPHALIDAE			
<i>Libytheana bachmanii</i>	PANOLA: Deadwood	20-Feb-98	CWB
<i>Libytheana bachmanii</i>	WISE: 9 mi N of Decatur	03-May-98 - 30-May-98	NVG
<i>Libytheana bachmanii</i>	MARION: 3 mi N of Jefferson	30-Oct-98	R/E
leg. Richard Schaefer			
<i>Libytheana bachmanii</i>	CASS: 4 mi NNW of Dalton	31-Oct-98	R/E
<i>Libytheana bachmanii</i>	PANOLA: 2.5 mi SSW of Tatum	11-Nov-98	R/E
<i>Libytheana bachmanii larvata</i>	HEMPHILL: Canadian	10-Oct-98	RES
<i>Libytheana carinenta</i>	EDWARDS: FM674 22 mi SW of Rocksprings	16-Oct-98	SGW
<i>Agraulis vanillae</i>	CAMP: 5 mi NE of Pittsburg	04-Oct-98	R/E
<i>Agraulis vanillae</i>	HUTCHINSON: Stinnett	10-Oct-98	RES
<i>Agraulis vanillae</i>	KARNES: nr Karnes City	23-Oct-98	SGW
<i>Agraulis vanillae</i>	MARION: 3 mi N of Jefferson	30-Oct-98	R/E
leg. Richard Schaefer			
<i>Agraulis vanillae incarnata</i>	MADISON: Madisonville	07-Sep-89	SGW
<i>Agraulis vanillae incarnata</i>	LEE: 2 mi SE of Giddings	04-May-90	SGW
<i>Dryas iulia moderata</i>	UVALDE: Concan	01-Oct-95	DXC
<i>Dryas iulia moderata</i>	Cameron: Audubon Palm Grove Sanctuary	17-Nov-98	CWB
<i>Dryas iulia moderata</i>	Starr: Fronton	06-Dec-98	CWB
<i>Eueides isabella zorcaon</i>	Hidalgo: Donna	08-Nov-98 - 24-Nov-98	Q/C
<i>Eueides isabella zorcaon</i>	Hidalgo: Penitas	21-Nov-98	CRS
<i>Eueides isabella zorcaon</i>	STARR: Fronton	22-Nov-98	CRS
<i>Heliconius charitonius vazquezae</i>	UVALDE: Concan	01-Oct-95	DXC
<i>Heliconius charitonius vazquezae</i>	Starr: Fronton	06-Dec-98	CWB
<i>Polygonia interrogationis</i>	SABINE: 2 mi NW of Geneva	21-Feb-98	R/E
<i>Polygonia interrogationis</i>	MARION: Caddo Lake SP	21-Mar-98 - 28-Mar-98	NVG
<i>Polygonia interrogationis</i>	WISE: 9 mi N of Decatur	03-May-98 - 07-Jun-98	NVG
<i>Polygonia interrogationis</i>	KARNES: nr Karnes City	23-Oct-98	SGW
<i>Polygonia comma</i>	RED RIVER: 6 mi S of Bogota	22-Mar-98	R/E
<i>Polygonia comma</i>	HARRISON: Caddo Lake SP	15-Jun-98	ECK
at bait			
<i>Nymphalis antiopa</i>	RUSK: Kilgore	25-May-97	CWB
leg. Susan Lee			
<i>Nymphalis antiopa</i>	HUDSPETH: US62/180 nr Hueco, 5400'	24-Mar-98	RES
<i>Vanessa virginiensis</i>	WISE: 9 mi N of Decatur	29-Mar-98 - 21-Jun-98	NVG
<i>Vanessa virginiensis</i>	LAMAR: Pat Mayse WMA	26-Apr-98	NVG
<i>Vanessa virginiensis</i>	GRIMES: Camp Allen	16-May-98	NVG
<i>Vanessa virginiensis</i>	DELTA: 8 mi SW of Klondike	07-Jun-98	R/E

<i>Vanessa virginiensis</i>	HOPKINS: Birthright	07-Jun-98	R/E
<i>Vanessa virginiensis</i>	RAINS: 7.5 mi SW of Emory	21-Jun-98	R/E
<i>Vanessa virginiensis</i>	DALLAM: Dalhart	16-Jul-98	RES
<i>Vanessa virginiensis</i>	HEMPHILL: Canadian	10-Oct-98	RES
<i>Vanessa virginiensis</i>	ROBERTS: Miami	10-Oct-98	RES
<i>Vanessa virginiensis</i>	KARNES: nr Karnes City	23-Oct-98	SGW
<i>Vanessa cardui</i>	WISE: 9 mi N of Decatur	03-May-98 - 07-Jun-98	NVG
<i>Vanessa cardui</i>	ANDERSON: 4.5 mi NNE of Anderson Bethel	09-Aug-98	R/E
<i>Vanessa cardui</i>	ROBERTS: Miami	10-Oct-98	RES
no <i>atalanta</i> or <i>annabella</i> seen in Panhandle this fall			
<i>Vanessa cardui</i> abundant	HEMPHILL: Canadian	10-Oct-98	RES
<i>Vanessa cardui</i>	CARSON: Skellytown	10-Oct-98	RES
<i>Vanessa cardui</i>	TITUS: 3.5 mi NW of Mt Pleasant	25-Oct-98	R/E
<i>Vanessa cardui</i>	DELTA: 6 mi ESE of Cooper	25-Oct-98	R/E
<i>Vanessa annabella</i>	DALLAM: Dalhart	16-Jul-98	RES
<i>Vanessa atalanta rubria</i>	WISE: 9 mi N of Decatur	10-Apr-98	NVG
<i>Vanessa atalanta rubria</i>	SAN JACINTO: 5 mi W of Sheperd	12-Apr-98	NVG
<i>Vanessa atalanta rubria</i>	LAMAR: Pat Mayse WMA	26-Apr-98	NVG
<i>Vanessa atalanta rubria</i>	COOKE: Gainesville	20-Sep-98	SGW
<i>Vanessa atalanta rubria</i>	HOPKINS: 2.5 mi N of Tira	25-Oct-98	R/E
<i>Vanessa atalanta rubria</i>	TITUS: 3.5 mi NW of Mt Pleasant	25-Oct-98	R/E
<i>Junonia coenia</i>	LIPSCOMB: Higgins	10-Oct-98	RES
<i>Junonia coenia</i>	ROBERTS: Miami	10-Oct-98	RES
<i>Junonia coenia</i>	HEMPHILL: Canadian	10-Oct-98	RES
<i>Anartia jatrophae luteipicta</i> very common throughout lower Rio Grande Valley	Starr: Fronton	14-Nov-98	B/K
<i>Siproeta stelenes biplagiata</i>	Starr: Fronton	06-Dec-98	CWB
<i>Euptoieta claudia</i>	LAMAR: Pat Mayse WMA	26-Apr-98	NVG
<i>Euptoieta claudia</i>	TITUS: 25 mi W of Long's Chapel	27-May-98	R/E
<i>Euptoieta claudia</i> abundant	ROBERTS: Miami	10-Oct-98	RES
<i>Euptoieta claudia</i>	CARSON: Skellytown	10-Oct-98	RES
<i>Euptoieta claudia</i>	HEMPHILL: Canadian	10-Oct-98	RES
<i>Euptoieta claudia</i>	HUTCHINSON: Stinnett	10-Oct-98	RES
<i>Euptoieta claudia</i>	EDWARDS: FM674 22 mi SW of Rocksprings	16-Oct-98	SGW
<i>Euptoieta claudia</i>	GUADALUPE: SR123 S of Seguin	23-Oct-98	SGW
<i>Phyciodes phaon</i>	WOOD: 2 mi S of Mineola	21-Jun-98	R/E
<i>Phyciodes phaon</i>	HOPKINS: 2.5 mi N of Tira	25-Oct-98	R/E
<i>Phyciodes tharos</i>	WISE: 9 mi N of Decatur	29-Mar-98 - 27-Jun-98	NVG
<i>Phyciodes tharos</i>	DALLAM: Dalhart	16-Jul-98	RES
<i>Phyciodes tharos</i>	KINNEY: Brackettville	16-Oct-98	SGW
<i>Phyciodes vesta</i>	WISE: 9 mi N of Decatur	11-Apr-98	NVG
<i>Chlosyne gorgone carlota</i>	WISE: 9 mi N of Decatur	10-Apr-98	NVG
<i>Chlosyne nycteis</i>	DENTON: Murrell P. Grapevine Lake	06-Jun-98	NVG
<i>Chlosyne lacinia adjutrix</i>	NOLAN: SR153 15 mi SE of Sweetwater	02-Oct-98	SGW
<i>Chlosyne lacinia adjutrix</i>	SCURRY: US84 2 mi NW of Snyder	02-Oct-98	SGW
<i>Limenitis arthemis astyanax</i>	LAMAR: Pat Mayse WMA	26-Apr-98	NVG
<i>Limenitis arthemis astyanax</i>	WISE: 9 mi N of Decatur	09-May-98 - 21-Jun-98	NVG
<i>Limenitis arthemis arizonensis</i> first record of this species in extreme south Texas	STARR: Salineno	14-Nov-98	CWB
<i>Limenitis archippus</i>	WISE: 9 mi N of Decatur	03-May-98 - 27-Jun-98	NVG
<i>Limenitis archippus</i>	DALLAM: Dalhart	16-Jul-98	RES
<i>Limenitis archippus</i>	ANGELINA: 8 mi SE of Zavalla	02-Sep-98	R/E
<i>Adelpha fessonia</i>	Starr: Fronton	05-Dec-98	CRS
<i>Adelpha bredowii eulalia</i>	WISE: 9 mi N of Decatur	03-May-98 - 09-May-98	NVG
<i>Myscelia ethusa</i> common	Starr: Fronton	11-Oct-98 - 14-Nov-98	B/K
<i>Myscelia ethusa</i>	Hidalgo: Madero	07-Dec-98	B/K
<i>Eunica tatila</i>	Hidalgo: Penitas	17-Aug-98 - 29-Aug-98	CRS
<i>Epiphile adrasta</i> attributed to Gloria Tveten	WILLACY: El Canelo	25-Oct-98	Q/C
<i>Mestra amymone</i>	KENEDY: King Ranch rest area	18-Sep-98	SGW
<i>Mestra amymone</i> very common throughout lower Rio Grande Valley	Starr: Fronton	11-Oct-98 - 14-Nov-98	B/K
<i>Mestra amymone</i>	KINNEY: Brackettville	16-Oct-98	SGW
<i>Mestra amymone</i>	EDWARDS: FM674 22 mi SW of Rocksprings	16-Oct-98	SGW
<i>Mestra amymone</i>	KARNES: nr Karnes City	23-Oct-98	SGW

Hamadryas februa ferentina at bait	Starr: Fronton	12-Oct-98	ECK
Hamadryas februa ferentina	Hidalgo: Bentsen SP	15-Oct-98	B/K
Smyrna blomfieldia datis female collected at bait by C. Michael Hayes	Hidalgo: Palmview	18-Nov-98	ECK
Smyrna blomfieldia datis one female seen at very close range; over a dozen specimens collected or observed in 1998 !	Hidalgo: Madero	07-Dec-98	CWB
Anaea andria	WISE: 9 mi N of Decatur	29-Mar-98 - 21-Jun-98	NVG
Anaea andria	GRIMES: Camp Allen	16-May-98	NVG
Anaea andria	HEMPHILL: Canadian	10-Oct-98	RES
Anaea troglodyta aidea common	Starr: Fronton	11-Oct-98 - 14-Nov-98	B/K
Asterocampa celtis	WISE: 9 mi N of Decatur	09-May-98 - 27-Jun-98	NVG
Asterocampa clyton	WISE: 9 mi N of Decatur	21-Jun-98	NVG
Enodia anthedon STATE RECORD	WISE: 9 mi N of Decatur	31-Aug-97	NVG
Enodia anthedon	LAMAR: Pat Mayse WMA	26-Apr-98	NVG
Cyllopsis gemma	POLK: 6.5 mi ESE of Legett	17-Oct-98	R/E
Hermeuptychia sosybius	WISE: 9 mi N of Decatur	03-May-98 - 21-Jun-98	NVG
Megisto cymela	HOPKINS: 7 mi WSW of Peerless	07-Jun-98	R/E
Megisto rubricata	WISE: 9 mi N of Decatur	23-May-98 - 07-Jun-98	NVG
Cercyonis pegala texana	WISE: 9 mi N of Decatur	30-May-98 - 07-Jun-98	NVG
Danaus plexippus	WISE: 9 mi N of Decatur	10-Apr-98	NVG
Danaus plexippus	GRAY: Pampa	10-Oct-98	RES
Danaus plexippus common, flying southward	LIPSCOMB: Higgins	10-Oct-98	RES
Danaus plexippus migrating by the hundreds to the south	ROBERTS: Miami	10-Oct-98	RES
Danaus plexippus abundant, flying south	HEMPHILL: Canadian	10-Oct-98	RES
Danaus gilippus strigosus	WISE: 9 mi N of Decatur	30-May-98	NVG
Danaus gilippus strigosus	WILSON: SR123 nr Stockdale	23-Oct-98	SGW
Danaus gilippus strigosus	GUADALUPE: SR123 S of Seguin	23-Oct-98	SGW
Danaus gilippus strigosus	NACOGDOCHES: Nacogdoches	02-Dec-98	R/E
Danaus eresimus montezuma	BREWSTER: Big Bend NP @ Rio Grande Villiage	08-Sep-98	RHW
Danaus eresimus montezuma very common throughout lower Rio Grande Valley	Starr: Fronton	11-Oct-98 - 14-Nov-98	B/K

Moths

SESIIDAE

Zenodoxus palmii 1:1 ZZA/EZ2	STARR: Falcon SP	14-Nov-98	B/K
Paranthrene asilipennis 1:1 ZZA/EZ2	NEWTON: Wild Azalea Canyons	12-Jun-98	B/K
Paranthrene asilipennis 1:1 ZZA/EZ2	MORRIS: Daingerfield SP	15-Jun-98	B/K
Paranthrene simulans ZZA & 1:1 ZZA/EZ2	NEWTON: Wild Azalea Canyons	12-Jun-98	B/K
Paranthrene simulans 1:1 ZZA/EZA	HARRISON: Caddo Lake SP	14-Jun-98	B/K
Paranthrene simulans 1:1 ZZA/EZ2	MORRIS: Daingerfield SP	15-Jun-98	B/K
Paranthrene simulans 1:1 ZZA/EZ2	SABINE: Six Mile	15-Jun-98	B/K
Vitacea admiranda	CHAMBERS: Trinity River bridge @ I-10	10-Sep-98	ECK
Vitacea admiranda 1:1 ZZA/EZ2; very small specimen with 19mm wingspan	Starr: Falcon SP	12-Oct-98	B/K
Vitacea polistiformis ZZA/EZ2	MORRIS: Daingerfield SP	08-Aug-98	B/K
Vitacea sceansiformis 1:1 ZZA/EZ2	ORANGE: Tony Houseman WMA	01-Jun-98	B/K
Vitacea sceansiformis	NEWTON: Wild Azalea Canyons	12-Jun-98	B/K
Vitacea sceansiformis 1:1 ZZA/EZ2	MORRIS: Daingerfield SP	15-Jun-98	B/K
Euhagena emphytiformis EZ2; very early for SE Texas	Jefferson: Beaumont	07-Aug-98	CWB
Synanthedon scitula ZZA	NEWTON: Wild Azalea Canyons	12-Jun-98	B/K

Synanthedon refulgens "seminole"; indicates two broods in Texas; 1:1 ZZA/EZ2	JEFFERSON: Beaumont	15-May-98	CWB
Synanthedon refulgens "seminole"; 1:1 ZZA/EZ2	NEWTON: Wild Azalea Canyons	12-Jun-98	B/K
Synanthedon refulgens "seminole"; 1:1 ZZA/EZ2	MORRIS: Daingerfield SP	13-Jun-98	B/K
Synanthedon refulgens "seminole"; 1:1 ZZA/EZ2	SABINE: Six Mile	20-Sep-98	B/K
Synanthedon rubrofascia	ORANGE: Tony Houseman WMA	01-Jun-98	B/K
Synanthedon rubrofascia 1:1 ZZA/EZA	HARRISON: Caddo Lake SP	14-Jun-98	B/K
Synanthedon rubrofascia 1:1 ZZA/EZ2	SABINE: Six Mile	15-Jun-98	B/K
Synanthedon rubrofascia EZA	NEWTON: Wild Azalea Canyons	20-Sep-98	B/K
Synanthedon decipiens ZZA & 1:1 ZZA/EZ2	NEWTON: Wild Azalea Canyons	12-Jun-98	B/K
Synanthedon decipiens ZZA	MORRIS: Daingerfield SP	08-Aug-98	B/K
Synanthedon decipiens ZZA	HARRISON: Caddo Lake SP	20-Sep-98	CWB
Synanthedon decipiens ZZA	SABINE: Six Mile	20-Sep-98	B/K
Synanthedon kathyae 1:1 ZZA/EZ2	ORANGE: Tony Houseman WMA	01-Jun-98	B/K
Synanthedon kathyae 1:1 ZZA/EZ2	NEWTON: Wild Azalea Canyons	12-Jun-98	B/K
Synanthedon exitiosa ZZA	NEWTON: Wild Azalea Canyons	12-Jun-98	B/K
Synanthedon exitiosa ZZA	HARRISON: Caddo Lake SP	14-Jun-98	B/K
Synanthedon exitiosa ZZA	ORANGE: Vidor	28-Jul-98	B/K
Synanthedon exitiosa ZZA	MORRIS: Daingerfield SP	08-Aug-98	B/K
Podosesia aureocincta ZZA	SABINE: Six Mile	20-Sep-98	B/K
Podosesia aureocincta	ORANGE: Tony Houseman WMA	15-Oct-98	B/K
Podosesia syringae ZZA & 1:1 ZZA/EZ2	NEWTON: Wild Azalea Canyons	12-Jun-98	B/K
Podosesia syringae ZZA & 1:1 ZZA/EZ2	SABINE: Six Mile	15-Jun-98	B/K
Podosesia syringae ZZA & 1:1 ZZA/EZ2	MORRIS: Daingerfield SP	15-Jun-98	B/K
Carmenta armasata aberrant specimen, erroneously reported in 1996 SS as C. bassiformis; det. by T. Eichlin	CAMERON: Audubon Palm Grove Sanctuary	19-Nov-96	B/K
Carmenta armasata male patrolling around Latana camara	Cameron: Santa Maria NWR	16-Nov-98	B/K
Carmenta odda ZZA	JEFFERSON: Beaumont	15-May-97	CWB
Carmenta odda	Hardin: Village Creek SP	30-May-98	B/K
Carmenta odda ZZA & 1:1 ZZA/EZ2	ORANGE: Tony Houseman WMA	01-Jun-98	B/K
Carmenta odda	CHAMBERS: Trinity River bridge @ I-10	10-Sep-98	ECK
Carmenta odda ZZA	HARRISON: Caddo Lake SP	20-Sep-98	B/K
Alcathoe autumnalis	CAMERON: Audubon Palm Grove Sanctuary	17-Nov-98	B/K
COSSIDAE			
Acosus connectus	Hidalgo: Santa Anna Refuge	17-Apr-98	ECK
TORTRICIDAE			
Eucosma sierrae	HIDALGO: Yturria Brush NWR	14-Nov-98 - 15-Nov-98	ECK
MEGALOPYGIDAE			
Norape virgo	Cameron: Audubon Palm Grove Sanctuary	19-Apr-98	B/K
Norape ovina STATE RECORD	NACOGDOCHES: Sam Houston Experimental Forest	10-Aug-97	ECK
Norape ovina	NEWTON: Burkeville	12-Jun-98	B/K
Norape ovina	HARRISON: Caddo Lake SP	14-Jun-98	CWB

LIMACODIDAE				
Phobetron pithecium one larva found	TARRANT: Ft Worth	08-Oct-98	JK1	
PYRALIDAE				
Palpita flegia	JEFFERSON: Beaumont	12-Sep-98	CWB	
Monoptilota pergratialis STATE RECORD	HARRISON: Caddo Lake SP	14-Jun-98	ECK	
Dioryctria disclusa	MORRIS: Daingerfield SP	13-Jun-98	ECK	
Dioryctria disclusa	HARRISON: Caddo Lake SP	14-Jun-98	ECK	
THYRIDIDAE				
Thyris maculata 1:1 ZZA/EZ2	HIDALGO: Santa Maria NWR	16-Nov-98	B/K	
Thyris maculata	CAMERON: Audubon Palm Grove Sanctuary	17-Nov-98	B/K	
HYBLAEIDAE				
Hyblaea puera STATE RECORD	CAMERON: Audubon Palm Grove Sanctuary	18-Oct-98	ECK	
THYATIRIDAE				
Euthyatira pudens	Sabine: Six Mile	07-Mar-98	B/K	
GEOMETRIDAE				
Ceratonyx satanaria	MORRIS: Daingerfield SP	18-Feb-98	B/K	
Caripeta aretaria	Sabine: Six Mile	07-Mar-98	B/K	
Heterusia atalantata	STARR: Fronton	05-Dec-98	ECK	
URANIIDAE				
Urania fulgens leg. Terry Fuller	Cameron: nr San Benito	01-Nov-98	Q/C	
LASIOCAMPIDAE				
Tolype mayelisae	HIDALGO: Yturria Brush NWR	14-Nov-98 - 15-Nov-98	ECK	
SATURNIIDAE				
Anisota stigma "fuscosa"	HARRISON: Caddo Lake SP	14-Jun-98	B/K	
Anisota virginiensis "discolor"	MORRIS: Daingerfield SP	13-Jun-98	B/K	
Actias luna	HARRISON: Caddo Lake SP	14-Jun-98	B/K	
Rothschildia lebeau forbesi good pupa found, awaiting emergence	STARR: Fronton	11-Oct-98	B/K	
SPHINGIDAE				
Manduca sexta	STARR: Fronton	12-Oct-98	B/K	
Sphinx asella	TERRY: Brownfield	30-May-98	SGW	
Paonias myops	MORRIS: Daingerfield SP	13-Jun-98	B/K	
Erinnyis ello	JIM HOGG: vic. of Hebronville	10-Oct-98	B/K	
Erinnyis obscura	JIM HOGG: vic. of Hebronville	10-Oct-98	B/K	
Pachylia ficus	CAMERON: Audubon Palm Grove Sanctuary	17-Nov-98	CWB	
Aellopos clavipes larva on Randia rhagocarpa; adult emerged 12-Nov-98	Cameron: Audubon Palm Grove Sanctuary	17-Oct-98	B/K	
Aellopos titan	Nueces: Corpus Christi	18-Sep-98	SGW	
Sphecodina abbottii	HARRISON: Caddo Lake SP	14-Jun-98	B/K	
Deidamia inscripta	HARRISON: Caddo Lake SP	19-Feb-98	CWB	
Amphion floridensis	HARRISON: Caddo Lake SP	14-Jun-98	B/K	
Darapsa myron	MORRIS: Daingerfield SP	13-Jun-98	B/K	
Darapsa myron	HARRISON: Caddo Lake SP	14-Jun-98	B/K	
ARCTIIDAE				
Biturix venosata newly emerged male and discarded pupa on Chiococca alba	Cameron: Audubon Palm Grove Sanctuary	17-Oct-98 - 18-Oct-98	B/K	
Halysidota schausi	KENEDY: King Ranch rest area	18-Sep-98	SGW	
Apeplopora mecrida STATE RECORD	STARR: Salineno	14-Nov-98	CWB	
GEOMETRIDAE				
Molgbdogompha polygmydata 3rd U.S. capture	Hidalgo: Bentsen SP	06-Dec-98	ECK	
Phalaenophana pyramusalis	HARRISON: Caddo Lake SP	14-Jun-98	ECK	
Oxycilla malaca STATE RECORD	MORRIS: Daingerfield SP	13-Jun-98	ECK	
Hypena abjuralis	Starr: Roma	11-Oct-98	ECK	
Itomia opisthographa	Cameron: Audubon Palm Grove Sanctuary	17-Oct-98 - 16-Nov-98	B/K	
Gonodonta pyrgo found in 1:1 ZZA/EZ2 pheromone trap	STARR: Falcon SP	11-Oct-98	B/K	

Litoprosopus futilis	Cameron: Audubon Palm Grove Sanctuary	19-Apr-98	B/K
Litoprosopus confliens	Cameron: Audubon Palm Grove Sanctuary	16-Nov-98	CWB
Massala obvertens	JIM HOGG: vic. of Hebronville	14-Nov-98	B/K
Massala obvertens	Cameron: Audubon Palm Grove Sanctuary	16-Nov-98	CWB
Melipotis perpendicularis	Starr: Roma	12-Oct-98	B/K
Thysania zenobia	Cameron: Audubon Palm Grove Sanctuary	17-Nov-98	CWB
Ascalapha odorata	KARNES: nr Karnes City	23-Oct-98	SGW
Coenipeta bibitrix at bait	Hidalgo: Bentsen SP	16-Oct-98	ECK
Toxonprucha repentis	JEFFERSON: Beaumont	13-Sep-98	CWB
Eubolina impartialis	JEFFERSON: Beaumont	12-Sep-98	CWB
Catocala connubialis	JEFFERSON: Beaumont	09-May-98	CWB
Autoplusia egena	Cameron: Audubon Palm Grove Sanctuary	16-Nov-98	CWB
Cobubatha orthozona	JEFFERSON: Beaumont	12-Sep-98	CWB
Metaponpneumata rogenhoferi	JEFFERSON: Beaumont	13-Sep-98	CWB
Acontia dacia	Cameron: Audubon Palm Grove Sanctuary	19-Apr-98	B/K
Bagisara pacifica	Cameron: Audubon Palm Grove Sanctuary	17-Oct-98	ECK
Bagisara tristicta	JIM HOGG: Hebronville	15-Nov-98	ECK
Charadra dispulsa	JEFFERSON: Beaumont	04-Mar-98 - 05-Mar-98	CWB
Euscirrhopterus cosyra	JIM HOGG: Hebronville	10-Oct-98	ECK
Psychomorpha epimenis	JEFFERSON: Beaumont	03-Mar-98	CWB
Androloma disparata abundant; females ovipositing on	Hidalgo: Santa Maria NWR Campsis radicans	16-Oct-98	B/K
Acroia terens U.S. RECORD (just identified)	CAMERON: Audubon Palm Grove	04-Dec-94 - 05-Dec-94	ECK
Cropia connecta	Hidalgo: Bentsen SP	15-Oct-98	B/K
Cropia templada	Hidalgo: Bentsen SP	15-Oct-98	B/K
Callopietria mollissima	HARRISON: Caddo Lake SP	14-Jun-98	B/K
Callopietria cordata	HARRISON: Caddo Lake SP	14-Jun-98	CWB
Condica pyromphalus	Cameron: Audubon Palm Grove Sanctuary	17-Oct-98	B/K
Orthosia hibisci	MORRIS: Daingerfield SP	18-Feb-98	B/K
Agrotis repleta STATE RECORD	CAMERON: Audubon Palm Grove Sanctuary	20-Apr-98	ECK
Helicoverpa zea common in town	LIPSCOMB: Higgins	10-Oct-98	RES
Schinia rivulosa	JOHNSON: I-35 rest area nr Cleburne	20-Sep-98	SGW
Schinia hanga	STARR: Roma	11-Oct-98	ECK
Schinia thoreau	JOHNSON: I-35 rest area nr Cleburne	20-Sep-98	SGW
Schinia regia	JIM HOGG: vic. of Hebronville	10-Oct-98	B/K
Schinia ciliata	JIM HOGG: Hebronville	15-Nov-98	ECK

Zone 7 Ontario/Quebec

Ontario, Quebec

Coordinator: Alan J. Hanks

Contributors Cite

E-A : Eric Anderman
 PWH : Peter Hall
 L-S : Lori Schaefer
 AJW : Alan J. Wormington

JAB : Alan Brown
 B-H : Barry Harrison
 R-S : Rosemary Scott
 R-Y : Robert Yukich

JJD : Jason Dombroskie
 AMH : Anthony Holmes
 L-T : Lloyd Taman

ONTARIO

Butterflies

HESPERIIDAE

Erynnis icelus Uncommon in this area	York: Scarborough (Toronto)	30-May-98	B-H
Erynnis funeralis Two previous Ontario records at Point Pelee (1990 and 1992)	York: Scarborough (Toronto)	27-Sep-98	R-Y
Erynnis lucilius Previously unreported in this area	York: Scarborough (Toronto)	05-Jun-98	B-H
Erynnis lucilius 4 specimens seen	Renfrew: Richard's twp.	19-Jun-98	JJD
Erynnis baptisiae	Hamilton/Wentworth area	25-Jul-98	AJW

Erynnis baptisiae	York: Scarborough (Toronto)	17-Sep-98 - 30-Sep-98	B-H
Previously recorded only from Windsor, Wapole Is. and St. Williams			
Pyrgus centaureae	Timiskaming Dist.: Matachewan	14-May-98	L-T
Infrequent records in this District			
Carterocephalus palaemon	York: Claremont (Durham)	01-Jun-98	B-H
Uncommon in this area			
Ancyloxypha numitor	Timiskaming Dist.: Matachewan	22-Jul-98	L-T
Infrequent records in this District			
Hylephila phyleus	Point Pelee NP	20-Jul-98 - 09-Nov-98	AJW
largest invasion ever in southern Ontario; record late dates and first skipper of ANY species to be taken in November			
Anatrytone logan	Ottawa-Carleton: Burrits Rapids (1.5km SE of)	19-Jul-98	PWH
First record for Eastern Ontario			
Poanes viator	York: Scarborough (Toronto)	27-Jun-98 - 01-Jul-98	B-H
Locally uncommon			
Euphyes dion	Essex: Kopegaron Conservation area	09-Aug-98	PWH
Euphyes dukesi	Essex: Kopegaron Conservation area	09-Aug-98	PWH
Panoquina ocola	Point Pelee NP	01-Oct-98 - 16-Oct-98	AJW
4 specimens taken by AJW, Robert & Karen Yukich, and Michael King; previously taken only in 1991 & 1995; late date			
PAPILIONIDAE			
Battus philenor	Point Pelee NP	20-May-98 - 21-Jul-98	AJW
major incursion from 26-June through 21-July when species was observed daily; maximum of 11 on 26-June			
Battus philenor	Halton: Oakville (Halton)	29-Jul-98 - 06-Sep-98	JAB
Up to 79 larvae (all instars) on 32 year old pipevine - no adults seen			
Papilio polyxenes	Thunder Bay Dist.: Thunder Bay	28-Jun-98	L-S
2 larvae on dill in garden (2nd year for this species)			
Papilio machaon	Thunder Bay Dist.: Thunder Bay	21-Jun-98	L-S
Only 1 seen in general area			
Papilio glaucus	Leeds & Grenville: Chaffey's Locks	12-Jul-98	PWH
Second generation but resembles Papilio canadensis			
Papilio troilus	Haldimand-Norfolk: Backus Woods	03-Aug-98	PWH
Eurytides marcellus	Point Pelee NP	25-Jun-98	AJW
leg. Henrietta T. O'Neill; first record since 1988; extremely rare in Ontario			
PIERIDAE			
Colias interior	Thunder Bay Dist.: Thunder Bay	27-Jun-98	L-S
Phoebis sennae eubule	Point Pelee NP	30-May-98 - 25-Sep-98	AJW
last date by Stephen T. Pike at Windsor			
Eurema lisa	Essex: 1 km N of Point Pelee Nat. Park	08-Aug-98	PWH
Occasional migrant			
Eurema nicippe	Point Pelee NP	13-Jun-98	AJW
leg. Henrietta T. O'Neill; only second record for Point Pelee and fifth for Ontario and Canada			
LYCAENIDAE			
Feniseca tarquinius	Point Pelee NP	10-May-98	AJW
leg. Stephen T. Pike & Katherine A. Gignac; third record for Point Pelee			
Feniseca tarquinius	Renfrew: Round Lake Centre	25-Jul-98	JJD
Feniseca tarquinius	Renfrew: Lake Dore	08-Aug-98	JJD
Satyrium caryaevorum	Point Pelee NP	27-Jun-98	AJW
fifth record for Point Pelee; also an early record			
Satyrium liparops	Thunder Bay Dist.: Thunder Bay	14-Jul-98	L-S
Callophrys grynea	Point Pelee NP	14-May-98	AJW
major outbreak; record early date for first brood and second brood on 11-July			
Callophrys grynea	Hastings: Hwy. 401, 2 km E of Shannonville Road	06-Jun-98	PWH
Locally common in this area			
Callophrys grynea	Essex: West Beach, Point Pelee Nat. Park	07-Aug-98	PWH
Locally common in this area			
Strymon melinus	Renfrew: Round Lake Centre	27-May-98	JJD
Uncommon in this area			
Erora laeta	Renfrew: Hagarty twp.	13-May-98	E-A
Rare - none recorded in Ontario in 1997			
Everes comyntas	Ottawa-Carleton: Mer Bleue Bog	06-Sep-98	PWH
Extremely rare at northeastern edge of range			
Celastrina neglecta	Renfrew: Wilberforce twp.	08-Aug-98	JJD
NYMPHALIDAE			
Libytheana bachmanii	Point Pelee NP	20-May-98	AJW
leg. Chris Burris; very early date for arrival of first immigrants			
Nymphalis milberti	Ottawa-Carleton: Ottawa	28-Mar-98	PWH
Early record for this species in the area			
Euptoieta claudia	Point Pelee NP	26-Jun-98 - 30-Sep-98	AJW

Boloria titania	Timiskaming Dist.: Beauty Lake Rd., s of Hwy. 560 & w of Elk Lake	21-Jul-98	AMH
Distribution sporadic but plentiful where found along some 10 to 20 km of road			
Boloria titania	Timiskaming Dist.: Hwy. 65 between Elk Lake & Matachewan	21-Jul-98	AMH
Sandy area with Vaccinium & Sweet Gale - some Jack Pine. B. freija encountered here in previous years			
Chlosyne gorgone	Leeds & Grenville: Hanlon's Marsh, S of Merrickville	19-Jul-98	PWH
Two new colonies for Eastern Ontario			
Euphydryas phaeton	Middlesex: Komoka Provincial Park (nr. London)	02-Jun-98	R-S
Larvae on Plantain (Plantago lanceolata) - no Turtlehead in area - previously unreported foodplant in Ontario (?)			
Euphydryas phaeton	Essex: McGregor	18-Jun-98	AJW
leg. Fred J. Urie; only second known colony for Essex County			
Limnitis arthemis	Thunder Bay Dist.: Thunder Bay	27-Jun-98	L-S
2 specimens seen			
Asterocampa celtis	Essex: Stone Road Alvar, Pelee Island	06-Aug-98	PWH
Abundant			
Asterocampa clyton	Essex: Stone Road Alvar, Pelee Island	06-Aug-98	PWH
Enodia anthedon	Timiskaming Dist.: Matachewan	23-Jun-98 - 14-Jul-98	L-T
Infrequent records in this District			
Enodia anthedon	Timiskaming Dist.: Beauty Lake Rd. at mine site.	22-Jul-98	AMH
Infrequent records in this District			
Satyrodes appalachia	Renfrew: 3 km SE of Perth	01-Jul-98	PWH
Few records from Lanark Co.			
Coenonympha inornata	Thunder Bay Dist.: Thunder Bay	21-Jun-98	L-T
7 specimens seen - infrequent records this far west			
Danaus plexippus	Point Pelee NP	07-May-98 - 27-Nov-98	AJW
first migrant arrived on 7-May (D. Keith Sealy) and last departed on 27-November (Dan Dufour & Gary Moulard)			

Moths

SPHINGIDAE

Agrius cingulata	Point Pelee NP	04-Sep-98 - 08-Sep-98	AJW
two adults at flowers of bouncing bet			

NOCTUIDAE

Heliothis acesias	Essex: Leamington	08-Aug-98	AJW
leg. Barbara J. Casier; flying during the day; possibly only the third or fourth Ontario record			

Zone 8 Midwest

Missouri, Kentucky, West Virginia, Ohio, Indiana, Illinois, Iowa, Minnesota, Wisconsin, Michigan

Coordinator: Leslie A. Ferge

Contributors Cite

GJB : George J. Balogh
MD1 : Michael Davenport
LAF : Leslie A. Ferge
DXH : Dean Hansen
RDK : Ron D. King
MCN : Mogens C. Nielsen
OAP : Owen A. Perkins
JDP : Jeffrey D Prill
JAS : James A. Scott
JJS : Janice J. Stiefel
JWJ : John Weber, Jr

RJB : Robert J. Borth
JAE : James E. Ebner
LDG : Loran D. Gibson
ETH : E. Ted Herig
RK : Robert Kriegel
JCP : James C. Parkinson
JXP : John Perona
TR : Tom Rocheleau
EMS : Ernest M. Shull
SAS : Scott & Ann Swengel
SGW : Steve G. Williams

CVC : Charles V. Covell, Jr
CBF : Carol B. Ferge
SCG : Steve C. Gottschalk
TH : Terry Herig
RHL : Ron H. Leuschner
SJP : Stephen J. Parshall
JP1 : Jeff Pippen
RS : Russell Schipper
DST : Donald Starkey
JV : James Vargo

General Comments:

The onset of the season in the northern part of the midwest was one of the earliest on record. Emergence of Boloria freija, B. frigga, Oeneis jutta and Erebia discoidalis was more than two weeks ahead of "normal" in northern Wisconsin and Upper Michigan bogs, and a full month earlier than last season. More species of southern migrant butterflies spread northward than in the past few years, mostly later in the season and generally in low numbers. Phoebis sennae eubule was common in Kentucky and central Illinois, and had strayed as far north as Door County, Wisconsin by September. Hylephila phyleus, Eurema lisa, Libytheana bachmanii, Euptoieta claudia and Junonia coenia were widespread, being reported in most states in the zone. Monarchs had a poor season. Noctua pronuba, the introduced European Noctuid, continues to be found in new localities, and has spread statewide in Michigan and Wisconsin.

ILLINOIS

Prill began his season in March, a bit later than usual, and reported April to be warm and wet, with incessant rain in May and June. A moderate drought set in during July. He recorded a number of southern migrant butterfly species, as well as getting additional records of several southern SpHINGIDAE.

Butterflies

HESPERIIDAE

<i>Hylephila phyleus</i>	Mason: Sand Ridge State Forest	26-Aug-98	JDP
<i>Polites origenes</i>	Peoria: Jubilee College State Park	01-Sep-98	JDP
<i>Atalopedes campestris</i>	Mason: Sand Ridge State Forest	26-Aug-98	JDP
<i>Atalopedes campestris</i>	Pope: Shawnee National Forest, Rock Rd.	15-Sep-98	JDP
<i>Anatrytone logan</i>	Peoria: Jubilee College State Park	21-Aug-98	JDP

PAPILIONIDAE

<i>Battus philenor</i>	Mason: Sand Ridge State Forest	04-Jul-98 - 01-Aug-98	RDK
<i>Papilio cressphontes</i> common	Mason: Sand Ridge State Forest	04-Jul-98 - 26-Aug-98	SJP

PIERIDAE

<i>Phoebis sennae eubule</i> very common	Mason: Sand Ridge State Forest	04-Jul-98 - 02-Aug-98	RDK
<i>Phoebis sennae eubule</i>	Pope: Shawnee National Forest, Rock Rd.	15-Sep-98	JDP
<i>Eurema lisa</i> extremely abundant	Mason: Sand Ridge State Forest	04-Jul-98 - 02-Aug-98	SJP
<i>Eurema lisa</i>	Peoria: Jubilee College State Park	01-Sep-98	JDP

LYCAENIDAE

<i>Strymon melinus</i>	Mason: Sand Ridge State Forest	04-Jul-98 - 26-Aug-98	RDK
<i>Strymon melinus</i>	Pope: Shawnee National Forest, Waltersburg Rd.	15-Sep-98	JDP

NYMPHALIDAE

<i>Libytheana bachmanii</i>	Cook: Lincolnwood	25-Jun-98	DST
<i>Libytheana bachmanii</i>	Mason: Sand Ridge State Forest	04-Jul-98 - 01-Aug-98	RDK
<i>Libytheana bachmanii</i>	Peoria: Jubilee College State Park	21-Aug-98	JDP
<i>Junonia coenia</i>	Pope: Shawnee National Forest, Waltersburg Rd.	15-Sep-98	JDP
<i>Euptoieta claudia</i>	Mason: Sand Ridge State Forest	04-Jul-98 - 05-Jul-98	RDK
<i>Speyeria cybele</i>	Mason: Sand Ridge State Forest	04-Jul-98 - 01-Aug-98	RDK
<i>Speyeria idalia</i>	Mason: Sand Ridge State Forest	04-Jul-98 - 01-Aug-98	RDK
<i>Chlosyne gorgone</i>	Mason: Sand Ridge State Forest	04-Jul-98 - 01-Aug-98	RDK
<i>Enodia anthedon</i>	Peoria: Jubilee College State Park	21-Aug-98	JDP
<i>Cyllopsis gemma</i>	Pope: Shawnee National Forest, Waltersburg Rd.	15-Sep-98	JDP

Moths

OECOPHORIDAE

<i>Antaeotricha schlaegeri</i>	Marshall: Washburn	02-Jun-98	JDP
--------------------------------	--------------------	-----------	-----

COSMOPTERIGIDAE

<i>Euclementia bassettella</i>	Mason: Sand Ridge State Forest	24-Jun-98	JDP
--------------------------------	--------------------------------	-----------	-----

TORTRICIDAE

<i>Proteoteras crescentana</i>	DuPage: Glen Ellyn	16-Apr-98	RHL
<i>Pseudexentera cressoniana</i>	DuPage: Glen Ellyn	16-Apr-98	RHL
<i>Pseudexentera mali</i>	DuPage: Glen Ellyn	16-Apr-98	RHL
<i>Pseudexentera maracana</i>	DuPage: Glen Ellyn	16-Apr-98	RHL
<i>Pseudexentera sepia</i>	DuPage: Glen Ellyn	16-Apr-98	RHL
<i>Argyrotaenia mariana</i>	Tazewell: Morton	29-Mar-98	JDP
<i>Amorbia humerosana</i>	Mason: Sand Ridge State Forest	24-Jun-98	JDP

LIMACODIDAE

<i>Sibine stimulea</i>	Union: Trail of Tears State Forest	07-Jul-98	JDP
------------------------	------------------------------------	-----------	-----

PYRALIDAE

<i>Pyrausta niveicillialis</i> reared indoors, ex larvae on flowers of <i>Collinsonia canadensis</i> L. collected September 22 1998	Union: Pine Hills NF Cgd.	24-Oct-98 - 30-Oct-98	GJB
<i>Dioryctria auranticella</i>	Mason: Sand Ridge State Forest	24-Jun-98	JDP
<i>Euzophera ostricolorella</i>	Union: Alto Pass	15-Sep-98	JDP
<i>Euzophera ostricolorella</i>	Union: Trail of Tears State Forest	15-Sep-98	JDP

GEOMETRIDAE

<i>Phigalia titea</i>	Peoria: Dunlap	29-Mar-98	JDP
-----------------------	----------------	-----------	-----

SATURNIIDAE

<i>Eacles imperialis</i>	Mason: Sand Ridge State Forest	04-Jul-98 - 05-Jul-98	RDK
<i>Citheronia regalis</i>	Union: Alto Pass, Bald Knob	07-Jul-98	JDP
<i>Sphingicampa bicolor</i>	Marshall: Washburn	16-Jul-98	JDP

Anisota stigma	Union: Shawnee NF, nr. Pine Hills Cons. Area	06-Jul-98	JDP
Callosamia angulifera	Union: Shawnee NF, nr. Pine Hills Cons. Area	06-Jul-98	JDP
SPHINGIDAE			
Agrius cingulata	Union: Alto Pass, Bald Knob	14-Sep-98 - 15-Sep-98	JDP
Manduca jasminearum	Union: Alto Pass, Bald Knob	07-Jul-98	JDP
Ceratomia catalpae	Peoria: Rome, Three Sisters Park	15-Jul-98	JDP
Ceratomia hageni	Peoria: Rome, Three Sisters Park	15-Jul-98	JDP
Paratreia plebeja	Mason: Sand Ridge State Forest	24-Jun-98	JDP
Sphinx eremitus	Mason: Sand Ridge State Forest	24-Jun-98	JDP
Sphinx franckii	Union: Alto Pass, Bald Knob	07-Jul-98	JDP
Erinnyis obscura	Union: Anna/Jonesboro	16-Sep-98	JDP
collected with Kevin B. Russell			
Eumorpha fasciata	Union: Alto Pass & near Trail of Tears SF	15-Sep-98 - 16-Sep-98	JDP
collected with Kevin B. Russell			
Xylophanes tersa	Union: Alto Pass, Bald Knob	14-Sep-98	JDP
ARCTIIDAE			
Apantesis phalerata	Mason: Sand Ridge SF	04-Jul-98	RDK
Grammia arge	Mason: Sand Ridge State Forest	04-Jul-98	RDK
NOCTUIDAE			
Renia nemoralis	Mason: Sand Ridge State Forest	24-Jun-98	JDP
Bomolocha sordidula	Marshall: Washburn	02-Jun-98	JDP
Scolecocampa liburna	Marshall: Washburn	02-Jun-98	JDP
Anticarsia gemmatalis	Union: Alto Pass	15-Sep-98	JDP
Phoberia atomaris	Tazewell: Morton	29-Mar-98	JDP
Catocala piatrix	Union: Alto Pass, Bald Knob	15-Sep-98	JDP
Catocala angusi	Union: Alto Pass, Bald Knob	15-Sep-98	JDP
Catocala lacrymosa	Union: Alto Pass, Bald Knob	07-Jul-98	JDP
Catocala cara	Woodford: Eureka	30-Jul-98	RDK
Catocala similis	Mason: Sand Ridge State Forest	24-Jun-98	JDP
Catocala similis	Mason: Sand Ridge State Forest	04-Jul-98 - 05-Jul-98	RDK
Argyrogramma verruca	Union: Alto Pass	14-Sep-98	JDP
thousands of specimens swarming around lights			
Argyrogramma basigera	Union: Alto Pass	15-Sep-98	JDP
Diachrysia aeroides	Marshall: Washburn	02-Jun-98	JDP
Autographa bimaculata	Union: Alto Pass	14-Sep-98	JDP
Paectes pygmaea	Union: Alto Pass, Bald Knob	17-Jun-98	JDP
Paectes abrostoloides	Union: Alto Pass	14-Sep-98	JDP
Papaipema circumlucens	Union: Alto Pass	14-Sep-98	JDP
Lithophane signosa	Tazewell: Morton	29-Mar-98	JDP
Lithophane patefacta	Tazewell: Morton	29-Mar-98	JDP
Lithophane hemina	Tazewell: Morton	29-Mar-98	JDP
Eupsilia vinulenta	Tazewell: Morton	29-Mar-98	JDP
Psaphida electilis	Tazewell: Morton	29-Mar-98	JDP
Copivaleria grotei	DuPage: Glen Ellyn	16-Apr-98	RHL
Orthosia alurina	Tazewell: Morton	29-Mar-98	JDP

INDIANA

Shull reported wildly variable winter weather conditions, with April through June mostly dry and temperatures in the nineties. July had temperatures below normal, and August was windy and stormy, with few good collecting days. September through November was dry with extremes of temperature. From 23 February through 16 October he recorded 46 species of butterflies and 123 moth species, a poor year but better than last year.

Butterflies

HESPERIIDAE

Thorybes confusus	Perry: Hoosier NF, Mt. Pleasant Rd. 34B	13-Jun-98	RDK
Erynnis martialis	Perry: Hoosier NF, Mt. Pleasant Rd. 34B	13-Jun-98	RDK
Pyrgus communis	Wabash: N. Manchester	10-Sep-98	EMS
Pyrgus communis	Posey: Hovey Lake Fish & Game Area	29-Sep-98	RDK
Hylephila phyleus	Orange: Orleans	07-Sep-98 - 13-Sep-98	RDK
Hylephila phyleus	Posey: Hovey Lake Fish & Game Area	29-Sep-98 - 31-Oct-98	RDK
Atalopedes campestris	Perry: Hoosier NF, Mt. Pleasant Rd. 34B	30-Aug-98	RDK
Atalopedes campestris	Orange: Orleans	07-Sep-98 - 13-Sep-98	RDK
Atalopedes campestris	Posey: Hovey Lake Fish & Game Area	29-Sep-98	RDK
Poanes zabulon	Perry: Hoosier NF, Mt. Pleasant Rd. 34B	30-Aug-98	RDK

PIERIDAE

Pontia protodice	Posey: Point Twp. & Hovey Lake Fish & Game Area	16-Aug-98 - 31-Oct-98	RDK
Pontia protodice	Wabash: N. Manchester	22-Sep-98	EMS
Anthocharis midea	Perry: Hoosier NF, German Ridge Cgd., Mt. Pleasant Rd.	14-Apr-98	RDK

Zerene cesonia	Posey: Point Twp. & Hovey Lake Fish & Game Area	29-Aug-98	RDK
Phoebis sennae eubule	Perry: Hoosier NF, Mt. Pleasant Rd. 34B	13-Jun-98 - 30-Aug-98	RDK
Phoebis sennae eubule	Posey: Point Twp. & Hovey Lake Fish & Game Area	16-Aug-98 - 31-Oct-98	RDK
Phoebis sennae eubule	Wabash: N. Manchester	02-Sep-98	EMS
Eurema lisa	Wabash: N. Manchester	24-Aug-98	EMS
Eurema lisa	Posey: Point Twp. & Hovey Lake Fish & Game Area	29-Aug-98 - 29-Sep-98	RDK
Eurema lisa	Perry: Hoosier NF, Mt. Pleasant Rd. 34B	30-Aug-98	RDK
Eurema nicippe	Perry: Hoosier NF, Mt. Pleasant Rd. 34B	30-Aug-98	RDK
LYCAENIDAE			
Callophrys niphon	Perry: Hoosier NF, Mt. Pleasant Rd. 34B	14-Apr-98	RDK
Strymon melinus	Perry: Hoosier NF, Mt. Pleasant Rd. 34B	13-Jun-98	RDK
RIODINIDAE			
Calephelis muticum	Perry: Hoosier NF, Mt. Pleasant Rd. 34B	13-Jun-98 - 30-Aug-98	RDK
NYMPHALIDAE			
Libytheana bachmanii	Posey: Hovey Lake Fish & Game Area	29-Sep-98	RDK
Libytheana bachmanii	Union: Whitewater Memorial State Park	16-Oct-98	EMS
Nymphalis milberti	Wabash: N. Manchester	11-May-98	EMS
Nymphalis milberti	Union: Whitewater Memorial State Park	16-Oct-98	EMS
Vanessa cardui	Wabash: N. Manchester	25-Aug-98	EMS
Vanessa cardui	Posey: Hovey Lake Fish & Game Area	29-Sep-98	RDK
Vanessa atalanta	Wabash: N. Manchester	20-Apr-98	EMS
Junonia coenia	Wabash: N. Manchester	24-Aug-98	EMS
Junonia coenia	Perry: Hoosier NF, Mt. Pleasant Rd. 34B	30-Aug-98	RDK
Junonia coenia	Orange: Orleans	07-Sep-98 - 13-Sep-98	RDK
Junonia coenia	Posey: Hovey Lake Fish & Game Area	29-Sep-98 - 31-Oct-98	RDK
Euptoieta claudia	Orange: Orleans	07-Sep-98 - 13-Sep-98	RDK
Euptoieta claudia	Posey: Hovey Lake Fish & Game Area	29-Sep-98	RDK
Speyeria cybele	Perry: Hoosier NF, Mt. Pleasant Rd. 34B	13-Jun-98	RDK
Speyeria cybele	Brown: Yellowwood State Forest	27-Jun-98	RDK
Speyeria cybele	Union: Whitewater Memorial State Park	16-Oct-98	EMS
Boloria bellona	Wabash: N. Manchester	26-Aug-98	EMS
Boloria bellona	Orange: Orleans	07-Sep-98 - 13-Sep-98	RDK
Chlosyne nycteis	Perry: Hoosier NF, Mt. Pleasant Rd. 34B	13-Jun-98	RDK
Chlosyne nycteis	Wabash: Laketon	09-Jul-98	EMS
Enodia anthedon	Union: Whitewater Memorial State Park	25-May-98	EMS
Enodia anthedon	Perry: Hoosier NF, Mt. Pleasant Rd. 34B	13-Jun-98 - 30-Aug-98	RDK
Enodia anthedon	Posey: Point Twp.	29-Aug-98	RDK
Satyroides eurydice	Wabash: N. Manchester	06-Jul-98	EMS
Satyroides appalachia	Posey: Point Twp. Fish & Game Area	16-Aug-98 - 29-Aug-98	RDK
Cyllopsis gemma	Posey: Point Twp.	29-Aug-98	RDK
Cyllopsis gemma	Perry: Hoosier NF, Mt. Pleasant Rd. 34B	30-Aug-98	RDK
Hermeuptychia sosybius	Posey: Point Twp.	29-Aug-98	RDK
Hermeuptychia sosybius	Perry: Hoosier NF, Mt. Pleasant Rd. 34B	30-Aug-98	RDK
Moths			
SATURNIIDAE			
Eacles imperialis	Brown: Brown County State Park	14-Jul-98 - 16-Jul-98	EMS
Citheronia regalis very common	Brown: Brown County State Park	14-Jul-98 - 16-Jul-98	EMS
Anisota stigma	Brown: Brown County State Park & SR 46 at Belmont	16-Jul-98 - 25-Jul-98	EMS
Actias luna	Brown: SR 46 at Belmont	25-Jul-98	RDK
Actias luna	Perry: Hoosier NF, German Ridge Cpgd.	16-Aug-98	RDK
SPHINGIDAE			
Ceratonia amyntor	Brown: Brown County State Park	16-Jul-98	EMS
Ceratonia undulosa	Brown: Brown County State Park	16-Jul-98	EMS
Darapsa myron	Brown: Brown County State Park	16-Jul-98	EMS
Darapsa myron	Perry: Hoosier NF, German Ridge Cpgd.	16-Aug-98	RDK
NOCTUIDAE			
Plathypena scabra an "epidemic"	Brown: Brown County State Park	14-Jul-98 - 16-Jul-98	EMS
Catocala innubens	Posey: Point Twp. Fish & Game Area	16-Aug-98	RDK
Catocala serena	Brown: Brown County State Park	15-Jul-98	EMS
Catocala robinsoni	Posey: Point Twp.	29-Aug-98	RDK
Catocala angusi	Posey: Point Twp.	29-Aug-98	RDK
Catocala luctuosa	Posey: Point Twp.	29-Aug-98	RDK
Catocala vidua	Posey: Point Twp. Fish & Game Area	16-Aug-98 - 29-Aug-98	RDK
Catocala palaeogama	Posey: Point Twp.	29-Aug-98	RDK

Catocala subnata	Posey: Point Twp. Fish & Game Area	16-Aug-98	RDK
Catocala coccinata	Brown: Brown County State Park	15-Jul-98	EMS
Catocala minuta	Brown: Brown County State Park	16-Jul-98	EMS
Thioptera nigrofimbria	Brown: Brown County State Park	16-Jul-98	EMS
Polygrammate hebraeicum	Brown: Brown County State Park	15-Jul-98	EMS

IOWA

Butterflies

HESPERIIDAE

Thymelicus lineola	Cedar: Lowden	27-May-98	SCG
Anatrytone logan	Cedar: Lowden	07-Jun-98	SCG

PAPILIONIDAE

Papilio cressphontes	Cedar: Lowden	02-Jun-98	SCG
----------------------	---------------	-----------	-----

PIERIDAE

Eurema lisa	Cedar: Lowden	14-May-98 - 19-Jun-98	SCG
-------------	---------------	-----------------------	-----

LYCAENIDAE

Celastrina ladon	Cedar: Lowden	31-May-98	SCG
------------------	---------------	-----------	-----

NYPHALIDAE

Libytheana bachmanii	Cedar: Lowden	01-Jul-98	SCG
Polygonia interrogationis	Cedar: Lowden	23-Jul-98	SCG
Nymphalis milberti	Cedar: Lowden	26-Mar-98	SCG
Vanessa atalanta	Cedar: Lowden	28-Mar-98	SCG
Speyeria cybele	Cedar: Lowden	24-Jun-98	SCG
Boloria bellona	Cedar: Lowden	13-May-98 - 01-Jul-98	SCG
Asterocampa celtis	Cedar: Lowden	19-Jun-98	SCG

KENTUCKY

Covell reported an extremely mild winter, with a deep freeze only in late March. Spring came permanently in early April, and spring and early summer were rainy. Emergence of summer species was much earlier than normal. Only 30 species were recorded at annual Fourth of July Count held 5 July in Oldham Co., as species normally common at that date had peaked. Late summer and early fall were dry. Overall numbers of moths and butterflies were average to well above average, with an excellent flight occurring in late summer. A hybrid *Limenitis arthemis astyanax* x *L. archippus* was taken 12 September in Paducah by Bill Black. *Phoebis sennae eubule* and *Colias cesonia* were much more widespread and abundant than normal in September and October. *Danaus plexippus* numbers were low from April throughout the season. It was apparently a low year in eastern KY for *Speyeria diana*, as several people seeking it did not find any. Louisville experienced a mild autumn without killing frosts, with *Boloria bellona* reported as late as December.

Butterflies

HESPERIIDAE

Urbanus proteus fresh individual on Buddleia in Covell garden	Jefferson: Louisville	11-Oct-98	CVC
Lerema accius	McCracken : Paducah	12-Sep-98 - 13-Sep-98	CVC
Ancyloxypha numitor	Daviess: Owensboro	28-Jun-98 - 04-Sep-98	RDK
Atalopedes campestris	Daviess: 7 mi. W of Owensboro	23-Aug-98 - 04-Sep-98	RDK
Poanes yehl	McCracken : Paducah	12-Sep-98 - 13-Sep-98	CVC
Euphyes dukesi	McCracken : Paducah	12-Sep-98	CVC
Amblyscirtes aesculapius	McCracken : Paducah	12-Sep-98 - 13-Sep-98	CVC
Panoquina ocola	MCCRACKEN : Paducah	12-Sep-98 - 13-Sep-98	CVC

PAPILIONIDAE

Battus philenor	Henderson: 2 mi. NE of Henderson	13-Aug-98	RDK
Papilio glaucus	Daviess: Owensboro	28-Jun-98	RDK
Papilio glaucus	Henderson: Audubon Parkway	18-Sep-98	RDK
Papilio troilus	Daviess: Owensboro	28-Jun-98 - 26-Sep-98	RDK
Eurytides marcellus	Henderson: Henderson	20-Apr-98	RDK
Eurytides marcellus	Daviess: 7 mi. W of Owensboro	04-Sep-98	RDK

PIERIDAE

Zerene cesonia	Henderson: 2 mi. NE of Henderson	13-Aug-98	RDK
Phoebis sennae eubule	Daviess: W of Owensboro	23-Aug-98 - 28-Nov-98	RDK
Phoebis sennae eubule common	Henderson: Henderson	21-Sep-98 - 30-Oct-98	RDK

LYCAENIDAE

Atlides halesus	McCracken : Paducah	12-Sep-98 - 13-Sep-98	CVC
Parrhasius m-album	Boone:	26-Apr-98	LDG
Parrhasius m-album	McCracken : Paducah	12-Sep-98	CVC
Celastrina ladon	Henderson: Henderson	21-Sep-98 - 27-Sep-98	RDK

RIODINIDAE

Calephelis borealis nectaring on white sweet clover	Oldham:	05-Jul-98	CVC
--	---------	-----------	-----

NYMPHALIDAE

Libytheana bachmanii	Henderson: 2 mi. NE of Henderson	13-Aug-98	RDK
Agraulis vanillae	McCracken : Paducah	12-Sep-98 - 13-Sep-98	CVC
	also ovipositing on Passiflora, Woodford Co. (Sean Lube) and nectaring on honeysuckle Warren Co., 6 Dec. (Jackie Elmore)		
Polygonia interrogationis	Henderson: Henderson	30-Oct-98	RDK
Polygonia interrogationis	Daviess: 2 mi. W of Owensboro	27-Nov-98	RDK
Polygonia comma	Daviess: 7 mi. W of Owensboro	06-Sep-98	RDK
Junonia coenia	Henderson: Henderson	30-Oct-98	RDK
Speyeria cybele	Henderson: Audubon Parkway toll booth	23-Jul-98	RDK
Limenitis arthemis astyanax	Daviess: 7 mi. W of Owensboro	28-Jun-98	RDK
Limenitis archippus	Henderson: Henderson & Audubon Parkway	15-Sep-98 - 27-Sep-98	RDK
Enodia portlandia missarkae	McCracken : Paducah	12-Sep-98 - 13-Sep-98	CVC
Enodia anthedon	McCracken : Paducah	12-Sep-98 - 13-Sep-98	CVC

Moths

SATURNIIDAE

Eacles imperialis	Henderson: Audubon Parkway toll booth	23-Jul-98	RDK
Anisota stigma	Henderson: Audubon Parkway toll booth	23-Jul-98	RDK
Anisota senatoria	Henderson: Audubon Parkway toll booth	21-Aug-98	RDK
Automeris io	Hancock: near Commonwealth Aluminum Plant	27-Jun-98	RDK
Automeris io	Henderson: Audubon Parkway toll booth	03-Jul-98	RDK
Actias luna	Henderson: Henderson	22-Jul-98	RDK
Callosamia promethea	Daviess: 7 mi. W of Owensboro	23-Jul-98	RDK
Callosamia angulifera	Daviess: 7 mi. W of Owensboro	06-Aug-98	RDK
Callosamia angulifera	Henderson: Audubon Parkway	11-Aug-98	RDK

SPHINGIDAE

Ceratonia amyntor	Henderson: Audubon Parkway toll booth	24-Jul-98	RDK
Paonias excaecatus	Henderson: Audubon Parkway toll booth	21-Aug-98	RDK
Hemaris thysbe	Daviess: 7 mi. W of Owensboro	23-Aug-98	RDK
Amphion floridensis	Daviess: Owensboro	25-Apr-98	RDK
Darapsa myron	Henderson: Audubon Parkway toll booth	23-Jul-98	RDK
Darapsa myron	Daviess: 7 mi. W of Owensboro	17-Aug-98	RDK

NOCTUIDAE

Catocala amatrix	Daviess: 7 mi. W of Owensboro	23-Aug-98 - 06-Sep-98	RDK
------------------	-------------------------------	-----------------------	-----

MICHIGAN

Nielsen reported a long season, From April to mid-October, with above average temperatures. A total of 43 days and nights were devoted to surveying Lepidoptera, primarily moths, statewide from Berrien to Keweenaw Counties. Monarch populations were down, as were butterfly numbers in general. Coenonympha tullia inornata appears to be expanding its range southward. Catocala and Papaipema moth numbers were down, but Noctua pronuba continues to increase. A number of southern stray or migrant species were reported in the southern counties.

Butterflies

HESPERIIDAE

Erynnis lucilius	ARENAC: T20N, R3E, Sec 27	07-May-98	OAP
Erynnis baptisiae	WAYNE: T4S, R10E, Sec 7	15-Jul-98	OAP
Pyrgus communis	ALLEGAN: Gun Plains Twp.	31-Oct-98	RS
	late date		
Carterocephalus palaemon mandan	Oakland: Lake Orion, Bald Mtn. Rec. Area	08-Jun-98	DST
	third county record, first seen since 1970's		
Oarisma poweshiek	Oakland: T4N, R7E, Sec 27	29-Jun-98	OAP
	voucher photograph for new site		
Thymelicus lineola	ARENAC: T19N, R3E, Sec 13	19-Jun-98	OAP
Hylephila phyleus	MACOMB: Sterling Heights Nature Reserve	12-Jul-98 - 13-Sep-98	DST
Hylephila phyleus	OAKLAND: Waterford	12-Jul-98 - 13-Sep-98	DST
Anatrytone logan	Hillsdale: Lost Nations SGA	17-Jul-98	MCN
	ovipositing on Andropogon gerardii		
Euphyes dukesi	Monroe: T7S, R6E, Sec 1	26-Jun-98	OAP
	voucher photograph for new site		
Euphyes bimacula	Otsego: T29N, R2W, Sec 14	20-Jun-98	OAP
Amblyscirtes vialis	OSCODA: T26N, R1E, Sec 34	19-Jun-98	OAP

PIERIDAE

Pieris virginiana	CHIPPEWA: T47N, R6W, Sec 8 & 10	06-May-98 - 16-May-98	OAP
Pieris oleracea	Clinton: Rose Lake SGA	22-Apr-98	MCN
Pieris oleracea	Oakland: Independence Oaks Nature Ctr.	08-Aug-98	DST
	also Big Valley Nature Res.		
Eurema lisa	OTSEGO: T29N, R2W, Sec 16	22-Aug-98	ETH

LYCAENIDAE

<i>Lycaena phlaeas americana</i>	ARENAC: T19N, R3E, Sec 36	24-May-98	OAP
<i>Satyrium caryaevorum</i>	Macomb: Sterling Heights Nature Reserve	18-Jun-98	DST
<i>Satyrium liparops</i>	WAYNE: T4S, R10E, Sec 7	26-Jun-98	OAP
<i>Callophrys augustinus</i>	ARENAC: T20N, R3E, Sec 27	07-May-98	OAP
<i>Callophrys augustinus</i>	ALGER: T48N, R22W, Sec 36	15-May-98	OAP
<i>Callophrys henrici</i>	Barry: Yankee Springs Rec. Area	23-Apr-98	MCN
<i>Lycaeides melissa samuelis</i> voucher photograph for new site	Allegan: T2N, R14W, Sec 21	02-Jul-98	OAP
<i>Lycaeides melissa samuelis</i> voucher photograph for new site	Newago: T12N, R12W, Sec 9	02-Jul-98	OAP
Nymphalidae			
<i>Junonia coenia</i>	Macomb: Sterling Heights Nature Reserve	01-Sep-98 - 10-Sep-98	DST
<i>Euptoieta claudia</i>	OTSEGO: T29N, R2W, Sec 16	30-Jun-98	ETH
<i>Euptoieta claudia</i> late date	ALLEGAN: Gun Plains Twp.	31-Oct-98	RS
<i>Boloria eunomia dawsoni</i>	Chippewa: T44N, R5W, Sec 6	27-May-98	OAP
<i>Boloria selene myrina</i>	ARENAC: T19N, R3E, Sec 36	24-May-98	OAP
<i>Boloria selene myrina</i>	Oakland: Big Valley Nature Reserve	26-Aug-98	DST
<i>Boloria frigga saga</i>	Schoolcraft: Lake Superior SF	15-May-98	MCN
<i>Boloria frigga saga</i>	Luce: T46N, R12W, Sec 26	15-May-98	OAP
<i>Boloria freija</i>	Chippewa: T44N, R6W, Sec 1, 10 & T45N, R5W, Sec 32	13-May-98 - 16-May-98	OAP
<i>Boloria freija</i>	Dickinson: T43N, R30W, Sec 6	14-May-98	OAP
<i>Phyciodes batesii</i>	Otsego: T29N, R2W, Sec 15 & 16	12-Jun-98 - 20-Jun-98	ETH
<i>Phyciodes batesii</i>	CLINTON: Bath	18-Jul-98	RK
<i>Chlosyne harrisii</i>	St. Joseph: Three Rivers SGA	30-May-98	RK
<i>Chlosyne harrisii</i>	Hillsdale: Lost Nations SGA	06-Jun-98	RK
<i>Euphydryas phaeton</i> early record	Oakland: Lake Orion, Bald Mtn. Rec. Area	08-Jun-98	DST
<i>Satyrodes eurydice</i>	Macomb: Sterling Heights Nature Reserve	01-Jun-98 - 06-Sep-98	DST
<i>Satyrodes eurydice</i> latest date recorded in state	Oakland: Lake Orion, Bald Mtn. Rec. Area	01-Jun-98 - 06-Sep-98	DST
<i>Satyrodes eurydice</i>	OSCODA: T26N, R1E, Sec 33	19-Jun-98	OAP
<i>Satyrodes appalachia</i> second Oakland County record	Oakland: Lake Orion, Bald Mtn. Rec. Area	14-Jul-98 - 16-Jul-98	DST
<i>Neonympha mitchellii</i> voucher photograph for new site	Jackson: T4S, R1W, Sec 29	01-Jul-98	OAP
<i>Coenonympha inornata</i> southern range extension in MI	Otsego: T29N, R2W, Sec 16 & 18	19-Jun-98	OAP
<i>Coenonympha inornata</i> SE range extension	St. Clair: St. Clair	09-Aug-98	JP1
<i>Erebia discoidalis</i>	Dickinson: Channing Bog	14-May-98	ETH
<i>Oeneis jutta ascerta</i>	Chippewa: T44N, R5W, Sec 6	27-May-98	OAP
Moths			
HEPIALIDAE			
<i>Sthenopsis argenteomaculatus</i>	OTSEGO: T29N, R2W, Sec 18	12-Jun-98	ETH
INCURVARIIDAE			
<i>Adela purpurea</i> nectaring on willow catkins	Otsego: T29N, R2W, Sec 14	25-Apr-98	ETH
TORTRICIDAE			
<i>Olethreutes costimaculana</i> bog, flushed from <i>Ledum</i> shrubs	Chippewa: T44N, R6W, Sec 10 & 11	23-May-98	GJB
<i>Phaneta clavana</i> ex larvae webbing and feeding on fruits of <i>Artemisia campestris</i> L. collected Sep 23 1997; dunes; HOST RECORD	Mackinac: T41N, R5W, Sec 22	20-Jun-98	GJB
<i>Epinotia arctostaphylana</i>	Mason: Ludington SP (dunes)	10-Oct-98	GJB
<i>Epinotia trigonella</i> STATE RECORD	KEWEENAW: Ft Wilkins SP, Agate Harbor, Great Sand Bay	15-Aug-98	GJB
<i>Epinotia septemnerana</i>	Keweenaw: Pt Isabelle (bog)	18-Aug-98	GJB
<i>Epinotia septemnerana</i>	Keweenaw: Ft Wilkins SP	19-Aug-98	GJB
PYRALIDAE			
<i>Pyrausta inveterascalis</i>	Hillsdale: T7S, R2W, Sec 15	20-Jun-98	GJB
<i>Udea inquinatalis</i> STATE RECORD	MACKINAC: T41N, R5W, Sec 23	28-Jun-97	GJB
<i>Udea inquinatalis</i>	SCHOOLCRAFT: T42N, R16W, Sec 13	28-May-98	GJB
<i>Acentria ephemerella</i>	Hillsdale: T7S, R2W, Sec 15 (fen)	20-Jun-98	GJB
<i>Acentria ephemerella</i>	Mason: Ludington SP (dunes)	26-Jun-98	GJB
<i>Crambus pascuellus floridus</i>	Hillsdale: T7S, R2W, Sec 15 (fen)	20-Jun-98	GJB
<i>Crambus hamellus</i>	Keweenaw: Great Sand Bay (dunes)	17-Aug-98	GJB

<i>Crambus lyonsellus</i>	Hillsdale: T7S, R2W, Sec 15 (fen)	20-Jun-98	GJB
<i>Platytes vobisne</i>	Hillsdale: T7S, R2W, Sec 15	20-Jun-98	GJB
<i>Pediasia laciniella</i>	Keweenaw: Great Sand Bay (dunes) & Pt. Isabelle (bog)	17-Aug-98	GJB
<i>Pediasia laciniella</i>	Mackinac: Pte. Aux Chenes Bay (dunes, wetlands)	21-Aug-98	GJB
<i>Pediasia abnaki</i>	Mason: Ludington SP (dunes)	26-Jun-98	GJB
<i>Coenochroa bipunctella</i>	Mason: Ludington SP (dunes)	26-Jun-98	GJB
GEOMETRIDAE			
<i>Archiearis infans</i>	MECOSTA: Mecosta	27-Mar-98	ETH
<i>Itame abruptata</i>	Hillsdale: T7S, R2W, Sec 15	20-Jun-98	GJB
<i>Semiothisa eremiata</i>	Allegan: T2N, R14W, Sec 26	14-Apr-98 - 10-May-98	GJB
ex larvae <i>Tephrosia virginiana</i> (L.) Pers.	swept from plants July 29 1997		
<i>Cepphis decoloraria</i>	Kalamazoo: Gourdneck SGA	16-May-98	GJB
<i>Idea violacearia</i>	Mason: Ludington SP (dunes)	26-Jun-98 - 27-Jun-98	GJB
<i>Epirrita autumnata henshawi</i>	Mackinac: T41N, R4W, Sec 27 & Pte. Aux Chenes Bay	06-Oct-98 - 07-Oct-98	GJB
<i>Eupithecia borealis</i>	Mackinac: T41N, R5W, Sec 23	02-May-98	GJB
ex larvae fruits of <i>Allium tricoccum</i>	Aiton collected August 17 1997; maple-beech woods		
<i>Eupithecia absinthiata</i>	Kalamazoo: Gourdneck SGA	13-Jul-98	GJB
ex larva on flowers of <i>Aster umbellata</i>			
MIMALLONIDAE			
<i>Lacosoma chiridota</i>	Mason: Ludington SP (dunes)	26-Jul-98	GJB
NOTODONTIDAE			
<i>Dasylophia thyatiroides</i>	Mason: T19N, R18W, Sec 33	27-Jun-98	GJB
<i>Schizura concinna</i>	Mackinac: Pte Aux Chenes Bay	10-Apr-98	GJB
reared indoors, ex larvae <i>Myrica gale</i> L.	collected Sept 24 1997		
NOCTUIDAE			
<i>Anticarsia gemmatalis</i>	Mackinac: Hog Island Point (dunes) & Pte. Aux Chenes Bay	07-Oct-98	GJB
common on dunes; about 30 flushed during late afternoon in a half-hour period			
<i>Drasteria graphica atlantica</i>	CHIPPEWA: Paradise Bog	15-May-98	MCN
<i>Catocala palaeogama</i>	MECOSTA: Mecosta	07-Aug-98	ETH
<i>Catocala neogama</i>	MECOSTA: Mecosta	12-Aug-98	ETH
<i>Catocala briseis</i>	GRATIOT : Maple River SGA	25-Jun-98	MCN
<i>Catocala semirelictata</i>	MECOSTA: Mecosta	12-Aug-98	ETH
<i>Catocala crataegi</i>	GRATIOT : Maple River SGA	25-Jun-98	MCN
<i>Agrappa oxygramma</i>	MACKINAC: Pt. Aux Chenes	28-Aug-98	MCN
<i>Autographa rubida</i>	Otsego: T29N, R2W, Sec 18	12-Jun-98	MCN
<i>Maliattha concinnimaculata</i>	Baraga: T49N, R33W, Sec 18 (rich deciduous woods)	28-May-98	GJB
<i>Amyna octo</i>	Mackinac: Pt. Aux Chenes	28-Aug-98	MCN
<i>Acronicta quadrata</i>	Mackinac: T41N, R5W, Sec 22 (dunes)	24-May-98 - 25-May-98	GJB
<i>Chortodes basistriga</i>	Mackinac: Pt Aux Chenes	22-Aug-98	GJB
<i>Chortodes defecta</i>	LENAWEE: Morenci	17-Jul-98	MCN
<i>Apamea lateritia</i>	Otsego: T29N, R2W, Sec 16 & 18	12-Jun-98	MCN
<i>Archanara laeta</i>	OTSEGO: T29N, R2W, Sec 16	22-Aug-98	TH
<i>Parapamea buffaloensis</i>	BARRY: Shaw Lake	14-Aug-98	MCN
<i>Papaipema arctivorens</i>	Mackinac: Pt. Aux Chenes	28-Aug-98	MCN
northern range extension			
<i>Papaipema astuta</i>	Cass: Dr. Lawless SP	16-Sep-98	MCN
<i>Papaipema speciosissima</i>	MECOSTA: Mecosta	14-Sep-98	ETH
<i>Papaipema appassionata</i>	Cheboygan: Cheboygan SP	21-Aug-98 - 12-Sep-98	MCN
<i>Papaipema appassionata</i>	OTSEGO: T29N, R2W, Sec 10	21-Aug-98 - 12-Sep-98	MCN
<i>Papaipema appassionata</i>	Mackinac: Pt. Aux Chenes	28-Aug-98	MCN
<i>Papaipema unimoda</i>	Otsego: T29N, R2W, Sec 10	22-Aug-98	JV
<i>Caradrina multifera</i>	Keweenaw: Great Sand Bay (dunes)	17-Aug-98	GJB
<i>Elaphria georgei</i>	CHIPPEWA: Paradise Bog	16-May-98	MCN
<i>Litholomia napaea</i>	KEWEENAW: Northwestern Mine site	13-May-98	MCN
<i>Lithophane amanda</i>	Mackinac: T41N, R4W, Sec 27	06-Oct-98	GJB
<i>Lithophane georgii</i>	KEWEENAW: Northwestern Mine site	13-May-98	MCN
<i>Lithophane fagina</i>	Van Buren: Van Buren SP	27-Mar-98	GJB
<i>Lithophane thaxteri</i>	Mackinac: T41N, R4W, Sec 27	06-Oct-98	GJB
<i>Epiglaea decliva</i>	St. Joseph: Three Rivers SGA	17-Oct-98	MCN
<i>Epiglaea apiata</i>	St. Joseph: Three Rivers SGA	17-Oct-98	MCN
<i>Psectraglaea carnosa</i>	Cheboygan: Elliott's Creek	11-Sep-98	MCN
<i>Anathix aggressa</i>	Mackinac: Pt. Aux Chenes	28-Aug-98	JV
<i>Hillia iris</i>	Cheboygan: Elliott's Creek	12-Sep-98	MCN
<i>Feralia comstocki</i>	DICKINSON: Floodwood Trail	14-May-98	MCN
<i>Calophasia lunula</i>	OTSEGO: T29N, R2W, Sec 16	27-Aug-98	MCN
STATE RECORD			
<i>Trichoclea artesta</i>	Mackinac: T41N, R5W, Sec 22 (dunes)	24-May-98 - 25-May-98	GJB

Trichoclea artesta	Mason: Ludington SP (dunes)	26-Jun-98 - 27-Jun-98	GJB
Euxoa sinelinea	Otsego: T29N, R2W, Sec 16 & 18	20-Aug-98	JV
Euxoa quebecensis	Mackinac: T41N, R5W, Sec 22 (dunes)	24-May-98 - 25-May-98	GJB
Euxoa aureulenta	Mackinac: T41N, R5W, Sec 22 (dunes)	24-May-98	GJB
Euxoa lidia thanatologia	Keweenaw: Great Sand Bay (dunes)	17-Aug-98	GJB
Euxoa mimallonis	Keweenaw: Agate Harbor & Great Sand Bay (dunes)	16-Aug-98	GJB
Euxoa intrita	Mackinac: Pte Aux Chenes Bay	21-Aug-98	GJB
Euxoa ochrogaster	Keweenaw: Ft Wilkins SP	19-Aug-98	GJB
Euxoa manitobana	Otsego: T29N, R2W, Sec 16 & 18	20-Aug-98	JV
Richia acclivis	Cass: Dr. Lawless SP	18-Aug-98	MCN
Xestia oblata	OTSEGO: T29N, R2W, Sec 18	12-Jun-98 - 19-Jun-98	MCN
Hemipachnobia monochromatea	Kalamazoo: bog on west side of West Lake	16-May-98	GJB
Noctua pronuba	KALAMAZOO: Portage	12-Jun-98	GJB
Noctua pronuba	Houghton: Calumet	16-Jun-98 - 22-Aug-98	JXP
Noctua pronuba	HILLSDALE: T7S, R2W, Sec 15	20-Jun-98	GJB
Noctua pronuba	MASON: Ludington SP (dunes) & T19N, R18W, Sec 33	26-Jun-98 - 27-Jun-98	GJB
Noctua pronuba	Barry: Barry County SGA	14-Aug-98	ETH
Noctua pronuba	KEWEENAW: Great Sand Bay (dunes)	17-Aug-98	GJB
Noctua pronuba	Cass: Dr. Lawless SP	18-Aug-98	MCN
Noctua pronuba	Mackinac: T41N, R5W, Sec 22 & Pt. Aux Chenes	20-Aug-98 - 28-Aug-98	GJB
Noctua pronuba	OTSEGO: T29N, R2W, Sec 10	21-Aug-98 - 22-Aug-98	ETH
Noctua pronuba	IONIA: Lowell	21-Aug-98	MD1
Abagrotis placida	Keweenaw: Great Sand Bay (dunes)	17-Aug-98	GJB
one female det. J.D. Lafontaine; verifies prior literature records			
Ufeus satyricus	Otsego: T29N, R2W, Sec 14	23-Sep-98 - 10-Oct-98	MCN
Heliothis borealis	CHIPPEWA: T44N, R6W, Sec 7	17-May-98	OAP
Schinia bina	Otsego: T29N, R2W, Sec 16	13-Jun-98 - 14-Jun-98	ETH
nectaring on yellow hawkweed			
Synedoida adumbrata alleni	Otsego: T29N, R2W, Sec 13	13-Jun-98	ETH

MINNESOTA

Weber noted an early season, beginning 2.5 weeks earlier than the previous five seasons and lasting exactly seven months, from 28 March to 28 October.

Butterflies

HESPERIIDAE

Pyrgus communis	CASS: Shingobee Recreation Area	07-Jun-98	JWJ
Pyrgus communis	Nobles: I-90 rest area near Adrian	28-Sep-98	SGW
Carterocephalus palaemon	CASS: Shingobee Recreation Area	19-May-98 - 07-Jun-98	JWJ
Thymelicus lineola	FREEBORN: NE Conger	21-Jun-98 - 26-Jun-98	JAS
Hesperia sassacus	POLK: Pembina Trail SNA	01-Jul-98	JWJ
Polites coras	KITTSOON: Lake Bronson SP	09-Jul-98	JWJ
Wallengrenia egeremet	Roseau: MN Highway 11	08-Jul-98	JWJ
Wallengrenia egeremet	Beltrami: Bemidji	27-Jul-98	JWJ
Euphyes dion	HUBBARD: Paul Bunyan SF	26-Jun-98	JWJ
Amblyscirtes hegon	CASS: Shingobee Recreation Area	19-May-98	JWJ
Amblyscirtes vialis	CASS: Shingobee Recreation Area	19-May-98 - 20-May-98	JWJ

PAPILIONIDAE

Papilio polyxenes asterius	Freeborn: Clark's Grove	28-Sep-98	SGW
----------------------------	-------------------------	-----------	-----

LYCAENIDAE

Lycaena hyllus	CASS: Shingobee Bridge along Co. 50	30-Jun-98	JWJ
Satyrium titus	Kittson: Twin Lake WMA	08-Jul-98	JWJ
Satyrium calanus falacer	Freeborn: Hall of Humes Lake	25-Jun-98	JAS
Everes amyntula	HUBBARD: Spider Lake	10-May-98	JWJ
confirmed by David M. Wright			
Celastrina ladon	Hubbard: Mantrap Twp.	09-Jun-95	JWJ
ovipositing on Diervilla lonicera (new larval host per D. M. Wright)			
Celastrina ladon	Cass: Shingobee Recreation Area	23-Jun-98	JWJ
ovipositing on Diervilla lonicera			

NYMPHALIDAE

Libytheana bachmanii	MORRISON: Camp Ripley	28-May-98	DXH
Polygonia satyrus	Kittson: S. of Lake Bronson SP	09-Jul-98	JWJ
Vanessa cardui	Nobles: I-90 rest area near Adrian	28-Sep-98	SGW
Junonia coenia	BELTRAMI: Bemidji	27-Jul-98	JWJ
Euptoieta claudia	Freeborn: NE Conger	19-Jun-98 - 25-Jun-98	JAS
Speyeria idalia	BELTRAMI: Bemidji	27-Jul-98	JWJ
Satyrodes eurydice	ROSEAU: MN Highway 11	08-Jul-98	JWJ

MISSOURI

Leuschner found *Papilio troilus* to be abundant all over central and southern Missouri. In August, he got 180 moths in two nights by setting up a light on the doorstep of his motel.

Butterflies

NYMPHALIDAE

<i>Junonia coenia</i>	Clay: Excelsior Springs	22-Sep-98	SGW
<i>Speyeria cybele</i>	Clay: Excelsior Springs	22-Sep-98	SGW

Moths

TORTRICIDAE

<i>Eucosma consobrinana</i>	Miller: Lake Ozark	03-Aug-98	RHL
<i>Pelochrista womonana</i>	Miller: Lake Ozark	03-Aug-98	RHL
<i>Gretchena bolliana</i>	Miller: Lake Ozark	03-Aug-98	RHL

PYRALIDAE

<i>Lipocosma adelalis</i>	Miller: Lake Ozark	03-Aug-98	RHL
<i>Argyria rufisignella</i>	Miller: Lake Ozark	03-Aug-98	RHL
<i>Acrobasis kylesi</i>	Miller: Lake Ozark	03-Aug-98	RHL

NOTODONTIDAE

<i>Datana ministra</i>	Miller: Lake Ozark	03-Aug-98	RHL
<i>Datana angusii</i>	Miller: Lake Ozark	03-Aug-98	RHL
<i>Datana major</i>	Miller: Lake Ozark	03-Aug-98	RHL
<i>Datana contracta</i>	Miller: Lake Ozark	03-Aug-98	RHL
<i>Datana perspicua</i>	Miller: Lake Ozark	03-Aug-98	RHL

ARCTIIDAE

<i>Grammia parthenice</i>	Harrison: Eaglesville	22-Sep-98	SGW
---------------------------	-----------------------	-----------	-----

NOCTUIDAE

<i>Tripudia quadrifera</i>	Miller: Lake Ozark	03-Aug-98	RHL
<i>Abagrotis barnesi</i>	Miller: Lake Ozark	03-Aug-98	RHL

WISCONSIN

The season was one of the earliest on record, comparable to the notably early springs of 1977 and 1987. Ferge reported record early dates for *Boloria freija* and *Erebia discaidalis* (1 May, Price Co.) The Swengels reported record early dates for *Incalisia irus* (5 May, Wood Co.) and *Lycaeides melissa samuelis* (13 May, Jackson Co.), and observed that northwestern Wisconsin seemed more advanced than southern Wisconsin. Ferge and Parkinson also noted this, as moths collected in Burnett County in mid-May were as much as three to four weeks earlier than usual. Summer temperatures were consistently above average, with severe storms and heavy rains in June. Many butterfly species were scarcer than usual, however the Swengels reported unprecedented high numbers of *Speyeria idalia* and *aphrodite* in their prairie study sites. They found no adult hibernating butterflies in November, despite the unseasonably mild conditions. Ferge and Parkinson found relatively low numbers of late season and adult hibernating moth species. The Swengels reported an early return of Monarchs, which were present as multiple individuals from 18-22 May in Sauk, Jackson and Burnett Counties. Despite this seemingly good early start, Monarch numbers were low throughout the season. Ebner noted small flights in August and September, with the last individual seen on 11 October in Waukesha County. More species of migrant butterflies were reported than in the past several years, with *Hylephila phyleus*, *Euptoieta claudia* and *Junonia coenia* being the most common or widespread. One to several individuals of *Atalopedes campestris*, *Pontia protodice*, *Colias cesonia*, *Phoebis sennae eubule*, *Eurema lisa*, *Nathalis iole* and *Strymon melinus* were recorded in southern counties mostly later in the season. Among the moths, *Hyles lineata* became widespread and common by September, and was widely noticed by the general public as it visited flowers by day. Individuals of several southern stray or immigrant moth species were collected, including *Anticarsia gemmatilis*, *Mocis texana*, *Rachiplusia ou*, *Pseudoplusia includens* and *Magusa orbifera*.

Butterflies

HESPERIIDAE

<i>Hylephila phyleus</i>	Crawford: Prairie du Chien	15-Aug-98	JCP
<i>Hylephila phyleus</i>	Grant: Dickeyville	29-Aug-98 - 28-Sep-98	JCP
<i>Hylephila phyleus</i>	JEFFERSON : Lake Mills	05-Sep-98	JCP
<i>Hesperia comma laurentina</i>	Florence: Spread Eagle	25-Jul-98	JCP
<i>Atalopedes campestris</i>	Grant: Jamestown Twp.	05-Sep-98	LAF
<i>Atalopedes campestris</i>	Crawford: Prairie du Chien	28-Sep-98	LAF
<i>Atrytonopsis hianna</i>	DANE: Mazomanie Bluff Prairie	27-May-98	TR

PIERIDAE

<i>Pontia protodice</i>	Sauk: International Crane Foundation	21-Aug-98	SAS
<i>Pieris virginiensis</i>	PRICE: Fifield Twp.	17-May-98	JCP
<i>Zerene cesonia</i>	Sauk: International Crane Foundation	23-Aug-98	SAS
<i>Phoebis sennae eubule</i>	DOOR: Bailey's Harbor	05-Sep-98	JJS
<i>Phoebis sennae eubule</i>	Grant: Cassville & Jamestown Twp.	05-Sep-98	LAF
<i>Nathalis iole</i>	Crawford: Prairie du Chien	05-Sep-98 - 16-Sep-98	LAF

LYCAENIDAE

<i>Feniseca tarquinius</i>	Grant: Cassville	26-Jun-98	JCP
<i>Lycaena dione</i>	Portage: Buena Vista Marsh	25-Jun-98 - 15-Jul-98	SAS
<i>Lycaena hyllus</i>	Portage: Buena Vista Marsh	27-May-98 - 11-Aug-98	SAS
<i>Lycaena hyllus</i>	Grant: Jamestown Twp.	05-Sep-98	LAF

<i>Callophrys augustinus</i>	MARQUETTE: Comstock Bog SNA	09-May-98	LAF
<i>Callophrys polia</i>	CLARK: Foster Twp.	25-Apr-98	LAF
<i>Callophrys irus</i>	Eau Claire: Eau Claire County Forest	06-May-98	SAS
<i>Callophrys henrici</i>	PRICE: Fifield Twp.	01-May-98 - 15-May-98	CBF
<i>Strymon melinus</i>	Crawford: Prairie du Chien	15-Aug-98	LAF
<i>Lycaeides idas nabokovi</i>	Langlade: Ainsworth Twp.	24-Jun-98	SAS
<i>Lycaeides idas nabokovi</i>	Forest: Nashville Twp.	24-Jun-98	SAS
<i>Lycaeides melissa samuelis</i>	Burnett: Namekagon Barrens	16-May-98	JCP
sight record			
NYMPHALIDAE			
<i>Junonia coenia</i>	Jackson: Jackson County Forest & Black River State Forest	26-May-98 - 14-Jul-98	SAS
<i>Junonia coenia</i>	Door: Bailey's Harbor	18-Sep-98	JJS
<i>Euptoieta claudia</i>	Crawford: Hogback Prairie	30-Jun-98 - 06-Jul-98	SAS
<i>Euptoieta claudia</i>	Portage: Buena Vista Marsh	01-Jul-98 - 26-Aug-98	SAS
<i>Euptoieta claudia</i>	Grant: Cassville	28-Sep-98	LAF
<i>Speyeria idalia</i>	Portage: Buena Vista Marsh	25-Jun-98 - 26-Aug-98	SAS
<i>Speyeria idalia</i>	Crawford: Hogback Prairie	30-Jun-98 - 06-Jul-98	SAS
<i>Speyeria idalia</i>	Green: Muralt Bluff Prairie	06-Jul-98	SAS
one male seen, population in grave	trouble while up in other sites		
<i>Speyeria idalia</i>	St. Croix: W of Roberts	07-Jul-98	SAS
<i>Boloria freija</i>	Price: Fifield Twp.	01-May-98	LAF
<i>Chlosyne gorgone carlota</i>	Jackson: Jackson County Forest & Black River State Forest	13-May-98 - 08-Jul-98	SAS
<i>Chlosyne gorgone carlota</i>	Burnett: Namekagon Barrens	16-May-98	JCP
<i>Chlosyne gorgone carlota</i>	Crawford: Prairie du Chien	16-Aug-98	JCP
<i>Chlosyne gorgone carlota</i>	Portage: Buena Vista Marsh	26-Aug-98	SAS
<i>Asterocampa clyton</i>	Grant: Cassville	26-Jun-98	JCP
<i>Erebia discoidalis</i>	Price: Fifield Twp.	01-May-98	LAF
<i>Oeneis jutta ascerta</i>	BURNETT: Webb Lake Twp.	16-May-98	LAF
<i>Danaus plexippus</i>	Waukesha: Okauchee	11-Oct-98	JAE
Moths			
GEOMETRIDAE			
<i>Paleacrita merriccata</i>	TREMPEALEAU: Trempealeau	26-Mar-98	LAF
<i>Euchlaena milnei</i>	Grant: Cassville	26-Jun-98	LAF
<i>Thera contractata</i>	Door: Bailey's Harbor	19-Sep-98	JJS
<i>Epirrita autumnata henshawi</i>	MARQUETTE: Comstock Bog SNA	16-Oct-98	LAF
<i>Epirrita autumnata henshawi</i>	DOOR: Bailey's Harbor	17-Oct-98	JJS
<i>Epirrita autumnata henshawi</i>	TREMPEALEAU : Trempealeau	24-Oct-98	JCP
LASIOCAMPIDAE			
<i>Heteropacha rileyana</i>	RICHLAND: Richwood Twp.	14-Aug-98	JCP
SATURNIIDAE			
<i>Anisota senatoria</i>	MARATHON: Mosinee	11-Jun-98	JCP
<i>Anisota virginienensis</i>	BURNETT: Danbury	16-May-98	JCP
SPHINGIDAE			
<i>Manduca sexta</i>	MARQUETTE: Comstock Bog SNA	18-Sep-98	JCP
ARCTIIDAE			
<i>Crambidia casta</i>	COLUMBIA: Rocky Run SNA	10-Aug-98	TR
<i>Crambidia pura</i>	BURNETT: Kohler-Peet Barrens SNA	24-Aug-98	LAF
<i>Ecpantheria scribonia</i>	Burnett: Blaine Twp.	16-May-98	RJB
<i>Grammia celia</i>	DANE: Mazomanie Bluff Prairie	15-May-98	TR
NOCTUIDAE			
<i>Phalaenostola metonalis</i>	WAUSHARA: Wedde Creek State Fishery Area	17-Jul-98	TR
<i>Tetanolita mynesalis</i>	DANE: Middleton	17-Sep-98	LAF
<i>Anticarsia gemmatalis</i>	MARQUETTE: Comstock Bog SNA	16-Oct-98	LAF
<i>Mocis texana</i>	Marquette: Comstock Bog SNA	16-Oct-98	LAF
<i>Catocala coelebs</i>	Door: Mud Lake SNA	24-Jul-98	JCP
<i>Catocala vidua</i>	MARQUETTE: Comstock Bog SNA	18-Sep-98	JCP
<i>Catocala nebulosa</i>	Green: Albany	14-Aug-98	RJB
<i>Catocala cara</i>	MARQUETTE: Comstock Bog SNA	18-Sep-98	JCP
<i>Catocala abbreviatella</i>	Waushara: Wedde Creek State Fishery Area	01-Jul-98	TR
<i>Catocala amestris</i>	Waushara: Wedde Creek State Fishery Area	01-Jul-98	TR
<i>Catocala amestris</i>	Jackson: Black River Falls	19-Jul-98	JCP
<i>Catocala praeclara</i>	WAUSHARA: Lunch Creek Fen	17-Jul-98	TR

Catocala praeclara	Door: Mud Lake SNA	24-Jul-98	JCP
Abrostola ovalis	Grant: Cassville	12-Jun-98	JCP
Pseudoplusia includens	Dane: Middleton	25-Sep-98	LAF
Rachiplusia ou	Dane: Middleton	06-Sep-98	LAF
Syngrapha microgamma nearctica	Marathon: Norrie Twp	19-Jun-98	JCP
Cerma cora	Columbia: Rocky Run SNA	14-May-98	TR
Cerma cora	Burnett: Danbury & Namekagon Barrens	16-May-98	JCP
Tarachidia semiflava	WAUSHARA: White River WA & Wedde Creek Fishery Area	17-Jul-98	TR
Tarachidia binocula	COLUMBIA: Rocky Run SNA	19-May-98	TR
Apamea plutonia	WAUSHARA: Lunch Creek Wildlife Area	17-Jun-98	TR
Eremobina claudens	VILAS: Boulder Junction	31-Jul-98	JCP
Oligia bridghami	WAUSHARA: Bass Lake Fen SNA	17-Jul-98	TR
Oligia bridghami	VILAS: Boulder Junction	02-Aug-98	JCP
Oligia bridghami	LANGLADE: Summit Lake	25-Aug-98	JCP
Meropleon diversicolor	PRICE: Fifield Twp.	21-Aug-98	LAF
Meropleon diversicolor	BURNETT: Kohler-Peet Barrens SNA	24-Aug-98	LAF
Spartiniphaga inops	MARQUETTE: Comstock Bog SNA	28-Aug-98	JCP
Chortodes basistriga	Price: Fifield Twp	21-Aug-98	LAF
Archanara subflava	WAUSHARA: Bass Lake Fen SNA	17-Jul-98 - 15-Aug-98	TR
Papaipema cerina	WAUSHARA: Wild Rose	31-Aug-98 - 11-Sep-98	TR
Papaipema cataphracta	RICHLAND: Richwood Twp.	16-Sep-98	JCP
Papaipema speciosissima	WAUSHARA: Bass Lake Fen SNA	26-Aug-98 - 31-Aug-98	TR
Papaipema speciosissima	MARQUETTE: Comstock Bog SNA	28-Aug-98	LAF
Papaipema nepheleptena	WAUSHARA: Bass Lake Fen SNA & Wild Rose	31-Aug-98	TR
Papaipema nepheleptena	RICHLAND: Richwood Twp.	16-Sep-98	JCP
Papaipema appassionata	LANGLADE: Summit Lake	25-Aug-98	JCP
Papaipema appassionata	WAUSHARA: Bass Lake Fen SNA	31-Aug-98	TR
Papaipema furcata	WAUSHARA: Wild Rose	11-Sep-98	TR
Papaipema maritima	WAUSHARA: Wild Rose & White River WA	05-Sep-98	TR
Papaipema eupatorii	OCONTO: Pensaukee	12-Sep-98	LAF
Papaipema eupatorii	RICHLAND: Richwood Twp.	16-Sep-98	JCP
Papaipema eupatorii	WAUSHARA: Lunch Creek Fen & Wild Rose	18-Sep-98 - 29-Sep-98	TR
Papaipema nelita	WAUSHARA: Wild Rose	26-Aug-98	TR
Papaipema sciata	WAUSHARA: Lunch Creek Fen	18-Sep-98 - 29-Sep-98	TR
Hydraecia stramentosa	MARQUETTE: Comstock Bog SNA	28-Aug-98	JCP
Iodopepla u-album	MARQUETTE: Comstock Bog SNA	21-May-98	LAF
Bellura brehmei	PRICE: Fifield Twp.	19-Jun-98	LAF
Conservula anodonta	MARQUETTE: Comstock Bog SNA	10-Jul-98	LAF
Fagitana littera	WAUSHARA: Bass Lake Fen SNA	17-Jun-98	TR
Magusa orbifera	Dane: Middleton	25-Oct-98	LAF
Amphipyra glabella	WAUSHARA: Lunch Creek Fen	17-Jul-98	TR
Athetis mendosa	Douglas: Superior	23-Aug-98	LAF
Elaphria georgei	BURNETT: Danbury	16-May-98	JCP
Lithophane amanda	TREMPEALEAU : Trempealeau	24-Apr-98	LAF
Lithophane disposita	TREMPEALEAU: Trempealeau	26-Mar-98	LAF
Lithophane franclemonti	TREMPEALEAU: Trempealeau	26-Mar-98 - 24-Apr-98	LAF
Lithophane franclemonti	GRANT: Cassville	28-Mar-98	LAF
Epiglaea decliva	WAUSHARA: Wild Rose	29-Sep-98	TR
Epiglaea decliva	MARQUETTE: Comstock Bog SNA	16-Oct-98	LAF
Epiglaea decliva	TREMPEALEAU : Trempealeau	24-Oct-98	JCP
Hillia iris	OCONTO: Pensaukee	12-Sep-98	LAF
Brachylophia discinigra	LANGLADE: Summit Lake	26-Aug-98	JCP
Feralia comstocki	TREMPEALEAU: Tamarack Creek Bog SNA	24-Apr-98	LAF
Oncocnemis viriditincta	BURNETT: Kohler-Peet Barrens SNA	24-Aug-98	LAF
Faronta rubripennis	Green: Albany	14-Aug-98	RJB
Eucoptocnemis fimbriaris	MARQUETTE: Comstock Bog SNA	18-Sep-98	JCP
Euxoa mimallonis	WAUSHARA: White River Wildlife Area	11-Sep-98	TR
Euxoa ochrogaster	DOUGLAS: Superior	23-Aug-98	LAF
Euxoa obeliscoides	COLUMBIA: Rocky Run SNA	10-Aug-98	TR
Euxoa niveilinea	MARQUETTE: Comstock Bog SNA	28-Aug-98	LAF
Noctua pronuba	WAUSHARA: Wedde Creek Fishery Area & Bass Lake Fen SNA	01-Jul-98 - 26-Jul-98	TR
Noctua pronuba	VILAS: Boulder Junction	02-Aug-98	JCP
Noctua pronuba	GRANT: Cassville	29-Aug-98	JCP
Heliothis phloxiphagus	WAUSHARA: Wedde Creek State Fishery Area	17-Jul-98	TR
Schinia indiana	Jackson: Jackson County Forest & Black River State Forest	02-Jun-98	SAS
Schinia obscurata	COLUMBIA: Rocky Run SNA	07-Jul-98	TR
Schinia lucens	Waushara: Wedde Creek State Fishery Area	01-Jul-98	TR

Zone 9 Southeast

Mississippi, Alabama, Georgia, Florida, South Carolina, North Carolina, Tennessee, Virginia

Coordinator: Brian G. Scholtens

Contributors Cite

RWB : Richard W. Boscoe
 WTH : William T. Hark
 OAP : Owen A. Perkins

MC : Mike Chapman
 RHL : Ron H. Leuschner
 JMR : Jim M. Reiser

KG : Karl Gardner
 DM : Dave Morgan
 BGS : Brian G. Scholtens

FLORIDA

Butterflies

HESPERIIDAE

Polygonus leo	BROWARD: T48S R42E Sec 14	25-Jul-98	OAP
Erynnis zarucco	Jackson: Marianna	24-May-98	RWB
eggs and larvae found on Amphicarpa bracteata, reared to adults			
Hesperia attalus	Levy: SW of Williston	04-Oct-98	RWB
confined females oviposited on Andropogon, larvae now feeding			

LYCAENIDAE

Satyrrium titus	Waukulla: Shaleville	23-May-98	RWB
confined females oviposited on Prunus, eggs overwintering			
Fixsenia favonius	BROWARD: T48S R42E Sec 14	26-Jul-98	OAP

Moths

TORTRICIDAE

Rhyacionia frustrana	Volusia: New Smyrna Beach	19-Feb-98	RHL
Epiblema iowana	Volusia: New Smyrna Beach	19-Feb-98	RHL
Gypsonoma salicicolana	Volusia: New Smyrna Beach	19-Feb-98	RHL
Pseudexentera cressoniana	Volusia: New Smyrna Beach	19-Feb-98	RHL
Pseudexentera sepia	Volusia: New Smyrna Beach	19-Feb-98	RHL
Pseudexentera hodsoni	Volusia: New Smyrna Beach	19-Feb-98	RHL
Cydia garacana	Volusia: New Smyrna Beach	19-Feb-98	RHL

PYRALIDAE

Neargyractis slosonalis	Highlands: Sebring	22-Feb-98	RHL
-------------------------	--------------------	-----------	-----

GEOMETRIDAE

Hydriomena transfigurata	Volusia: New Smyrna Beach	19-Feb-98	RHL
Eupithecia jejunata	Volusia: New Smyrna Beach	19-Feb-98	RHL

NOCTUIDAE

Zale metata	Volusia: New Smyrna Beach	19-Feb-98	RHL
Panthea furcilla	Volusia: New Smyrna Beach	19-Feb-98	RHL
Leucania incognita	Highlands: Sebring	22-Feb-98	RHL
Leucania adjuta	Highlands: Sebring	22-Feb-98	RHL

GEORGIA

Butterflies

HESPERIIDAE

Urbanus proteus	Houston: 1217 Sunset Ave.	27-Nov-98	DM
Hylephila phyleus	Houston: 1217 Sunset Ave.	27-Nov-98	DM
Hesperia meskei	Cobb: Rottenwood Creek	29-Aug-98	DM
Calpodus ethlius	Glynn: Brunswick	15-Aug-98 - 23-Oct-98	MC
Panoquina ocola	Glynn: Jekyll	10-Oct-98	MC
thousands of individuals			

PAPILIONIDAE

Battus philenor	Cobb: Rottenwood Creek	04-Oct-98	DM
-----------------	------------------------	-----------	----

PIERIDAE

Pieris rapae	Cobb: 3216 Shadowood Pkwy	06-Dec-98	DM
Phoebis sennae	Cobb: 3216 Shadowood Pkwy	01-Dec-98	DM
Eurema daira	McIntosh: Harris Neck NWR	19-Aug-98	DM
Eurema daira	Camden: Cumberland Island	21-Aug-98	DM

NYMPHALIDAE

Libytheana carinenta	Cobb: Rottenwood Creek	24-Oct-98	DM
Agraulis vanillae	Houston: 1217 Sunset Ave.	27-Nov-98	DM

Heliconius charitonius	Glynn: Jekyll Island	20-Aug-98	DM
Heliconius charitonius	Camden: Cumberland Island	21-Aug-98	DM
Polygonia interrogationis	Cobb: 3216 Shadowood Pkwy	29-Nov-98	DM
Phyciodes phaon	McIntosh: Harris Neck NWR	19-Aug-98	DM
Phyciodes phaon	Glynn: Jekyll Island	20-Aug-98	DM
Phyciodes phaon	Camden: Cumberland Island	21-Aug-98	DM
Asterocampa celtis	Houston: 1217 Sunset Ave.	26-Nov-98	DM
Danaus plexippus	Cobb: Rottenwood Creek	04-Oct-98	DM

Moths

ARCTIIDAE

Dahana atripennis	Glynn: Brunswick	12-Sep-98	MC
Cosmosoma myrodora	Glynn: Brunswick	03-Aug-98 - 23-Nov-98	MC
Syntomeida ipomoeae	Glynn: Brunswick	24-Aug-98	MC

NORTH CAROLINA

Butterflies

HESPERIIDAE

Erynnis martialis	Moore: near Foxfire Village	21-Apr-98	RWB
wild female observed ovipositing on Ceanothus americanus, reared to adults			
Hesperia meskei	Moore: near Foxfire Village	07-Oct-98	RWB
wild female observed ovipositing on Andropogon, larvae now feeding			
Amblyscirtes reversa	Moore: near Foxfire Village	21-Apr-98	RWB
confined females oviposited on Arundinaria tecta, reared to adults			

SOUTH CAROLINA

Butterflies

HESPERIIDAE

Epargyreus clarus	Chester: Hwy 72/121 @ turnoff to Leeds	11-Jul-98	JMR
Urbanus proteus	Charleston: Mt. Pleasant	06-Dec-98	BGS
Achalarus lyciades	Chester: Hwy 72/121 @ turnoff to Leeds	11-Jul-98	JMR
Thorybes bathyllus	Chester: Hwy 72/121 @ turnoff to Leeds	11-Jul-98	JMR
Erynnis horatius	Chester: Hwy 72/121 @ turnoff to Leeds	11-Jul-98	JMR
Pyrgus communis	Charleston: Patriots' Point	29-Nov-98	BGS
Nastra lherminier	Chester: Hwy 72/121 @ turnoff to Leeds	11-Jul-98	JMR
Lerema accius	Berkeley: Moncks Corner	26-May-98	RWB
larvae found feeding on Tripsacum dactyloides, reared to adults			
Lerema accius	Chester: Hwy 72/121 @ turnoff to Leeds	11-Jul-98	JMR
Copaeodes minimus	Charleston: Patriots' Point	29-Nov-98	BGS
Hylephila phyleus	Chester: Hwy 72/121 @ turnoff to Leeds	11-Jul-98	JMR
Hylephila phyleus	Charleston: Mt. Pleasant	06-Dec-98	BGS
Polites themistocles	Chester: Hwy 72/121 @ turnoff to Leeds	11-Jul-98	JMR
Polites vibex	Chester: Hwy 72/121 @ turnoff to Leeds	11-Jul-98	JMR
Atalopedes campestris	Chester: Hwy 72/121 @ turnoff to Leeds	11-Jul-98	JMR
Problema byssus	Berkeley: Moncks Corner	26-May-98	RWB
larvae found in shelters on Tripsacum dactyloides, reared to adults			
Poanes yehi	Berkeley: Moncks Corner	01-Jun-98	RWB
confined females oviposited on Arundinaria tecta, reared to adults			
Amblyscirtes vialis	Charleston: Awendaw	05-May-98	KG
Lerodea eufala	Charleston: Patriots' Point	29-Nov-98	BGS
Oligoria maculata	Charleston: Awendaw	05-May-98	KG
Oligoria maculata	Jasper: Savannah NWR	17-Aug-98	DM
Calpododes ethlius	Charleston: 4 mi N of US17 on SC41	06-Sep-98	BGS
Panoquina ocola	Charleston: Mt. Pleasant	17-Nov-98	BGS

PAPILIONIDAE

Battus philenor	Chester: Hwy 72/121 @ turnoff to Leeds	11-Jul-98	JMR
Papilio polyxenes	Chester: Hwy 72/121 @ turnoff to Leeds	11-Jul-98	JMR
Papilio glaucus	Chester: Hwy 72/121 @ turnoff to Leeds	11-Jul-98	JMR
Papilio troilus	Chester: Hwy 72/121 @ turnoff to Leeds	11-Jul-98	JMR

PIERIDAE

Pontia protodice	Chester: Hwy 72/121 @ turnoff to Leeds	11-Jul-98	JMR
Colias philodice	Chester: Hwy 72/121 @ turnoff to Leeds	11-Jul-98	JMR
Colias eurytheme	Chester: Hwy 72/121 @ turnoff to Leeds	11-Jul-98	JMR
Colias eurytheme	Charleston: Patriots' Point	29-Nov-98	BGS
Phoebis sennae	Charleston: Mt. Pleasant	04-Jan-98	BGS
Phoebis sennae	Charleston: Mt. Pleasant	06-Dec-98	BGS
Eurema lisa	Charleston: Mt. Pleasant	06-Dec-98	BGS

Eurema nicippe	Charleston: Seewee Visitors Center, Francis Marion NF	04-Jan-98	BGS
Eurema nicippe	Charleston: Patriots' Point	29-Nov-98	BGS
Nathalis iole	Chester: Hwy 72/121 @ turnoff to Leeds	11-Jul-98	JMR
LYCAENIDAE			
Strymon melinus	Chester: Hwy 72/121 @ turnoff to Leeds	11-Jul-98	JMR
RIODINIDAE			
Calephelis virginiensis	Charleston: Awendaw	05-May-98	KG
NYMPHALIDAE			
Agraulis vanillae	Charleston: Mt. Pleasant	06-Dec-98	BGS
Heliconius charitonius	Charleston: Ft. Johnson	25-Oct-98	BGS
Vanessa virginiensis	Charleston: Mt. Pleasant	26-Nov-98	BGS
Vanessa cardui	Chester: Hwy 72/121 @ turnoff to Leeds	11-Jul-98	JMR
Vanessa cardui	Charleston: Mt. Pleasant	29-Nov-98	BGS
Vanessa atalanta	Chester: Hwy 72/121 @ turnoff to Leeds	11-Jul-98	JMR
Vanessa atalanta	Charleston: Patriots' Point	29-Nov-98	BGS
Junonia coenia	Chester: Hwy 72/121 @ turnoff to Leeds	11-Jul-98	JMR
Junonia coenia	Charleston: Mt. Pleasant	06-Dec-98	BGS
Phyciodes tharos	Chester: Hwy 72/121 @ turnoff to Leeds	11-Jul-98	JMR
Phyciodes tharos	Charleston: Patriots' Point	29-Nov-98	BGS
Limenitis arthemis astyanax	Chester: Hwy 72/121 @ turnoff to Leeds	11-Jul-98	JMR
Asterocampa celtis	Chester: Hwy 72/121 @ turnoff to Leeds	11-Jul-98	JMR
Enodia portlandia	Charleston: Awendaw	04-May-98	KG
Cyllopsis gemma	Charleston: Awendaw	04-May-98 - 05-May-98	KG
Hermeuptychia sosybius	Chester: Hwy 72/121 @ turnoff to Leeds	11-Jul-98	JMR
Hermeuptychia sosybius	Charleston: Patriots' Point	29-Nov-98	BGS
Cercyonis pegala	Chester: Hwy 72/121 @ turnoff to Leeds	11-Jul-98	JMR
Danaus plexippus	Charleston: Patriots' Point	29-Nov-98	BGS
more than 25 seen, apparently roosting in trees along power line cut			
Danaus gilippus	Charleston: Dixie Plantation, Ravenel	16-Oct-98	BGS
Moths			
ARCTIIDAE			
Dahana atripennis	Charleston: James Island County Park	14-Nov-98	BGS

VIRGINIA

Butterflies

PIERIDAE

Pontia protodice	Richmond: City of Richmond, Maymont Park	25-Oct-98	WTH
Pieris rapae	Richmond: City of Richmond, Maymont Park	30-Aug-98 - 06-Dec-98	WTH
last date had record high temperature of 81			
Colias philodice	Richmond: City of Richmond, Maymont Park	06-Dec-98	WTH
Colias eurytheme	Richmond: City of Richmond, Maymont Park	06-Dec-98	WTH
Phoebis sennae	Richmond: City of Richmond, Maymont Park	30-Aug-98 - 06-Dec-98	WTH
last date had record high temperature of 81; very common during August and early September			
Eurema nicippe	Richmond: City of Richmond, Maymont Park	30-Aug-98	WTH

LYCAENIDAE

Callophrys grynea	Richmond: City of Richmond, Maymont Park	30-Aug-98	WTH
Strymon melinus	Richmond: City of Richmond, Maymont Park	30-Aug-98	WTH

NYMPHALIDAE

Libytheana carinenta	Richmond: City of Richmond, Maymont Park	30-Aug-98	WTH
Polygonia faunus	Montgomery: Poverty Hollow	12-Apr-98	RWB
confined females oviposited on Betula lenta, reared to adults			
Junonia coenia	Richmond: City of Richmond, Maymont Park	30-Aug-98 - 06-Dec-98	WTH
last date had record high temperature of 81; showing courtship activity			
Euptoieta claudia	Richmond: City of Richmond, Maymont Park	30-Aug-98 - 06-Dec-98	WTH
last date had record high temperature of 81			
Phyciodes tharos	Richmond: City of Richmond, Maymont Park	30-Aug-98 - 06-Dec-98	WTH
last date had record high temperature of 81			
Chlosyne nycteis	Richmond: City of Richmond, Maymont Park	30-Aug-98	WTH
Neonympha areolata	Suffolk Co.	16-May-98	RWB
confined females oviposited on Carex, reared to adults			

Zone 10 Northeast

Maryland, New York, Pennsylvania, New England States, Maritime Provinces

Coordinator: Mark J. Mello

Contributors Cite

RWB : Richard W. Boscoe

RD : Robert Dirig

SJ : Steven Johnson

JTM : John T MacRoy

MJM : Mark J. Mello

RO : Richard Orr

RXS : Eric Raun & Tom Stock

RFR : Robert F. Ringler

DS1 : David, Mason & Stephanie Smith

RES : Ray E. Stanford

DLW : David L Wagner

HHW : Hal & Harold Wierenga

LD : Lynn Davidson

GF : Gail Frantz

CK : Clyde Kessler

PM : Paul Manton

MM2 : Monica Miller

OAP : Owen A. Perkins

R/T : Robert Ringler & Debbie Terry

FR : Frank Rutkowski

S/G : Richard, Gardner & Robert Smith

PS : Pamela Stephen

HW : Hal Wierenga

B/D : Barbour, Sterling & Rob Dirig

KG : Karl Gardner

CAL : Curtis A. Lehman

GM : Gerald M. McWilliams

MN : Martin Niturgeon

ER : Eric Raun

S/R : Robert Ringler & Eric Stasz

DLS : David L Smith

RKS : Ray & Kit Stanford

TAS : Thomas A. Stock

W/D : Hal, Davidson & Lynn Wierenga

NEW BRUNSWICK

Moths

HEPIALIDAE

Sthenopis auratus
175 mi. range extension

Madawaska: St. Basile

12-Jul-96

MN

OECOPHORIDAE

Callima argenticinctella

Madawaska: St. Basile

29-Jun-98

MN

COSMOPTERIGIDAE

Limnaecia phragmitella

Madawaska: St. Basile

14-Aug-98

MN

LIMACODIDAE

Apoda y-inversum
total of 3 caught

Madawaska: St. Basile

28-Jun-98

MN

PYRALIDAE

Petrophila canadensis
total of 5 caught

Madawaska: St. Basile

29-Jun-98

MN

NOCTUIDAE

Syngrapha altera
3 larvae

Madawaska: vicinity St. Lake

05-Jun-98

MN

Callopietria mollissima

Madawaska: St. Basile

29-Jun-98

MN

Ufeus satyricus

Madawaska: East Iroquois River

10-Nov-98

MN

CONNECTICUT

Butterflies

NYMPHALIDAE

Phyciodes cocyta
Phyciodes cocyta

WINDHAM: Mt Hope River, 1/2 mi. S of Exit 72, I-84, SR 89
TOLLAND: Exit 68, I-84 @ Skungamaug River

14-Jul-98

RES

14-Jul-98

RES

DELAWARE

Butterflies

PAPILIONIDAE

Papilio palamedes
via RHS; 2nd County record

Sussex: Prime Hook National Wildlife Refuge

05-Aug-98

CK

PIERIDAE

Eurema lisa

Sussex: Great Cypress Swamp

05-Jul-98 - 08-Aug-98 S/G

MAINE

Butterflies

HESPERIIDAE

Epargyreus clarus
nect. on Dogbane

SAGADAHOC: US 1 @ Montsweag Rd.

15-Jul-97

RKS

<i>Epargyreus clarus</i> nect. on Dogbane	HANCOCK: Mt. Desert Island, Norway Dr. @ Crooked Rd.	16-Jul-97	RKS
<i>Ancyloxypha numitor</i>	WASHINGTON: 1 mi. NE of Machias	25-Jul-95	RKS
<i>Thymelicus lineola</i> nect. on Dogbane	SAGADAHOC: US 1 @ Montsweag Rd.	15-Jul-97	RKS
<i>Thymelicus lineola</i> powerline cut	CUMBERLAND: US 1 @ Old Bath Rd.	15-Jul-97	RES
<i>Thymelicus lineola</i>	WALDO: US 1 @ Verona Park	22-Jul-98	RKS
<i>Thymelicus lineola</i>	KNOX: 4 mi. SSW of Lincolnville	22-Jul-98	RKS
<i>Thymelicus lineola</i> elevation 280'	PENOBSCOT: E. Holden, US 1-A @ RR-crossing	26-Jul-98	RKS
<i>Thymelicus lineola</i> elevation 400'	HANCOCK: US 1-A @ Lucerne Inn	26-Jul-98	RKS
<i>Polites peckius</i>	WASHINGTON: Steuben	23-Jul-95 - 25-Jul-95	RKS
<i>Polites mystic</i>	KNOX: 4 mi. SSW of Lincolnville	22-Jul-98	RKS
<i>Wallengrenia egeremet</i> powerline cut	CUMBERLAND: US 1 @ Old Bath Rd.	15-Jul-97	RES
<i>Pompeius verna</i> incorr. author in 1997 S.S.	CUMBERLAND: US 1 @ Old Bath Rd.	15-Jul-97	RES
<i>Anatrytone logan</i> powerline cut	Cumberland: US 1 @ Old Bath Rd.	15-Jul-97	RES
<i>Euphyes bimacula</i>	WASHINGTON: 2 mi E of Addison, wetter portions of spruce bog	23-Jul-95	RKS
<i>Euphyes vestris</i>	KNOX: 4 mi. SSW of Lincolnville	22-Jul-98	RKS
<i>Euphyes vestris</i> wet meadow	WALDO: US 1 @ Northport	22-Jul-98	RKS
<i>Euphyes ruricola metacomet</i>	Washington: 2 mi. E of Addison, edge of black spruce bog	23-Jul-95	RKS
PIERIDAE			
<i>Pieris brassicae</i> 2 at Lubec and 1 at Quoddy Head SP	WASHINGTON: Lubec and Quoddy Head SP	25-Jul-95	RKS
<i>Pieris rapae</i> common	WASHINGTON: Lubec and Quoddy Head State Park	25-Jul-95	RKS
LYCAENIDAE			
<i>Celastrina neglecta</i> 2 fresh females, nearly immaculate	WASHINGTON:	25-Jul-95	RKS
NYMPHALIDAE			
<i>Nymphalis antiopa</i> powerline cut	CUMBERLAND: US 1 @ Old Bath Rd.	15-Jul-97	RES
<i>Speyeria aphrodite</i>	Washington: Quoddy Head State Park	25-Jul-95	RKS
<i>Phyciodes cocyta</i>	KNOX: 4 mi. SSW of Lincolnville	22-Jul-98	RKS

MARYLAND

All records received via Richard H. Smith (RHS).

Butterflies

HESPERIIDAE

<i>Urbanus proteus</i>	BALTIMORE: Boring	03-Sep-98 - 17-Sep-98	GF
<i>Urbanus proteus</i>	Anne Arundel: Greenbury Point	08-Sep-98	HW
<i>Urbanus proteus</i>	Montgomery: Silver Spring	13-Sep-98 - 21-Sep-98	RXS
<i>Urbanus proteus</i>	Carroll: Mount Airy	27-Sep-98	DLS
<i>Pyrgus centaureae</i> returning with cessation of gypsy moth spraying	Allegany: Flintstone	25-Apr-98	R/T
<i>Thymelicus lineola</i>	TALBOT: Easton	20-Jun-98	S/R
<i>Euphyes conspicuus</i>	FREDERICK: Audrey Carroll Audubon Sanctuary	05-Jul-98	DLS
<i>Lerodea eufala</i>	MONTGOMERY: Silver Spring	17-Oct-98	TAS
<i>Panoquina ocola</i>	Anne Arundel: Greenbury Point	23-Aug-98 - 17-Oct-98	HW
<i>Panoquina ocola</i>	FREDERICK: Lily Pons	05-Sep-98	DLS
<i>Panoquina ocola</i>	Anne Arundel: White Hall	16-Sep-98	HW
<i>Panoquina ocola</i>	Montgomery: Silver Spring	27-Sep-98 - 18-Oct-98	RXS
<i>Panoquina ocola</i>	Carroll: Mount Airy	28-Sep-98 - 01-Nov-98	DLS

PIERIDAE

<i>Phoebis sennae eubule</i> 110 ind. on 8/8/98	Prince Georges: Rosaryville State Park	18-Jul-98	W/D
<i>Phoebis sennae eubule</i>	Anne Arundel: Davidsonville transmitter site	22-Jul-98	HW
<i>Phoebis sennae eubule</i>	Anne Arundel: Greenbury Point	29-Jul-98	HW
<i>Eurema lisa</i>	Anne Arundel: Davidsonville transmitter site	18-Jul-98 - 21-Aug-98	HHW
<i>Eurema lisa</i>	Prince Georges: Rosaryville State Park	18-Jul-98 - 08-Aug-98	W/D
<i>Eurema lisa</i>	Howard: Font Hill Park	07-Sep-98	RO
<i>Eurema nicippe</i>	Allegany: Flintstone	29-Apr-98	LD

Eurema nicippe 20 ind. on 7/24/98	Prince Georges: Rosaryville State Park	18-Jul-98 - 08-Aug-98	W/D
Eurema nicippe	Anne Arundel: Davidsonville transmitter site	19-Jul-98 - 21-Aug-98	HW
Eurema nicippe 2nd county record	Carroll: Liberty Lake	08-Aug-98	RFR
LYCAENIDAE			
Lycaena hyllus 2nd county record	Frederick: Audrey Carroll Audubon Sanctuary	05-Jul-98	DLS
Callophrys augustinus	HOWARD: Laurel	15-Apr-98	PS
Parrhasius m-album	Prince Georges: Rosaryville State Park	18-Jul-98	W/D
Parrhasius m-album	Anne Arundel: Greenbury Point	07-Sep-98 - 10-Sep-98	HW
Parrhasius m-album	Calvert: Cove point	11-Sep-98	RO
Parrhasius m-album	Montgomery: Silver Spring	12-Sep-98	ER
Parrhasius m-album over 50 ind. nect. on Boneset	St. Marys: Point Lookout State Park	13-Sep-98	DS1

MASSACHUSETTS

Moths

GEOMETRIDAE			
Stenoporpia polygrammaria frost pocket; 3 specimens	DUKES: Marthas Vineyard-West Tisbury, Manuel Correlus SF	18-Jun-98 - 19-Jun-98	DLW
Cingilia catenaria common along powerlines	Barnstable: Camp Edwards Training Site, Cape Cod	30-Sep-98	MJM
ARCTIIDAE			
Cychnia inopinatus UV light trap (1)	Barnstable: Crane Wildlife Management Area, Falmouth	21-Jul-98	MJM
NOCTUIDAE			
Catocala herodias gerhardi summit	Berkshire: Mt. Everett	01-Jul-98	DLW
Eurois astricta UV light trap (2)	Merrimack: Concord Airport	23-Jul-98	MJM

NEW HAMPSHIRE

Butterflies

HESPERIIDAE			
Polites origenes	ROCKINGHAM: 0.1 mi. N SR 107, Austin Corners	15-Jul-97	RES
Pompeius verna	STRAFFORD: SR 152, 0.2 mi. W of South Lee	15-Jul-97	RES
PAPILIONIDAE			
Battus philenor	ROCKINGHAM: 0.1 mi. N SR 107, Austin Corners	15-Jul-97	RES
PIERIDAE			
Colias interior nect. at Solidago cutleri	Coos: Mount Washington, in krumholtz vegetation zone	21-Jul-98	RD
LYCAENIDAE			
Celastrina neglecta	ROCKINGHAM: 0.1 mi. N SR 107, Austin Corners	15-Jul-97	RES
NYMPHALIDAE			
Phyciodes cocyta	STRAFFORD: SR 152, 0.2 mi. W of South Lee	15-Jul-97	RES
Satyroides eurydice streamside fen w. 1'+ high bunchgrass clumps	ROCKINGHAM: 0.1 mi. N SR 107, Austin Corners	15-Jul-97	RES

Moths

GEOMETRIDAE			
Itame loricaria UV light trap (2)	Merrimack: Concord Airport	26-Jun-98	MJM
SPHINGIDAE			
Sphinx drupiferarum UV light trap (1)	Merrimack: Concord Airport	27-Jun-98	MJM
NOCTUIDAE			
Acronicta falcuella UV light trap (1)	Merrimack: Concord Airport	30-Jul-98	MJM
Euxoa pleuritica UV light trap (1)	Merrimack: Concord Airport	31-Jul-98	MJM

NEW JERSEY

Butterflies

HESPERIIDAE

Hesperia attalus Ocean: Lakehurst 27-Jun-98 RWB
confined female ovip. on *Andropogon*, reared to adults

PAPILIONIDAE

Battus philenor Hudson: Jersey City 24-Jul-98 FR
nect. at *Lythra*

NEW YORK

Butterflies

HESPERIIDAE

Erynnis icelus Albany: Pine Bush 13-Oct-98 RD
fully grown larva encased in leaf nest on *Salix tristis*

Erynnis lucilius Jefferson: Limerick Cedars 12-Jul-98 RD
larvae in nests on *Aquilegia canadensis*

Erynnis baptisiae Sullivan: The Basket, base of Catskill Cliffs 22-Aug-98 RD
1st record in 40 years

Nastra lherminier Rockland: Iona Island on W. side Hudson River 21-Aug-98 RD
nect. at *Dianthus armeria* & *Echium vulgare*; assoc. w. *Schizachyrium scoparium* grass

Wallengrenia egeremet ERIE: Ellicott Trailways & N. Forest Rd., Amherst Twp. 03-Aug-98 OAP

Poanes viator zizaniae ALBANY: Pine Bush 18-Jul-98 - 24-Jul-98 RD
assoc. with *Phragmites australis*

PAPILIONIDAE

Battus philenor : Olean 01-Aug-98 JTM
larvae on Dutchman's Pipe; emerged sep. 12-13

PIERIDAE

Phoebis sennae Orange: Sterling Forest 26-Aug-98 B/D

Phoebis sennae Nassau: New Hyde Park 01-Sep-98 PM

Phoebis sennae Richmond: Saw Mill Creek Marsh on Staten Island 07-Sep-98 RD
4-5 nect. on *Solidago canadensis* & *Saponaria officinalis*

Eurema lisa Orange: Sterling Forest 26-Aug-98 B/D
mated pair

LYCAENIDAE

Lycaena hyllus Schuyler: Queen Catharine's Marsh near Montour Falls 20-Jun-98 - 19-Aug-98 RD
in marsh; two broods

Satyrrium acadicum Schuyler: Queen Catharine's Marsh near Montour Falls 28-Jun-98 RD
nect. at *Asclepias syriaca*

Callophrys grynea Schuyler: Rock Cabin Rd. near Montour Falls 01-Aug-98 RD
nect. at *Solidago canadensis*

Strymon melinus Sullivan: The Basket, base of Catskill Cliffs 22-Aug-98 RD
ovip. on *Desmodium canadense*

Strymon melinus Richmond: Tottenville on Staten Island 07-Sep-98 RD
assoc. w. *Strophostylos helvola* on the beach

Erora laeta Essex: summit of Whiteface Mountain 15-Jul-98 RD
female hilltopping in alpine meadow; nect. at *Potentilla tridentata* & *Solidago cutleri*

NYMPHALIDAE

Nymphalis milberti Schuyler: Queen Catharine's Marsh near Montour Falls 20-Jun-98 RD
abundant; larvae on *Urtica dioica*

Nymphalis milberti Ulster: Giant Ledge Trail S. of Big Indian 19-Sep-98 RD
several nect. at *Aster prenanthoides*; only autumn record in 40 years

Asterocampa celtis Schuyler: Rock Cabin Rd. near Montour Falls 30-Aug-98 RD
nect. 1/2 hour at *Solidago canadensis*

Coenonympha inornata ERIE: Ellicott Trailways & N. Forest Rd., Amherst Twp. 03-Aug-98 OAP

Oeneis jutta Franklin: Bloomingdale Bog 23-May-98 - 24-May-98 RD
nect. at *Aronia melanocarpa*

PENNSYLVANIA

Butterflies

HESPERIIDAE

Erynnis baptisiae Allegheny: Forest Hills 25-Apr-98 - 22-Nov-98 CAL
late date

Erynnis baptisiae Berks: Fleetwood 26-Oct-98 KG
larvae still active on *Baptisia tinctoria* & *Coronilla varia*

Hesperia sassacus	Centre: Six Mile Run	06-Jun-98	RWB
confined females ovip. on Danthonia spicata, reared to 4th instar diapausing larvae			
Atalopedes campestris	Allegheny: Forest Hills	05-Sep-98 - 11-Oct-98	CAL
none in 1997			
Poanes viator	Montgomery: Plymouth Meeting	09-Jul-98	RWB
confined female ovip. on Phragmites australis, reared to adults			
Panoquina ocola	Allegheny: Forest Hills	15-Aug-98	CAL
PIERIDAE			
Pieris rapae	Allegheny: Forest Hills	29-Mar-98 - 06-Dec-98	CAL
late date, still common			
Phoebis sennae	Allegheny: Forest Hills	27-Jul-98 - 03-Aug-98	CAL
ovip. on Cassia hebecarpa in backyard garden			
Phoebis sennae	BERKS: Birdsboro	12-Sep-98	KG
several			
Phoebis sennae	BERKS: Plowville	12-Sep-98	KG
Phoebis sennae	Berks: Fleetwood	18-Sep-98	KG
Phoebis sennae	ERIE: Fairview	29-Sep-98	GM
Eurema lisa	Allegheny: Forest Hills	22-Jul-98 - 24-Jul-98	CAL
Eurema nicippe	Allegheny: Forest Hills	18-May-98	CAL
early female emigrating north			
LYCAENIDAE			
Celastrina neglecta	Berks: Fleetwood	29-Jul-98 - 09-Aug-98	KG
Ovip. on Amphicarpa bracteata; reared to adults			
NYMPHALIDAE			
Polygonia progne	Huntington: Martin Gap	29-Apr-98	RWB
ovip. on Ribes rotundifolium in wild & in confinement; reared to adults			
Vanessa virginiensis	Allegheny: Forest Hills	03-Mar-98 - 01-Nov-89	CAL
early record			
Junonia coenia	Erie: Presque Isle State Park	09-Sep-98	GM
Speyeria cybele	Berks: Fleetwood	21-Sep-98	KG
2 females ovip. on grass & dried sassafras leaf; 3 eggs hatched 9-20 Oct.			
Limenitis arthemis	Erie: Fairview	26-May-98	GM
very rare away from Appalachian Mts.			
Hermeuptychia sosybius	Washington:	25-Jul-98	MM2
sipping moisture along stream bordering woodland and fields			
Moths			
GEOMETRIDAE			
Caripeta angustiorata	Sullivan: 6 mi. N. Red Rock	21-Jul-98	SJ
Scopula cacuminaria	Sullivan: 6 mi. N. Red Rock	15-Aug-98	SJ
NOTODONTIDAE			
Schizura badia	Sullivan: 6 mi. N. Red Rock	21-Jul-98	SJ
NOCTUIDAE			
Anomis commoda	Northumberland: Mandata	11-Aug-98 - 23-Aug-98	SJ
Diachrysia balluca	Dauphin: Pillow	18-Jul-98	SJ
Capis curvata	Sullivan: 6 mi. N. Red Rock	19-Jul-98	SJ
Acronicta tritona	Synder: 5 mi. SW Middleburg	24-May-98 - 27-May-98	SJ
Acronicta subochrea	Synder: 5 mi. SW Middleburg	24-May-98	SJ
Apamea plutonia	Dauphin: Pillow	18-Jun-98	SJ
Oligia minuscula	Sullivan: 6 mi. N. Red Rock	26-Aug-98 - 15-Sep-98	SJ
Xylomoia chagnoni	Sullivan: 6 mi. N. Red Rock	19-Jul-98	SJ
Chortodes inquinata	Sullivan: 6 mi N of Red Rock	19-Jul-98	SJ
Archanara subflava	Dauphin: Pillow	21-Sep-98	SJ
Lithophane fagina	Sullivan: 6 mi. N. Red Rock	18-Oct-98	SJ
Ulolonche modesta	Synder: 5 mi. SW Middleburg	15-May-98	SJ
Aplectoides condita	Synder: 5 mi. SW Middleburg	24-May-98 - 27-May-98	SJ
Cryptocala acadensis	Sullivan: 6 mi. N. Red Rock	19-Jul-98	SJ

Zone 11 Pacific Islands

Hawaii, Pacific Islands

Coordinator: Vacant

Contributors Cite

JPT : James P. Tuttle

General Comments:

No reports received.

Zone 12 Mexico

Mexico & the Caribbean Islands

Coordinator: Isabel Vargas Fernandez

Contributors Cite

G/P : Gutierrez & Palacios

TST : Tijera, Suarez, & Tescum

ADW : Andrew D. Warren

General Comments:

Extensive regional surveys were conducted in the state of Quintana Roo by Carmen Pozo de la Tijera, Noemi Salas Suarez and Santiago Uc Tescum (TST), in the state of Chiapas by Jose Luis Salinas Gutierrez and Ubaldo Melo Samper Palacios (G/P), and in the state of Jalisco by Andrew Warren (ADW).

CHIAPAS

The collections made at Yaxchilan National Monument by Jose Luis Salinas Gutierrez and Ubaldo Melo Samper Palacios (G/P) comprise part of the project entitled "Biological characterization of Yaxchilan National Monument as a fundamental element for the design of its management plan." The objective of this project is to elaborate upon the existing floral and faunal lists of the region, with the ultimate goal of proposing a management plan for the conservation of the area. The Yaxchilan region is located in Ocosingo Municipio in northeastern Chiapas state, along the Guatemala border. The area surrounds the Usumacinta River, which extends approximately 2,600 hectares and is situated between 16 degrees 50' 29" and 16 degrees 54' 05" N and 90 degrees 56' 48" and 91 degrees 00' 30" W. The Yaxchilan area is part of the Sierra Lacandona formation, and the "Selva Lacandona" is the type of tropical rain forest found there. The annual precipitation measures 1700 mm, being one of the driest Mexican rain forests, with a median annual temperature of 22 degrees C. The area is considered to be historically and culturally significant due to the presence of Mayan archaeological

monuments. A total of 35 days of collecting, distributed across the months of December (1997), February, March and June, correspond to the local dry seasons. Field work was performed in five transects of three habitat types: two in areas of intact native vegetation, two areas where native vegetation had been altered and the actual archaeological zone as the last site. To date, a total of 120 species (9 Papilionidae, 15 Pieridae, 79 Nymphalidae and 17 Lycaenidae), represented by 1450 specimens have been collected, all of which have been deposited in the Lepidoptera collection at the "Alfonso L. Herrera" Museo de Zoologia (MZFC), at the Facultad de Ciencias, UNAM, in Mexico City. We have observed several species with very specific habitat preferences. Species that have only been taken in bait traps in the archaeological zone include *Splendeptychia kendalli*, *Cissia confusa* and *Eryphanis aesacus*. Other species, including *Nessaea aglaura*, *Pierella luna rubecula*, *Coea acheronta* and *Tigridia acesta*, have been taken only in bait traps in native forest.

Butterflies

PAPILIONIDAE

<i>Parides eurimedes mylotes</i>	CHIAPAS: Monumento Natural Yaxchilán.	16-Feb-98	G/P
<i>Parides iphidamas</i>	CHIAPAS: Monumento Natural Yaxchilán.	07-Dec-97	G/P
<i>Parides iphidamas</i>	CHIAPAS: Monumento Natural Yaxchilán.	04-Apr-98 - 08-Apr-98	G/P
<i>Parides sesostris zestos</i>	CHIAPAS: Monumento Natural Yaxchilán.	08-Apr-98	G/P
<i>Papilio astyalus pallas</i>	CHIAPAS: Monumento Natural Yaxchilán.	06-Apr-98	G/P
<i>Papilio androgeus epidaurus</i>	CHIAPAS: Monumento Natural Yaxchilán.	21-Jun-98	G/P
<i>Papilio anchisiades idaeus</i>	CHIAPAS: Monumento Natural Yaxchilán.	15-Feb-98	G/P
<i>Papilio anchisiades idaeus</i>	CHIAPAS: Monumento Natural Yaxchilán.	25-Jun-98	G/P
<i>Protographium philolaus</i>	CHIAPAS: Monumento Natural Yaxchilán.	03-Apr-98 - 06-Apr-98	G/P
<i>Protographium philolaus</i>	CHIAPAS: Monumento Natural Yaxchilán.	21-Jun-98 - 25-Jun-98	G/P
<i>Protographium agesilaus neosilaus</i>	CHIAPAS: Monumento Natural Yaxchilán.	21-Jun-98 - 25-Jun-98	G/P
<i>Eurytides salvini</i>	CHIAPAS: Monumento Natural Yaxchilán.	06-Apr-98	G/P
<i>Eurytides salvini</i>	CHIAPAS: Monumento Natural Yaxchilán.	25-Jun-98	G/P

PIERIDAE

<i>Enantia lina marion</i>	CHIAPAS: Monumento Natural Yaxchilán.	15-Feb-98	G/P
<i>Rhabdodryas trite</i>	CHIAPAS: Monumento Natural Yaxchilán.	03-Apr-98	G/P
<i>Dismorphia amphionia praxinoe</i>	CHIAPAS: Monumento Natural Yaxchilán.	08-Dec-97	G/P
<i>Phoebis sennae marcellina</i>	CHIAPAS: Monumento Natural Yaxchilán.	05-Dec-97 - 25-Jun-98	G/P
specific dates 5-10 Dec, 12 Feb & 21-25 Jun			
<i>Phoebis philea</i>	CHIAPAS: Monumento Natural Yaxchilán.	25-Jun-98	G/P
<i>Phoebis argante</i>	CHIAPAS: Monumento Natural Yaxchilán.	08-Dec-97 - 25-Jun-98	G/P
specific dates 8-9 Dec, 8-16 Feb, 3 Apr & 21-25 Jun			
<i>Phoebis agarithe</i>	CHIAPAS: Monumento Natural Yaxchilán.	03-Apr-98 - 24-Jun-98	G/P
<i>Phoebis statira jada</i>	CHIAPAS: Monumento Natural Yaxchilán.	10-Feb-98 - 26-Jun-98	G/P
specific dates 10 Feb, 6-10 Apr & 21-26 Jun			
<i>Eurema lisa centralis</i>	CHIAPAS: Monumento Natural Yaxchilán.	05-Apr-98	G/P
<i>Eurema nise nelphe</i>	CHIAPAS: Monumento Natural Yaxchilán.	10-Feb-98 - 25-Jun-98	G/P
specific dates 10-16 Feb, 3-6 Apr & 21-25 Jun			

<i>Eurema दौरa</i>	CHIAPAS: Monumento Natural Yaxchilán.	05-Dec-97 - 08-Apr-98	G/P
specific dates 5-8 Dec, 16 Feb & 8 Apr			
<i>Nathalis iole</i>	CHIAPAS: Monumento Natural Yaxchilán.	15-Feb-98 - 24-Jun-98	G/P
specific dates 15 Feb, 6 Apr & 24 Jun			
<i>Glutophrissa drusilla tenuis</i>	CHIAPAS: Monumento Natural Yaxchilán.	09-Dec-97 - 25-Jun-98	G/P
specific dates 9 Dec, 15 Feb, 3-9 Apr & 21-25 Jun			
LYCAENIDAE			
<i>Mesosemia lamachus</i>	CHIAPAS: Monumento Natural Yaxchilán.	07-Apr-98	G/P
<i>Menander menander purpurata</i>	CHIAPAS: Monumento Natural Yaxchilán.	16-Feb-98	G/P
<i>Eumaeus toxea</i>	CHIAPAS: Monumento Natural Yaxchilán.	04-Apr-98 - 10-Apr-98	G/P
<i>Napaea umbra</i>	CHIAPAS: Monumento Natural Yaxchilán.	07-Apr-98	G/P
<i>Pachytone gigas</i>	CHIAPAS: Monumento Natural Yaxchilán.	15-Dec-97	G/P
<i>Calospila sudias</i>	CHIAPAS: Monumento Natural Yaxchilán.	05-Apr-98	G/P
<i>Arawacus togarna</i>	CHIAPAS: Monumento Natural Yaxchilán.	10-Dec-97 - 16-Feb-98	G/P
<i>Zizula cyna</i>	CHIAPAS: Monumento Natural Yaxchilán.	09-Feb-98 - 08-Apr-98	G/P
specific dates 9-14 Feb & 7-8 Apr			
<i>Leptotes cassius striata</i>	CHIAPAS: Monumento Natural Yaxchilán.	25-Jun-98	G/P
<i>Leucochimona lepida nivalis</i>	CHIAPAS: Monumento Natural Yaxchilán.	07-Dec-97	G/P
<i>Hemiargus ceraunus zachaeina</i>	CHIAPAS: Monumento Natural Yaxchilán.	12-Feb-98 - 24-Jun-98	G/P
specific dates 3-6 Apr, 12 Feb, 24 Jun			
<i>Everes comyntas texana</i>	CHIAPAS: Monumento Natural Yaxchilán.	07-Dec-97 - 25-Jun-98	G/P
specific dates 7-16 Dec, 5-10 Apr, & 21-25 Jun			
<i>Evenus regalis</i>	CHIAPAS: Monumento Natural Yaxchilán.	08-Apr-98	G/P
<i>Charis gynaea zama</i>	CHIAPAS: Monumento Natural Yaxchilán.	08-Feb-98 - 09-Apr-98	G/P
specific dates 8-16 Feb & 4-9 Apr			
<i>Charis velutina</i>	CHIAPAS: Monumento Natural Yaxchilán.	08-Feb-98	G/P
<i>Eurybia halimede elvina</i>	CHIAPAS: Monumento Natural Yaxchilán.	09-Apr-98	G/P
<i>Juditha molpe</i>	CHIAPAS: Monumento Natural Yaxchilán.	09-Feb-98 - 25-Jun-98	G/P
specific dates 9-16 Feb, 7-8 Apr, 23-25 Jun			
NYMPHALIDAE			
<i>Libytheana carinenta mexicana</i>	CHIAPAS: Monumento Natural Yaxchilán.	24-Jun-98	G/P
<i>Actinote guatemalena</i>	CHIAPAS: Monumento Natural Yaxchilán.	08-Feb-98	G/P
<i>Agraulis vanillae incarnata</i>	CHIAPAS: Monumento Natural Yaxchilán.	23-Jun-98 - 25-Jun-98	G/P
<i>Dryas iulia moderata</i>	CHIAPAS: Monumento Natural Yaxchilán.	08-Dec-97 - 26-Jun-98	G/P
specific dates 8-11 Dec, 8-16 Feb & 21-26 Jun			
<i>Eueides aliphera gracilis</i>	CHIAPAS: Monumento Natural Yaxchilán.	11-Feb-98	G/P
<i>Heliconius charitonius vazquezae</i>	CHIAPAS: Monumento Natural Yaxchilán.	13-Feb-98	G/P
<i>Heliconius charitonius vazquezae</i>	CHIAPAS: Monumento Natural Yaxchilán.	21-Jun-98	G/P
<i>Heliconius ismenius telchinia</i>	CHIAPAS: Monumento Natural Yaxchilán.	15-Dec-97	G/P
<i>Heliconius cydno galanthus</i>	CHIAPAS: Monumento Natural Yaxchilán.	10-Dec-97	G/P
<i>Heliconius sapho leuce</i>	CHIAPAS: Monumento Natural Yaxchilán.	08-Apr-98	G/P
<i>Prepona laertes octavia</i>	CHIAPAS: Monumento Natural Yaxchilán.	08-Apr-98	G/P
<i>Prepona laertes octavia</i>	CHIAPAS: Monumento Natural Yaxchilán.	23-Jun-98	G/P
<i>Pseudodebis zimri</i>	CHIAPAS: Monumento Natural Yaxchilán.	06-Dec-97 - 26-Jun-98	G/P
specific dates 6-15 Dec, 8-14 Feb, 3-9 Apr & 26 Jun			
<i>Hypothyris lycaste dionaea</i>	CHIAPAS: Monumento Natural Yaxchilán.	11-Dec-97 - 07-Apr-98	G/P
specific dates 11 Dec, 11 Feb & 7 Apr			
<i>Ithomia patilla</i>	CHIAPAS: Monumento Natural Yaxchilán.	07-Dec-97 - 14-Feb-98	G/P
specific dates 7-12 Dec & 8-14 Feb			
<i>Anartia jatrophae luteipicta</i>	CHIAPAS: Monumento Natural Yaxchilán.	07-Dec-97 - 21-Jun-98	G/P
specific dates 7-11 Dec, 8-16 Feb, 3-9 Apr & 21 Jun			
<i>Anartia amathea venusta</i>	CHIAPAS: Monumento Natural Yaxchilán.	05-Dec-97 - 26-Jun-98	G/P
specific dates 5-15 Dec, 9-15 Feb & 21-26 Jun			
<i>Siproeta stelenes biplagiata</i>	CHIAPAS: Monumento Natural Yaxchilán.	10-Feb-98	G/P
<i>Splendeptychia kendalli</i>	CHIAPAS: Monumento Natural Yaxchilán.	08-Dec-97	G/P
<i>Castilia myia</i>	CHIAPAS: Monumento Natural Yaxchilán.	05-Dec-97 - 08-Apr-98	G/P
specific dates 5-11 Dec, 9 Feb & 8 Apr			
<i>Coea acheronta</i>	CHIAPAS: Monumento Natural Yaxchilán.	23-Jun-98 - 26-Jun-98	G/P
<i>Phyciodes tulcis</i>	CHIAPAS: Monumento Natural Yaxchilán.	09-Feb-98 - 22-Jun-98	G/P
specific dates 9-16 Feb, 7-8 Apr & 21-22 Jun			
<i>Eresia clara</i>	CHIAPAS: Monumento Natural Yaxchilán.	06-Dec-97	G/P
<i>Eryphanis aescacus</i>	CHIAPAS: Monumento Natural Yaxchilán.	16-Dec-97	G/P
<i>Phyciodes tharos</i>	CHIAPAS: Monumento Natural Yaxchilán.	15-Dec-97	G/P
<i>Phyciodes tharos</i>	CHIAPAS: Monumento Natural Yaxchilán.	26-Jun-98	G/P
<i>Cissia confusa</i>	CHIAPAS: Monumento Natural Yaxchilán.	08-Dec-97 - 08-Apr-98	G/P
specific dates 8-16 Dec, 8-11 Feb & 8 Apr			
<i>Chlosyne janais</i>	CHIAPAS: Monumento Natural Yaxchilán.	21-Jun-98 - 25-Jun-98	G/P
<i>Thessalia theona thekla</i>	CHIAPAS: Monumento Natural Yaxchilán.	05-Dec-97 - 08-Dec-97	G/P

<i>Tigridia acesta</i>	CHIAPAS: Monumento Natural Yaxchilán. specific dates 11-12 Dec, 8-12 Feb, 4-9 Apr & 23 Jun	11-Dec-97 - 23-Jun-98	G/P
<i>Adelpha iphiclus iphicolea</i>	CHIAPAS: Monumento Natural Yaxchilán.	15-Feb-98	G/P
<i>Aeria eurimedeia pacifica</i>	CHIAPAS: Monumento Natural Yaxchilán.	08-Dec-97	G/P
<i>Napeogenes tolosa</i>	CHIAPAS: Monumento Natural Yaxchilán.	08-Dec-97	G/P
<i>Myscelia cyaniris</i>	CHIAPAS: Monumento Natural Yaxchilán.	21-Jun-98 - 26-Jun-98	G/P
<i>Catonephele numilia esite</i>	CHIAPAS: Monumento Natural Yaxchilán.	09-Feb-98	G/P
<i>Catonephele numilia esite</i>	CHIAPAS: Monumento Natural Yaxchilán.	05-Apr-98 - 08-Apr-98	G/P
<i>Catonephele mexicana</i>	CHIAPAS: Monumento Natural Yaxchilán. specific dates 5-Dec, 8-12 Feb & 9 Apr	05-Dec-97 - 09-Apr-98	G/P
<i>Cepheptychia glaucina</i>	CHIAPAS: Monumento Natural Yaxchilán.	09-Dec-97	G/P
<i>Cepheptychia glaucina</i>	CHIAPAS: Monumento Natural Yaxchilán.	08-Apr-98	G/P
<i>Eunica alcmena</i>	CHIAPAS: Monumento Natural Yaxchilán.	24-Jun-98	G/P
<i>Dynamine postverta mexicana</i>	CHIAPAS: Monumento Natural Yaxchilán. specific dates 8-9 Dec, 8-16 Feb, 23-24 Jun	08-Dec-97 - 24-Jun-98	G/P
<i>Pyrrhogyra neaerea hypsenor</i>	CHIAPAS: Monumento Natural Yaxchilán.	12-Feb-98	G/P
<i>Mestra amymone</i>	CHIAPAS: Monumento Natural Yaxchilán.	15-Feb-98	G/P
<i>Biblis hyperia aganisa</i>	CHIAPAS: Monumento Natural Yaxchilán.	03-Apr-98	G/P
<i>Temenis laothoe hondurensis</i>	CHIAPAS: Monumento Natural Yaxchilán.	05-Dec-97	G/P
<i>Nica flavilla</i>	CHIAPAS: Monumento Natural Yaxchilán. specific dates 8-9 Dec, 8-11 Feb, 8 Apr & 21 Jun	08-Dec-97 - 21-Jun-98	G/P
<i>Historis odius dious</i>	CHIAPAS: Monumento Natural Yaxchilán. specific dates 8-9 Dec, 9 Feb, 9 Apr & 22 Jun	08-Dec-97 - 22-Jun-98	G/P
<i>Smyrna blomfieldia datis</i>	CHIAPAS: Monumento Natural Yaxchilán. specific dates 9Dec, 7-8 Apr & 21-26 Jun	09-Dec-97 - 26-Jun-98	G/P
<i>Colobura dirce</i>	CHIAPAS: Monumento Natural Yaxchilán. specific dates 8-10 Dec, 8-16 Feb, 4 Apr, 21-22 Jun	08-Dec-97 - 22-Jun-98	G/P
<i>Marpesia chiron marius</i>	CHIAPAS: Monumento Natural Yaxchilán. specific dates 12 Feb, 5 Apr & 21-23 Jun	12-Feb-98 - 23-Jun-98	G/P
<i>Marpesia petreus tethys</i>	CHIAPAS: Monumento Natural Yaxchilán.	21-Jun-98 - 25-Jun-98	G/P
<i>Archaeoprepona demophon centralis</i>	CHIAPAS: Monumento Natural Yaxchilán. specific dates 8-11 Dec, 8-16 Feb, 4-10 Apr & 22-24 Jun	08-Dec-97 - 24-Jun-98	G/P
<i>Archaeoprepona demophon gulina</i>	CHIAPAS: Monumento Natural Yaxchilán. specific dates 8-9 Dec, 11 Feb, 8-9 Apr & 26 Jun	08-Dec-97 - 26-Jun-98	G/P
<i>Archaeoprepona amphimachus amp</i>	CHIAPAS: Monumento Natural Yaxchilán.	04-Apr-98	G/P
<i>Archaeoprepona meander phoebus</i>	CHIAPAS: Monumento Natural Yaxchilán. specific dates 8-12 Dec, 11-12 Feb & 6-9 Apr	08-Dec-97 - 09-Apr-98	G/P
<i>Consul fabius cecrops</i>	CHIAPAS: Monumento Natural Yaxchilán.	15-Feb-98	G/P
<i>Consul electra</i>	CHIAPAS: Monumento Natural Yaxchilán. specific dates 12 Dec, 11-12 Feb, 6 Apr & 23 Jun	12-Dec-97 - 23-Jun-98	G/P
<i>Fountainea eurypyle confusa</i>	CHIAPAS: Monumento Natural Yaxchilán.	09-Feb-98	G/P
<i>Fountainea eurypyle confusa</i>	CHIAPAS: Monumento Natural Yaxchilán.	25-Jun-98	G/P
<i>Doxocopa laure</i>	CHIAPAS: Monumento Natural Yaxchilán.	16-Dec-97	G/P
<i>Morpho achilles octavia</i>	CHIAPAS: Monumento Natural Yaxchilán.	09-Dec-97	G/P
<i>Callicore texa titania</i>	CHIAPAS: Monumento Natural Yaxchilán.	08-Dec-97	G/P
<i>Opsiphanes invirae fabricii</i>	CHIAPAS: Monumento Natural Yaxchilán.	23-Jun-98 - 26-Jun-98	G/P
<i>Caligo prometheus memnon</i>	CHIAPAS: Monumento Natural Yaxchilán.	10-Dec-97	G/P
<i>Caligo prometheus memnon</i>	CHIAPAS: Monumento Natural Yaxchilán.	10-Apr-98	G/P
<i>Pierella luna rubecula</i>	CHIAPAS: Monumento Natural Yaxchilán. specific dates 7-11 Dec, 11 Feb & 8-9 Apr	07-Dec-97 - 09-Apr-98	G/P
<i>Caligo atreus uranus</i>	CHIAPAS: Monumento Natural Yaxchilán. specific dates 8-12 Dec & 7-10 Apr	08-Dec-97 - 10-Apr-98	G/P
<i>Hermeuptychia hermes</i>	CHIAPAS: Monumento Natural Yaxchilán. specific dates 5-16 Dec, 8-16 Feb, 5-8 Apr & 26 Jun	05-Dec-97 - 26-Jun-98	G/P
<i>Magneuptychia libye</i>	CHIAPAS: Monumento Natural Yaxchilán.	08-Dec-97	G/P
<i>Magneuptychia libye</i>	CHIAPAS: Monumento Natural Yaxchilán.	09-Feb-98 - 15-Feb-98	G/P
<i>Pareuptychia ocirrhoe</i>	CHIAPAS: Monumento Natural Yaxchilán.	07-Dec-97 - 15-Feb-98	G/P
<i>Pareuptychia binocula metaleuca</i>	CHIAPAS: Monumento Natural Yaxchilán. specific dates 5-15 Dec, 8-12 Feb & 5-8 Apr	05-Dec-97 - 08-Apr-98	G/P
<i>Vareuptychia pieria</i>	CHIAPAS: Monumento Natural Yaxchilán.	08-Dec-97	G/P
<i>Yphtimoides renata disaffecta</i>	CHIAPAS: Monumento Natural Yaxchilán.	09-Apr-98	G/P
<i>Nessaea aglaura</i>	CHIAPAS: Monumento Natural Yaxchilán.	24-Jun-98	G/P
<i>Oleria paula</i>	CHIAPAS: Monumento Natural Yaxchilán.	05-Dec-97	G/P
<i>Danaus gilippus thersippus</i>	CHIAPAS: Monumento Natural Yaxchilán.	25-Jun-98	G/P
<i>Lycorea halia atergatis</i>	CHIAPAS: Monumento Natural Yaxchilán.	08-Feb-98	G/P
<i>Greta nero</i>	CHIAPAS: Monumento Natural Yaxchilán. specific dates 10-12 Dec & 9-16 Feb	10-Dec-97 - 16-Feb-98	G/P
<i>Mechanitis lysimnia utemaia</i>	CHIAPAS: Monumento Natural Yaxchilán.	08-Dec-97 - 11-Feb-98	G/P

<i>Mechanitis polymnia lycidice</i>	CHIAPAS: Monumento Natural Yaxchilán.	08-Dec-97 - 13-Feb-98	G/P
<i>Greta morgane oto</i>	CHIAPAS: Monumento Natural Yaxchilán.	08-Dec-97	G/P
<i>Megeuptychia antonoe</i>	CHIAPAS: Monumento Natural Yaxchilán.	08-Dec-97	G/P
<i>Taygetis thamyra</i> specific dates 9-12 Dec, 14 Feb, 3-9 Apr & 23 Jun	CHIAPAS: Monumento Natural Yaxchilán.	09-Dec-97 - 23-Jun-98	G/P
<i>Taygetis virgilia</i> specific dates 7-14 Dec, 8-15 Feb & 22-26 Jun	CHIAPAS: Monumento Natural Yaxchilán.	07-Dec-97 - 26-Jun-98	G/P
<i>Taygetis mermeria excavata</i> specific dates 9-14 Dec, 14-16 Feb, 5-9 Apr & 21-26 Jun	CHIAPAS: Monumento Natural Yaxchilán.	09-Dec-97 - 26-Jun-98	G/P

JALISCO

Butterflies

HESPERIIDAE

<i>Epargyreus spinosa</i>	JALISCO: Puerto Vallarta	01-Dec-98	ADW
<i>Urbanus prouta</i>	JALISCO: Zenzontla	01-Dec-98	ADW
<i>Tigasis simplex</i>	JALISCO: Mismaloya	01-Feb-98	ADW
<i>Anthoptus insignis</i>	JALISCO: Mismaloya	01-Feb-98	ADW
<i>Quasimellana myron</i>	JALISCO: Ahuacapan	01-Mar-98	ADW
<i>Amblyscirtes novimmaculatus</i>	JALISCO: Los Mazos	01-Sep-98	ADW

QUINTANA ROO

The ecological reserve "Santuario del Manati" is located in southern Quintana Roo, Mexico, in Chetumal Bay (N 18 degrees 58' - 18 degrees 10' and W 88 degrees 15' - 87 degrees 50'). The southern border of the reserve is the country of Belize. The "Santuario del Manati" has 281,320 hectares; 101,320 are continental and 180,000 are marine habitat. The reserve is located in the geomorphic unit "Planicie costera subcontinental" in the subunit "Costa baja de Quintana Roo" and has depressions and linear faults that create streams, lakes and islands. The type of soil found in the area is chronic lovisol with a zone of eutric geysol at the northeast of the bay and with redzinas and eutric regosol at the southeast of the bay. The annual average temperature is 26 degrees C; the lowest temperatures are in January and the highest are in May. It has two rainy seasons separated by two dry seasons; one dry season is in summer and the longer dry season is in winter. Annual rainfall is about 1250 mm. The vegetation is a mosaic of tropical forest, mangrove and flooded areas. The data in the present work is the result of the first formal collection of Lepidoptera from the reserve, and is the first published list. Carmen Pozo de la Tijera, Noemi Salas Suarez and Santiago Uc Tescum (TST) found 75 species (6 Papilionidae, 13 Pieridae, 41 Nymphalidae, 9 Lycaenidae and 6 Hesperidae) that comprise 685 specimens that were deposited in the Lepidopterological Coleccion (ECO) of "El Colegio de la Frontera Sur" (ECOSUR), Chetumal.

Butterflies

HESPERIIDAE

<i>Proteides mercurius</i>	QUINTANA ROO: 5 km S Ejido Tolloccan	01-Aug-98 - 02-Aug-98	TST
<i>Proteides mercurius</i>	QUINTANA ROO: Rancho Dos Hermanos	28-Aug-98 - 29-Aug-98	TST
<i>Polygonus leo arizonensis</i>	QUINTANA ROO: Siete Mogotes	06-Sep-98	TST
<i>Urbanus esmeraldus</i>	QUINTANA ROO: Rancho Dos Hermanos	29-Aug-98	TST
<i>Urbanus dorantes</i>	QUINTANA ROO: Rancho Dos Hermanos	29-Aug-98	TST
<i>Autochton longipennis</i>	QUINTANA ROO: Rancho Dos Hermanos	29-Aug-98	TST
<i>Pyrgus oileus</i>	QUINTANA ROO: Rancho Dos Hermanos	29-Aug-98	TST

PAPILIONIDAE

<i>Battus polydamas</i>	QUINTANA ROO: Rancho Dos Hermanos	28-Aug-98 - 29-Aug-98	TST
<i>Papilio rogeri</i>	QUINTANA ROO: Rancho Dos Hermanos	28-Aug-98	TST
<i>Papilio thoas autocles</i>	QUINTANA ROO: 5 km S Ejido Tolloccan	01-Aug-98	TST
<i>Papilio thoas autocles</i>	QUINTANA ROO: Rancho Dos Hermanos	28-Aug-98	TST
<i>Papilio thoas autocles</i>	QUINTANA ROO: Cayo Venado	02-Sep-98	TST
<i>Papilio crespontes</i>	QUINTANA ROO: 10 km N de Raudales	29-Jun-98	TST
<i>Papilio crespontes</i>	QUINTANA ROO: 5 km S Ejido Tolloccan	01-Aug-98	TST
<i>Papilio ornythion</i>	QUINTANA ROO: 10 km N de Raudales	29-Jun-98	TST
<i>Protographium philolaus</i>	QUINTANA ROO: 10 km N de Raudales	29-Jun-98 - 01-Jul-98	TST

PIERIDAE

<i>Ascia monuste</i>	QUINTANA ROO: 5 km S Ejido Tolloccan	31-Jul-98 - 02-Aug-98	TST
<i>Ascia monuste</i>	QUINTANA ROO: Rancho Dos Hermanos	29-Aug-98	TST
<i>Ganyra josephina josepha</i>	QUINTANA ROO: Rancho Dos Hermanos	28-Aug-98 - 29-Aug-98	TST
<i>Ganyra josephina josepha</i>	QUINTANA ROO: Cayo Venado	02-Sep-98	TST
<i>Anteos clorinde nivifera</i>	QUINTANA ROO: 5 km S Ejido Tolloccan	01-Aug-98 - 02-Aug-98	TST
<i>Anteos maerula lacordairei</i>	QUINTANA ROO: 10 km N de Raudales	29-Jun-98 - 01-Jul-98	TST
<i>Anteos maerula lacordairei</i>	QUINTANA ROO: 5 km S Ejido Tolloccan	01-Aug-98 - 02-Aug-98	TST
<i>Anteos maerula lacordairei</i>	QUINTANA ROO: Cayo Venado	02-Sep-98	TST
<i>Phoebis sennae marcellina</i>	QUINTANA ROO: Rancho Dos Hermanos	28-Aug-98 - 29-Aug-98	TST
<i>Phoebis argante</i>	QUINTANA ROO: 5 km S Ejido Tolloccan	01-Aug-98 - 02-Aug-98	TST
<i>Phoebis agarithe</i>	QUINTANA ROO: 10 km N de Raudales	29-Jun-98 - 02-Jul-98	TST
<i>Phoebis agarithe</i>	QUINTANA ROO: 5 km S Ejido Tolloccan	01-Aug-98 - 02-Aug-98	TST
<i>Phoebis agarithe</i>	QUINTANA ROO: Rancho Dos Hermanos	28-Aug-98 - 29-Aug-98	TST
<i>Phoebis agarithe</i>	QUINTANA ROO: Siete Mogotes	05-Sep-98 - 06-Sep-98	TST

Phoebis statira jada	QUINTANA ROO: 5 km S Ejido Tollocan	01-Aug-98	TST
Phoebis statira jada	QUINTANA ROO: Siete Mogotes	05-Sep-98	TST
Eurema proterpia	QUINTANA ROO: 5 km S Ejido Tollocan	02-Aug-98	TST
Eurema nise nelphe	QUINTANA ROO: 10 km N de Raudales	29-Jun-98	TST
Eurema nise nelphe	QUINTANA ROO: 5 km S Ejido Tollocan	31-Jul-98	TST
Eurema dina westwoodi	QUINTANA ROO: 5 km S Ejido Tollocan	01-Aug-98	TST
Eurema dina westwoodi	QUINTANA ROO: Rancho Dos Hermanos	28-Aug-98	TST
Eurema dina westwoodi	QUINTANA ROO: Cayo Venado	02-Sep-98	TST
Eurema dina westwoodi	QUINTANA ROO: Siete Mogotes	05-Sep-98	TST
Eurema daira	QUINTANA ROO: 10 km N de Raudales	29-Jun-98 - 01-Jul-98	TST
Glutophrissa drusilla tenuis	QUINTANA ROO: 5 km S Ejido Tollocan	01-Aug-98 - 02-Aug-98	TST
Glutophrissa drusilla tenuis	QUINTANA ROO: Rancho Dos Hermanos	29-Aug-98	TST
Glutophrissa drusilla tenuis	QUINTANA ROO: Cayo Venado	02-Sep-98	TST
LYCAENIDAE			
Melanis pixe	QUINTANA ROO: Rancho Dos Hermanos	28-Aug-98 - 29-Aug-98	TST
Melanis pixe	QUINTANA ROO: Cayo Venado	02-Sep-98	TST
Eumaeus toxea	QUINTANA ROO: 5 km S Ejido Tollocan	01-Aug-98 - 02-Aug-98	TST
Eumaeus toxea	QUINTANA ROO: Rancho Dos Hermanos	28-Aug-98 - 29-Aug-98	TST
Calephelis yauztepequensis	QUINTANA ROO: Rancho Dos Hermanos	29-Aug-98	TST
Arawacus sito	QUINTANA ROO: Rancho Dos Hermanos	28-Aug-98 - 29-Aug-98	TST
Emesis aurimna	QUINTANA ROO: Rancho Dos Hermanos	28-Aug-98	TST
Leptotes cassius striata	QUINTANA ROO: Rancho Dos Hermanos	28-Aug-98 - 29-Aug-98	TST
Evenus regalis	QUINTANA ROO: Rancho Dos Hermanos	29-Aug-98	TST
Evenus regalis	QUINTANA ROO: Cayo Venado	02-Sep-98	TST
Pseudolycaena damo	QUINTANA ROO: Rancho Dos Hermanos	29-Aug-98	TST
Juditha molpe	QUINTANA ROO: 10 km N de Raudales	29-Jun-98	TST
Juditha molpe	QUINTANA ROO: 5 km S Ejido Tollocan	31-Jul-98	TST
Juditha molpe	QUINTANA ROO: Rancho Dos Hermanos	28-Aug-98	TST
Juditha molpe	QUINTANA ROO: Cayo Venado	02-Sep-98	TST
Juditha molpe	QUINTANA ROO: Siete Mogotes	05-Sep-98	TST
NYMPHALIDAE			
Agraulis vanillae incarnata	QUINTANA ROO: 10 km N de Raudales	29-Jun-98 - 01-Jul-98	TST
Agraulis vanillae incarnata	QUINTANA ROO: 5 km S Ejido Tollocan	31-Jul-98 - 02-Aug-98	TST
Agraulis vanillae incarnata	QUINTANA ROO: Rancho Dos Hermanos	29-Aug-98	TST
Dryas iulia moderata	QUINTANA ROO: 10 km N de Raudales	30-Jun-98 - 01-Jul-98	TST
Dryas iulia moderata	QUINTANA ROO: Cayo Venado	02-Sep-98	TST
Heliconius charitonius vazquezae	QUINTANA ROO: 10 km N de Raudales	29-Jun-98	TST
Heliconius charitonius vazquezae	QUINTANA ROO: 5 km S Ejido Tollocan	01-Aug-98	TST
Heliconius charitonius vazquezae	QUINTANA ROO: Rancho Dos Hermanos	28-Aug-98	TST
Heliconius erato petiveranus	QUINTANA ROO: 5 km S Ejido Tollocan	01-Aug-98 - 02-Aug-98	TST
Heliconius erato petiveranus	QUINTANA ROO: Rancho Dos Hermanos	28-Aug-98 - 29-Aug-98	TST
Prepona laertes octavia	QUINTANA ROO: Cayo Venado	02-Sep-98	TST
Junonia genoveva	QUINTANA ROO: 10 km N de Raudales	30-Jun-98	TST
Junonia evarete zonalis	QUINTANA ROO: 5 km S Ejido Tollocan	01-Aug-98 - 02-Aug-98	TST
Anartia jatrophae luteipicta	QUINTANA ROO: 10 km N de Raudales	29-Jun-98 - 02-Jul-98	TST
Anartia jatrophae luteipicta	QUINTANA ROO: Rancho Dos Hermanos	28-Aug-98 - 29-Aug-98	TST
Siproeta stelenes biplagiata	QUINTANA ROO: Rancho Dos Hermanos	29-Aug-98	TST
Euptoieta hegesia hoffmanni	QUINTANA ROO: 10 km N de Raudales	29-Jun-98 - 01-Jul-98	TST
Euptoieta hegesia hoffmanni	QUINTANA ROO: 5 km S Ejido Tollocan	31-Jul-98 - 02-Aug-98	TST
Coea acheronta	QUINTANA ROO: 5 km S Ejido Tollocan	01-Aug-98 - 02-Aug-98	TST
Phyciodes tulcis	QUINTANA ROO: Rancho Dos Hermanos	28-Aug-98	TST
Cissia confusa	QUINTANA ROO: 5 km S Ejido Tollocan	31-Jul-98	TST
Cissia pseudoconfusa	QUINTANA ROO: Rancho Dos Hermanos	28-Aug-98	TST
Cissia pseudoconfusa	QUINTANA ROO: Siete Mogotes	05-Sep-98	TST
Thessalia theona	QUINTANA ROO: Rancho Dos Hermanos	29-Aug-98	TST
Adelpha serpa massilia	QUINTANA ROO: 10 km N de Raudales	29-Jun-98	TST
Adelpha serpa massilia	QUINTANA ROO: 5 km S Ejido Tollocan	01-Aug-98	TST
Adelpha serpa massilia	QUINTANA ROO: Rancho Dos Hermanos	28-Aug-98	TST
Adelpha serpa massilia	QUINTANA ROO: Siete Mogotes	05-Sep-98	TST
Myscelia ethusa	QUINTANA ROO: 5 km S Ejido Tollocan	01-Aug-98 - 02-Aug-98	TST
Myscelia cyaniris	QUINTANA ROO: Rancho Dos Hermanos	28-Aug-98 - 29-Aug-98	TST
Cepheptychia glaucina	QUINTANA ROO: Rancho Dos Hermanos	28-Aug-98	TST
Cepheptychia glaucina	QUINTANA ROO: Cayo Venado	02-Sep-98	TST
Eunica tatila	QUINTANA ROO: 10 km N de Raudales	29-Jun-98 - 01-Jul-98	TST
Eunica tatila	QUINTANA ROO: 5 km S Ejido Tollocan	31-Jul-98 - 02-Aug-98	TST
Eunica tatila	QUINTANA ROO: Cayo Venado	02-Sep-98	TST
Eunica tatila	QUINTANA ROO: Siete Mogotes	05-Sep-98 - 06-Sep-98	TST

Eunica alcmena	QUINTANA ROO: 5 km S Ejido Tollocan	01-Aug-98	TST
Pyrrhogyra otolais	QUINTANA ROO: 10 km N de Raudales	29-Jun-98	TST
Pyrrhogyra otolais	QUINTANA ROO: Rancho Dos Hermanos	28-Aug-98	TST
Pyrrhogyra otolais	QUINTANA ROO: Cayo Venado	02-Sep-98	TST
Pyrrhogyra otolais	QUINTANA ROO: Siete Mogotes	05-Sep-98	TST
Mestra amymone	QUINTANA ROO: 10 km N de Raudales	29-Jun-98	TST
Mestra amymone	QUINTANA ROO: 5 km S Ejido Tollocan	02-Aug-98	TST
Mestra amymone	QUINTANA ROO: Rancho Dos Hermanos	28-Aug-98	TST
Mestra amymone	QUINTANA ROO: Cayo Venado	02-Sep-98	TST
Biblis hyperia aganisa	QUINTANA ROO: Rancho Dos Hermanos	28-Aug-98 - 29-Aug-98	TST
Hamadryas februa ferentina	QUINTANA ROO: 5 km S Ejido Tollocan	31-Jul-98 - 02-Aug-98	TST
Hamadryas februa ferentina	QUINTANA ROO: Rancho Dos Hermanos	28-Aug-98 - 29-Aug-98	TST
Hamadryas februa ferentina	QUINTANA ROO: Cayo Venado	02-Sep-98	TST
Hamadryas februa ferentina	QUINTANA ROO: Siete Mogotes	05-Sep-98 - 06-Sep-98	TST
Hamadryas guatemalena	QUINTANA ROO: Rancho Dos Hermanos	29-Aug-98	TST
Hamadryas guatemalena	QUINTANA ROO: Siete Mogotes	05-Sep-98 - 06-Sep-98	TST
Historis odius	QUINTANA ROO: 5 km S Ejido Tollocan	01-Aug-98 - 02-Aug-98	TST
Historis odius	QUINTANA ROO: Cayo Venado	02-Sep-98	TST
Historis odius	QUINTANA ROO: Siete Mogotes	05-Sep-98 - 06-Sep-98	TST
Marpesia chiron marius	QUINTANA ROO: 5 km S Ejido Tollocan	01-Aug-98 - 02-Aug-98	TST
Marpesia chiron marius	QUINTANA ROO: Cayo Venado	02-Sep-98	TST
Marpesia petreus tethys	QUINTANA ROO: 10 km N de Raudales	29-Jun-98 - 01-Jul-98	TST
Marpesia petreus tethys	QUINTANA ROO: 5 km S Ejido Tollocan	01-Aug-98 - 02-Aug-98	TST
Marpesia petreus tethys	QUINTANA ROO: Rancho Dos Hermanos	28-Aug-98 - 29-Aug-98	TST
Marpesia petreus tethys	QUINTANA ROO: Siete Mogotes	05-Sep-98 - 06-Sep-98	TST
Archaeoprepona demophon centralis	QUINTANA ROO: 10 km N de Raudales	01-Jul-98	TST
Archaeoprepona demophon centralis	QUINTANA ROO: 5 km S Ejido Tollocan	31-Jul-98 - 02-Aug-98	TST
Archaeoprepona demophon centralis	QUINTANA ROO: Cayo Venado	02-Sep-98	TST
Archaeoprepona demophoon gulina	QUINTANA ROO: 5 km S Ejido Tollocan	02-Aug-98	TST
Archaeoprepona demophoon gulina	QUINTANA ROO: Cayo Venado	02-Sep-98	TST
Archaeoprepona demophoon gulina	QUINTANA ROO: Siete Mogotes	05-Sep-98 - 06-Sep-98	TST
Anaea troglodyta aidea	QUINTANA ROO: 5 km S Ejido Tollocan	31-Jul-98 - 02-Aug-98	TST
Fountainea eurypyle confusa	QUINTANA ROO: 5 km S Ejido Tollocan	01-Aug-98	TST
Memphis pithyusa	QUINTANA ROO: 5 km S Ejido Tollocan	31-Jul-98 - 02-Aug-98	TST
Memphis forreri	QUINTANA ROO: 5 km S Ejido Tollocan	01-Aug-98	TST
Morpho achilles hyacintus	QUINTANA ROO: 10 km N de Raudales	29-Jun-98	TST
Morpho achilles hyacintus	QUINTANA ROO: 5 km S Ejido Tollocan	01-Aug-98	TST
Morpho achilles hyacintus	QUINTANA ROO: Rancho Dos Hermanos	28-Aug-98	TST
Morpho achilles hyacintus	QUINTANA ROO: Cayo Venado	02-Sep-98	TST
Morpho achilles hyacintus	QUINTANA ROO: Siete Mogotes	05-Sep-98	TST
Opsiphanes invirae fabricii	QUINTANA ROO: 5 km S Ejido Tollocan	01-Aug-98 - 02-Aug-98	TST
Opsiphanes invirae fabricii	QUINTANA ROO: Rancho Dos Hermanos	28-Aug-98 - 29-Aug-98	TST
Opsiphanes invirae fabricii	QUINTANA ROO: Cayo Venado	02-Sep-98	TST
Opsiphanes invirae fabricii	QUINTANA ROO: Siete Mogotes	04-Sep-98 - 06-Sep-98	TST
Siderone syntiche	QUINTANA ROO: 5 km S Ejido Tollocan	01-Aug-98	TST
Siderone syntiche	QUINTANA ROO: Rancho Dos Hermanos	29-Aug-98	TST
Hermeuptychia hermes	QUINTANA ROO: 5 km S Ejido Tollocan	02-Aug-98	TST
Magneuptychia libye	QUINTANA ROO: Rancho Dos Hermanos	29-Aug-98	TST
Danaus gilippus thersippus	QUINTANA ROO: 5 km S Ejido Tollocan	01-Aug-98 - 02-Aug-98	TST
Danaus gilippus thersippus	QUINTANA ROO: Rancho Dos Hermanos	29-Aug-98	TST

Abbreviation

bl =black (ultraviolet) light

cpgd =campground

FR =fire road

leg =collected by

mtn(s) =mountain(s)

NM =National Monument

NWR =National Wildlife Refuge

SF =State Forest

SP =State Park

SWA =State Wildlife Area

WA =Wildlife Area

Co =County

CR =County Road

jct =junction of roadways

mi =miles

NF =National Forest

NP =National Park

PF =Provincial Forest

SGA =State Game Area

SR =State Road

Twp =Township

WMA =Wildlife Management Area

CP =County Park

FGA =Fish & Game Area

km =kilometers

mm =mile marker

NG =National Grassland

nr =near

PP =Provincial Park

SHP =State Historical Park

SRA =State Recreation Area

vic =vicinity

WPA =Waterfowl Production Area

Season Summary Zone Coordinators

Chief Season Summary Coordinator and Editor

Jim Tuttle

4285 N. Homestead Avenue, Tucson, Arizona 85749
(520) 749-6358 (home), jtuttle@fiaaz.net

Zone 1, The Far North:

Alaska, Yukon Territory,
Northwest Territories

Dr. Kenelm W. Philip
Institute of Arctic Biology
University of Alaska
P.O. Box 75700
Fairbanks, AK 99775-7000
(907) 479-2689

FNKWP@AURORA.ALASKA.EDU

Zone 2, The Pacific Northwest:

Idaho, Oregon, Washington, British Columbia

Jon H. Shepard
R.R. #2, S.22, C.44
Nelson, BC, Canada
V1L 5P5
(250) 352-3028

Zone 3, The Southwest:

Arizona, California, Nevada

Robert L. Langston
31 Windsor Avenue
Kensington, CA 94708-1040
(510) 524-3001

Zone 4, The Rocky Mountains:

Montana, Wyoming, Utah,
Colorado, New Mexico, Alberta

Dr. Ray E. Stanford
720 Fairfax Street
Denver, CO 80220-5151
(303) 377-1332

Zone 5, The Great Plains:

North Dakota, South Dakota, Nebraska, Kansas, Saskatchewan, Manitoba

Dr. Ronald Alan Royer
Division of Science, Minot State University, Minot, ND 58707
Office (701) 858-3209
FAX (701) 839-6933
ROYER@WARP6.CS.MISU.NODAK.EDU

Zone 6, South-Central:

Oklahoma, Arkansas, Louisiana, Texas

Charles Bordelon, Jr.,
8440 Washington Boulevard
Beaumont, TX 77707
(409) 866-8163

Zone 7, Ontario And Quebec

Alan J. Hanks
34 Seaton Drive, Aurora,
Ontario, Canada L4G 2K1
(905) 727-6993
A.HANKS@ACI.ON.CA

Zone 8, The Midwest:

Missouri, Kentucky, West Virginia, Ohio, Indiana, Illinois, Iowa, Minnesota, Wisconsin, Michigan

Leslie A. Ferge
7119 Hubbard Avenue
Middleton, Wisconsin
53562-3231
(608) 836-9438
LESFERGE@JUNO.COM

Zone 9, The Southeast:

Mississippi, Alabama, Georgia, Florida, South Carolina, North Carolina, Tennessee, Virginia

Brian G. Scholtens
Biology Department
College of Charleston
Charleston SC 29424
(803) 856-0186
SCHOLTENSB@COFC.EDU

Zone 10, The Northeast:

Maryland, New York, Pennsylvania, the New England states and the Maritime provinces

Mark J. Mello
P.O. Box 87037
South Dartmouth MA 02748
(508) 990-0505

Zone 11, Hawaii & the Pacific Islands:

Vacant

Zone 12, Mexico & the Caribbean:

Isabel Vargas Fernandez
Museo de Zoologia
Facultad de Ciencias
Univ. Nacional Autonoma,
Mexico, Apartado Postal 70-399
Mexico 04510 D.F.
IVF@HP.FCIENCIAS.UNAM.MX

Continuing Range Expansion in *Erynnis baptisiae*

Barry Harrison

61 Chestermere Blvd., Scarborough, Ontario, M1J 2X8, Canada

The Ontario distribution of the Wild Indigo Dusky Wing [*Erynnis baptisiae* (Forbes)] is primarily in Essex, Kent and Haldimand-Norfolk counties in southwestern Ontario (The Ontario Butterfly Atlas, 1991, Holmes, A.M., Hess, Q.F., Tasker, R.R. and Hanks, A.J.; Toronto Entomologists' Association; 167 pp.) although it has also been recorded in Lambton county, Point Pelee

National Park, and from Beverly Swamp in the Hamilton area near Toronto. It would appear that this species is either established in Ontario or has taken on the status of a regular immigrant.

On September 17th, 1998, I found this skipper in Toronto but could not at that time identify it. At least four individuals were subsequently seen by Jim

Fairchild, Leon Schlichter, Mike King (who took many photographs), Bob Yukich and Tim Sabo. It should be noted that Bob Yukich and myself saw, on separate occasions, what appeared to be males patrolling territory on open paths, low amongst the vegetation. Also, an aerial "dance" by two individuals was observed. These butterflies were

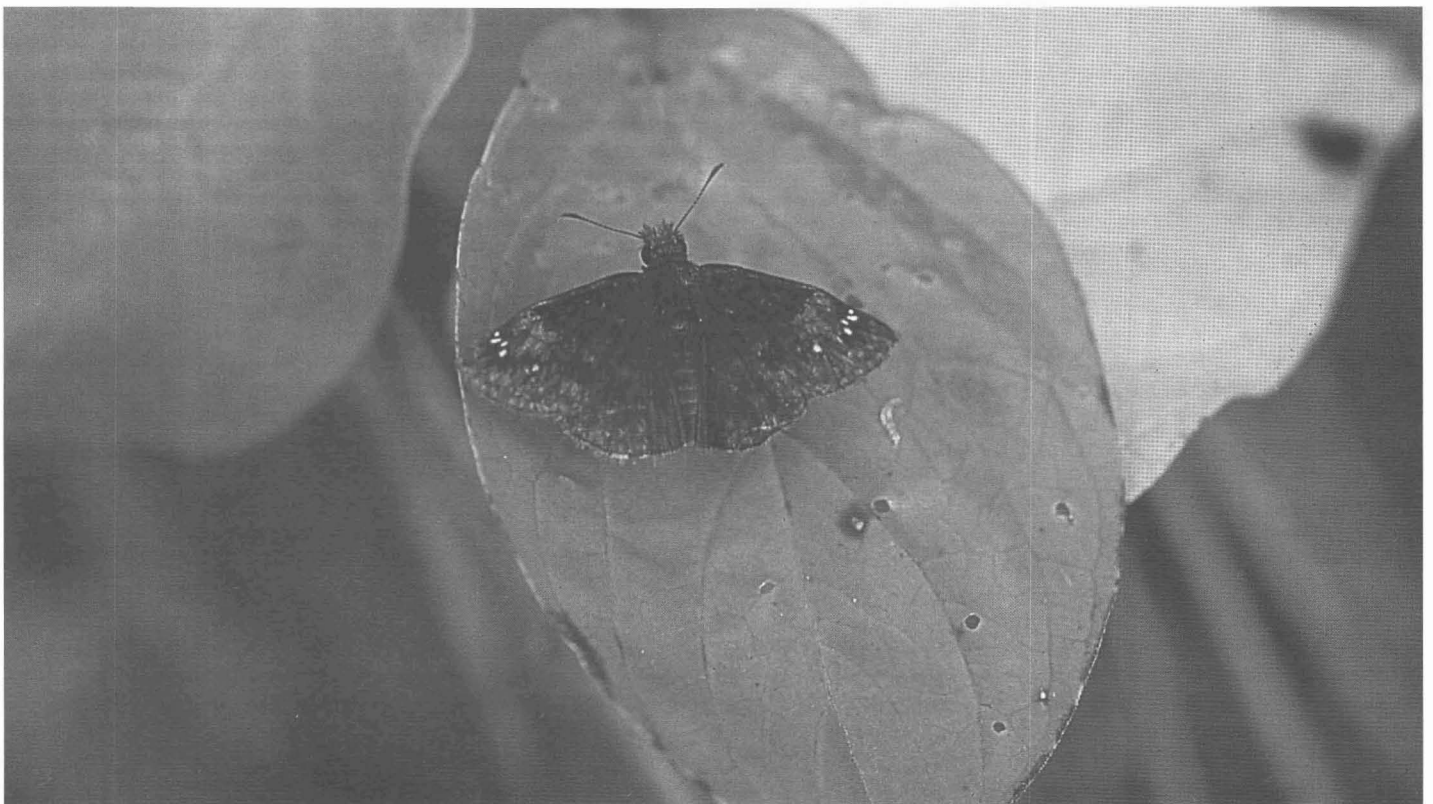
continued on back cover...

The Lepidopterists' Society

c/o Allen Press
P.O. Box 368
Lawrence KS, 66044



Nonprofit Organization U.S. Postage PAID Permit No. 116 Lawrence, Kansas



A second specimen of *Erynnis baptisiae*, the Wild Indigo Duskywing, photographed on September 27, 1998 in Scarborough, Ontario, near Toronto, by Michael King. See the story by Barry Harrison on the inside back cover.

...continued from inside back cover

later identified as the Wild Indigo Dusky Wing (*Erynnis baptisiae*) by Tim Sabo. Four specimens were last seen on September 30th.

It is possible that a fertilized female from the 2nd brood migrated to the site but an acceptable foodplant must have

been found to produce the adults seen. None of the foodplants recorded in Opler & Malikul (Opler, P.A. and V. Malikul. 1992. A Field Guide to Eastern Butterflies. Houghton Mifflin Co., 396 pp.) or Howe (Howe, W.H.; 1975; The Butterflies of North America; Doubleday & Co., Garden City, New York; 633 pp.) was present, but Cow-

vetch (*Vicia cracca*) was found. This Wild Indigo Dusky Wing 'colony' was a significant range extension and it remains to be seen if any specimens will turn up in 1999. Where the original specimen appeared from, or under what conditions, one can only speculate...

Extract reprinted, from Toronto Entomologists' Association Occasional Publication 31-99 (in press), by permission.
