

Massachusetts Butterflies



Spring 2004, No. 22

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Massachusetts Butterflies is the semiannual publication of the Massachusetts Butterfly Club, a chapter of the North American Butterfly Association. Membership in NABA-MBC brings you *American Butterflies*, *Massachusetts Butterflies*, *Butterfly Gardener*, and all of the benefits of the association and club, including field trips and meetings. Regular dues are \$30 for an individual, \$40 for a family, and \$60 outside the United States. Send a check made out to NABA to: NABA, 4 Delaware Road, Morristown, NJ 07960.

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Cover photo: Hickory Hairstreak, by Marj Rines,
Belmont, MA, 7-28-03

Identifying the Hickory Hairstreak

By Mike Nelson

Few would argue that the biggest challenge of identifying Massachusetts hairstreaks is distinguishing the Hickory Hairstreak (*Satyrium caryaevorum*) from the Banded Hairstreak (*Satyrium calanus*). Individual Banded Hairstreaks have considerable variation in wing pattern, and any single wing pattern character is usually insufficient to distinguish the Hickory from the Banded. Nevertheless, Hickory Hairstreaks tend to have most of the wing pattern characters described in the left column of the following table, while Banded Hairstreaks tend to have most of the contrasting characters described in the right column of the table (characters in the table are numbered and keyed to the photos in the accompanying figure). Remember, a combination of several of the characters in the left column is necessary for reasonable certainty in identifying the Hickory Hairstreak.

Hickory Hairstreak	Banded Hairstreak
On forewing, anterior part of postmedian spot-band (1) wide, often wider than posterior part of postmedian spot-band (2)	On forewing, anterior part of postmedian spot-band (1) narrow, usually same width as posterior part of postmedian spot-band (2)
On hindwing, most anterior spot in postmedian band (3) wide, usually aligned with discocellular spot (4)	On hindwing, most anterior spot in postmedian band (3) narrow, usually offset distally from discocellular spot (4)
On hindwing, three spots in middle of postmedian band (5) wide and often aligned with each other	On hindwing, three spots in middle of postmedian band (5) narrow and usually offset

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<p>On hindwing, orange-and-black spot (6) noticeably smaller than adjacent blue patch (7), often in part due to smaller size of orange “cap” on black spot</p>	<p>On hindwing, orange-and-black spot (6) nearly as large as adjacent blue patch (7), often in part due to larger size of orange “cap” on black spot</p>
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There are other wing characters that can be used to separate Hickory Hairstreaks from Banded Hairstreaks, but these are not useful for photo or field identification. For example, the male stigma (a dark, oval patch of pheromone-producing scales on the upper side of the forewing) is narrower and more tapered distally in the Hickory as compared to the Banded. Also, the Hickory Hairstreak usually has a paler, more tan ground color on the ventral surface of the wings, but one should not use subtle variations in color shade to identify butterflies in photographs because photo colors may be inaccurate.

Some wing pattern characters that have been suggested for distinguishing the Hickory Hairstreak from the Banded Hairstreak tend to be unreliable. For example, the inner edge of the postmedian spot-band is conspicuously lined with white in the Hickory; sometimes this is not the case in the Banded, but very often Banded Hairstreaks will have just as much white on the inner edge as Hickories. Also problematic is the anterior part of the forewing spot-band (#1 in the figure) being offset distally from the posterior part (#2); many Banded Hairstreaks, including the one figured here, have this putative Hickory trait. Conversely, the Hickory Hairstreak photographed by Marj Rines in Belmont in 2003 had the forewing spot-band less offset than most Hickories (see photo on cover).

In his 1960 article "Notes on *Strymon caryaevorus* (Lepidoptera, Lycaenidae)" in the Journal of the New York Entomological Society, A.B. Klots stated that "[Wing pattern] characters should serve for the distinction of 80 to 90 percent of all specimens of both species; but all about which there is least doubt should be checked by the genitalia, which offer completely reliable diagnostic characters." Therefore while absolute certainty in the

correct identification of a Hickory Hairstreak requires collection and dissection of a specimen, one can usually identify a good photograph. Sight records are problematic, requiring both practice and a good, long look to convince even one's self that a Hickory has been seen. To convince others, obtaining a good photograph is a much better option.

Michael Nelson is an Invertebrate Zoologist with the Massachusetts Natural Heritage and Endangered Species Program. This article is the result of a lengthy discussion on the identification of Hickory Hairstreaks which took place on the MassLep listserv between July 13 and August 6, 2003. Readers are referred to this discussion, in which several MBC members sent photographs and a specimen to Mike for identification. The Belmont photo by Marj Rines referred to above is reproduced on the cover of this issue. Additional photos by Marj can be seen at <http://mrines.com/Butterflies> .



Cloudless Sulphur Zach Moseley

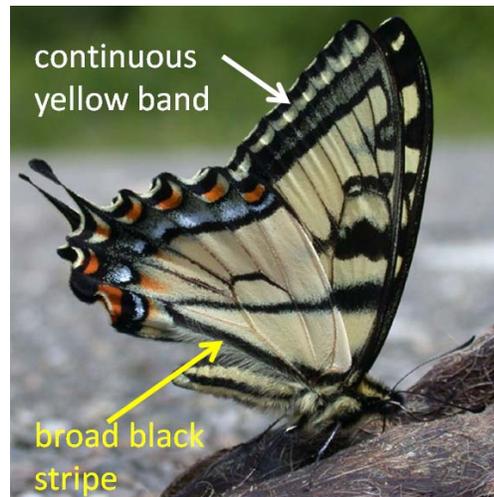
Northern New Hampshire Butterfly Notes

by Erik Nielsen

Pittsburg, the northernmost town in NH is a great place for finding many of the butterfly species of the White Mountain region. The town has the largest land area (at least by some accounts) of any town east of the Mississippi. A large part of the town is protected from development in a recent deal between the timber companies and the state. The timber companies keep up an extensive network of dirt roads. Most of these roads are open to the public and can be like magnets for butterflies.

Canadian Tiger Swallowtail

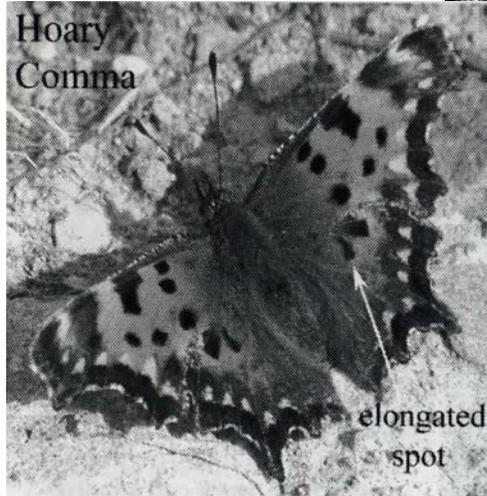
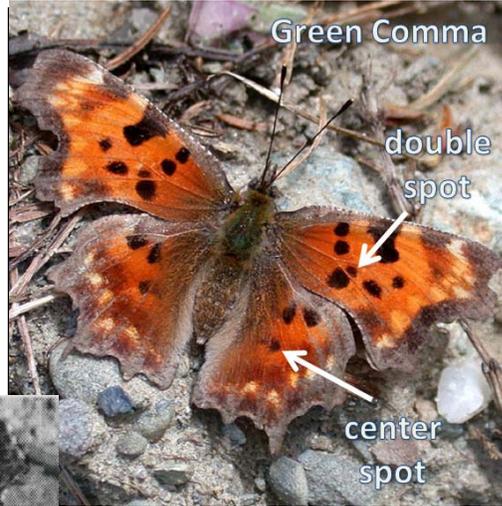
This species can be abundant in early summer, when it sometimes can be seen mud puddling by the hundreds. It is smaller than Eastern Tiger Swallowtail, but has almost identical markings. It can be separated from that species by the broader black stripe along the trailing margin of the hind wing and the continuous, yellow, front wing marginal band.



Commas

Three species of Commas are relatively common in the area: Green, Gray, and Hoary (the least common). Eastern Commas are most often found in the southern (lowest elevation) part of the town, but even there, most suspected Eastern Commas turn out to be “just another Green”. Satyr Commas are probably in the area as

well, but have so far eluded me. Late July to mid August is the best time to find good numbers of fresh, well-marked Commas. Green and Hoary Commas are single brooded, usually flying from mid to late July to October, and also May to late June.



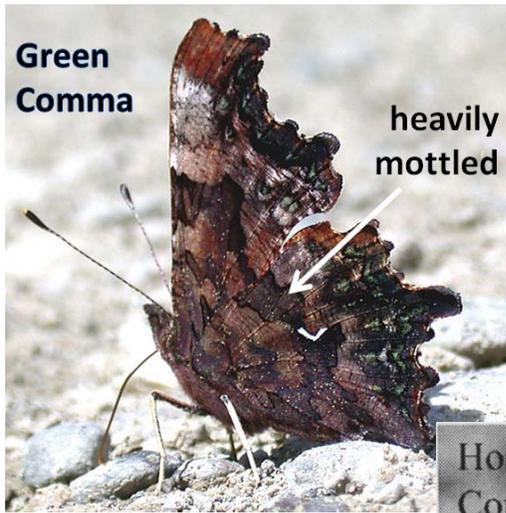
The Green Comma photo on the right was taken on 6/14. This butterfly was around 11 months old. Even at that age, the upper side, showed the forewing double spot and the

hindwing center spot.

Hoary Commas lack both of these marks. They do, however, seem to consistently have an elongated spot on the hindwing, where the other Commas usually have a more round spot.

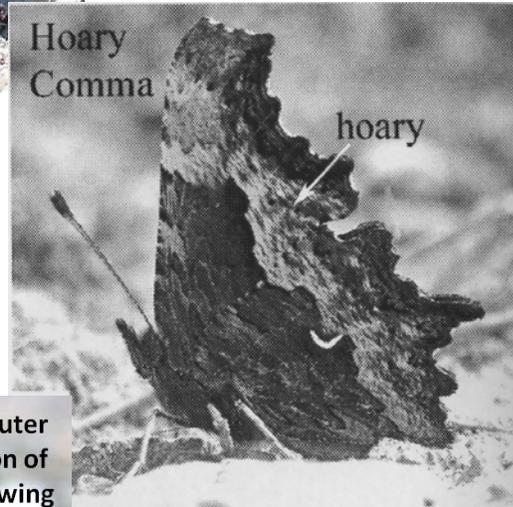
Gray Commas have two broods, one from late July to May or June, and a “dark” form in June and



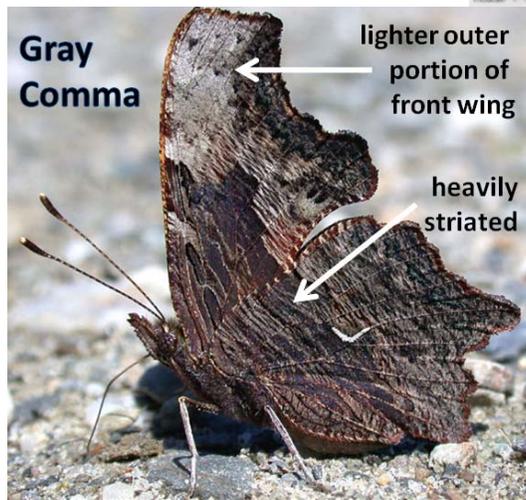


July. The spots on upper side of this species are smaller than on Green and Hoary Commas. There is no center spot on the hindwing as in the Green and Eastern Commas, and there is a single spot on the lower forewing.

Green Commas are quite variable underneath. Most are heavily mottled, have green submarginal bands, and a thick comma; but a certain percentage are plain brown with an indistinct, thin comma.

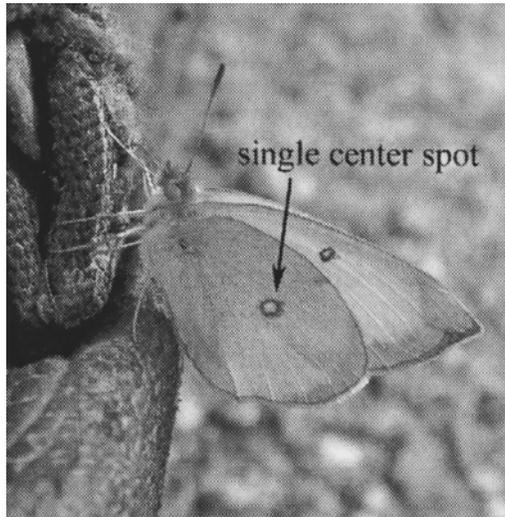


If seen only from below, they can be difficult to identify in June and early July, when most of their field marks have faded.



Below, Hoary Commas are distinctly two-toned with the inner portion of the wings being a relatively

uniform, dark brown, and the outer portion hoary. I have seen only a few Hoary Commas in June; but each one was still quite well marked underneath.

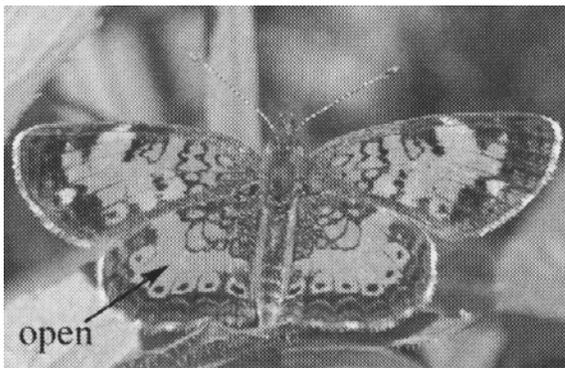


The undersides of the Gray Comma's wings are heavily marked with white striations. The forewing is two-toned with a dark gray-brown base and light gray outer portion. The comma is very thin and indistinct, usually tapering at both ends.

Pink-edged Sulphur

This species is single brooded and is uncommon from June to mid August. It

is very similar to the more abundant Clouded Sulphur, which also can have quite noticeable pink wing edgings. The Pink-edged Sulphur can be identified by the hindwing having a single silver



center spot and no black postmedian spots.

Northern Crescent has one brood. It flies from mid June to the end of July. It is slightly larger than a Pearl Crescent. On males the hindwings have

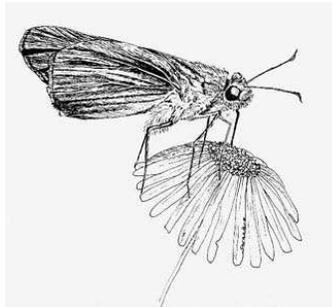
more open areas than on Pearl Crescents; but that and other known field marks are probably of little use as both species are quite variable.



Common Branded Skipper

This is the last skipper to appear and often the only one around, when it flies from late July to the end of August. It can be quite common along

roadsides in the area. On the hindwing below it has a bold, white postmedian spot band and a large “L” shaped spot near the center.



Ocola Skipper Sarah Jane Cassie

2003 Butterfly Year in Review

by Brian Cassie

What sort of year was 2003 for butterflies in Massachusetts? It was actually a very good year, with many opportunities across the state to observe seldom seen species. There were good flights of a number of resident butterflies and quite a lot of interesting migratory action in late summer and fall. Below are some notable highlights from 2003, followed by a family-by-family summary.

Top Five Butterfly Events of the Year

1. Historic Flight of Ocola Skippers - Until 2003, there were only ten known sightings of the Ocola Skipper in Massachusetts, all but one in the last decade and all between September 9 and October 5. This year, 25 Ocola Skippers were noted in the Bay State, the first on August 27 and the last on October 11. On three occasions, two Ocola Skippers were found at the same spot on the same day. The butterfly sightings ranged from the Connecticut Valley east to the edge of the Atlantic and south to Buzzard's Bay. It was a monumental flight.

2. Fabulous Windfall in the Connecticut Valley - Butterfly watchers in the middle Connecticut Valley, especially Tom Gagnon and his cadre, diligently watched for southern strays in late summer and early fall of 2003 and were rewarded with a butterfly bonanza. Taking pride of place was a Brazilian Skipper, close on the heels of a Giant Swallowtail. The former is almost unique for Massachusetts (one or possibly a few were reported in 1937), while the latter is a very rare stray here. In addition to these ultra-rarities, the Valley butterfly watchers found a Pipevine Swallowtail, a Little Yellow, White M Hairstreaks, a Sachem, several Common Checkered-Skippers, two Long-tailed Skippers, and many Ocola Skippers - all excellent finds!

3. Best Year for Milbert's Tortoiseshells - Every once in a while we witness a large flight of Milbert's Tortoiseshells in Massachusetts. The last notable flight was in 1999, when 103 butterflies were reported from 31 towns. In 2003, the flight was even better, with Milbert's Tortoiseshells recorded in 40 towns, from Williamstown to Plymouth. Just where the first tortoiseshells of the year came from may be an unanswerable question. Not a single Milbert's Tortoiseshell was seen in Massachusetts in 2002 so one could assume that those observed in mid-April 2003 in Worcester, Bolton, Concord, Hingham, Sudbury, and Lincoln were not local overwinterers emerging from hibernation. Were they migrants from out-of-state? No Milbert's were seen to the south. The weather in northern New England was still awfully cold for any butterflies to be flying in from that direction, but it is possible that some of those emerging in the north were able to fly south. Or could they have flown in from New York State? One thing is for certain; once they got here they stayed for the whole season.

4. Bronze Coppers in Sudbury River Valley and Elsewhere - The Bronze Copper is a rare and elusive creature in the Northeast. In Massachusetts, it is typically found in extremely small numbers in the Sudbury River Valley and very irregularly anywhere else. In 2003, Bronze Coppers were recorded in multiple locations in Berkshire and Essex Counties and in their Wayland-Concord-Sudbury stronghold they were found in several spots, with as many as 12 at one locale on a given date. Many butterfly watchers added this species to their life list in 2003.

5. Harvesters in Medford (and elsewhere) - The Harvester is perhaps the most overlooked butterfly in the state. Even in years when there are lots of Woolly Aphids infesting alders, not many Harvesters are reported. This year quite a few Harvesters were reported in various locales. Thanks especially to Rene LaFontaine

and Marj Rines for doing a lovely job documenting a colony of Harvesters in Medford. An outstanding count of 18 adult Harvesters was made there on August 28.

Making Sense of High Counts and Early and Late Flight Dates

Records statisticians always hope for great bundles of records to sort through and organize into something meaningful. In truth, “Massachusetts Butterflies” is not actually overwhelmed by reports year in and year out. It seems that many butterfly watchers still keep most of their sightings to themselves. However, there are annually well over a thousand records to digest and they provide good fodder for discussion and dissection.

As I have written in the past, it is the job of record editors to edit, to look through the submissions and find suitable entries to publish. Early and late dates and yearly and historic high counts are always worth printing. The high counts are usually very straightforward. The extreme flight dates can be troublesome.

Meteorologists have a saying : climate is what you expect, weather is what you get. When the weather is particularly good or bad for an extended period in spring, summer, or fall, it can greatly affect emergence times for butterfly broods. We definitely have “early” and “late” seasons. Every year, mainly through vagaries in the weather, we record a number of new early and/or late flight dates. Usually these push existing flight dates forward or back a few days to perhaps a week or so. Difficulties arise when we receive reports of resident butterflies from two, three, or as much as five weeks earlier or later than expected. It is too big a leap of faith to unquestioningly accept sight records from this far outside normal flight periods. Therefore, we do ask questions and some of these sightings may not be published due to lack of sufficient documentation.

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New High Counts (# seen at one area on a single day)

Mustard White - 40
Bronze Copper - 12
Hoary Elfin - 49
Acadian Hairstreak - 34
Harvester - 18
Silver-bordered Fritillary - 1000
Milbert's Tortoiseshell - 36
Eastern Comma - 19
Sleepy Duskywing - 18
Ocola Skipper - 2

Record Early Flight Date

Crossline Skipper - June 26

Record Late Flight Date

Checkered White - October 13
Bronze Copper - October 13
Bog Copper - August 10
Dreamy Duskywing - July 1
Common Sootywing - September 20
Arctic Skipper - June 25
Crossline Skipper - August 15
Long Dash - September 17
Brazilian Skipper - September 7
Broad-winged Skipper - September 6
Common Checkered Skipper - October 9
Delaware Skipper - August 9
Mulberry Wing - August 22
Dion Skipper - July 20

Swallowtails Pipevine Swallowtails, always scarce in the state,

were found twice in July and once in September. Black Swallowtails had a good flight, with double digit totals in East Longmeadow, Northampton, and Dartmouth. The Tiger Swallowtail complex remains not very well understood in Massachusetts and it is a bit hard to be certain when Eastern Tiger Swallowtail and Canadian Tiger Swallowtail flights begin and end. The 33 Eastern Tiger Swallowtails at Quabbin on July 19 was a fine total. Spicebush Swallowtails flew for almost five months. They were especially common in Hingham in early August. Finally, the Giant Swallowtail found in Amherst was well described and seen by more than one observer. Too bad it did not stick around longer but both of the recent Giant Swallowtails have all been "one day wonders."

Whites and Sulphurs All of the whites, three resident and one migrant, were reported in 2003. Mustard White numbers were most gratifying, with a high count of 40 at the well documented Lenox site (see *Massachusetts Butterflies*, No. 21) in May and August and an outstanding 102 on the Central Berkshire 4JBC. West Virginia Whites are supposedly widespread in western Mass. but were reported only from Sunderland and Shelburne. All of the recent Checkered Whites found in the state have been at Gooseberry Neck in Westport in early fall; this year's sighting was no exception.

The resident sulphurs made no headlines and there were only a few migrants reported, with a single Little Yellow in the Connecticut Valley and a very few Cloudless Sulphurs along the southeastern coast.

Gossamer Wings The American Copper, which is by far the most widespread and numerous local copper species, was not very well reported. On the other hand, there were good records for the

locally distributed Bog Copper and many sightings of the enigmatic Bronze Copper. All of the Bronze Copper sites of 2003 should be followed up in 2004.

Satyrium hairstreaks occurred in low numbers virtually across the board. The two exceptions were the lot of 34 Acadian Hairstreaks found in Pittsfield and the multiple sightings of Oak Hairstreaks, one at a traditional venue and the others at new locations. No Hessel's Hairstreaks were found and not many Gray Hairstreaks for that matter. White M Hairstreaks were found in the Connecticut Valley and southeastern Massachusetts, with one at Sylvan Nursery in South Dartmouth for the third year running.

Elfins are beautiful little butterflies, thankfully with a few aficionados. Miles Standish State Forest in Plymouth and West Tisbury State Forest on the Vineyard were once again great places to find elfins of several species. The Eastern Pine Elfin flew for almost two months, while all of the Henry's Elfins were sighted in a brief two-week period in early May. The state-listed Frosted Elfin was reported from seven areas but the exceedingly local Bog Elfin apparently went unnoticed in 2003. Of the blues nothing much of interest was reported this year. There were no sightings of Silvery Blues east or south of Middlesex County and no noteworthy flights of azures or Eastern Taileds.

Brushfoots With the notable exception of the Milbert's Tortoiseshell (and perhaps the Eastern Comma), no nymphalid butterfly had a really significant flight in 2003. That said, there were still interesting developments across the family. We have three regularly occurring genera of fritillaries in the Northeast. The first includes the Variegated Fritillary, which is an annual and typically uncommon migrant. This year it was a very small blip on the screen. The "greater" fritillaries are much admired and sought

after but no significant populations were noted this year. Of the “lesser” fritillaries, the Silver-bordered was the star, with the very enviable total of 1000 noted at Waring Field in Rockport. In past years, this site has been home to a few hundred Silver-bordered Fritillaries. What precipitated the big population boom?

A single Gray Comma was noted on the Southern Berkshire County 4JBC. May I appeal to 4JBC compilers to send along some details of their count’s good sightings. For example, we would love to know a spot where Gray Commas might be looked for. Most Massachusetts butterfly watchers have never seen one in-state. The counts of 14 Eastern Commas at Harvard and 19 at Northbridge were excellent. However, not much action was reported on the northbound or southbound migration fronts for the Vanessa anglewings. Some years are fabulous for migrants but not 2003!

A Tawny Emperor on the Southern Berkshire County 4JBC was a very sweet find, as were 10 Hackberry Emperors in Forest Park, Springfield in August. For anyone visiting the park for the first time in search of the emperors, I suggest going along with Tom Gagnon if he has a scheduled walk. These butterflies can sit on your finger or spend hours in the canopy - and sometimes they do both. Tom is the undisputed king at locating them.

There is not too much to say about the satyr reports for 2003 except that maybe someone might want to go over to World’s End Reservation in Hingham and see how the Little Wood Satyrs and Common Ringlets are doing there. A few years ago I saw thousands of each species at World’s End on a single day. This year, the high counts of these resident species statewide were geometrically smaller.

The Monarch is a favorite of butterfly watchers young and old, experienced and neophyte. It was, in plain truth, a poor year for Monarchs in 2003. Very few were noted anywhere in spring and summer and the fall migration was both late in developing and , with the exception of a few days in early October in Westport, of insignificant magnitude. One pleasant surprise happened on Cuttyhunk Island in late August, when 128 Monarch eggs and larvae were discovered on a tiny patch of Common Milkweed.

Skippers Many skippers were among the highlight species of 2003. Included in the outstanding reports were three Long-tailed Skippers, up to four Common Checkered-Skippers, the amazing Brazilian Skipper, all of those Ocola Skippers, and a Sachem. There was also a Fiery Skipper on Cape Ann, which means that at least one individual of this migratory species has been found on Cape Ann in the fall in seven of the last nine years. That is astonishing.

There were a significant number of record late flight dates for skippers in 2003. There would have been more if all of the submitted reports had been accepted. Please exercise caution when identifying and reporting duskywings and remember that even the common duskywings of your area stop flying sometime! While we are on the subject, it has been said that if five butterfly watchers staring at the same milkweed flowers at the same time wrote down the names and numbers of the dark skippers visiting those flowers, the lists would all be different. Which is another way of saying that not very many butterfly watchers identify Little Glassywings, Northern Broken Dashes, Dun Skippers, and female Crossline Skippers with caution. If you have managed to learn their field marks, by all means send in your records. If you are making a guess at the identifications, that is certainly okay but those records should not be submitted for publication.

2003 Season Records

by Tom Dodd

Another fabulous year for butterflies! Many thanks to all the members who contributed sightings via the MassLep listserv or by mail. In addition, I would like to thank Cathy Dodd and Erik Nielsen for their assistance in the data entry this year and to Brian Cassie for graciously offering (and doing) the season summary.

Observers

AG-A.Grkovich AK-A.Keith AM-A.McGinnis AMa-A.Mayo AR-A.Robb
BK-B.Kamp BB-B.Bowker BC-B.Cassie BN-B.Nikula BS-B.Speare
BV-B.Volkle BW-B.Walker BWr-B.Wright CD-C.Dodd CK-C.Kamp
CT-C.Tibbets DA-D.Adams DC-D.Case DF-D.Furbish DLr-D.Larson
DMi-D.Minear DMu-D.Mushrush DPe-D.Peacock DPr-D.Price DR-D.Rhoda
DS-D.Savich DSa-D.Saffarewich DSm-D.Small EB-E.Baldwin
EG-E.Giles ElBa-E.Barry EN-E.Nielsen ES-E.Solberg FG-F.Goodwin
GH-G.Howe KHa-K.Haley KP-K.Parker LS-L.Stillwell MBC-MA Bfly Club
MC-M.Champagne MFah-M.Faherty ML-M.Lynch MMA-M.Maurer
MN-M.Nelson MPe-M.Pelikan MR-M.Rines NY-N.Young PW-P.Weatherbee
RCI-R.Cloutier RH-R.Hildreth RHo-R.Holden RMi-R.Minear RP-R.Pease RW-
R.Walker SC-S.Carrol SCI-S.Cloutier SHed-S.Hedman
SHei-SHeinricher SM-S.Moore SS-S.Stichter TD-T.Dodd TG-T.Gagnon TMu-
T.Murray TW-T.Whelan VaOb-Various Observers WB-W.Bosse
WM-W.Miller

Locations

APND-Allen's Pond, S Dartmouth BFDAM-Barre Falls Dam/Rutland State
Park, Barre BMBS-MAS Broad Meadow Brook WS, Worcester
BMOOR-MAS Broadmoor WS, Natick CRFAL-CRFAL CRGRO-Crane Pond
WMA, Groveland DSTOW-Delaney WMA, Stow DWWS-Daniel Webster WS,
Marshfield FANST-Fannie Stebbins Refuge, Longmeadow
GBH-Great Blue Hill, Milton GOOS-Gooseberry Neck, Westport
IRWS-MAS Ipswich River WS, Topsfield LRA-Larkin Rec Area, Northbridge
MBWMA-Martin Burns WMA, Newbury MBC-Massachusetts Butterfly Club
Field Trip MV-Martha's Vineyard NCG-Northampton Community Gardens
PL-Power Line SCG-Sudbury Community Gardens SF-State Forest

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SP-State Park WCG-Wayland Community Gardens WEND-World's End,
Hingham

Fourth of July Counts

BRI#-Bristol BV#-Blackstone Valley
CBE#-Central Berkshire County CFR#-Central Franklin County
CON#-Concord FAL#-Falmouth IPS#-Ipswich MID#-Middleboro
MV#-Martha's Vineyard NBE#-Northern Berkshire County
NOH#-Northampton NWO#-Northern Worcester County
SBE#-Southern Berkshire County

*=Record Early Date **=Record Late Date **Bold**=High counts

Pipevine Swallowtail

Jul	25	Chelmsford	1	TW
	30	Northampton	1	NY
Sep	20	W Tisbury	1	AK,MPe,BN

Black Swallowtail

May	4	Round Hill, Sudbury	1	SM,BV
	19	GBH	6	EN
Aug	3	Essex GBH	3 5	SM,BV EN
	7	WEND	5	BB
	16	E Longmeadow	11	KP
	31	NCG GOOS, APND	8 2,3	TG EN
Sep	6	APND	12	MC,MBC
	7	Concord, SCG, WCG	4,4,5	EN
	20	NCG W Meadows, Northampton	max 10 4	EN,TG,TMu EN
	29	Newburyport	1	DLr
Oct	9	W Meadows, Northampton	1	TG

Giant Swallowtail

Sep	5	Amherst	1	DMi,RMi,SVenman
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Tiger Swallowtail (species)

May	4	Northbridge Weston	1 1	TD TW
	11	FANST	4	BB
	31	Orange	3	DSm
Jun	2	Greylock Glen, Adams	5	PW
	16	Warwick Royalston	5 12	SHei CK,MBC
	24	Williamstown Southampton	7 5	PW TG
	25	Mt Greylock	20	TG
	28	Ware River Watershed	8	ML,SC

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Jul	12	W Bridgewater	5	DA
	19	Spencer Quabbin	8 33	EiBa,MRowden ML,SC
Aug	10	FANST	15	TG
Sep	20	E Longmeadow	1	KP
Spicebush Swallowtail				
May	3	E Longmeadow	1	KP
Jul	6	GBH	9	EN
	19	Quabbin (G45) Northampton	7 5	ML,SC TG
	25	BMBS	6	DPr
Aug	2	Dartmouth	8	BC,DPe
	3	GBH	9	EN
	5	Whately	5	DSm
	7	Wompatuck SP, Hingham	14	BC,DPe
Sep	28	Cape Ann	1	DS,CT
Checkered White				
Oct13**		GOOS	1	BC
Mustard White				
Apr	27	Lenox	7	RP,CK,MBC
May	4	Lenox	23+	RP,CK,MBC
	10	Lenox	40	BB
	25	Lenox	24	TG
Jul	20	Lenox	10	TG
Aug	23	Lenox	40	TMu
Sep	6	Lenox	7	RP
West Virginia White				
May	4	Sunderland	max 8	TG,RP,CK,TMu,MBC
	10	Sunderland	6	BB
	18	High Ledges, Shelburne	1	BC
Cabbage White				
Apr	14	Florence	1	TG
May	11	Shrewsbury Northampton	25 44	SM,BV TG
Jun	28	Arnold Arboretum, Boston	125	DR,MBC
Jul	4	E Longmeadow Sterling	33 70+	KP ML,SC
Aug	31	Westport	800	BC
Sep	6	APND	191	MC,MBC
	9	GOOS	154	RHi
	20	Westport+Dartmouth NCG	358 120	BC EN,TG,TMu
	24	Westport	427	RHi
Nov	1	Katama, Edgartown	1	AK
	3	Holliston	1	RHi
Clouded Sulphur				
Apr	16	Boston Marlborough Marblehead	1 1 1	SM BV KHa

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May	18	Delaney WMA, Stow Natick	96 30	EN BB,ES
	29	W Tisbury	~40	MPe
Jul	9	Naval Air Stn, Weymouth	140	EN
Aug	27	N Common Meadow, Petersham	50	DSm
	31	APND	62	EN
Sep	6	APND	48	MC,MBC
	7	Nine Acre Corner, Concord	47	EN
	21	Moran WMA, Windsor Dartmouth	30 53	ML,SC BC
Oct	10	SCG	100	DPe
Nov	18	Aquinnah	1	AK
Orange Sulphur				
May	4	Great Meadows NWR, Sudbury	1	SM,BV
	18	DSTOW	58	EN
Aug	9, 15	Katama, Edgartown	~60,~80	MPe
Sep	21	Brookfield APND	14 max 60	RHi EN,TMu
	24	Westport	245	RHi
	27	Marlborough	152	SM,BV
	30	Westport	231	RHi
Oct	8	DSTOW Westport	100 196	TMu RHi
	31	Westport	48	RHi
Nov	27	Katama, Edgartown	1	MPe
Cloudless Sulphur				
Sep	9	Katama, Edgartown	1	AK
	24	Westport	1	RHi
Little Yellow				
Oct	9	Florence	1	TG
Harvester				
May	30	Wilbraham	1	RP,CK,MBC
Jun	16	Royalston	3	CK,MBC
Jul	14	IRWS	1	BS, SSpear
	20	Wachusett Res(G28), W Boylston	3	BW
	26	Medford	3	MR, RLaFontaine
Aug	21	Medford	7	RLaFontaine fide MR
	28	Medford	18	MR
Oct	12	Raised bfly emerged	1	MR
American Copper				
May	7	Shrewsbury	1	BW
	29	Chelmsford	15	TW
	30	Florence	24	TG
Jun	3	Nomans Island N Andover	20 13	AK FG
Jul	9	Naval Air Stn, Weymouth	38	EN
	15-17	Nomans Island	15	AK

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	20	Gate 28, W Boylston	18	BW
Sep	6	APND	46	MC, MBC
	20	NCG	17	EN, TG, TMu
Oct	17	Milford	1	RHi
Bronze Copper				
Jul	8	Cheshire	1	PW
	13	Stockbridge	1	PW
Aug	31	WCG	3	SM, BV
	31	Great Meadows NWR, Concord	1	SM, BV
Sep	14	Nine Acre Corner, Concord SCG	2 1	EN, TMu
	14	Plum Island, Newbury	3	RHi
Oct	5	WCG	3m 4f	SM, BV
	6	WCG	8	TMu
	8	WCG	6	SM, BV
	10	SCG, WCG, Concord	4,10,12	DPe
	10	IRWS	1	FG
	13**	WCG, Concord SCG	8,2 3	EN SM, BV
Bog Copper				
Jun	25	MV		2 AK
Jul	2	Wendell	36	TG
	3	Cape Ann Pilgrim Lake, Truro	23 70	DS, CT MFah
	4	Reservoir 1, Athol	200	EB
	7	Rockport	18	TMu
	13	Tully Lake, Royalston	125	CK, DS _m
	19	Cape Ann	11	DS, CT
Aug	10**	Wendell	1	EB
Coral Hairstreak				
Jul	5	CFR#	12	
	15	Shrewsbury	2	BW
	20	Gate 28, W Boylston Harvard	1 1	BW TMu
	26	Cape Ann Wellfleet	2 3	DS, CT TW
	31	GBH	12	TMu
Aug	3	GBH	7	EN
	18	Wellfleet	1	MFah
Acadian Hairstreak				
Jul	9	Naval Air Stn, Weymouth	1	EN
	12	BV# SBE#	4 1	
	15	Shrewsbury	1	BW
	20	Pittsfield, CBE#	34	TG
Edwards' Hairstreak				
Jul	3	GBH	3	TMu
	4	Horn Pond Mtn, Woburn	2	BB, LS

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	6	GBH	11	EN
	12	Highland Farm Field, Belmont	2	AM
	13	Ponkapoag trail, Randolph	2	TMu
	21	Seen past week, Wellfleet	4	MFah
	31	GBH	7	TMu
Aug	9	Oak Bluffs	1	MPe
Banded Hairstreak				
Jun	23	Springfield	1	RP,CK,MBC
Jul	3	GBH	9	TMu
	5	Ponkopoag Bog,Canton Montague	1 6	BC TG
	10	Lexington	3	TW
	13	GBH	8	TMu
	19	S Hadley Cape Ann	3 1	TG DS,CT
	20	Lexington Cape Ann	5 4	TW DS,CT
Aug	7	WEND	1	BB
Hickory Hairstreak				
Jul	28	Belmont	1	MR
Striped Hairstreak				
Jul	4	Horn Pond Mtn, Woburn	1	BB,LS
	13	Ponkapoag trail, Randolph	2	TMu
	19	Shaw's Pond, Spencer	1	EiBa,MRowden
	20	Horn Pond Mtn, Woburn	1	TW
	21	Seen past week, Truro	3	MFah
	27	Milford	1	EN
Aug	18	Wellfleet Bay Aud, Wellfleet	1	MFah
	24	Cape Ann	1	DS,CT
Oak Hairstreak				
Jun	29	GBH	1	EN
	30	Hingham	1	EN
Jul	6	GBH	1	EN
	8	GBH	1	BC
	12	Alford	1	TG,JJohnson
	18	Oak Bluffs	2	MPe
Brown Elfin				
Apr	21	GBH	3	BC
	29	GBH	19	EN
	30	BMBS	5	GH
May	5	W Tisbury Chelmsford GBH	19 2 7	MPe TW TMu
	10	Myles Standish SF, Plymouth	max 72	EN,TMu
	11	SF, W Tisbury CRFAL	21 8	MPe BW
	18	SF, W Tisbury	17	MPe
	19	New Salem	7	CK,MBC

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Hoary Elfin			
Apr	21	SF, W Tisbury	1 MPe
	30	SF, W Tisbury	7 MPe
May	4	SF, Edgartown	6 MPe
	5	SF, W Tisbury	30 MPe
	10	Myles Standish, Plymouth	49 EN
	11,18,21	SF, W Tisbury	13,16,3 MPe
Frosted Elfin			
May	11	Noanet Woodlands Reservation, Dover	1 EN
	18	Foxboro Amherst, Montague	24 2,2 MC,SS TG
	19	Acton Horn Pond, Woburn	6 3 EN BB
	31	Foxboro	29 EN
Jun	2	Foxboro	13 TMu
	6	Horn Pond Mtn, Woburn	1 TW
	29	Myles Standish SF, Plymouth	4 TMu
Henry's Elfin			
Apr	30	Chelmsford	2 TW
May	3	Oxbow NWR, Harvard	max 4 EN, TMu
	4	Oxbow NWR, Harvard	1 SM, BV
	10	Hockomock Swamp	1 BC
	11	Cape Ann	1 DS, CT
	17	IRWS	1 FG
Eastern Pine Elfin			
Apr	21	Dover Topsfield	2 1 EN FG
May	10	Natick	1 ES
	11	Noanet Woodlands Reservation, Dover	7 EN
	18	SF, W Tisbury DSTOW Harvard	3 3 4 MPe EN TMu
Jun	16	Royalston	5 CK, MBC
Juniper Hairstreak			
May	5	GBH	3 TMu
	5	Trade Wind Field Preserve, OakBluffs	1 MPe
	18	Amherst	13 TG
	19	Horn Pond, Woburn	5 BB
	28	Chappaquiddick	2 AK
Jun	2	DSTOW	1 BW, RW
Aug	19	Dennis	1 TD, CD
White M Hairstreak			
Jul	5	Ponkopoag Bog, Canton	1 BC
Aug	26	Fulling Mill Brook, Chilmark	2 MPe
	31	Florence NCG	1 1 TG
Sep	6	APND	1 EN, WB, DPr, WM, MC
Gray Hairstreak			

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May	5	SF, W Tisbury	3	MPe
Jul	27	Milford	2	EN
Aug	28	Great Brook Farm, Carlisle	2	TD
Sep	17	Uxbridge Chelmsford	2 1	RHi TW
	21	Brookfield NCG	1 1	RHi TG
Early Hairstreak				
Jun	25	Mt Greylock	1f	TG
Eastern Tailed-Blue				
May	3	Dauphinais Park, Grafton	3	DPr,WB
	17	Foxboro	12	EN
	18	Amherst	15	TG
	31	Sunderland	28	TG
Jul	27	Milford	18	EN
Aug	9	Worc Airport, Leicester	12	DPr,EiBa,MBC
	22	BMBS	28	DPr,BW
	26	CRFAL Edgartown	13 ~40	AR MPe
Sep	6	APND	18	MC,MBC
	27	Marlborough	40	SM,BV
	28	DSTOW	22	TMu
Oct	17	Milford	1	RHi
Spring Azure (spp)				
Apr	14	Holliston	1	RHi
	21	Freetown SF Fall River	42 12	EN
May	4	Oxbow NWR, Harvard Amherst	40 14	SM,BV TG
	5	SF, W Tisbury	24	MPe
	10	Myles Standish SF, Plymouth	18	EN
	10	E Longmeadow	15	KP
	19	Ponkapoag, Canton	28	EN
	20	IRWS Great Meadows, Lexington	17 8	FG BB
Jul	9	Naval Air Stn,Weymouth	19	EN
	27	Milford	4	EN
Aug	6	Dunback Meadow, Lexington	3	TW
	16	Sheffield	12	ML,SC
	22	BMBS	2	DPr,BW
Sep	17	NCG	2	RP
Silvery Blue				
May	11	Shrewsbury	1	SM,BV
	18	DSTOW	33	EN
	20	DSTOW	31	TMu
	31	DSTOW Orange	34 25	ML,SC DSm
Jun	2	Greylock Glen, Adams DSTOW	5 83	PW BW,RW
	8	Lenox	2	TG

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	25 Moran WMA, Windsor	2	TG
	30 Harvard	2	TMu
Variegated Fritillary			
Aug	26 Cuttyhunk Island	1	BC,VaOb
	31 NCG	1	TG
Sep	6,7,12 NCG	1	TG
	13 BFDAM	1	ML,SC
Great Spangled Fritillary			
Jun	23 Florence	1	TG
Jul	6 GBH	11	EN
	19 Lexington Quabbin (G45)	10 8	TW ML,SC
	25 BMBS	8	DPr
Aug	5 Whately	8	DSm
	15 WMWS	12	CK
	27 Florence	11	TG
	31 NCG	9	TG
Sep	6 NCG	8	TG
	20 Holliston	4	RHi
	20 NCG	16	EN,TG,TMu
Oct	3 NCG	1	TG
Aphrodite Fritillary			
Jul	5 CFR#	2	
	13 Tower Hill, Boylston Royalston	1 5	ElBa,ES,LS CK,DSm
	14 Royalston	3	CK
	19 Quabbin (G45)	6	ML,SC
	20 Warwick	6	CK
Aug	15 WMWS	2	CK
	23 Pittsfield	1	TMu
Sep	6 Palmer	1	KP
Atlantis Fritillary			
Jul	5 Dubuque SF, Hawley	2	ML,SC
	12 SBE#	2	
	20 Pittsfield, CBE#	10	TG
Aug	13 Bog Pond, Savoy	2	PW
Silver-bordered Fritillary			
May	11 FANST	3	BB
Jun	2 Waring Field, Rockport	65	DS,CT
Jul	27 Waring Field, Rockport	259	DS,CT
Aug	2 Dartmouth	3	BC,DPe
	10 Wendell	3	EB
	14 Waring Field, Rockport	531	DS,CT
	16 Tully Lake, Royalston	3	CK,AMa

	24	FANST	4	TG
Sep	6	Waring Field, Rockport	1032	DS,CT
	20	Waring Field, Rockport	1000	DS,CT,MBC
Oct	11	Waring Field, Rockport	1	DS,CT
Meadow Fritillary				
May	19,30	Williamstown	3,4	PW
Jul	12	Alford	4	TG
Aug	16	Sheffield	5	ML,SC
	22	Mtn Meadow Preserve, Williamstown	2	PW
Sep	7	Mtn Meadow Preserve, Williamstown	1	PW
	20	Sheffield	1	ML,SC
Harris' Checkerspot				
Jun	19	MBWMA	2	SS
	25	BMBS	16	TMu
	27	BMBS MBWMA	21 10	DPr,WB TW
	28	MBWMA	22	SS,DS,MBC
	29	WMWS	8	SM,BV
Jul	3	CRGRO	6	SS
	6	MBWMA	3	TW
Pearl Crescent				
May	11	FANST	3	BB
Jun	8	MBWMA Oxbow NWR, Harvard	89 51	SS,MBC TMu
	10	Sherborn	100	BB
	12	Cape Ann Harvard	77 42	DS,CT TMu
Aug	4,6	Cape Ann	84,86	DS,CT
	9	Worc Airport, Leicester	82	DPr,EiBa,MBC
	14,17	Cape Ann	301,225	DS,CT
	24	Cape Ann	196	DS,CT
	26	Cuttyhunk Island	130	BC,VaOb
Sep	21	APND Brookfield	15 4	TMu RHi
Oct	13	WCG IRWS APND	1 1 1	EN FG TMu
Baltimore Checkerspot				
Jun	26	W Bridgewater	2	DA
	27,29	Canton	50+	MC
Jul	6	Mill Pond, W Newbury	max 24	SS,TW
	9	Naval Air Stn, Weymouth	54	EN
	12	W Bridgewater Alford	60-70 13	DA TG
	13	Stockbridge	10	PW
	20,29	Harvard	28,7	TMu
Question Mark				
May	19	Acton	1	EN
Jun	12	Harvard	2	TMu

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	21 Dauphinais Park, Grafton	2	DPr,WB
	24 Chilmark	2	AK
	30 Harvard	8	TMu
Jul	27 Cape Ann	2	DS,CT
	31 Nahant	3	DSaf
Aug	3 Oxbow NWR, Harvard	4	TMu
	6 Wellesley	2	BB,LS
	10 FANST	2	TG
Oct	31 GOOS	1	RHi
Eastern Comma			
Mar	24 Holliston	1	RHi
Apr	13 Oxbow NWR, Harvard Mt Tom SP	5 1	EN TG
May	3 Oxbow NWR, Harvard	6	EN TMu
	18 Amherst Harvard	1 7	TG TMu
Jul	12 Harvard	14	TMu
	20 Lexington Harvard	1 9	TW TMu
Aug	3 Oxbow NWR, Harvard	6	TMu
	10 Longmeadow	6	TMu
	24 FANST	8	TG
Sep	5 LRA	6	RHi
Oct	2 LRA	19	RHi
Nov	7 Holliston	1	RHi
Gray Comma			
Jul	12 SBE#	1	
Compton Tortoiseshell			
Mar	22 Warwick	1	CGreen
	26 Cape Ann	1	DS,CT
Apr	13 Oxbow NWR, Harvard	1	EN, TMu
	17 Cape Ann	1	DS,CT
Jul	10 Tower Hill, Boylston	1	BW
	13 Ponkapoag trail, Randolph	2	TMu
	21 Greylock Glen, Adams	1	PW
Sep	14 Pembroke	1	EG
Mourning Cloak			
Mar	9 Sandwich	1	DF
	26 Cape Ann IRWS	1 4	DS,CT FG
Apr	21 FallRiver Freetown GBH	5 5 3	EN EN BC
May	4 Cape Ann Sudbury Chilmark	3 3 3	DS,CT SM,BV AK
Jun	27 Mt Holyoke	2	TG
Oct	30 Harvard	1	TMu
Milbert's Tortoiseshell			
Apr	14 BMBS	1	JZumpfe

	20	Grafton		1	MN
Jun	23	Warwick		3	SHei
	25	Harvard Mt Greylock Windsor	7 2 2		TMu TG TG
	30	Marlborough		1	MMa
Jul	16 19	Dunback Meadows, Lexington		10 3	MR TW
	20,26	Harvard		3,16	TMu
	26	Wachusett Res, Sterling		2	TD,CD,MBC
Aug	3	Harvard		36	TMu
	10	Warwick		3	SHei
Sep	5	LRA		4	RHi
	6	NCG		3	TG
	7	BMBS WCG Concord	3 1 1		BW EN EN
	26	Royalston		2	KMorris
Oct	25	Warwick		1	SHei
American Lady					
Apr	27	Newbury		1	SS
May	10	Myles Standish SF, Plymouth	max 14		EN,TMu
	10	Martha's Vineyard		25	MPe
Aug	29	Sylvan Nursery, Dartmouth		14	BC
Sep	6	APND		23	MC,MBC
	13	Sylvan Nursery, Dartmouth		9	DPr,WM,WB
	22	N Common Meadow, Petersham		8	RCl,SCl
Oct	8	Westport		35	RHi
Nov	2	Middlesex Fells		1	BWr
	22	Aquinnah		1	AK
Painted Lady					
May	18	Foxboro		1	MC,SS
Jun	28	Cherry Hill Reservoir, W Newbury		1	EN
Aug	29	Cape Ann Dartmouth	2 4,2		DS,CT BC
Sep	6	APND		7	EN,MC,MBC
	20	Comm Gardens, Beverly		2	SHed
	30	Westport		6	RHi
Oct	5	Westport+Dartmouth		8	BC
	13	GOOS		8	BC
Nov	18	Nahant		1	DSaf
Red Admiral					
Apr	21	FallRiver		1	EN
May	2	Newbury		6	SS
Jun	21	Dauphinais Park,Grafton		4	DPr,WB
Jul	16	Daniel Webster WS, Marshfield		20	DF
	31	Nahant		12	DSaf
Aug	3	Northampton Oxbow NWR, Harvard	9 8		TG TMu

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Sep 6	Chilmark APND	2 9	AK MC,MBC
Oct 8 13	GOOS	25 19	RHi BC
Nov 18	MV		1 AK
Common Buckeye			
Jul 28	Nahant	1	DSaf
	29 Squibnocket, MV	2	AK
Aug 31	APND GOOS	6 7	EN BB,LS
Sep 6	APND GOOS	17 12	MC,MBC EN
	20 GOOS Chilmark	5 2	BB AK
	20 W Meadows, Northampton	1	TG,EN
	21 APND	15	EN,TMu
	24,30 Westport	11,8	RHi
Oct 5	Westport+Dartmouth	9	BC
	31 GOOS Chilmark	1	RHi AK
Red-spotted Admiral (White Admiral form)			
Jun 17	Florence Royalston	1 1	TG CK,MBC
	21 Royalston	5	ML,SC
	24 Southampton	3	TG
Jul 5	Dubuque SF, Hawley Leverett	27 5	ML,SC TG
	20 Warwick	6	CK
Sep 17,21	Mt Tom St Reserv	1,1	TG
Red-spotted Admiral (Red-spotted Purple form)			
May 18	Royalston	1	CK,MBC
Jun 21	Dauphinais Park, Grafton Royalston	3 9	DPr,WB ML,SC
	24 Southampton	21	TG
	28 Ware River Watershed	11	ML,SC
Jul 5	Dubuque SF, Hawley	28	ML,SC
Aug 3	Oxbow NWR, Harvard	14	TMu
	5 Whately	10	DSm
	7 Wompatuck SP, Hingham	30	BC,DPe
Sep 6	APND	9	EN,MC,MBC
	25 Oak Bluffs	1	MPe
Viceroy			
May 31	Sunderland	1	TG
Jul 27	Milford	12	EN
	30 Dauphinais Park, Grafton	24	WB,WM,EI Ba
Aug 5	Whately	10	DSm
	15 WMWS	11	CK
	16 Sheffield	9	ML,SC
	23 Easton	12	BC
Sep 20	Sheffield NCG	10 11	ML,SC EN,TG,TMu
	21 Uxbridge Brookfield	10 10	RHi

Oct 14	NCG	1	TG
Hackberry Emperor			
Jul 3	Forest Park, Springfield	2	TG
Aug 10	Forest Park, Springfield	2	TMu
	16 Sheffield	2	ML,SC
	24 Forest Park, Springfield	10	TG
Tawny Emperor			
Jul 12	SBE#	1	
Aug 15	Forest Park, Springfield	1	TMu
Northern Pearly-Eye			
Jul 3	Chelmsford	1	TW
	12 Harvard Peru	2 2	TMu ML,SC
	19 Quabbin (G45)	2	ML,SC
	20 Harvard	5	TMu
	21 Greylock Glen, Adams	3	PW
Aug 3	Paxton	1	ElBa
Eyed Brown			
Jun 30	Harvard	2	TMu
Jul 4	Cumington	2	TG
	12 Harvard	10	TMu
	14 Hoosac River	12	PW
	19 Quabbin (G45)	7	ML,SC
	20 Harvard	3,6	TMu
Appalachian Brown			
Jun 30	Harvard	3	TMu
Jul 19	Shaw's Pond, Spencer	3	ElBa,MRowden
	20 Harvard	2	TMu
	27 Milford	2	EN
	29 Cape Ann	3	DS,CT
	30 Hennessey Property, Grafton	3	WB,WM,ElBa
Sep 7	SCG	1	EN
Little Wood-Satyr			
May 31	E Longmeadow IRWS	1 1	KP FG
Jun 6	IRWS	42	FG
	10 Sherborn	80	BB
	12 Lexington	24	DR,MBC
	15 Oak Bluffs Sherborn	44 40	MPe BB,SS,MC
	21 Dauphinis Park, Grafton	40+	DPr,WB
	24 sev. loc.,Oak Bluffs	50+	MPe
	28 Wampesket, Tisbury MBNEM	~25 27	MPe SS,DS,MBC
Jul 13	E Longmeadow	22	KP
Aug 16	Mt Tom SP	1	EB

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Common Ringlet

May	29	E Longmeadow	1	KP
Jun	6	IRWS	76	FG
	10	Sherborn	80	BB
	12	Cape Ann	38	DS,CT
	25	BMBS Windsor	10 30	TMu TG
	25	Harvard	40+,12	TMu
	28	Ware River Watershed	66	ML,SC
Aug	7	WEND	30	BB
	14,17,24	Cape Ann	46,85,125	DS,CT
Oct	9	W Meadows, Northampton	1	TG
	10	IRWS	2	FG

Common Wood-Nymph

Jul	9	Naval Air Stn, Weymouth	4	EN
	27,28	Cape Ann	282,194	DS,CT
	30	Hennessey Property, Grafton	160	WB,WM,ElBa
Aug	3	Essex	100	SM,BV
	9	Worc Airport, Leicester Cape Ann	66 177	DPr,ElBa,MBC DS,CT
	15	WMWS	73	CK
	17	Cape Ann	155	DS,CT
	26	Cuttyhunk Island	300	BC,VaOb
Sep	9	Cape Ann	27	DS,CT
	25	Chilmark	1	AK

Monarch

May	3	Horseneck Beach, Westport	1	TD,CD
Jun	25	Aquinnah	8	MPe
Jul	16	Daniel Webster WS, Marshfield	6	DF
	30	Hennessey Property, Grafton	10	WB,WM,ElBa
Aug	7	WEND Katama, Edgartown	16 11	BB AK
	24	W Bridgewater Chatham W Tisbury	3 4 3	DA RP MPe
Sep	5	Northampton	107	TG
	20	WMWS Hawk Watch, Barre	48 5	CK BK
	21	Mt Watatic Hawk Watch, Barre	29 26	TPirro,JLash BK
	21	APND	50	TMu
	25	WMA, Westborough	27	DMu
	30	Westport	143	RHi
Oct	5	Westport+Dartmouth	1542	BC
	6,7,8	Cape Ann	49,73,46	DS,CT
	8	Westport	1527	RHi
	13 18	GOOS	120 220	BC,TMu BC
	14	MV Northampton	10,40 48	AK TG
Nov	18	Aquinnah	2	AK

Silver-spotted Skipper		
May	30 Florence	1 TG
Jun	28 Cherry Hill Reservoir, W Newbury	12 EN
Jul	1 Oak Bluffs	39 MPe
	12 Harvard	18 TMu
	26 Wachusett Res, Sterling	70 TD,CD,MBC
Aug	9 Worc Airport, Leicester	15 DPr,EiBa,MBC
	23 NCG	7 TG
Oct	3 NCG	1 TG
Long-tailed Skipper		
Sep	15 (1 tail) NCG	1 TG
	16 (2 tails) NCG	1 TG
	17 NCG	1 TMu,WB
	22 Orange	1 SHei
Hoary Edge		
Jun	19 MBWMA	1 SS
	21 Dauphinais Park, Grafton	2 DPr,WB
	25 BMBS	2 TMu
	30 Dauphinais Park, Grafton	2 DPr,WB
Jul	3 GBH	2 TMu
	12 Harvard	2 TMu
	14 BMBS	2 BW
Aug	3 GBH	1 EN
Southern Cloudywing		
May	31 Sunderland	1 TG
Jun	28 MBWMA	2 SS,DS,MBC
	29 GBH	3 EN
Jul	2 Montague	2 TG
	3 GBH	3 TMu
	4 GBH	2 EN
	5 Montague	7 TG
	6 GBH	3 EN
	13,31 GBH	3,2 TMu
Northern Cloudywing		
May	19 Cape Ann	1 DS,CT
Jun	11,16 Cape Ann	19,15 DS,CT
	21 Dauphinais Park, Grafton	5 DPr,WB
	27 MBWMA	3 TW
	30 Dauphinais Park, Grafton	3 DPr,WB
Jul	1 Cape Ann	6 DS,CT
	25 MID#	1
Dreamy Duskywing		

May 10	Quabbin Reserv	2	TG
	19 Harvard	13	TMu
	30,31 BMBS	8,7	TMu
	31 Foxboro Sunderland MBWMA	8 7 14	EN TG SS,MBC
Jun 2	Foxboro Greylock Glen, Adams	10 8	TMu PW
	25 BMBS	9	TMu
Jul 1**	Cape Ann	1	DS,CT
Sleepy Duskywing			
May 4	SF, Edgartown	1	MPe
	10 Myles Standish SF, Plymouth	18	EN
	11 Shrewsbury	5	SM,BV
	11,18 SF, W Tisbury	6,14	MPe
	20 SF, W Tisbury	4	AK
	21 SF, W Tisbury	3	MPe
	31 Foxboro	3	EN
Juvenal's Duskywing			
Apr 29	GBH	2	EN
May 10	BMBS	4	DPr,WB,WM
	17 Freetown SF, Freetown Sherborn	8 4	EN BB
	18 SF, W Tisbury	19	MPe
	19 MBWMA BMBS Harvard GBH 4 4 6 14	SS GH TMu EN	
	21 SF, W Tisbury	11	MPe
	28 Chappaquiddick	5	AK
	31 MBWMA Foxboro	4 5	SS,MBC EN
Jun 8	Shrewsbury	21	SM,BV
	16 Royalston	6	CK,MBC
Jul 5	Chilmark Pond, Chilmark	1	MPe
Horace's Duskywing			
May 10	Myles Standish SF, Plymouth	5	EN
	29 Chelmsford	2	TW
Aug 2	Dartmouth	2	BC,DPe
	3 GBH	12	EN
	7 WEND	1	BB
Wild Indigo Duskywing			
May 10	Myles Standish SF, Plymouth	5	TMu
	20 Chelmsford	7	TW
	31 Foxboro	17	EN
Jun 2	DSTOW	8	BW,RW
Jul 27	Milford	5	EN
	31 GBH	25	TMu
Aug 3	GBH	14	EN
Sep 27	Marlborough	8	SM,BV

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	28	DSTOW	2	TMu
Common Checkered-Skipper				
Sep	12	NCG	1	TG,DC,NY
	16	NCG	2	TG
	17	NCG	max 4	TMu, RP, WB
	20	NCG	4	EN,TG,TMu
	30	NCG	1	TG
Oct	9**	NCG	1f	TG
Common Sootywing				
May	10	Myles Standish SF, Plymouth	1	TMu
	31	Sunderland	8	TG
Jul	15	Shrewsbury	2	BW
	19	Dunback Meadows, Lexington	3	TW
	30	Dauphinais Park, Grafton	13	WB,WM,EiBa
Aug	3,4	NCG	20,18	TG
	17	NCG	7	TG
Sep	20**	NCG	2	EN,TG,TMu
Arctic Skipper				
Jun	2	Greylock Glen, Adams	1	PW
	16	Royalston	1	CK,MBC
	25**	Windsor	6	TG
Least Skipper				
Jun	21	Dauphinais Park, Grafton	10	DPr,WB
	28	MBWMA Wampesket, Tisbury	6 ~20	SS,DS,MBC MPe
Aug	9	Worc Airport, Leicester	23	DPr,EiBa,MBC
	10	FANST	29	TG
	16	Chilmark Sheffield	16 11	AK ML,SC
	17	Waring Field, Rockport	20	SM,BV
	24	Cape Ann	37	DS,CT
Sep	6	APND	30	MC,MBC
	19	Chilmark	16	AK
	20	Chilmark	~20	MPe
Oct	8	Chilmark	2	AK
European Skipper				
Jun	21	Dauphinais Park, Grafton	13	DPr,WB
	23	Mtn Meadow Preserve, Williamstown	7	PW
	27	Belmont	100	AM
	28	Newbury Arnold Arboretum, Boston	110 89	EN DR,MBC
	29	Turkey Hill, Hingham GBH	1500 6000	EN EN
Jul	3,4,6	GBH	3000 4000 1800	TMu EN EN
	9	Naval Air Stn, Weymouth	210	EN
	30	Leicester	1	EiBa,MRowden

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Aug 11	Chilmark	1	AK
Fiery Skipper			
Aug 30	WCG	1	SM,BV
Sep 29	Waring Field, Rockport	1m	DS,CT,TMu
Leonard's Skipper			
Aug 16	Tully Lake, Royalston	2	CK,AMa
24	SF HQ,Edgartown Upton	3+ 1	MPe TD,CD
27	N Common Meadow, Petersham	3	DSm
Sep 5	LRA	6	RHi
8	Cape Ann	3	DS,CT
20	NCG	2	EN,TG,TMu
29	Holliston	1	RHi
Cobweb Skipper			
May 17	Turner's Falls Airport, Montague	2	ML,SC
18	SF, W Tisbury	5	MPe
18	Turners Falls, Montague Amherst	20 20+	TG TG
19	Old County, W Tisbury	8+	MPe
30	Florence BMBS	4 6	TG TMu
31	BMBS Foxboro	5 14	TMu EN
Jun 10	Shrewsbury	1	BW
Indian Skipper			
May 30	Florence	1	TG
Jun 2	Foxboro	4	TMu
3	Weir Hill Reservation, N Andover	3	FG
10	Old County, W Tisbury	2	MPe
15	Oak Bluffs	7	MPe
16	Royalston Tisbury Meadow, Tisbury	8 31	CK,MBC MPe
21	Turner's Falls Airport, Montague	2	EN
28	MBNEM	3	SS,DS,MBC
Peck's Skipper			
May 30	BMBS	2	TMu
Jun 8	Harvard Upton	5 18	TMu TD
25	Harvard BMBS	15 7	TMu TMu
Aug 9,10	E Longmeadow	40,45	KP
15	E Longmeadow Marblehead	23 50+	KP KHal
27	N Common Meadow, Petersham	8	DSm
27	Marblehead	30	KHal
Sep 15	Rockport	22	TMu
Oct 9	NCG	1	TG
Tawny-edged Skipper			
May 30	Florence	1	TG
Jun 6	BMBS	5	DPr,BW

	8 Upton	5	TD
	12 Harvard	4	TMu
	16 Watcha Path, Edgartown	5	MPe
Aug	9,10 E Longmeadow	6,8	KP
	14 Oak Bluffs	5	MPe
	16,17 E Longmeadow	5	KP
	26 Edgartown, Chilmark	4,6	MPe
Sep	20 NCG	1	EN,TG,TMu
Crossline Skipper			
Jun	26* Hoft Farm, W Tisbury	1	MPe
Jul	14 BMBS	4	BW
	15 Shrewsbury	4	BW
Aug	3 Oxbow NWR, Harvard	3	TMu
	15** BMBS	1	BW
Long Dash			
Jun	8 MBWMA	1	SS,MBC
	16 Watcha Path, Edgartown	7	MPe
	24 SF HQ, Edgartown	8	MPe
	25 Harvard	7	TMu
	26 Hoft Farm, W Tisbury	6	MPe
	27 SF HQ,Edgartown	~20	MPe
	28 MBWMA	8	SS,DS,MBC
Jul	1 Oak Bluffs Cape Ann	5,7 5	MPe DS,CT
	5 SF HQ, Edgartown DSTOW	7 4	MPe TMu
Sep	17** NCG	1	TG,TMu
Northern Broken-Dash			
Jul	2 Wendell	3	TG
	12,20 Harvard	5	TMu
	13 GBH	5	TMu
Aug	3 Harvard GBH	8 22	TMu EN
	5 Oak Bluffs	8+	MPe
	7 WEND	11	BB
Sep	6 APND	0	WB,DPr,WM,MC
Little Glassywing			
Jun	25 Harvard	1	TMu
Jul	3 Northampton	6	TG
	10 Tower Hill, Boylston	3	BW
	14 BMBS Royalston	6 2	BW CK
	25 BMBS	4	DPr
	30 Dauphinais Park, Grafton Leicester	6 6	WB,WM,EiBa
Aug	14 Cape Ann	3	DS,CT
	22 BMBS	1	DPr,BW

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Sachem		
Sep 6	NCG	1m TG
Delaware Skipper		
May 30	Florence	1 TG
Jul 12	Harvard	4 TMu
15	Shrewsbury	5 BW
19	Dunback Meadows, Lexington	8 TW
20	W Boylston Harvard	6 4,6 BW TMu
Aug 3	Harvard	4 TMu
9**	Worc Airport, Leicester	1 DPr,ElBa,MBC
Mulberry Wing		
Jul 12	Harvard	3 TMu
18,19	Cape Ann	14,3 DS,CT
27	Milford	13 EN
29	Harvard Cape Ann	3 21 TMu DS,CT
Aug 6	Wellesley	10 BB,LS
16	Sheffield	3 ML,SC
22**	BMBS	1 DPr,BW
Hobomok Skipper		
May 27	E Longmeadow	2 KP
Jun 6	BMBS IRWS	7 2 DPr,BW FG
8	Oxbow NWR, Harvard	9 TMu
12	Harvard	10 TMu
15	E Longmeadow MBWMA Oak Bluffs	8 6 6 KP TW MPe
21	Dauphinis Park, Grafton	9 DPr,WB
21	E Longmeadow	2 KP
29	E Longmeadow Chilmark	2 7 KP MPe
Zabulon Skipper		
Aug 10	FANST Longmeadow	1m 1 TG TMu
15	Longmeadow	1 TMu
24	FANST	1m TG
Sep 21,24	E Longmeadow	1 KP
Broad-winged Skipper		
Jul 12	BV#	2
27	Cape Ann Milford	2 11 DS,CT EN
31	Ponkapoag trail, Randolph	30 TMu
Aug 7	WEND	6 BB
10	Forest Park, Springfield	5 TG
15	Oak Bluffs BMBS	2 6 MPe BW
22	BMBS	5 DPr,BW
Sep 6**	APND	4 MC,EN,MBC
Dion Skipper		

Jul	12	SBE#		3	
	20**	Pittsfield		2	TG,BHiggins
Black Dash					
Jul	15	Uxbridge		2	RHo
	19	Cape Ann		2	DS,CT
	20	Harvard		5,1	TMu
	27	Milford		5	EN
	29	Cape Ann Harvard		18 3	DS,CT TMu
Aug	2	Northborough		2	SM,BV
Dun Skipper					
Jul	5	Chilmark Pond, Chilmark		1	MPe
	19	SF, Edgartown Quabbin (G45)		55 21	MPe ML,SC
	26	Wachusett Res, Sterling Wellfleet		14 7	TD,CD,MBC TW
	30	Hennessey Property, Grafton		4	WB,WM,EIBa
	30	Dauphinis Park, Grafton		13	WB,WM,EIBa
Aug	3	GBH Harvard Paxton		24 12,10 10	EN TMu EIBa
	5	Whately		8	DSm
	8	Morning Glory, Edgartown		12	MPe
	31	APND		1	EN
Dusted Skipper					
May	30	Florence		15	TG
	31	Foxboro		4	EN
Jun	6	BMBS		3	DPr,BW
	8	Harvard		4	TMu
	10	Sherborn		5	BB
	21	Turner's Falls Airport, Montague Grafton		4 2	EN DPr,WB
	30	Dauphinis Park, Grafton Harvard		1 2	DPr,WB TMu
Pepper and Salt Skipper					
May	19	Harvard		1	TMu
	31	BMBS		4	TMu
Jun	6	IRWS		1	FG
	8	Harvard		4,6	TMu
	16	Royalston		3	CK,MBC
	21	Dauphinis Park, Grafton		1	DPr,WB
	24	E Longmeadow		1	KP
	25	Mt Greylock		2	TG
	29	High Ridge WMA, Gardner		1	ML,SC
Common Roadside-Skipper					
Jul	4	Uxbridge		present	RHo
Brazilian Skipper					
Sep	7**	NCG		1	RCl,SCI
Ocola Skipper					

Aug	27	IRWS	1	LMattuchio
	27	N Common Meadow,Petersham	1	DSm,RCl,SCI
Sep	5	LRA	1	RHi
	11	Florence	1	TG
	17	NCG	1	TG,RP,VaOb
	18	Nahant	1	DSaf
	19	Peabody	1	AG
	20	W Meadows, Northampton	1	TG,EN,TMu
	21	APND	2	TMu,EN
	22	N Common Meadow, Petersham	2	RCl,SCI
	25	Nahant	1	DSaf
	27	Draper Park, Hopedale Peabody	1 1	TD,CD AG
	29	Waring Field, Rockport Newbury	1 1	TMu SS
	30	Concord Cape Ann IRWS	1 1 1	RCl,SCI DS,CT FG
Oct	3	W Meadows, Northampton	2	TG
	5	Northampton	1	SCI
	8	WCG	1	SM,BV
	11	Westport	1	ML,SC

Coming Soon!

The Massachusetts Butterfly Club *Guide to Good
Butterflying Sites in Massachusetts*

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Book Reviews

The Butterflies of the White Mountains of New Hampshire.
Warren J. Kiel. Illustrations by Lois De Luca. The Audubon Society of New Hampshire. 2003. Globe Pequot Press: Guilford, CT. \$19.95.

Reviewed by Sharon Stichter

This is an odd book, born of an uneasy marriage between butterfly collectors and butterfly conservationists. Visually appealing, it is a hardcover, coffee-table style book with heavy paper, albeit a bit small at 8" x 8". It features graceful line drawings and eye-catching photographs, artfully displayed. But just as the reader is settling in for a pleasant experience, the text starts talking about killing butterflies.

The content is the work of lifelong northern New Hampshire collector and para-professional Warren J. Kiel, whose knowledge of the lepidoptera of the area is probably unmatched. The book is dedicated to two other long-time and well-known collectors. At the same time, it is published by the New Hampshire Audubon Society, which presents it in the Preface as an effort to encourage the conservation of the area's butterflies.

Kiel's Introduction includes a predictably long section extolling the joys and adventures of collecting dead butterflies. To make such a view the dominant theme of a book which introduces the general public to a particular region's lepidopteran fauna is quite surprising, and, in this writer's opinion, ill-advised. Equally inexcusable, in this day and age, is Appendix C, in which the New Hampshire Natural Heritage Inventory actually puts out a call for

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amateur lepidopterists to collect and send in specimens of any rare or unusual species. In their own astonishing words, “If you observe or collect a species that is tracked by the state or that you consider to be rare or unusual, please share your information...” The reader is directed to include specimen location, etc., and about photos is told only that these “ will help for some species.” The list of rare butterflies referred to contains 34 species, and except for Karner Blues, Frosted Elfin, and Persius Dusky Wings, no permits are required to collect any of them. This free-for-all approach will surely encourage undisciplined collecting.

The family and species accounts are quite simplified; even for beginners there are certainly more detailed sources available on host plants, broods, flight times and identification. The chief contribution of this section is to give a general indication of each species’ status and abundance in the White Mountain region, and to point to some accessible locations for many species. Butterfly enthusiasts will be grateful to know where to find such specialties as the White Mountain Fritillary, the Green, Hoary and Gray Commas, the Mustard White, Northern Pearly Eye, and Compton Tortoiseshell. Kiel assures us that the famous White Mountain Butterfly (*Oeneis melissa*) is “commonly flushed along the many hiking trails in the Presidential Range.” (See also the article by Erik Nielsen in this issue on some northern New Hampshire specialties in the Pittsburg area, including the three Commas, the Pink-Edged Sulphur, and the Common Branded –or in Kiel’s older term—the Laurentian Skipper.)

More problematic is the giving out of locations for such local or rare species as Bog Copper, Western Pine Elfin, Jutta Arctic, Early Hairstreak, and Satyr Comma (specimen capture gleefully recounted). On the other hand, no locations are given for Harris’

Checkerspot, Baltimore Checkerspot, Silver-bordered Fritillary, or several other species butterflies might want to see.

The collection records referred to in many of the species accounts do yield some interesting information. They document the spread of the Common Ringlet into northern New England in the early 1970's, and the arrival of the Silvery Blue around 1986. They indicate that the Silver-spotted Skipper is found in northern New Hampshire, though less frequently than to the south, and that the Eastern Tiger Swallowtail is also found in the north, though the exact area of range overlap with the Canadian Tiger Swallowtail is not yet known. The fact that Kiel has not, or not recently, been able to "take" specimens of Tawny Crescent, Silvery Checkerspot, or Meadow Fritillary raises the question of whether these species actually still occur in his area.

Buried at the end of the book, after four Appendices and a Bibliography, there is a short and anonymous "Final Note." The gist of it is "Therefore, unless you are able, as Warren Kiel is, to contribute scientific information to the study of butterflies, we exhort you to observe these beautiful creatures in their habitat and do not collect or in any way disturb them." Finally, a compelling statement for conservation, which one would have expected in the Introduction rather than as an afterthought.

Visit the MBC website: <http://www.massbutterflies.org>

Butterflies Across Cape Cod; A Guide To Finding, Attracting and Observing Butterflies On the Cape. By Mark J. Mello and Tor Hansen. Cape Cod Museum of Natural History & Lloyd Center for Environmental Studies. John Hay Institute Publication No. 1. January 2004. 114 pages. Bibliography, Appendix of Latin names, index. \$19.95.

Reviewed by Alison Robb

The first butterfly guide for Cape Cod is truly a guide -- a guide to the species and to many sites. There is a section on basic understanding of the anatomy and life cycles of butterflies and their host plants, as well as information and education on butterfly conservation. Thirteen fine line drawings by Tor Hansen illustrate this section.

The preface is by John Hay, noted naturalist, writer and first director of the Cape Cod Museum of Natural History.

Each of the 76 species known as residents or common immigrants to Cape Cod is represented with its very carefully described appearance, its habits, range, habitat, and specific sites on Cape Cod, food plants and flight periods. On 16 plates are color photographs of live insects in the field, the majority of which were taken by Tor Hansen, naturalist, photographer, illustrator. There is a key to families and subfamilies of butterflies.

Then follows a section about habitats -- wetlands, grasslands, old fields, Scrub Oak barrens -- illustrating the host and food plants of each. Unique to this guide is the section which lists and fully describes twenty-three particular sites on the Cape, the habitats within, and the butterflies to be found there. Explicit directions are given to each site. They are sited on a map of Cape Cod.

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This is one section which sets this guide apart from others. Should I decide to visit Evans Field in Provincetown, I find a description of the habitat -- a wet meadow with wild cranberry bog on the west side nurturing the Bog Copper, wetland/woods edge where the Appalachian Brown is found. Other less common species are the Striped Hairstreak, Silver-bordered Fritillary and Brown and Pine Elfins in season. Directions and access information follow.

Should I be looking for a site in Barnstable, I might choose to visit the Cape Cod Airport at Marstons Mills, which provides ideal grassland habitat and woodland fringe for a wide range of butterflies. "Over thirty-five species have been seen by the authors at the this site, a remarkably high number for a single site on Cape Cod."

The importance of butterflies to the web of life as pollinators and as a food source of most of our neo-tropical migrant birds is emphasized by both authors. The index contains all references to butterfly and plant common and Latin names as well as site localities, morphological definitions, and organizations.

Author Mark J. Mello was attracted to moths at the age of six when he observed the emergence of a *Cecropia* from its cocoon. His attention has hardly strayed except to include butterflies in his studies, and the coastal ecology of Cape Cod. He earned a Master's of Science in Zoology at the University of Maryland, and is currently Director of Research at the Lloyd Center for Environmental Studies in Dartmouth, Massachusetts.

Tor Hansen studied butterflies and moths at an equally early age and all through his youth. He majored in Zoology at the University of Arizona and earned a Master of Fine Arts from the City University of New York. He is a biology illustrator and artist, gives lectures on butterfly ecology and evolutionary biology, and

leads field walks for several organizations including the Cape Cod Museum of Natural History.

This little book is well designed for carrying in the field, about 6" x 8" with a spiral binding. It is available at the Cape Cod Museum of Natural History, 869 Route 6A, Brewster, MA 02631, 508-896-3867, www.ccmnh.org. The Museum plans a program of butterfly classes and field trips this coming season, as does Nature's Circle in Falmouth, with this guide as a welcome basis of study and information and with the authors.

Highly recommended. Come to the Cape to enjoy it.

Check out the Checklist

The *Checklist of the Butterflies of Massachusetts* is based on over 19,000 records from members of NABA-MBC, from 1990 to 1998. The checklist, produced by the NABA-MBC Records Keeper, Tom Dodd, features

- charts of flight periods
- relative abundance indication for both the western and eastern parts of the state
- and the maximum number recorded at any one time in the state

for 95 of the approximately 125 species of butterflies that have been sighted in Massachusetts. Printed on heavy stock, this is a valuable document for both the beginning and advanced butterflyer.

Checklists are available from Sharon Stichter at the address on the inside front cover. Please send a letter-size SASE and \$1 for each checklist.

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Site Guide to Manuel Correllus State Forest, Martha's Vineyard

by Matt Pelikan

Occupying about 5,000 acres in the middle of the island of Martha's Vineyard, Manuel F. Correllus State Forest (MFCSF) is one of the Bay State's ecological treasures. A cast of extraordinary plants, and the insects associated with them, flourishes here — hardy species all, adapted to demanding conditions. The forest's sterile, glacial outwash soils are pounded (and sometimes salt-sprayed) by coastal storms; as recently as the 1930s, the island's central and southern plains were swept by wildfires that, in the worst year, incinerated a third of the island's area. "Frost bottoms," remnant valleys of glacial meltwater streams, concentrate dense, cold air and can experience frost in any month (in 2003, scrub oaks in Deep Bottom still weren't fully leafed out for the Vineyard's mid-July "4JBC").

The result is a unique patchwork of natural communities. No Massachusetts butterflies breed only on the Vineyard, but some species, elusive elsewhere, are dominant residents here. You'll miss some familiar species in MFCSF (and elsewhere on the Vineyard), such as Little Glassywing and any sort of fritillary, but habitats in MFCSF will call to mind both high-elevation or northern sites (blueberry, bearberry, Hoary Elfins) as well as southern ones (pitch pine, oaks, Sleepy Duskywings). The indestructible scrub oak dominates much of the state forest and is the host for Edwards' Hairstreaks, which are common. Native grasses feed the larvae of Leonard's and Cobweb Skippers, while bush-clovers probably account for the good supply of Gray Hairstreaks (often present as early as mid-April) and Eastern Tailed Blues.

At least portions of the forest are productive at any point in the season, but in general the best times to visit here are probably late April through mid-May (elfins, azures, duskywings, Cobweb Skipper) and late summer (Leonard's Skipper, southern immigrants, and second or third flights of coppers, tailed blues, Pearl Crescents, and skippers). Access is possible from any of the Vineyard towns or ferry docks via public transportation (Vineyard Transit Authority, 508/693-4633 or www.vineyardtransit.com), and the island's many taxi companies will drop you off and return at an arranged pick-up time. But visiting observers will appreciate the mobility afforded by a car. Access to MFCSF is free and decidedly informal. Much of the forest is bordered by main road; simply pull your car all the way off the pavement and walk in. A few entry points have more formal parking. There are no restrooms or other public facilities, but the terminal building at Dukes County Airport has restrooms and a restaurant, and West Tisbury, a short drive from the southwestern portion of the state forest, has a general store.

Butterfly watching in the MFCSF centers on the following main areas, marked on the map below:

- 1.) The grid-work of fire lanes. Access by foot is via numerous gates along Barnes Road, Old County Road, and the Edgartown-West Tisbury Road; park entirely off the pavement and do not block the gates. If you have a bike or don't mind a hike, the network of lanes can also be entered from the paved bike path that forms the forest's northern boundary. Periodic mowing maintains these lanes in a very early successional state, and a fine mix of typical sandplain grasses, wildflowers, and shrubs flourishes here. The fire lanes, lined in places by mats of bearberry, are the place to find Hoary Elfins, common from late April through mid-May. Brown and Eastern Pine Elfins are also common, usually on or near flowering blueberry or bearberry, and Frosted Elfin, rare on the Vineyard, is possible during the second half of May. Oaks, the

dominant tree type in the state forest as on most of the rest of the island, host Juvenal's (often abundant) and Sleepy (common) Duskywings (the flight of the latter usually peaks in the second week of May, when seeing a dozen in a day isn't surprising). By mid-May, many other species are on the wing, including our earliest grass-skipper, Cobweb Skipper, which can be quite numerous along the lanes. In July, the many sections of fire lane that pass through scrub oak shrub-land are a good place to look for Edwards' Hairstreak (the species is usually numerous but patchily distributed here). Leonard's Skipper is usually distributed along the lanes by early September.

Productivity of a given fire lane varies from year to year, with recently mown sections usually the least interesting. Over recent years, the best lanes have been one heading east from Barnes Road across from the Airport Business Park (marked by a sign for a Mobil station) (1A on the map below), and one heading north from the West Tisbury Road immediately west of the valley known as Deep Bottom. (1B on the map below). In cool or damp weather (the norm, not the exception, for a Vineyard spring), north-south lanes often have more sun and better shelter (and more, or at least more active, butterflies) than east-west ones. But on a given day, any lane can be good, and visiting several or planning a walk that covers a circuit will increase your odds of encountering good numbers of butterflies.

2.) A savanna (mostly cleared, but retaining some mature trees) along Barnes Road, about a quarter-mile north of the edge of the county airport (Area 2 on the map below). The area doubles as a frisbee golf course. This is a highly uneven site, producing few butterflies on its many bad days but enough on its good ones to make it worth checking. Late summer and fall, when goldenrod and then asters attract nymphalids, may be the most productive season. But milkweeds can attract Gray or Coral Hairstreaks and various skippers (especially Dun) in July, and Northern

Cloudywing can often be found here in June. Common Buckeye is often present in September, when Painted Lady and Cloudless Sulphur are also possible. This site produced the Vineyard's first Oak Hairstreak on July 2, 1998, and Frosted Elfin and White-M Hairstreak have been found along the east-west fire lane a scant quarter-mile to the north. A trail heading into a stand of planted red pines from the western end of the savanna takes you through a grassy area (Dusted Skipper is possible in late spring) to the above-mentioned fire lane; head east along the lane, then south on the paved bike path paralleling Barnes Road to make a circuit a mile or so in length.

3.) What I call the "Headquarters Field" (Area 3 on the map below), accessed by walking east along a dirt road from the headquarters area. Artificially cleared, the field supports a mix of native and introduced species; thistle and butterfly-weed are the most productive nectar sources, attracting a nice mix of lycaenids and skippers. Crossline Skipper is usually easy to find here in July (though it can be hard to tell from the Tawny-edged Skippers that will likely be present as well), and this is also a good location for Edwards' Hairstreak.

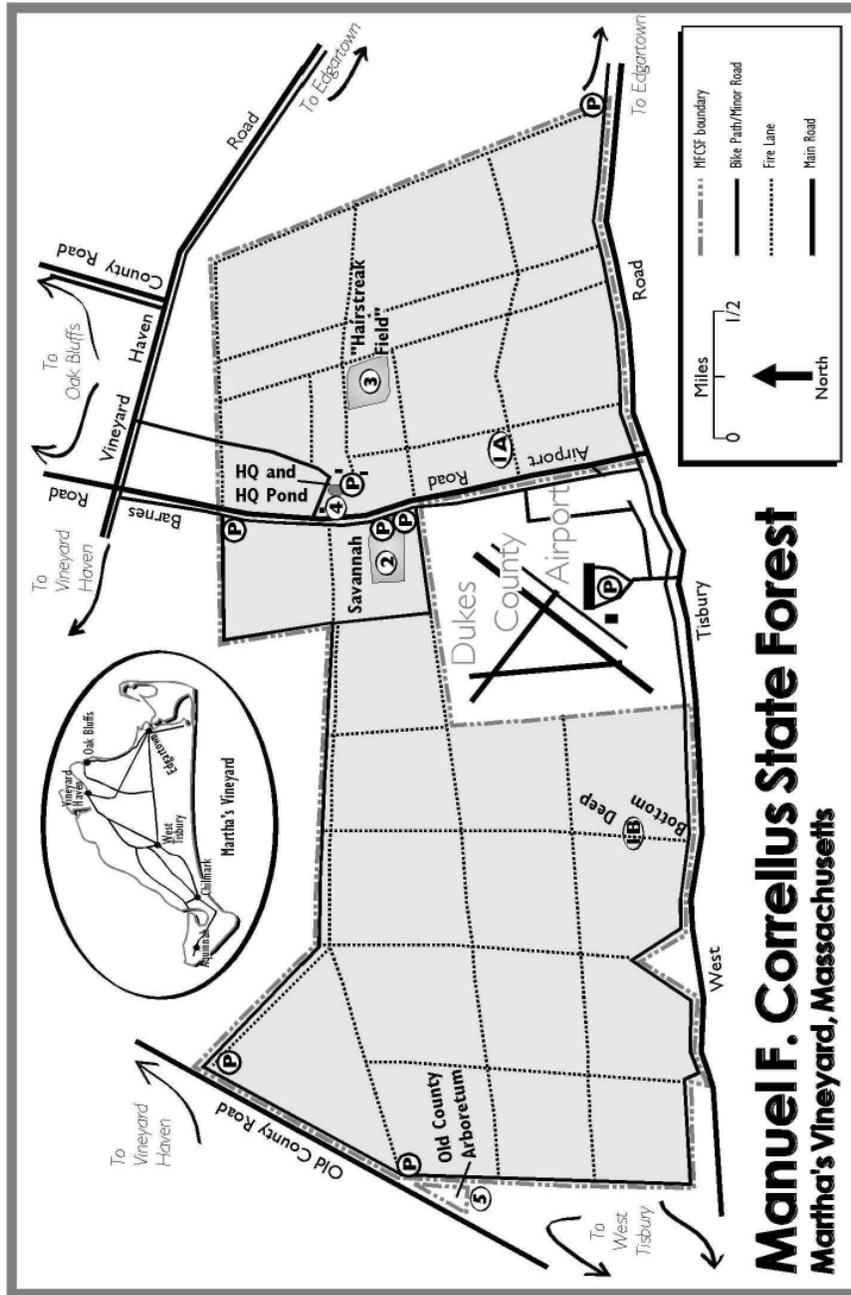
4.) A small pond near the park headquarters represents the only surface water in the forest. (Area 4 on the map.) A magnificent stand of common milkweed between the pond and the headquarters building can be outstanding for July skippers, with a half-dozen species and a score or more individuals often present; Long Dash (in June) and Dun Skipper (in July) are typically among the most numerous. More milkweed flourishes nearby at the deer check station — the run-down structure next to Barnes Road.

5.) The Old County Arboretum, with its own parking area, is across Old County Road from the West Tisbury School (Area 5 on the map). This 2.5-acre triangular patch is not technically part of the state forest (it is owned by the Martha's Vineyard Land Bank). But is ecologically continuous with the forest and falls within the

forest's natural outline. Legumes abound here, especially bush-clovers (*Lespedeza*, several species) and trefoil (*Desmodium*). These serve as host plants for the Gray Hairstreaks (common) and Eastern Tailed Blues (sometimes abundant) that breed here; Northern and Southern Cloudywing, species that are, perhaps surprisingly, quite scarce on the Vineyard, fly here together in the late spring and early summer. This is the best location on the island for Dusted Skipper, uncommon on the Vineyard, and a clump of aspen trees near the parking area has held Dreamy Duskywing (positively rare here). In recent years, Edwards' Hairstreaks have been reliably found at this site.

Species List

Eastern Tiger Swallowtail (U), Spicebush Swallowtail (U), Cabbage White (C), Clouded Sulphur (U), Orange Sulphur (U), Cloudless Sulphur (R), American Copper (C), Coral Hairstreak (U), Edwards' Hairstreak (C-A), Oak Hairstreak (R), Brown Elfin (C-A), Hoary Elfin (C), Eastern Pine Elfin (C), White-M Hairstreak (R), Gray Hairstreak (U-C), Eastern Tailed Blue (C-A), Spring Azure (A), Cherry-gall Azure (C), Pearl Crescent (A), Question Mark (U), Mourning Cloak (U), American Lady (C), Painted Lady (R-U), Red Admiral (U), Common Buckeye (R-U), Red-spotted Purple (C), Little Wood-Satyr (A), Common Ringlet (R), Common Wood Nymph (C), Monarch (U-C), Silver-spotted Skipper (U), Southern Cloudywing (R), Northern Cloudywing (U), Dreamy Duskywing (R), Sleepy Duskywing (C), Juvenal's Duskywing (A), Horace's Duskywing (R), Wild Indigo Duskywing (U-C), Least Skipper (C), European Skipper (U), Leonard's Skipper (C), Cobweb Skipper (C), Indian Skipper (R), Peck's Skipper (U-C), Tawny-edged Skipper (C), Crossline Skipper (U-C), Long Dash (C), Northern Broken-Dash (C), Hobomok Skipper (U), Dun Skipper (A), Dusted Skipper (U).



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Submission of Articles, Illustrations, and Season Records

We encourage all members to contribute to *Massachusetts Butterflies*.

Articles, illustrations, descriptions of butterfly sites, garden reports, and book reviews are welcome and should be sent to the Editor by September 15 for the Fall issue, and January 15 for the Spring issue.

Send Fourth of July count results to Tom Dodd by August 1 for inclusion in the Fall issue, and your season sightings and records to Tom by December 1 for inclusion in the Spring issue. Sending your records periodically during the season will make data entry an easier task.

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