

Massachusetts Butterflies



Spring 2005, No. 24

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Cover photo: Red-bordered Pixie (Melanis pixe), Tom Murray, Edinburg, Texas, October 2004.

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Sixth Biennial NABA Meeting, 2004 Mission, Texas

by Carl Kamp

The four-day North American Butterfly Association (NABA) conference began on Thursday, October 21, 2004 with the dedication of the Woodland Edge Garden at the new NABA International Butterfly Park (IBP). Registration and sign ups for the Friday, Saturday, and Sunday field trips and workshops were held in the afternoon. As we arrived at the Cimarron Country Club, unseasonably warm temperatures hovered around 100 degrees with breezy mostly sunny conditions. Dreams of butterflies danced in our heads.

NABA President Jeffrey Glassberg recognized the 22-strong Massachusetts Butterfly Club contingent in his opening remarks at the evening program, where he gave a presentation focusing on Rio Grande Valley butterflies. Overall attendance at the conference was over 200, and showed a 30% increase over previous years. Massachusetts members and associates present included Elise Barry, Bill Benner, Bruce Callahan, Ron and Sue Cloutier, Tom Gagnon, Beth Herr, Alyce Mayo, Steve Moore, Tom Murray, Elaine Pourinski, Tom and Joyce Prince, Dave Small, Joe and Sharon Stichter, Barbara Volkle, Barbara Walker, Joe Wicinski, Nancy Young, myself,---and special guest Gail Howe.

Although Friday started out a little overcast, it was a good way to start a beautiful day of butterflying at the Santa Ana National Wildlife Refuge, which was our first scheduled field trip. There were three groups of a dozen or so people at Santa Ana, and about fifteen other tours to six different areas in the Valley.



The Massachusetts contingent at the NABA Meeting, 10/04

Back Row: Tom Murray, Elise Barry, Gail Howe, Barbara Walker, Tom Prince, Ron Cloutier, Bill Benner, Steve Moore, Joe Stichter

Middle Row: Joyce Prince, Elaine Pourinski, Nancy Young, Sue Cloutier, Alyce Mayo, Beth Herr, Tom Gagnon, Bruce Callahan, Joe Wicinski

Front Row: Barbara Volkle, Sharon Stichter, Carl Kamp, Dave Small

The gardens next to the headquarters building yielded great butterflies and there were good numbers flying all day. Leader Dave Hansen was quick with identifications and spotting as we logged almost 60 species for the day. Although an area veteran, Dave was excited about rarities like Fritzgaertner's Flat (see photo), Red Rim, and Mexican Bluewing. We were excited about those and just about everything else. Eupatorium was the most widespread nectar source, and American Snouts were literally everywhere, while some of the more widely seen species included Southern Dogface, Large Orange and Lyside Sulphur, Zebra Longwing, Tawny Emperor, and Queen.

We started in the small garden area beside the main visitor center where we started to learn to distinguish Fatal, Rounded, and Red-bordered Metalmarks. Later in the day we also discovered the infrequently seen Blue Metalmark. The one we saw was a female and had only a hint of blue on the upper wing surfaces. We quickly had 25 species when we headed south on one of the trails. Shortly we came into American Snout country where thousands of these unique-looking butterflies had a stronghold on this particular area of the path.

Paying the price for lingering behind the group taking photos, I only heard the shouts of the group ahead as they watched a five-foot long Indigo Snake chase several rodents in the branches of a tree. Thanks to the world of digital photography I got to see this striking reptile on the viewing screen of another member's camera.

A Red Rim was spotted and was dramatic for both its beauty and rarity (see photo). Bright red spots along the hind wing on an otherwise black body give this large nymphalid its moniker in the tropical brushfoot family. Another outbreak of shouting brought our attention to another of the trip's highlights: a Mexican



the famous Fritzgaertner's Flat,
photo, Tom Murray



Red Rim,
photo, Dave Small



Jade Beamer, Mexico,
photo, Tom Murray



Guava Skipper,
photo, Tom Murray

Bluewing which appeared out of nowhere, almost disappeared from sight when it landed upside down on a branch, and became almost invisible when it closed its wings. It landed near several similar-sized Tawny Emperors which were attracted to the same tree trunk. The Mexican Bluewing's unusual shade of blue and black stripes made this lady-size butterfly a hit with everyone and the logical choice for the logo on the conference t-shirt.

Unable to sit still during a snack break, I caught sight of a medium-sized orange butterfly which turned out to be two Tailed Orange butterflies showing their characteristic pointed hind wing edge shape. Loud voices again jolted the silence and, again, with good reason, as someone spotted what was the only Malachite we saw in Texas. As it perched on a tree trunk, we watched as backlit sunlight made striking changes on the greens, browns and black markings. It was "a feast for the eyes" in Kaufman's words.

Saturday dawned sunny and warm, although happily the temperature was noticeably lower than the previous day. We joined Dave Small, Sue and Ron Cloutier, and Tom Murray at Mission locations like the new International Butterfly Park (IBP), Chihuahua woods, the leader's house, the downtown gardens Lucy 1 and Lucy 2, and Bentsen State Park. Highlights that day included the Silver-banded Hairstreak, the Guava Skipper, and a Silver Emperor and Clytie Ministreak.

We began the day southwest of Mission at the IBP. Butterfly activity was at a fairly slow pace as we watched the sun warm up the flight muscles of the many butterflies at the park. As at many places we visited, Queens were the most abundant butterfly and groups of 20-30 butterflies closely nectaring were a frequent sight. Our leader Jim Booker led us around the grounds which were quickly being converted to a substantial butterfly garden. A



Ron, Sue and Tom at the airport



Dave Small at Santa Ana

Goatweed Leafwing was spotted in some dense trees. It was easy to spot when we saw the red on its upper wing surfaces, but it quickly became almost invisible when it landed with folded wings, virtually disappearing among the branches.

Walking along train tracks at the Chihuahua woods we were treated to good views of a Silver Emperor as it provided long poses for pictures in the shrubs along the tracks. At the next stop the Guava Skipper quickly became the day's highlight as we watched at least three along a stretch of shrubbery in a trailer park picked by our leader. Dramatic shades of blue accented by white stripes and red jewel inlay dots on the forewing made this one a standout (see photo). A Dorantes Skipper had also chosen this stretch of habitation for the morning.

Next we visited Jim Booker's yard where a bird-turned-butterfly feeder had attracted a number of Tawny Emperors and another Goatweed Leafwing. Thanks to Tom Murray's very sharp powers of observation we also found an Empress Leilia which had been overlooked as just another of the common Tawny Emperors. Less dramatic and harder to identify but important for its singularity was another of Jim's yard butterflies, the Mazans Scallopwing.

Thanks to selective plantings of butterfly- attractive plants there were two tiny butterfly parks amongst the large expanses of tar and concrete streets and buildings in downtown Mission. The first Monarch of the trip was nectaring here along with look-alike Queens and Soldiers. Again thanks to Tom's watchful eyes, my lunch was interrupted, and I was rewarded with my first looks at a Silver-banded Hairstreak. For me this was another of the trip breath-takers. A relative of the more aptly named Greenstreak family this diminutive bug was a showstopper with silver bands intersecting the fore and hind upper green wings.



Steve Moore at Santa Ana



Tom and Joyce Prince

The last official stop of the day was the home of one of the local members who had created a spectacular butterfly garden on a minimum sized house lot. The small grassless (!) front yard provided our first and only looks at Funereal and Horace's Duskywings, while the back and side lots were productive for our first Clytie Ministreak. Similar in size to an American Copper, this butterfly had a red spot pattern on the blue grey background which was another showstopper, and to add to the enjoyment it was sharing a bush with yet another Silver-banded Hairstreak. The very rare Starred Skipper which had been seen here the previous day was not willing to make another appearance.

Left to our own devices we headed for Bentsen State park where green jays greeted us at the entrance. At the boat ramp bird blind, strategically placed fruits had attracted a Goatweed Leafwing and our first and only Spot-celled Sister. Near the entrance it was dedication day for a new park and among the plantings we turned up a Violet-banded Skipper to close another very productive and pleasurable butterfly day. Since many of us have birding backgrounds, it was also great to see the daily afternoon congregation of 50-100 Scissor-tailed Flycatchers sitting on the roadside telephone wires on the way back to the hotel.

Sunday we were part of a group that included Dave, Sue, Ron, Tom Murray, Elise, Barbara, Gail, Beth, Sharon, Joe, myself and Alyce. It was another beautiful day as we headed east about 20 miles to the Weslaco sites. Trip leader Richard Lehman, who would also be leading in Mexico, took us to the Valley Nature Center, a nearby private residence, and the Frontera Audubon grounds. At the Valley Nature Center we were unable to locate the Grey Cracker that a group which included Tom Gagnon, Bruce, Nancy, and Elaine had found the previous day, but we did turn up



Tom Murray



Butterfly Feeder with Red Rim

some new area specialties, including a Red Rim that was well seen as it visited one of the many butterfly feeders hanging around the park. These attractive and naturalistic feeders had a 1/2" by 1/2" channel cut into a 14" by 11/2" branch, and were hung by a chain from both ends (see photo). The trough was then filled with a beer and banana concoction.

Crimson Patches were new for the trip and were mostly seen along the woodland trails flying in the dappled sunlight, where a mating pair was joined by a third interested party. Richard explained that during mating the male transfers up to 25% of his body weight to the female. Bordered Patches were also seen mating and were joined by a Western Pygmy-Blue, Mallow and Lantana Scrub-Hairstreaks, and a Great Southern White. Around these grounds and nearby areas, Richard Lehman has been a leader in restoring natural habitat to areas which were overgrown with invasive plants or citrus crops. He has been instrumental in similar natural reconstruction at Frontera Audubon and at the butterfly garden at the World Birding Center in nearby Edinburg, which many participants visited.

As we drove back to the hotel for some rest before heading off to Mexico, I reflected on what a wonderful conference it had been and how much all of us from Massachusetts had learned. For those who missed this trip, and for those who didn't but want to go back, all is not lost. The 10th annual Texas Butterfly Festival will be held in October 2005, and it offers guided field trips to many of the same U.S. locations as the NABA event. And, it's not too early to start planning for the 7th biennial NABA Members Meeting in 2006, expected to be held in Southern California.

The Monterrey, Mexico Extension

by Carl Kamp

About 60 NABA conference participants, including ten from the Massachusetts group, took the two-day extension trip into Mexico, October 25-26, 2004. We left at 6:30 a.m. on two busses, crossed the border and headed west southwest to Monterrey, Mexico's third largest city. We drove directly to a gated community named "La Mission" on the edge of Monterrey. Two local butterflyers who had helped with the September 16th Mexico Independence Day counts joined us. Jeff Glassberg led one group and Lizee Cavazos led another group. It was exciting from start to finish, and with 120 species seen during the day there were many highlights.

We had a lunch before driving to the outer edge of the upscale development that was built around an 18-hole golf course. The grounds were a butterfly bonanza with the often maligned skipper taking on a whole new meaning. Elfs, and Brown Crescents were common as we walked along and Lizzie yelled to point out a cracker species that would only give us a fleeting glance. Crackers get their name from the sound they are able to emit in flight usually during territorial disputes.

Taking a left onto an overgrown road we watched Square-tipped Crescents that looked more like heliconians with dark brown lines across an orange ground color. Show-stopping green and black Malachites shared these nectar sources with Ruby-spotted Swallowtails, Giant Swallowtails, and Crimson, Bordered, and Rosita Patches among others. The patch family gets its name from the large patch of color on a mostly black hind wing. An occasional American Lady or Pearl Crescent brought us back to

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reality with memories of the chilly weather we left in Massachusetts.

Common Banners often circled us as we walked, and seemed right at home on the shirts and hats of the group, attracted by the salts our sweat produced in the 80-85 degree sunshine. Diminutive, aptly named Elfs sported a black and yellow pattern. Even smaller were the Cassius and Marine Blues that were often overshadowed by the flashy large nymphalids but delightful to the eyes when seen through binoculars.

Along a path up to one of the golf tees, I started to cry for help when my eyes spotted an iridescent blue spreadwing skipper. Similar in shape to the equally arresting Guava Skipper we had seen in Texas, the Jade Beamer, (Rainbow Skipper) quickly drew an adoring crowd. We stared at this little beauty as the iridescent scaling changed from blue to green before our eyes. Sharing the golf tee with the golfers we had good photo opportunities of another more subtly patterned Pale Sickle-winged Skipper and a Curve-winged Metalmark. With its distinctive shape the Curve-winged was the easiest metalmark to id among an otherwise challenging group.

Identifying Mexican butterflies was a challenge. Besides our knowledgeable guides, we used Brock and Kaufman's *Butterflies of North America* and the photos-only *Butterflies of Mexico* book by the guides on the other bus, Kim Garwood and Richard Lehman. Jeff Glassberg was putting the final touches on his new *Butterflies through Binoculars: Mexico* book, which is due out in 2005. The books didn't help identify one medium-sized butterfly that stumped everyone. The Blomfild's Beauty was another highlight of the day which almost slipped under the radar because the book showed it only in its typical folded wing pose.

A walking stick captured my attention with its unmistakable 4” stick-like body, long green legs and equally long golden antennae. Four or five Common Banners and Elfs were dining on some scat when a small black butterfly landed among them. Lizee called for photographers when she recognized the Black Hairstreak as one of the missing pieces in the *Butterflies of Mexico* book. Already on their third printing, the authors plan to release a more complete book to replace the currently out-of-print edition.

We drove back to the city for the evening’s stay at the beautifully restored 100-year-old Plaza Gran Hotel Ancira, The dining festivities included a little dancing to a *mariachi* band, as well as counting and sharing butterfly tales with the NABA members who visited the sites we would visit the next day.. The sun sets early behind the mountains surrounding Monterrey and its 6 million people, and while we watched the sun disappear, a near full moon rose in the still balmy air.

The typical morning fog and clouds welcomed another day as we drove to the Parque de Estanzuela on the western outskirts of town. We were lucky to have Jeff Glassberg in our party to do some behind-the-scenes negotiating to gain entrance into the park, which is usually closed on Mondays and Tuesdays. The weather stayed overcast most of the day but butterflies were still plentiful and less active than on sunnier days. It was a mixed blessing for photographers, since the longer poses were offset by the lack of illumination.

In a year when Monarchs were nearly absent in the northeast, we could see good numbers migrating in a southerly direction and heard the locals describe thousands spending the night in the park weighing down the branches as they do at the wintering sites outside Mexico City in the central section of the country. We drove

and walked up the park road where it ended at an open garden area with views looking out over the valley.

Mexican Dartwhite, Reakirt's blue, Ardent, Vesta, and Phaon Crescent, Band-celled Sister, Blue-eyed Sailor, Stalling's Flat, Mazans Scallopwing, and East-Mexican White-skipper, were some of the species added to our Mexico list. The Mexican Dartwhite was noteworthy for me because I could finally name a butterfly I had photographed while visiting the wintering Monarch roosts in 2000. The Band-celled Sister joined the complex of Sisters and look-alike emperors that we saw on the trip.

A stream poured down the park hills and occasionally crossed under the road. One of these bridge stops was especially good for the butterflies. Red Rims were continually perched in a particular small tree along the stream. A puddling population of a delightful black and yellow day-flying moth numbered in the 100's and flew up in a cloud when anyone approached.

I was lingering behind our group trying to document a Spike/Sharp banded-skipper when one of the local ladies who were helping with trip shouted from about 100 yards referencing a Blue-eyed Sailor. After passing the information along, I hurried and some of us ran back to the Red Rim tree and were treated to the new trip species albeit a bit obscured in the branches. I suspect it was there when we went by the first time. A Silver Emperor was very accommodating picking up nutrients from the road in front of the lunch time crowd. I was amazed when I saw pictures later which captured the iridescent blue sheen over the hindwing's white stripe (photo below).

A small frog perched motionless on the railing of a bridge as we crossed and was still in the same spot when we returned from the

end of the trail. In the trail's end fields we had seen a Reakirt's Blue, a pair of mating Telesus Longwings, and two Hieroglyphic Moths that looked like a tiny light brown mummy covered with black hieroglyphic looking markings. It looked more like a pupa and I'm still not sure which end was up.

Finally Jeff called it a day and started back to the bus, but was interrupted just long enough to identify and get good looks at an East-Mexican White-skipper and a somewhat fleeting glance at a Banded Orange Heliconian. Lizee's group had seen the Atala look-a-like, a Mexican Cycadian, and we searched in vain to find it again near where the bus was waiting. On the slow ride down the park road she also spotted a Magnificent (Abderus) Swallowtail--- giving us at least two more reasons to plan another trip to visit the butterflies of Monterrey, Mexico.



Silver Emperor, Mexico
photo, Tom Murray

Coming in April, 2005:

*The MBC Guide
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From the Berkshires to the Cape and Islands, this Site Guide will lead you through twenty-six of the best butterflying locations in the state. Written by Massachusetts Butterfly Club field experts, this spiral-bound book describes each site in detail, with original trail maps, sighting lists, directions, and hot tips.

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Monarchs by the Numbers: Data on the 2004 Migration in the East

by Tom Whelan

Many Massachusetts butterfly observers noted small numbers of Monarchs in 2004. How poor was the Monarch migration last year compared to previous years? There are two studies that measure the numbers of migrating Monarchs on the East Coast. One is the Monarch Monitoring Project at Cape May Bird Observatory in New Jersey; the other is the Monarch Monitoring Project at Chincoteague National Wildlife Refuge in Virginia. Both projects have Dr. Lincoln Brower as a collaborator, both use similar methods for collecting data, and both publish results on the Web. The two projects give us a measure of the 2004 migration on the East Coast compared to other years. At the end of this note, I'll mention an observation from Northern Mexico that indicates there were much greater numbers of Monarchs elsewhere in North America last fall.

Dick Walton directs the Cape May Monarch Monitoring Project. Observers for the project make a tour by automobile three times a day over a prescribed route and note the number of migrating Monarchs. The summary table for the study on the web (reproduced on the next page) gives a cumulative average of Monarchs per hour for each of the eight weeks the project collects data.

Week	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
1	7.52	11.95	95.96	43.30	9.08	184.49	2.85	23.35	2.44	23.39	6.74	24.85	5.53
2	10.94	12.25	155.29	35.11	6.66	125.12	28.68	17.12	2.87	32.82	24.84	19.19	4.37
3	12.13	41.65	143.49	28.86	52.29	155.55	20.56	106.07	12.20	44.49	37.41	14.37	5.99
4	12.95	67.83	123.57	27.22	58.99	173.27	38.95	181.11	37.90	66.64	45.48	12.17	7.41
5	11.89	82.03	128.63	26.95	73.17	152.96	50.66	463.49	41.10	91.46	38.12	25.45	9.21
6	12.26	80.60	108.87	26.87	69.10	140.47	49.95	475.09	37.25	85.25	37.48	44.23	10.48
7	12.66	71.77	95.34	28.78	66.42	129.10	53.50	409.10	34.00	82.99	34.82	51.17	9.98
8	11.17	65.49	91.44	27.41	63.04	114.00	51.00	357.75	30.85	81.38	33.77	47.46	9.00
Final	10.41	62.88	84.95	25.89	58.91	106.61	46.82	328.56	28.61	75.84	31.42	44.50	8.45

CAPE MAY POINT ROAD CENSUS, 1992-2004:
Cumulative Weekly Averages, Monarchs per Hour

Week one is the first week of September, and the week eight is the last week in October. Because these are cumulative averages, you do not see the average hourly rate for that week in a row. The average hourly number for week six in 2004 is the average of all observations in weeks one through six in 2004. The actual number of Monarchs for a given week may be higher or lower. Even if the actual peak hourly numbers are different, 2004 hourly rates for Cape May are generally the lowest week for week. The final average for 2004 is the lowest for the whole study. The average hourly rate in 2004 (8.45) is easily four or five times less than most years and less than a tenth of the rate in peak years such as 1997. 1992 (10.41) is the only year with as low a rate.

Denise Gibbs directs the Chincoteague study. It spans four weeks of observation, from the last two weeks in September to the first two weeks in October. Like the Cape May study, observers tally Monarchs from a car three times a day, taking the same route each time. The Chincoteague study publishes raw daily observations for 2004 as well as weekly averages. The averages in the following table for the Chincoteague study are not cumulative; they are averages for each week of observations:

CHINCOTEAGUE NWR ROAD CENSUS 1997-2004
Monarchs Observed per Hour

Week	1997	1998	1999	2000	2001	2002	2003	2004
3rd wk Sept.	40	0	728*	3	34	49	**	2
4 th wk Sept.	61	47	162	72	62	14	2	1

1st wk Oct.	92	86	411	13	276	11	246	18
2nd wk Oct.	47	39	89	197	275	20	39	112
Season average	60	44	243	71	162	25	96	33

*based on three days' samples **not sampled this year

2002 is the year with the lowest rate in this study, not 2004. The raw 2004 Chincoteague data shows the full range of variation of daily observations. In September, some days there were no Monarchs observed at all, but for three days in the second week in October, there was an average of 246 an hour on one day, then 276 the next day, and then 180 Monarchs an hour on a third day. (See the link below for the complete data.) Those are comforting numbers to those of us who saw only a handful of Monarchs in all of 2004.

There are reports from northern Mexico that give additional comfort. Dr. William Calvert reports a spectacular migration there in October (see website reference below). "There were a million butterflies in the air," he exclaimed. "It was just absolutely phenomenal. The sky was pure butterfly!"

What is the reason for the poor showing of Monarchs in the east last year? I won't speculate about the causes, but there are some facts to consider. First, there was another disastrous winter in the overwintering grounds in Mexico. Many Monarchs died in a freezing rain in January of 2004. Second, many members of the Massachusetts Butterfly Club reported small numbers of arriving

(breeding) Monarchs in summer 2004, perhaps as a consequence of the winter in Mexico. Third, the Cape May and Chincoteague studies document small numbers of returning Monarchs from the east. However, the “million” Monarchs Calvert observed indicate that at least part of the population rebounded, likely Monarchs from the Great Plains. The real question is why the reproductive journey north of the Monarchs in the east was so unsuccessful. That question may have a complicated answer.

There will be a Monarch Symposium in Pacific Grove, California on March 1-2, 2005 where Orley (Chip) Taylor, Lincoln Brower, Karen S. Oberhauser, Robert M. Pyle, and others will speak. Taylor, Pyle, and others will talk about migration. Perhaps an answer will come to light at the symposium---or at least a few more data points.

References:

Chincoteague Monarch Monitoring Project:

<http://users.erols.com/robgibbs/monarch/>

Cape May Monarch Monitoring Project:

<http://www.concord.org/%7edick/mmp02.html>

William Calvert, quoted in “A Million Monarchs Fill the Sky”:

<http://www.learner.org/jnorth/fall2004/monarch/Update102204.html>

Monarch Symposium (in conjunction with the Pacific Branch of the Entomological Society of America), see:

<http://www.pbasa.prosser.wsu.edu/>

<http://www.monarchwatch.org/update/2005/0114.html#5>

Winter conditions in Mexico 2004:

<http://www.monarchwatch.org/update/2004/0216.html>

<http://www.monarchwatch.org/update/2004/0318.html>

Monarch Sightings, Massachusetts Hawk Watch Sites, 2003 and 2004

by Sharon Stichter

A number of hawk watch efforts are held each fall in Massachusetts, sponsored by North East Hawk Watch and the Hawk Migration Association of North America. The two which log the greatest number of days in the field, and thus have the most useful series of observations, are held at Barre Falls (a south-facing field in Barre overlooking the Ware River), where the official counter is Barton D. Kamp, and Blueberry Hill, in Granville, where the official counter is John Weeks. In addition to counting migrating raptors, hawk watchers also keep track of all identifiable non-raptor migrant species, including songbirds, Ruby-throated Hummingbirds, and Monarchs. The following is a summary of Monarch sightings at these two sites in 2003 and 2004, by month.

2003	Barre Falls	Blueberry Hill	Total	2004	Barre Falls	Blueberry Hill	Total
<u>Aug</u>							
Days	4	8	12		1	5	6
# Seen	11	18	29		0	1	1
Av/day	2.75	2.25		2.4	0		.2
							.2
<u>Sept</u>							
Days	19	25	44		19	26	45
# Seen	301	122	423		22	5	27
Av/day	15.8	4.9	9.6		1.2	.2	.6

<u>Oct</u>						
Days	21	25	46	23	29	52
# Seen	112	5032	144	8	5	13
Av/day	5.3	1.3	3.1	.3	.17	.25
<u>Aug-Oct</u>						
Days	44	58	102	43	60	103
# Seen	424	190	614	30	11	41
Av/day	9.6	3.3	6.0	.7	.2	.4

Days=number of days spent observing by hawk watchers each month. Hawk watchers usually spent about four to seven hours each day observing. The Total column gives the combined total of days on which each hawkwatch site was in operation.

Seen = total number of Monarchs sighted

Av/day = average number seen per day. This measure is standardized by day, rather than person-hours of effort, which seems more appropriate to a situation in which Monarch counting was incidental to, and may not have been as systematic as, raptor counting.

The number of observers at the hawk watch sites was usually about four, but varied from one to over ten people. Full details on dates, hours, observers and migrants and other species counted each day may be found at the HawkCount website of the Hawk Migration Association of North America, www.hawkcount.org, which is the source of the above data.

Thanks to both Barton Kamp and John Weeks for reviewing this data.

In both years, the greatest number of migrant Monarchs was seen in September. In September of 2003, Barre Falls hawk watchers spent a total of 19 days at the site observing, and counted 301 Monarchs, for a daily average of 15.8, while at Blueberry Hill hawk watchers spent a total 25 days in the field, counting 122 Monarchs, or an average of 4.9 per day. In 2004, September averages were 1.2 and .2, respectively.

Combining the three months and the two sites shows that, in 2003 an average of **6.0** Monarchs per day was observed, whereas in

2004 an average of only **0.4** per day was observed. These averages can serve as a rough indication of the decline in the numbers of Monarchs in Massachusetts in 2004 as compared to 2003. The two hawk watch crews spent approximately the same number of days observing in August through October 2003 as in August through October 2004 (102 versus 103 days), yet in 2003 observers saw over ten times as many Monarchs as they did in 2004.

It remains to be seen whether the dearth of Monarchs in the northeast in 2004 represents simply a normal population fluctuation, or something more. Such fluctuations seem to show up more dramatically in the East as compared to the Midwest part of the Monarch's range. One immediate factor was the freezing rains of January 2004 in Mexico, which resulted in the die-off of an estimated 70% of the Monarch population there, according to Chip Taylor (monarchwatch update, 3/18/04). Another factor is the illegal logging of the oyamel fir trees in the Monarch reserve areas, which has reduced the size of the forest and opened the forest canopy to such winter storms. Further, one recent study predicts that the frequency of wet, cold winter weather in Mexico is going to increase in the future. However, the Monarch population has bounced back from winter declines in the past, and may well do so in the future.

Monarch Butterfly Sanctuary Foundation

This is a non-profit organization which supports monitoring of the Monarch over-wintering population in Mexico, mapping and monitoring the forest reserve, environmental education in nearby Mexican schools, and conservation-related research on Monarchs by Mexican scientists. The Foundation was established by Dr. Lincoln Brower and Dr. Karen S. Oberhauser. For further information, and ways in which you can contribute, go to www.mbsf.org.

2004 Season Summary and Records

by Erik Nielsen

Reports of 103 butterfly species were received this year. Thanks to all the observers who submitted their records either directly to me or posted them on the MassLep listserv. A number of our resident species had good flights, and a few unusual migratory ones added some spice to an otherwise rather lackluster fall. There were new high counts for 11 species, 17 flew earlier than in previous years, and 7 were recorded later.

Swallowtails

Single adult Pipevine Swallowtails were seen in June, July, and October, and 20 caterpillars were found on Dutchman's Pipe on June 24 in Lakeville (see Sharon Stichter's article in *Massachusetts Butterflies* No. 23, Fall, 2004).

On June 16 Rick Heil posted the following on "BIOMASS":
"Today (6-16-04) I had a good, close view of a striking ZEBRA SWALLOWTAIL (*Eurytides marcellus*) in Gloucester. Although I have no photographic documentation, it is a very distinctive species and I have no doubt as to its identity. Are there prior MA records? This warm weather of this past week or so has also ushered in some unusual or even record flights of rare in MA southern odonata as well, including Taper-tailed Darners, Painted Skimmers, and Great Blue Skimmers."
Although there are a few previous records of this species, it is the first for the state in many years.

Black Swallowtails were seen in good numbers from late April to mid-October with a few double digit counts in Adams and Newbury. Considering the difficulty of identifying Eastern/Canadian Tiger Swallowtails and how rare it is to get a really good look at them, it is not surprising that 2004 did little to sort out the flight times of the two species. Most of the sightings in late April and early May are probably of Canadian and from mid-July on they are most likely Eastern; but from mid-May to early July most sightings probably should be (and actually are) reported as "Tiger Swallowtail". Average numbers of Spicebush Swallowtails were reported from early May to late September.

Whites and Sulphurs

Mustard Whites were reported only from Lenox again this year; but their numbers broke all records with 91 seen there in May and 280 in early August. West Virginia White reports were relatively few; but 11 in Lenox was a nice count. Clouded and Orange Sulphurs numbers were average and relatively few reports of Cloudless Sulphurs were received.

Gossamer Wings

A Harvester is almost always a good find; and until a couple of years ago the highest count for MA was 7. On August 26 Renee LaFontaine counted 26 in a colony on the Medford/Arlington town line breaking the record of 18 she and Marj Rines saw in the same area almost exactly a year earlier.

American Copper numbers were mostly average; but 250 in Andover May 19 and 798 on the Central Franklin count were notable exceptions.

Good numbers were reported for the second brood of Bronze Copper from its stronghold in the Sudbury River Valley again in

2004; but those and a sighting of 3 males in South Egremont in mid-June were the only ones.

Most Hairstreak counts were average. Exceptions were 103 Acadians in Pittsfield on July 9 and 16 Oak Hairstreaks in the State Forest on the Vineyard on July 17. White M Hairstreaks were found in Canton and Easton/Sharon. Gray Hairstreak had a very poor showing, and for the second year in a row there were no reports of Hessel's Hairstreaks.

With the exception of Hoary for which only two reports of 4 and 3 individuals were received, the elfin numbers were generally good. A count of 93 Frosted Elfin in Foxboro didn't break the record set there at the same site in 2002, but wasn't too shabby nonetheless. Henry's Elfin flew for over a month in 2004 and were reported in ones and twos from Plum Island to South Amherst. Eastern Pine Elfin flew for two months, and on May 20 Tom Murray found a Bog Elfin at the site in Petersham where it was first found in the state a few years ago. He was able to document the species with some great photographs of an individual there on May 30.

No significant flights of blues were reported; but 98 Silvery Blues in Stow on May 31 was a nice count.

Brushfoots

There wasn't much to say about the Variegated and the Greater Fritillaries reports for 2004. An Aphrodite had an early showing on Mt. Greylock on June 9. Waring Field in Rockport produced good numbers of Silver-bordered Fritillaries again in 2004. Doug Savich counted 558 there on August 8. An early Meadow Fritillary was seen in Williamstown on May 6, sixteen were seen there on June 29, and the last sighting of that species in 2004 was on September 12 in Sheffield.

Harris' Checkerspot were reported from a variety of locations and were generally seen in good numbers. A high count of 1000-2000 Pearl Crescents was reported from Falmouth in late July. Baltimore

numbers were on the low side, but seen at a fair number of sites. Question Marks can best be described as uncommon in 2004 and only a few were noted at known migration spots in the fall. Commas on the other hand had a great showing. Eastern Commas started the season with an early individual on March 2 and Tom Gagnon broke last year's record count of 19 with 24 on the Southern Berkshire Count. Four individual Gray Commas were seen and two of them were documented with photographs. Compton Tortoiseshell and Mourning Cloak had average flights; but Milbert's Tortoiseshell had another great year, with record high numbers being seen in several locations. 62 were carefully counted on Mt. Greylock on June 12, and 176 were logged on the Northampton count on July 17. Vanessa anglewings had an unremarkable year. A few relatively early sightings of Painted Ladies hinted that it might be a good year for that species; but the counts remained in the single digits. Common Buckeyes were widely reported with the highest numbers from inland locations (12 in Easton/Sharon and in Northampton). Red-spotted Admirals had a good year, with many double digit reports of the Red-spotted Purple form coming from western MA. The White Admiral form was seen in more average numbers, but a couple of individuals were noted in Essex County. Tawny Emperor outnumbered Hackberry with sightings from a good number of localities. Thirteen at Mt. Holyoke on July 3 is a new high count for the state. None of the Satyrs' flights were especially remarkable, but double digit numbers of Appalachian Browns are always worth noting, and 1000+ Common Wood Nymphs in Rowley on August 8 is a very nice count. Monarchs were very noticeable by their absence. Summer sightings were few and far between and the highest count from the Westport/Dartmouth area in the fall was 12! Usually that area has

at least a few days in the fall with counts in the hundreds or even thousands. (See related articles on Monarchs in this issue.)

Skippers

Karen Haley's yard in Marblehead, which hosted a Queen in 2002, was visited by a Long-tailed Skipper on two separate days in early September. Both Southern and Northern Cloudywings had new extreme dates, with May 20 being early for Southern and August 2 late for Northern. Seventeen Sleepy Duskywings in the State Forest in W. Tisbury was a great count and an individual was seen in Westboro on the late date of June 13. At least one Checkered Skipper showed up in the community gardens in Northampton. This makes four falls in a row that it has been found there! 23 Common Sootywings in Delaney WMA in Stow on May 31 and 26 in the Northampton community gardens were nice counts, and Tom Gagnon had a new high count of 62 for the state in his section of the Northampton count circle on July 17. One Arctic Skipper flew until June 27 – a new late date, and a record 43 were counted in Windsor on June 5. European Skippers started flying a little earlier in 2004. One individual was seen in Holliston on May 21. Fiery Skippers were found in six locations in September and early October, with 2 males still being seen in Northampton on October 8.

A Leonard's Skipper was early in Dennis on August 2. Tawny-edged Skipper got a new late date on October 12 in Northampton, and Crossline Skipper extended both ends of its flight season with two individuals at the Crane WMA in Falmouth on June 6 and a single in Barnstable on August 29. Fred Goodwin found 3 early Long Dashes on May 19 in the Ward Reservation in Andover, and Tom Gagnon found a Northern Broken-Dash in North Amherst on May 16. This sighting is almost two weeks earlier than the previous early sighting, and a Dun Skipper was found 10 days early. Little Glassywing also set an early record in 2004, but only

by a couple of days. Tom Murray documented a very late male Delaware Skipper with some great photographs on October 4 in the Sudbury Community Gardens. He also provided photographic evidence of both Dion and Two-spotted Skippers in the state (See cover photo, *Massachusetts Butterflies*, No. 23, Fall 2004). The latter species was found by Bill Benner in the same locality in Petersham where the Bog Elfin flew earlier in the year. Both Black Dash and Mulberry Wings were seen in good numbers on Cape Ann again in 2004. The high count for Dusted Skipper was broken when Tom Gagnon found 106 individuals at the Spring Grove Cemetery in Florence on May 27. Ten was a new high count for Pepper and Salt Skipper at Oxbow NWR on May 18. Two individuals of the very uncommon Common Roadside-Skipper were found in late May and mid June. Ocola Skippers didn't quite make the splash in the state that they did the year before, but at least 7 individuals were seen, with three of them showing up on the new early date of August 22.



New High Counts

Mustard White – 280
 Harvester-26
 Acadian Hairstreak – 103
 Oak Hairstreak-16
 Eastern Comma – 24
 Milbert's Tortoiseshell-62
 Tawny Emperor – 13
 Common Sootywing – 62
 Arctic Skipper – 43
 Dusted Skipper – 106
 Pepper and Salt Skipper – 10

Northern Broken-Dash –
 May 16
 Little Glassywing – May 24
 Black Dash – June 13
 Dun Skipper – June 12
 Dusted Skipper – May 19
 Pepper and Salt Skipper –
 May 15
 Ocola Skipper – August 22

Record Early Flight Date

Harvester – May 11
 Frosted Elfin – April 11
 Aphrodite Fritillary – June 9
 Meadow Fritillary – May 6
 Eastern Comma – March 2
 Northern Pearlyeye – June 20
 Southern Cloudywing – May
 20
 European Skipper – May 21
 Leonard's Skipper – Aug. 2
 Crossline Skipper – June 6
 Long Dash – May 19

Record Late Flight Date

Pipevine Swallowtail –
 October 8
 Northern Cloudywing –
 August 2
 Sleepy Duskywing – June 13
 Arctic Skipper – June 27
 Tawny-edged Skipper –
 October 12
 Crossline Skipper – Aug. 29
 Delaware Skipper – Oct. 4

Abbreviations:

CCMNH-Cape Cod Museum of Natural History, CG – community
 gardens, AP – Allens Pond, AWS – Arcadia Wildlife Sanctuary,
 BFD – Barre Falls Dam

BI – Butterfly Institute, BMBS – Broad Meadow Brook Sanctuary, BHRA -Ballard Hill Rec. Area, BWS – Broadmoor Wildlife Sanctuary, CHR-Cherry Hill Reservoir, CRPL-Concord Road power line, CWMA-Crane WMA, DP-Dauphinais Park, GBH – Great Blue Hill, GF – Graves Farm, GMNWR – Great Meadows National Wildlife Refuge, GN – Gooseberry Neck, DWMA-Delaney Wildlife Management Area, FSWR-Fannie Stebbins WR, HPM – Horn Pond Mountain, IRWS – Ipswich River Wildlife Sanctuary, LL – Little’s Lane, MAC – Mount Auburn Cemetery, MBWMA – Martin Burns Wildlife Management Area, MMP – Mountain Meadow Preserve, MPRA – Mill Pond Rec. Area, MSSF – Myles Standish State Forest, MV – Martha’s Vineyard, MWMA – Moran Wildlife Management Area, NAC – Nine Acre Corner, NCM – North Common Meadow, OMSF – October Mountain State Park, ONWR – Oxbow National Wildlife Refuge, PB – Ponkapoag Bog, PI – Plum Island, PL – Power line(s), RSP – Rutland State Park, SRCA – Stow Road Conservation Area, WMWS – Wachusett Meadow Wildlife Sanctuary, WE – World’s End, WM – West Meadows, WMA – Wildlife Management Area, WR – Ward Reservation, WS – Wildlife Sanctuary.

#-- Additional Observers

f – female, m– male

*-- record early flight date

** -- record late flight date

Pipevine Swallowtail				6/21	HPM, Woburn	3	Tom Murray
6/13	Westboro	1	S. Moore + B. Volkie	7/3	RSP	11	B+R+M Walker
6/24	Lakeville	20 caterpillar	Robin Gross	7/10	Warwick	13	Susan Heinricher
7/2	GBH, Canton	1	Tom Whelan	8/8	World's End, Hingham	11	Bob Bowker
7/3	CHR, W. Newbury	1	MBC (Sharon Stichter)	Eastern Tiger Swallowtail			
7/16	Amherst	1	Dottie Case	4/30	Florence	1	Tom Gagnon
7/25	Westport	1	M. Lynch + S. Carroll	6/12	Mt. Greylock	39	M. Lynch + S. Carroll
10/8**	Newbury	1	Sharon Stichter	8/8	Newbury	6	S. Moore + B. Volkie
Zebra Swallowtail				9/9	GBH, Canton	1	Tom Murray
6/16	Gloucester	1	Rick Heil	Canadian Tiger Swallowtail			
Black Swallowtail				5/18	ONWR, Harvard	2	Tom Murray
4/30	MMP, Williamstown	2	Pam Weatherbee	5/21	WMWS, Princeton	2	Carl Kamp
5/1	GBH, Canton	1	Erik Nielsen	5/23	Petersham	25	S. Moore + B. Volkie
5/1	WM, Northampton	1	Tom Gagnon	5/30	Tully Meadow, Orange	7	Carl Kamp
5/1	WMWS, Princeton	1	Carl Kamp	6/12	Mt. Greylock	8	M. Lynch + S. Carroll
5/1	MMP, Williamstown	3	Pam Weatherbee	6/16	Mt. Greylock	6	B. Benner + J. Wicinski
5/7	Nahant	2	Dorothy Saffarewich	7/11	Mt. Greylock	1	Bill Benner#
5/8	Natick	1	Eleanor Solberg	Spicebush Swallowtail			
5/8	W.Bridgewater	1	Don Adams	5/4	HMP, Woburn	1	Betty Wright
5/15	Marion	6	Mike Maurer	5/21	BMBS, Worcester	1	Dolores Price
7/1	GBH, Canton	5	Tom Murray	5/23	Petersham	1	S. Moore + B. Volkie
7/17	Greylock Glen, Adams	15	Erik Nielsen	Spicebush Swallowtail (cont.)			
7/22	Newbury	3	Sharon Stichter	6/29	IRWS	1	Fred Goodwin
7/26	CWMA, Falmouth	4	B+R+M Walker	7/2	Williamsburg	2	Tom Gagnon
8/4	GBH, Canton	6	Madeline Champagne	7/4	GBH, Canton	8	Erik Nielsen
8/8	Newbury	12	S. Moore + B. Volkie	7/7	GBH, Canton	7	Madeline Champagne
8/9	Royalston	5	Carl Kamp	7/10	MV	2	Allen Keith
8/22	Northampton CG	5	Bill Benner	7/12	Boxford	2	Jim Berry
8/22	MWMA, Windsor	6	M. Lynch + S. Carroll	7/17	South Amherst	2	Mark Faherty
9/1	Oak Bluffs	1	Allen Keith	7/26	Cape Ann	2	Doug Savich
9/4	Wayland CG	1	W. Miller + D. Price	9/27	Cape Ann	1	Doug Savich
9/15	AP, S. Dartmouth	7	MBC (M. Champagne)	Mustard White			
9/19	Northampton	2	MBC (Tom Gagnon)	4/17	Lenox	11	Roger Pease
9/26	Wayland CG	2	Bill Benner	4/24	Lenox	40	Roger Pease
10/13	Cape Ann	1	Doug Savich	5/1	Lenox	34	Roger Pease
Tiger Swallowtail (Canadian/Eastern)				5/8	Lenox	54	Roger Pease
4/24	Lexington	1	Rines + LaFontaine	5/12	Lenox	91	Ron Cloutier
4/30	Upton	1	Tom Dodd	5/23	Lenox	7	Tom Gagnon
5/7	GMNWR, Concord	4	Betty Wright	7/9	Lenox	7	B. Benner + T. Gagnon
5/15	BFD/RSP	9	M. Lynch + S. Carroll	7/18	Lenox	36	Tom Gagnon
5/15	Northampton	16	Tom Gagnon	7/21	Lenox	55	Ron + Sue Cloutier
5/17	Tully Lake, Royalston	26	Carl Kamp	8/8	Lenox	280	Erik Nielsen
6/9	Mt. Greylock,	32	Tom Gagnon	West Virginia White			
6/12	DP, Grafton	6	MBC (Dolores Price)	4/29	Sunderland	1	Dottie Case
6/16	Mt. Greylock	30	B. Benner + J. Wicinski	5/1	Lenox	11	Roger Pease
6/21	Royalston	9	Carl Kamp	5/7	Sunderland	5	Ron + Sue Cloutier
				5/11	Sunderland	7	Dottie Case
				5/11	Sunderland	6	Tom Gagnon
				5/15	Sunderland	4	S. Moore + B. Volkie
				Cabbage White			

4/9	Edgartown	1	Matt Pelikan	5/23	Ashley Falls	1	Tom Gagnon
4/17	E. Longmeadow	1	Karen Parker	5/30	Tully Meadow, Orange	1	Carl Kamp
4/17	Lexington	1	Tom Whelan	5/31	DWMA, Stow	2	MBC (Barbara Walker)
4/17	Upton	1	Tom Dodd	6/6	CWMA, Falmouth	6	Alison Robb
4/17	W.Somerville	1	Liz Loveland	6/19	Framingham	12	NEWFS BI (Tom Dodd)
4/18	BMBS, Worcester	3	E. Barry + W. Miller	7/3	CHR, W. Newbury	11	MBC (Sharon Stichter)
5/7	Nahant	13	Dorothy Saffarewich	7/10	Harvard	15	S. Moore + B. Volkle
5/31	DWMA, Stow	37	B+R+M Walker	7/11	LL, Newbury	30	Erik Nielsen
6/19	Framingham	20	NEWFS BI (Tom Dodd)	8/8	World's End, Hingham	16	Bob Bowker
6/25	Northampton CG	25	Bill Benner	8/28	Katama	300	Allen Keith
7/3	Hawley	16	M. Lynch + S. Carroll	9/6	OMSF	75	S. Moore + B. Volkle
7/11	Newbury	160	Erik Nielsen	9/15	AP, S. Dartmouth	101	MBC (M. Champagne)
7/29	Wayland CG	35	Tom Murray	10/8	MV	70	Allen Keith
8/6	Northampton CG	40	Bill Benner	10/26	Cape Ann	14	Doug Savich
8/8	Rowley	100	S. Moore + B. Volkle	11/1	Northampton CG	2	Tom Gagnon
9/4	Wayland CG	76	S. Moore + B. Volkle	11/7	Pittsfield	1	Tom Gagnon
9/13	Cape Ann	32	Doug Savich	11/7	Sunderland	2	Dottie Case
9/13	Northampton CG	35	Bill Benner	11/8	Chelmsford	4	Tom Whelan
9/15	AP, S. Dartmouth	189	MBC (M. Champagne)	11/23	MV	2	Allen Keith
9/22	Ipswich	50	Jim Berry	Cloudless Sulphur			
10/3	GN, Westport	80	Bob Bowker	8/22	Oak Bluffs	1	Matt Pelikan
10/9	Wayland CG	55	S. Moore + B. Volkle	8/28	GN, Westport	1	B+R+M Walker
11/1	Northampton CG	2	Tom Gagnon	8/28	Falmouth	1	Alison Robb
11/8	W.Bridgewater	3	Don Adams	8/29	Katama	1	Matt Pelikan
Clouded Sulphur				9/4	Katama	1	Allen Keith
4/18	Worcester	1	M. Lynch + S. Carroll	9/8	AP, S. Dartmouth	1	B+R+M Walker
4/21	Westborough WMA	1	Dan Mushrush	9/15	AP, S. Dartmouth	1	MBC (M. Champagne)
4/29	Newbury	1	Sharon Stichter	Harvester			
4/30	BMB, Worcester	2	B+R+M Walker	5/11*	Quabbin Park	1	Dave Small
5/1	Northampton	2	Tom Gagnon	5/13	Erving	1	Dave Small
5/15	Harvard	40	Tom Murray	6/4	ONWR, Harvard	2	Tom Whelan
5/23	Harvard	38	Tom Murray	6/15	Medford	1	Renee LaFontaine
5/31	DWMA, Stow	11	MBC (Barbara Walker)	7/18	ONWR, Harvard	1	Tom Murray
7/3	Dubuque SF, Hawley	16	M. Lynch + S. Carroll	7/20	Athol	1	Sue Cloutier
7/7	GBH, Canton	14	Madeline Champagne	7/29	South Hadley	1	Bill Benner
7/11	Mt. Greylock	27	Bill Benner#	8/19	FSWR	1	E. Barry + S. Bolton
7/11	Newbury	40	Erik Nielsen	8/26	Medford/Arlington	26	Renee LaFontaine
7/31	Wellfleet	20	M. Lynch + S. Carroll	8/28	Cummington	1	Andrew Spencer
9/4	Westport	62	M. Lynch + S. Carroll	9/6	Amherst	1 + 1 larvae	D. Case + D. Minear
9/15	AP, S. Dartmouth	59	MBC (M. Champagne)	9/6	Leverett	1	Tom Gagnon
9/29	GN, Westport	14	Madeline Champagne	9/8	Medford/Arlington	5	Renee LaFontaine
10/8	Northampton CG	8	Bill Benner	American Copper			
10/26	Cape Ann	4	Doug Savich	5/1	South Amherst	1	Tom Gagnon
11/1	Northampton CG	2	Tom Gagnon	5/4	Florence	4	Tom Gagnon
11/6	MV	1	Allen Keith	5/7	Chilmark	1	Allen Keith
11/7	W.Falmouth	1	Alison Robb	5/8	Natick	1	Eleanor Solberg
Orange Sulphur				5/10	E. Longmeadow	4	Karen Parker
5/7	Chilmark	1	Allen Keith	5/11	Franklin	2	Russell Holden
5/12	MV	5	Allen Keith	5/13	Chelmsford	17	Tom Whelan
5/19	Cape Ann	4	Doug Savich	5/15	Foxboro	8	Madeline Champagne
				5/15	Harvard	6	Tom Murray
				5/16	N. Amherst	13	Tom Gagnon#
				5/17	Tully Lake, Royalston	12	Carl Kamp
				5/19	WR, Andover	250	Fred Goodwin

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Massachusetts Butterflies

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5/19	South Athol	30	Dave Small			
5/20	CRPL, Chelmsford	18	Tom Whelan			
5/21	Holliston	4	Richard Hildreth			
5/24	E. Longmeadow	13	Karen Parker			
5/27	Chelmsford	16	Tom Whelan			
5/27	Florence	24	Tom Gagnon			
5/31	Westfield	13	Tom Gagnon			
7/11	N. Worcester Count	798	Carl Kamp			
7/16	MV	37	Allen Keith			
7/31	Norcross WS	12	Elise Barry			
9/15	AP, S. Dartmouth	8	MBC (M. Champagne)			
10/3	GN, Westport	1	Bob Bowker			
10/5	Cape Ann	3	Doug Savich			
10/13	Noman's Land	5	Allen Keith			
10/26	Northampton CG	1	Dottie Case			
Bronze Copper						
6/13	S. Egremont	3m	M. Lynch + S. Carroll			
8/29	Wayland CG	1	Wendy Miller			
9/4	Wayland CG	2	S. Moore + B. Volkie			
9/4	Wayland CG	3m + 1f	W. Miller + D. Price			
9/14	Wayland CG	2m + 3f	Tom Whelan			
9/25	Sudbury CG	3	MBC (Erik Nielsen)			
9/26	NAC	2f	Bill Benner			
10/10	Wayland CG	2f	Erik Nielsen			
Bog Copper						
6/27	Royalston	8	Carl Kamp			
6/28	Cape Ann	5	Doug Savich			
6/28	Royalston	10	Tom Murray			
7/3	Tully Dam, Royalston	10	Carl Kamp			
7/4	C. Franklin Count	173	Mark Fairbrother			
7/9	MV	5	Allen Keith			
7/24	Tahanto HS, Boylston	6	MBC (Tom Dodd)			
7/24	Sterling	1	M. Lynch + S. Carroll			
8/4	Wachusett Reservoir	3	Tom Whelan			
Coral Hairstreak						
6/28	HMP, Woburn	1	Tom Murray			
6/29	Williamsburg	2	Tom Gagnon			
7/1	HMP, Woburn	4	Rines + LaFontaine			
7/2	HMP, Woburn	3	Tom Whelan			
7/9	Pittsfield	2	B. Benner + T. Gagnon			
7/18	GBH, Canton	15	Erik Nielsen			
7/22	GBH, Canton	7	Tom Murray			
7/22	MBWMA	1	Sharon + Joe Stichter			
7/26	CWMA, Falmouth	5	B+R+M Walker			
7/30	GBH, Canton	2	Madeline Champagne			
8/1	Tilcon, N.Eastham	2	B+R+M Walker			
8/2	Crowe's, Dennis	3	B+R+M Walker			
Acadian Hairstreak						
6/27	HMP, Woburn	6	Marj Rines			
6/30	HMP, Woburn	5	Walter Bosse			
7/1	HMP, Woburn	16	Rines + LaFontaine			
7/9	Pittsfield	103	Tom Gagnon			
7/11	Mt. Greylock	1	Bill Benner#			
7/18	C. Berkshire Count	55	Tom Gagnon			
Edwards' Hairstreak						
6/21	HMP, Woburn	3	Tom Murray			
6/23	GBH, Canton	2	Brian Cassie			
6/23	Lexington	1	Tom Whelan			
6/24	GBH, Canton	8	Mike Nelson			
7/1	GBH, Canton	25	Tom Murray			
7/1	HMP, Woburn	36	Rines + LaFontaine			
7/7	SF, Oak Bluffs	12	Allen Keith			
7/11	E. Longmeadow	1	Karen Parker			
7/18	GBH, Canton	18	Erik Nielsen			
8/9	New Salem	1	Ron + Sue Cloutier			
Banded Hairstreak						
6/21	South Hadley	1	Mark Faherty			
6/21	HMP, Woburn	1	Tom Murray			
6/23	Amherst	1	Mark Faherty			
6/23	GBH, Canton	5	Brian Cassie			
6/23	E. Longmeadow	2	Karen Parker			
6/23	HMP, Woburn	18	Rines + LaFontaine			
6/24	GBH, Canton	20	Mike Nelson			
6/27	HMP, Woburn	12	Marj Rines			
7/1	GBH, Canton	16	Tom Murray			
7/4	GBH, Canton	23	Erik Nielsen			
7/13	GBH, Canton	13	Madeline Champagne			
7/16	MV	61	Allen Keith			
8/8	Newbury	1	S. Moore + B. Volkie			
8/9	Cape Ann	1	Doug Savich			
8/9	Chelmsford	1	Tom Whelan			
8/9	Leicester	1	MBC (Dolores Price)			
8/9	Royalston	1	Carl Kamp			
Hickory Hairstreak						
6/26	HMP, Woburn	1	Steve Moore			
7/4	C. Franklin Count	1	Mark Fairbrother			
7/5	Athol	1	Earle Baldwin			
7/9	Pittsfield	1	B. Benner + T. Gagnon			
7/10	S. Berkshire Count	1	Tom Gagnon			
7/10	Hadley	1	Ron + Sue Cloutier			
7/11	N. Berkshire Count	1	Tom Gagnon			
7/11	Mt. Greylock	2	Bill Benner#			
7/11	CHR, W. Newbury	1	Erik Nielsen			
7/18	C. Berkshire Count	1	Tom Gagnon			
Striped Hairstreak						
6/23	HMP, Woburn	2	Rines + LaFontaine			
6/24	GBH, Canton	6	Mike Nelson			
6/27	Royalston	1	Carl Kamp			
7/1	GBH, Canton	21	Tom Murray			
7/2	Williamsburg	4	Tom Gagnon			
7/3	Quabbin Park	5	Erik Nielsen			
7/16	MV	7	Allen Keith			
7/26	CWMA, Falmouth	1	B+R+M Walker			
8/7	Canal, Bourne	1	B+R+M Walker			
8/8	Newbury	3	S. Moore + B. Volkie			
8/9	Leicester	1	MBC (Dolores Price)			
Oak Hairstreak						
6/27	GBH, Canton	1	Ron + Sue Cloutier			
7/1	GBH, Canton	2	Tom Murray			

7/3	GBH, Canton	2	Ron + Sue Cloutier	5/16	Oxford	1	Eleanor Solberg
7/10	Oak Bluffs	1	Matt Pelikan	5/17	Tully Lake, Royalston	15	Carl Kamp
7/16	Tisbury	1	Allen Keith	6/5	E. Longmeadow	2	Karen Parker
7/17	MV Count	24 (16 SF)	Matt Pelikan	6/5	Upton	3	Tom Dodd
	Brown Elfin			6/17	GBH, Canton	1	Tom Murray
4/18	BMBS, Worcester	1	E. Barry + W. Miller		Juniper Hairstreak		
4/19	GBH, Canton	2	Tom Murray	5/1	Uxbridge	1	Russell Holden
4/24	Lexington	4	Rines + LaFontaine	5/2	W. Newbury	1	Erik Nielsen
4/30	New Salem	20	Dave Small#	5/11	Lexington	6	Tom Whelan
5/1	Gate 33, New Salem	1	M. Lynch + S. Carroll	5/16	N. Amherst	12	Tom Gagnon#
5/1	MSSF, Plymouth	35	Erik Nielsen	5/17	Amherst	39	Dottie Case
5/5	Pamet River, Truro	13	Alison Robb	5/23	Lexington	8	Tom Whelan
5/6	Cape Ann	1	Doug Savich	7/22	GBH, Canton	3	Tom Murray
5/7	HMP, Woburn	5	Marj. Rines	7/25	Mt. Holyoke Range	1	Bill Benner
5/7	BMBS, Worcester	6	Tom Murray	7/30	GBH, Canton	1	Madeline Champagne
5/11	Turners Falls	2	Tom Gagnon	8/3	Eastham	1	B+R+M Walker
5/15	Foxboro	1	Madeline Champagne		White M Hairstreak		
5/21	BMBS, Worcester	1	Dolores Price	6/24	GBH, Canton	1	Mike Nelson
	Hoary Elfin			8/10	Easton/Sharon	1	Brian Cassie
5/1	MSSF, Plymouth	4	Erik Nielsen		Gray Hairstreak		
5/5	Truro	3	Alison Robb	4/19	Edgartown	1	Matt Pelikan
	Frosted Elfin			6/17	GBH, Canton	1	Tom Murray
4/11*	Turners Falls	3	Dottie Case	6/25	Northampton CG	2	Bill Benner
4/24	Lexington	1	Rines + LaFontaine	7/16	MV	3	Allen Keith
5/11	Turners Falls	15	Tom Gagnon	8/25	Northampton CG	2	Bill Benner
5/15	Foxboro	93	Madeline Champagne	9/6	Boylston	1	Wendy Miller
6/6	CWMA, Falmouth	2	Alison Robb	9/9	GBH, Canton	4	Tom Murray
6/11	Foxboro	9	Madeline Champagne	9/23	GBH, Canton	2	Tom Murray
	Henry's Elfin			10/4	Chelmsford	1	Tom Whelan
4/20	Chelmsford	1	Tom Whelan		Early Hairstreak		
4/20	PI	2	Rick Heil	6/5	Mt. Greylock	1 m	Tom Gagnon
4/24	ONWR, Harvard	1	Tom Murray	6/9	Mt. Greylock	4 f	Tom Gagnon
4/24	Lexington	2	Rines + LaFontaine	6/12	Mt. Greylock	4	M. Lynch + S. Carroll
4/29	Amherst	1	Deedee Minear	6/12	Mt. Greylock	1	MBC (M. Fairbrother)
5/1	South Amherst	3	Tom Gagnon		Eastern Tailed-Blue		
5/12	Petersham	2	Tom Murray	4/29	Athol	2	Earle Baldwin
5/14	IRWS	1	Fred Goodwin	5/1	ONWR, Harvard	1	MBC (Tom Murray)
5/15	Amherst	1	Ron + Sue Cloutier	5/4	HMP, Woburn	2	Betty Wright
5/15	PI	2	Carl Kamp	5/6	MBWMA	1	Lesley Mattuchio
5/20	Petersham	1	Tom Murray	5/7	HMP, Woburn	18	Tom Whelan
5/25	Belchertown	1	Dottie Case	5/7	BMBS, Worcester	16	Tom Murray
	Bog Elfin			5/10	Cape Ann	7	Doug Savich
5/20-31	Petersham	1	Tom Murray#	5/12	W.Tisbury	32	Matt Pelikan
	Eastern Pine Elfin			5/15	Foxboro	11	M. Champagne
4/17	Upton	1	Tom Dodd	5/15	Oakham	2	S. Moore + B. Volkie
4/22	ONWR, Harvard	1	Tom Murray#	5/21	BMBS, Worcester	4	Dolores Price
4/24	DP, Grafton	2	W. Miller + D. Price	5/29	MBWMA	5	MBC (S. Stichter)
5/1	E. Longmeadow	1	Karen Parker	6/3	Cape Ann	4	Doug Savich
5/1	ONWR, Harvard	6	MBC (Tom Murray)	6/12	DP, Grafton	5	MBC (D.Price)
5/1	Gate 33, New Salem	3	M. Lynch + S. Carroll	7/1	GBH, Canton	6	Tom Murray
5/8	Foxboro	2	M. Champagne	7/7	GBH, Canton	13	M. Champagne
5/8	Uxbridge	1	Russell Holden	7/7	Marblehead	12	Karen Haley
				7/10	Warwick	2	Susan Heinricher
				7/13	GBH, Canton	12	M. Champagne
				7/22	MBWMA	14	Sharon + Joe Stichter
				7/25	Rockport	12	MBC (Doug Savich)
				8/8	WE	2	Bob Bowker

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8/9	Leicester	7	MBC (Dolores Price)	5/31	DWMA, Stow	98	MBC (Barbara Walker)
8/22	Northampton CG	9	Bill Benner	6/12	Greylock Glen, Adams	1	MBC (Pam Weatherbee)
9/5	Egremont	7	Bill Benner	6/12	MWMA, Windsor	1	M. Lynch + S. Carroll
9/6	OMSF	10	S. Moore + B. Volkie	6/16	MWMA, Windsor	10	B. Benner + J. Wcinski
9/12	Oxford	4	B+R+M Walker	Variagated Fritillary			
9/23	MV	1	Allen Keith	7/14	Northampton CG	1	Tom Gagnon
10/2	HMP, Woburn	1	Betty Wright	7/24	Tahanto HS, Boylston	1	MBC (Tom Dodd)
10/4	HMP, Woburn	2	Tom Murray	8/1	BHRA, Lancaster	1	Tom Murray
10/8	Northampton CG	1	Bill Benner	8/9	Rockport	1	Brian Cassie
Spring Azure (spp)				8/22	Cape Ann	1	Doug Savich
4/12	DWMA, Stow	1	B+R+M Walker	8/26	Northampton CG	2	Andrew Spencer
4/16	Maynard	1	B. Volkie + M. Murphy	8/28	Northampton CG	3	Bill Benner
4/17	Franklin	5	Tom Whelan	9/3	Williamsburg	1	Bill Benner
4/18	Holliston	9	Richard Hildreth	9/8	Allan's Pond	1	B+R+M Walker
4/18	BWS	14	Bob Bowker	9/13	Royalston	4	Carl Kamp
4/18	Sherborn	16	Bob Bowker	10/3	Quabbin Reservoir	1	Tom Gagnon
4/20	PB, Canton	38	Bob Bowker	10/3	Amherst	1	Dottie Case
4/24	DP, Grafton	12	W. Miller + D. Price	11/1	Northampton CG	1	Tom Gagnon
4/29	ONWR, Harvard	25	Elise Barry#	Great Spangled Fritillary			
4/29	ONWR, Harvard	23	Tom Murray	6/11	Florence	1	Tom Gagnon
5/1	ONWR, Harvard	24	MBC (Tom Murray)	6/13	E. Longmeadow	1	Karen Parker
5/2	W.Newbury	16	Erik Nielsen	6/17	GBH, Canton	1	Tom Murray
5/6	Cape Ann	13	Doug Savich	6/20	E. Longmeadow	2	Karen Parker
5/8	W. Brookfield	15	M. Lynch + S. Carroll	6/21	Groveland	1	Jim Berry
5/10	Amherst	1	Cherry Gall	7/3	Dubuque SF, Hawley	6	M. Lynch + S. Carroll
5/15	BFD/RSP	15	Dottie Case	7/4	SRCA	6	Tom Murray
5/20	MV	25	M. Lynch + S. Carroll	7/7	GBH, Canton	8	Madeline Champagne
5/23	Sherborn PL	17	Allen Keith	7/11	Mt. Greylock	7	Bill Benner#
5/30	Petersham	14	Bob Bowker	7/17	Northampton count	12	Tom Gagnon
6/9	Mt. Greylock	5	Erik Nielsen	7/22	MBWMA	8	Sharon + Joe Stichter
6/12	Greylock Glen, Adams	3	Tom Gagnon	7/31	Norcross WS	6	Elise Barry
7/18	BMB, Worcester	3	MBC (Pam Weatherbee)	8/4	GBH, Canton	6	Madeline Champagne
'Summer' Spring Azure				8/9	Leicester	4	MBC (Dolores Price)
6/12	Mt. Greylock	9	B+R+M Walker	8/19	FSWR	1	E. Barry + S. Bolton
7/3	Dubuque SF, Hawley	1	M. Lynch + S. Carroll	9/4	Wayland CG	3	W. Miller + D. Price
7/6	GBH, Canton	3	M. Lynch + S. Carroll	9/6	Upton	4	Tom + Cathy Dodd
7/9	OMSF	7	Madeline Champagne	9/19	Northampton	3	MBC (Tom Gagnon)
7/18	C. Berkshire Count	43	Tom Gagnon	Aphrodite Fritillary			
7/22	GBH, Canton	2	Tom Murray	6/9*	Mt. Greylock	1	Tom Gagnon
7/30	GBH, Canton	2	M. Champagne	6/12	Mt. Greylock	4	M. Lynch + S. Carroll
7/31	Norcross WS	2	Elise Barry	6/19	E. Longmeadow	1	Karen Parker
8/8	Sheffield	1	M. Lynch + S. Carroll	6/27	BFD/RSP	2	M. Lynch + S. Carroll
8/29	OMSF	2	Bill Benner#	7/3	Tully Dam, Royalston	3	Carl Kamp
9/3	MWMA, Windsor	1	Bill Benner	7/11	Mt. Greylock	5	Bill Benner#
Silvery Blue				7/11	E. Longmeadow	2	Karen Parker
5/13	Royalston	2	Carl Kamp	7/17	Mt. Greylock	7	Erik Nielsen
5/16	N. Amherst	2	Tom Gagnon	7/17	MPRA, W. Newbury	1	Sharon Stichter
5/17	DWMA, Stow	68	Tom Murray	8/2	Royalston	3	Carl Kamp
5/20	Sunderland	1	Dottie Case	8/22	Monroe	4	M. Lynch + S. Carroll
5/29	Royalston	1	BI (C. Kamp + D. Small)	Atlantis Fritillary			
5/29	South Athol	2	BI (C. Kamp + D. Small)	6/16	Mt. Greylock	3	B. Benner + J.
5/30	Tully Meadow, Orange	18	Carl Kamp + Alyce Mayo				

4/10	Upton	1	Tom Dodd	11/4	Rutland	1	Dave Small
4/17	Oxbow NWR	7	B+R+M Walker	11/7	Holliston	1	Richard Hildreth
4/22	ONWR, Harvard	8	Tom Murray#	Milbert's Tortoiseshell			
5/1	ONWR, Harvard	7	MBC (Tom Murray)	3/26	Paxton	1	Elise Barry
6/20	ONWR, Harvard	10	Tom Murray	3/26	Sunderland	1	Dottie Case
7/2	E. Longmeadow	8	Karen Parker	3/27	Warwick	2	Susan Heinricher
7/10	S. Berkshire Count	24	Tom Gagnon	4/9	Plymouth	1	Tom Maloney
7/11	Mt. Greylock	18	Bill Benner#	4/17	BMB, Worcester	1	B+R+M Walker
7/17	Greylock Glen, Adams	14	Erik Nielsen	4/19	Amherst	1	DeeDee Minear
7/18	ONWR, Harvard	14	Tom Murray	4/27	South Amherst	1	Mark Faherty
8/22	FSWR, Longmeadow	7	MBC (T. Gagnon)	5/17	Amherst	100	larvae DeeDee Minear
9/14	Boxford	1	Jim Berry	6/9	Mt. Greylock	45	Tom Gagnon
9/25	Wayland CG	1	MBC (Erik Nielsen)	6/12	Mt. Greylock	62	M. Lynch + S. Carroll
10/8	Northampton CG	1	Bill Benner	6/13	S. Egremont	2	M. Lynch + S. Carroll
10/20	Cummington	1	Barbara Spencer	6/15	BHRA, Lancaster	3	Tom Murray
Gray Comma				6/19	Bradford	2	David Larson
7/11	N. Berkshire Count	1	Tom Tynning	6/23	Newbury	1	Sharon Stichter
7/17	Cummington	1	Barbara Spencer	6/24	Rock Meadow, Belmont	4	Rines + LaFontaine
7/18	C. Berkshire Count	1	Tom Gagnon	7/3	Dubuque SF, Hawley	5	M. Lynch + S. Carroll
7/26	Orange	1	Ron + Sue Cloutier	7/16	Northampton CG	8	Tom Gagnon
Compton Tortoiseshell				7/17	Northampton count	176	Dottie Case
3/29	Mt. Tom Res.	3	Tom Gagnon	7/17	Concord	1	LaFontaine + Rines
4/10	Upton	1	Tom Dodd	7/20	South Amherst	9	Mark Faherty
4/12	Crooked Pond, Boxford	2	Tom Murray	7/25	Royalston	3	Carl Kamp
4/16	Sudbury	1	B. Volkle + M. Murphy	8/8	Lenox	4	Erik Nielsen
4/17	Mt. Tom Res.	1	Tom Gagnon	9/26	NAC, Concord	1	Bill Benner
4/18	Worcester	1	M. Lynch + S. Carroll	American Lady			
4/20	PB, Canton	2	Bob Bowker	4/6	W.Tisbury	1	Matt Pelikan
4/20	Holliston	1	Richard Hildreth	4/8	Oak Bluffs	3	Allen Keith
4/27	IRWS	1	Fred Goodwin	4/21	Holliston	1	Richard Hildreth
6/27	GBH, Canton	1	Ron + Sue Cloutier	4/22	Nahant	1	Dorothy Saffarewich
7/2	Northampton CG	1	Bill Benner	4/30	MV	6	Allen Keith
8/28	Cummington	2	Andrew Spencer	5/1	Nahant	33	Dorothy Saffarewich
9/22	New Salem	1	Dave Small	5/1	South Amherst	5	Tom Gagnon
10/7	Ashland	1	Don Adams	5/4	Amherst	3	Dottie Case
10/8	Cummington	2	Barbara Spencer	5/8	Rockport	22	Jim Berry
11/7	Cummington	1	Barbara Spencer	5/17	Tully Lake, Royalston	8	Carl Kamp
Mourning Cloak				5/17	IRWS	7	Fred Goodwin
3/25	GMNWR, Concord	1	Tom Murray	5/19	Cape Ann	11	Doug Savich
3/26	Mt. Tom Res.	1	Tom Gagnon	5/20	IRWS	7	Fred Goodwin
3/26	Stow	1	B. Volkle + M. Murphy	5/29	DP, Grafton	8	W. Miller + D. Price
3/27	Marblehead	1	Karen Haley	5/29	Martin Burns, Newbury	15	MBC (S.Stichter)
3/27	IRWS	3	Fred Goodwin	6/30	CWMA, Falmouth	10	CCMNH (Tor Hansen)
3/29	MV	2	Allen Keith	7/4	GBH, Canton	21	Erik Nielsen
3/29	BMBS, Worcester	1	Dolores Price	7/13	GBH, Canton	10	M. Champagne
4/7	IWRS, Topsfield	3	Fred Goodwin	9/12	GBH, Canton	6	M.Champagne
4/8	Cape Ann	2	Doug Savich	9/19	Cape Ann	2	Doug Savich
4/17	Mt. Tom Res.	10	Tom Gagnon	10/3	Prescott Peninsula	3	Bill Benner
4/20	IRWS	4	Fred Goodwin	10/3	GN, Westport	4	Bob Bowker
4/21	Manomet	1	Peter Clark	10/7	Marblehead	2	Karen Haley
5/1	E. Longmeadow	1	Karen Parker	10/13	Noman's Land	4	Allen Keith
5/4	Boxford	2	Jim Berry	10/26	Cape Ann	3	Doug Savich
5/12	MV	2	Allen Keith	10/29	Northampton CG	1	Tom Gagnon
6/9	Mt. Greylock	9	Tom Gagnon	11/7	W.Falmouth	1	Alison Robb
7/3	Dubuque SF, Hawley	3	M. Lynch + S. Carroll	Painted Lady			
7/11	Mt. Greylock	5	Bill Benner#	4/22	Brookline	1	Brian Cassie
9/26	W.Bridgewater	1	Don Adams	4/24	GBH, Canton	1	Erik Nielsen
10/31	E. Longmeadow	1	Karen Parker	5/1	Quabbin (G33)	1	M. Lynch + S.

5/1	Gate 33, New Salem	1	Carroll	10/3	GN, Westport	7	Bob Bowker
			M. Lynch + S. Carroll	10/8	MV	3	Allen Keith
5/13	GBH, Canton	2	Tom Murray	10/8	Newbury	1	Sharon Stichter
6/5	Mt. Greylock	1	Tom Gagnon	10/16	Cape Ann	1	Doug Savich
7/1	GBH, Canton	4	Tom Murray	11/6	Chilmark	1	Allen Keith
7/11	LL, Newbury	6	Erik Nielsen	Red-spotted Admiral			
7/22	Newbury	1	Sharon Stichter	5/31	DWMA, Stow	4	MBC (Barbara Walker)
8/7	BMB, Worcester	1	B+R+M Walker	6/11	Rutland SP, Rutland	11	Dan Mushrush
8/22	Oak Bluffs	1	Matt Pelikan	6/16	Mt. Greylock	15	B. Benner + J. Wicinski
9/5	Cape Ann	1	Doug Savich	6/16	MWMA, Windsor	10	B. Benner + J. Wicinski
9/13	Northampton CG	1	B. Benner + T. Gagnon	6/21	Royalston	16	Carl Kamp
9/23	GBH, Canton	1	Tom Murray	7/3	Hawley	36	M. Lynch + S. Carroll
9/26	W.Bridgewater	1	Don Adams	7/9	OMSF	17	B. Benner + T. Gagnon
10/4	Northampton CG	1	Tom Gagnon	7/10	Warwick	5	Susan Heinricher
Red Admiral							
4/6	Tisbury	1	Matt Pelikan	8/2	Crowe's, Dennis	2	B+R+M Walker
4/12	Woods Hole	1	Alison Robb	Red-spotted Admiral (White Admiral)			
4/18	MV	2	Allen Keith	6/5	South Amherst	1	Mark Faherty
4/22	Brookline	1	Brian Cassie	6/9	Mt. Greylock	1	Tom Gagnon
4/22	ONWR, Harvard	1	Tom Murray#	6/11	Rutland SP, Rutland	5	Dan Mushrush
5/12	MAC, Watertown	1	S. Moore + B. Volkie	6/12	Mt. Greylock	3	M. Lynch + S. Carroll
5/15	Newbury	2	Sharon Stichter	6/13	Sherborn	1	Bob Bowker
5/16	Warwick	1	Susan Heinricher	6/16	Middleton	1	Jim Berry
5/17	Ipswich	1	Jim Berry	6/27	Royalston	5	Carl Kamp
5/21	Holliston	3	Richard Hildreth	6/29	IRWS	1	Fred Goodwin
5/31	DWMA, Stow	4	MBC (Barbara Walker)	7/3	Hawley	14	M. Lynch + S. Carroll
6/5	Uxbridge	2	B+R+M Walker	7/11	Mt. Greylock	23	Bill Benner#
6/12	Greylock Glen, Adams	2	MBC (Pam Weatherbee)	7/25	Mt. Holyoke Range	2	Bill Benner
6/19	AWS, Easthampton	3	Bill Benner	7/25	Royalston	1	Carl Kamp
6/27	MBWMA, Newbury	5	MBC (Stichter + Savich)	Red-spotted Admiral (Red-spotted Purple)			
6/28	Wellfleet	5	Mark Faherty	5/29	Florence	1	Tom Gagnon
7/3	Mt. Holyoke Range	5	Bill Benner#	5/29	DP, Grafton	4	W. Miller + D. Price
7/11	LL, Newbury	10	Erik Nielsen	5/30	Cedar Hill, Lexington	2	Tom Whelan
7/17	MPRA, W.Newbury	2	Sharon Stichter	6/4	ONWR, Harvard	5	Tom Whelan
7/20	South Amherst	2	Mark Faherty	6/6	CWMA, Falmouth	1	Alison Robb
7/24	South Hadley	1	Bill Benner	6/9	Foxboro	10	M. Champagne
8/19	Cape Ann	1	Doug Savich	6/10	MBWMA, Newbury	7	Sharon + Joe Stichter
10/3	MV	1	Allen Keith	6/11	Rutland SP, Rutland	25	Dan Mushrush
11/7	Chilmark	1	Matt Pelikan	6/12	DP, Grafton	5	MBC (Dolores Price)
Common Buckeye							
6/3	GBH, Canton	1	Tom Murray	6/13	Cheshire	9	M. Lynch + S. Carroll
6/24	GBH, Canton	2	Tom Murray	6/16	Middleton	3	Jim Berry
6/27	BFD/RSP	3	M. Lynch + S. Carroll	6/20	E. Longmeadow	3	Karen Parker
6/30	Cape Ann	1	Doug Savich	6/27	BFD/RSP	7	M. Lynch + S. Carroll
7/4	Athol	2	Ron + Sue Cloutier	7/3	Dubuque SF, Hawley	27	M. Lynch + S. Carroll
7/4	HMP, Woburn	1	Renee LaFontaine	7/9	OMSF	20	Tom Gagnon
7/7	Marblehead	2	Karen Haley	7/11	N. Berkshire Count	45	Tom Gagnon
7/10	Warwick	1	Susan Heinricher	7/11	Mt. Greylock	49	Bill Benner#
7/11	Bolton Flats, Lancaster	1	M. Lynch + S. Carroll	7/18	C. Berkshire Count	16	Tom Gagnon
7/22	Noman's Land	3	Allen Keith	7/25	Royalston	1	Carl Kamp
8/10	Easton/Sharon	12	Brian Cassie	8/8	Newbury	1	S. Moore + B. Volkie
8/30	Cape Ann	5	Doug Savich	8/28	Edgartown	3	Allen Keith
9/15	AP, S. Dartmouth	5	MBC (M. Champagne)	9/4	Katama	1	Allen Keith
9/26	Northampton WM	12	Tom Gagnon				
9/26	GN, Westport	8	Madeline Champagne				

Viceroy				7/18	power line, Milford	7	Erik Nielsen
5/20	CRPL, Chelmsford	2	Tom Whelan	7/22	MBWMA	3	Sharon + Joe Stichter
5/21	BMBS, Worcester	2	Dolores Price	7/25	Westport	2	M. Lynch + S. Carroll
5/23	Marlboro	3	S. Moore + B. Volkle	8/22	FSWR, Longmeadow	1	MBC (Tom Gagnon)
5/23	Stockbridge	4	Tom Gagnon	Appalachian Brown			
5/29	DP, Grafton	4	W. Miller + D. Price	6/15	ONWR, Harvard	1	Tom Murray
6/1	CRPL, Chelmsford	5	Tom Whelan	6/27	BMB, Worcester	1	B+R+M Walker
6/3	Bolton Flats, Bolton	4	Tom Murray	7/11	W.Newbury	9	Erik Nielsen
6/12	Greylock Glen, Adams	4	MBC (Pam Weatherbee)	7/16	MV	8	Allen Keith
6/12	DP, Grafton	11	MBC (D. Price)	7/21	Cape Ann	4	Doug Savich
6/16	MWMA, Windsor	7	B. Benner + J. Wicinski	7/25	Hadley	10	Mark Faherty
6/22	CRPL, Chelmsford	4	Tom Whelan	8/22	FSWR, Longmeadow	15	MBC (Tom Gagnon)
7/24	Tahanto HS, Boylston	4	MBC (Tom Dodd)	Little Wood-Satyr			
8/2	MBWMA, Newbury	10	Sharon + Joe Stichter	5/20	IRWS	1	Fred Goodwin
8/8	Lenox	12	Erik Nielsen	5/21	Holliston	1	Richard Hildreth
9/26	Bolton Flats	1	M. Lynch + S. Carroll	5/21	BMBS, Worcester	5	Dolores Price
10/1	Northampton CG	1	Bill Benner	5/23	Sherborn PL	12	Bob Bowker
10/1	Northampton CG	1	Tom Gagnon	5/29	DP, Grafton	35	W. Miller + D. Price
Hackberry Emperor				5/29	Martin Burns, Newbury	9	MBC (S.Stichter)
7/7	Forest Park, Springfield	2	Tom Gagnon	5/31	HMP, Woburn	53	Marj Rines
8/14	Forest Park, Springfield	1	Ron + Sue Cloutier	6/6	CWMA, Falmouth	100	Alison Robb
8/22	Forest Park, Springfield	3	MBC (Tom Gagnon)	6/10	MBWMA, Newbury	94	Sharon + Joe Stichter
Tawny Emperor				6/11	Foxboro	28	M. Champagne
7/3	Mount Holyoke	13	T. Gagnon + B. Benner	6/12	DP, Grafton	18	MBC (D. Price)
7/7	South Hadley	5	Dottie Case	6/12	BMB, Worcester	16	B+R+M Walker
7/7	Forest Park, Springfield	3	Tom Gagnon	6/16	MBWMA, Newbury	14	Tom Whelan
7/10	Hadley	9	Ron + Sue Cloutier	6/20	MBWMA, Newbury	10	S. Moore + B. Volkle
7/25	Mt. Holyoke Range	8	Bill Benner	6/27	BFD/RSP	13	M. Lynch + S. Carroll
7/26	South Hadley	4	Dottie Case	6/27	MBWMA, Newbury	15	MBC (Stichter + Savich)
8/2	Northampton	1 + 70 larvae	Dottie Case	7/4	E. Longmeadow	15	Karen Parker
8/6	Northampton CG	2	Bill Benner	7/7	E. Longmeadow	8	Karen Parker
8/16	Forest Park, Springfield	2	Ron + Sue Cloutier	7/11	CHR, W. Newbury	24	Erik Nielsen
Northern Pearly-Eye				7/17	South Amherst	12	Mark Faherty
6/20	ONWR, Harvard	1	Tom Murray	7/18	ONWR, Harvard	8	Tom Murray
6/27	BFD/RSP	4	M. Lynch + S. Carroll	7/22	MBWMA	5	Sharon + Joe Stichter
7/3	Rutland State Park	4	B+R+M Walker	7/25	power lines, Sherborn	4	Bob Bowker
7/9	OMSF	9	Tom Gagnon	8/3	Coast Guard, Eastham	1	B+R+M Walker
7/11	MPRA, W.Newbury	3	Erik Nielsen	8/5	Cape Ann	1	Doug Savich
7/18	C. Berkshire Count	5	Tom Gagnon	8/11	BMB, Worcester	1	B+R+M Walker
7/18	ONWR, Harvard	3	Tom Murray	Common Ringlet			
8/9	Royalston	2	Carl Kamp	5/16	N. Amherst	12	Tom Gagnon#
Eyed Brown				5/19	South Athol	10	Dave Small
6/21	Royalston	2	Carl Kamp	5/23	Harvard	27	Tom Murray
6/24	Williamsburg	2	Tom Gagnon	5/27	Florence	41	Tom Gagnon
6/27	Petersham	4	Bill Benner#	5/27	Lincoln	25	Marj Rines
7/3	Hawley Bog, Hawley	15	M. Lynch + S. Carroll	5/29	Martin Burns, Newbury	4	MBC (S. Stichter)
7/3	Petersham	12	M. Lynch + S. Carroll	5/29	South Athol	7	BI (C. Kamp + D. Small)
7/10	Longmeadow	6	Roger Pease	5/31	DWMA, Stow	21	B+R+M Walker
7/11	Mt. Greylock	2	Bill Benner#	6/1	CRPL, Chelmsford	15	Tom Whelan
7/11	Bolton Flats, Lancaster	1	M. Lynch + S. Carroll	6/5	W.Hill Park, Uxbridge	20	B+R+M Walker
				6/12	Warwick	20	Susan Heinricher
				6/13	S. Egremont	55	M. Lynch + S. Carroll
				6/16	MWMA, Windsor	40	B. Benner + J. Wicinski
				6/20	WMWS, Princeton	50	Carl Kamp

6/29	Williamstown	6	Pam Weatherbee	6/27	NCM, Petersham	10	Bill Benner#
8/3	E. Longmeadow	5	Karen Parker	6/28	Marblehead	30	Karen Haley
8/8	Wachusett Res.	54	B+R+M Walker	7/3	CHR, W. Newbury	20	MBC (Sharon Stichter)
8/8	World's End, Hingham	60	Bob Bowker	7/6	GBH, Canton	7	Madeline Champagne
8/18	Ipswich	30	Jim Berry	7/7	Marblehead	9	Karen Haley
8/22	Leicester	33	M. Lynch + S. Carroll	7/11	CHR, W. Newbury	24	Erik Nielsen
9/6	OMSF	49	S. Moore + B. Volkle	7/16	Tisbury	30	Allen Keith
9/15	Cape Ann	2	Doug Savich	7/24	Tahanto HS, Boylston	3	MBC (Tom Dodd)
9/26	Northampton WM	1	Tom Gagnon	7/27	Cape Ann	4	Doug Savich
Common Wood-Nymph							
6/24	E. Longmeadow	1	Karen Parker	7/31	Norcross WS	4	Elise Barry
6/27	Edgartown	1	Matt Pelikan	8/3	Florence	5	Tom Gagnon
7/4	SRCA	2	Tom Murray	8/8	Wachusett Res.	10	B+R+M Walker
7/9	Pittsfield	82	B. Benner + T. Gagnon	8/9	Leicester	40	MBC (D. Price)
7/16	MV	18	Allen Keith	8/28	Northampton CG	1	Bill Benner
7/17	South Amherst	24	Mark Faherty	9/22	Florence	1	Tom Gagnon
7/22	Noman's Land	75	Allen Keith	Long-tailed Skipper			
7/29	Cape Ann	186	Doug Savich	9/4	Marblehead	1	Karen Haley
7/31	Wellfleet	30	M. Lynch + S. Carroll	9/7	Marblehead	1	Karen Haley
8/4	Cape Ann	192	Doug Savich	Hoary Edge			
8/8	Cape Ann	329	Doug Savich	6/5	power lines, Milford	1	B+R+M Walker
8/8	Stackyard Road, Rowley	1000+	S. Moore + B. Volkle	6/12	DP, Grafton	3	MBC (D.Price)
8/9	Royalston	135	Carl Kamp	6/13	GBH, Canton	2	Erik Nielsen
8/14	Cape Ann	154	Doug Savich	6/21	South Hadley	5	Mark Faherty
9/13	Royalston	15	Carl Kamp	6/24	GBH, Canton	4	Tom Murray
9/15	AP, S. Dartmouth	2	MBC (M. Champagne)	6/27	HMP, Woburn	4	Marj Rines
9/22	MV	1	Allen Keith	7/3	Mount Holyoke	1	T. Gagnon + B. Benner
9/26	Cape Ann	1	Doug Savich	7/18	BMB, Worcester	1	B+R+M Walker
Monarch							
5/30	Petersham	1	Erik Nielsen	7/22	GBH, Canton	1	Tom Murray
6/13	Westboro	1	S. Moore + B. Volkle	Southern Cloudywing			
6/27	MBWMA, Newbury	2	MBC (Stichter + Savich)	5/20*	Sunderland	1	Dottie Case
6/29	Williamsburg	3	Tom Gagnon	6/6	CWMA, Falmouth	7	Alison Robb
7/2	GF, Williamsburg	3	Bill Benner	6/17	GBH, Canton	6	Tom Murray
7/3	Rutland State Park	4	B+R+M Walker	6/23	GBH, Canton	5	Brian Cassie
7/8	Ipswich	4	Jim Berry	6/26	HMP, Woburn	2	Steve Moore
7/10	Warwick	3	Susan Heinricher	6/27	MBWMA, Newbury	7	MBC (Stichter + Savich)
7/16	Tisbury	3	Allen Keith	6/30	CWMA, Falmouth	10	CCMNH (Tor Hansen)
8/8	World's End, Hingham	8	Bob Bowker	7/4	GBH, Canton	8	Erik Nielsen
8/17	Choate Island, Essex	7	Jim Berry	7/7	GBH, Canton	2	M.Champagne
8/22	Northampton CG	8	Bill Benner	7/18	GBH, Canton	1	Erik Nielsen
8/28	Northampton CG	5	Bill Benner	Northern Cloudywing			
8/31	Florence	5	Tom Gagnon	5/19	WR	4	Fred Goodwin
9/8	Allan's Pond	6	B+R+M Walker	5/23	Cedar Hill, Lexington	1	Tom Whelan
9/15	AP, S. Dartmouth	12	MBC (M. Champagne)	5/27	Florence	1	Tom Gagnon
9/29	GN, Westport	9	Madeline Champagne	5/29	DP, Grafton	4	W. Miller + D. Price
10/3	GN, Westport	9	Bob Bowker	5/31	HMP, Woburn	3	Marj Rines
10/5	Northampton	5	Dottie Case	6/3	Cape Ann	8	Doug Savich
10/13	Noman's Land	4	Allen Keith	6/12	Greylock Glen, Adams	6	MBC (Pam Weatherbee)
10/27	Florence	1	Tom Gagnon	6/12	DP, Grafton	8	MBC (Dolores Price)
10/31	Nahant	1	Dorothy Saffarewich	6/16	MBWMA, Newbury	9	Tom Whelan
Silver-spotted Skipper							
5/18	ONWR, Harvard	1	Tom Murray	6/21	Royalston	3	Carl Kamp
5/20	CRPL, Chelmsford	1	Tom Whelan	6/28	Cape Ann	3	Doug Savich
5/31	Florence	6	Tom Gagnon	8/2**	MBWMA, Newbury	1	Sharon + Joe Stichter
6/19	AWS, Easthampton	9	Bill Benner	Dreamy Duskywing			
				4/30	New Salem	7	Dave Small#
				5/13	GBH, Canton	4	Tom Murray
				5/13	Florence	5	Tom Gagnon
				5/17	DWMA, Stow	7	Tom Murray

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5/29	DP, Grafton	15	W. Miller + D. Price	10/4	HMP, Woburn	1	Tom Murray
5/31	HMP, Woburn	10	Marj Rines	Common Checkered-Skipper			
6/12	Greylock Glen, Adams	10	MBC (Pam Weatherbee)	9/13	Northampton CG	1	B. Benner + T. Gagnon
6/16	MBWMA, Newbury	3	Tom Whelan	10/8	Northampton CG	1f	Bill Benner
6/21	HMP, Woburn	2	Tom Murray	Common Sootywing			
6/27	MBWMA, Newbury	1	MBC (Stichter + Savich)	5/8	W. Brookfield	1	M. Lynch + S. Carroll
Sleepy Duskywing							
5/5	Parnet River, Truro	2	Alison Robb	5/16	Sunderland	1	Tom Gagnon#
5/12	State Forest, W.Tisbury	17	Matt Pelikan	5/17	DWMA, Stow	1	Tom Murray
5/29	Martin Burns, Newbury	1	MBC (S. Stichter)	5/22	DWMA, Stow	4	Tom Whelan
5/31	DWMA, Stow	2	MBC (Barbara Walker)	5/31	DWMA, Stow	23	MBC (Barbara Walker)
5/31	HMP, Woburn	2	Marj Rines	6/11	Rutland SP, Rutland	4	Dan Mushrush
6/3	Cape Ann	1	Doug Savich	6/12	DP, Grafton	3	MBC (Dolores Price)
6/5	Sherborn	1	NEWFS BI (E. Nielsen)	6/13	Sherborn	3	Bob Bowker
6/12	Chicopee	2	Tom Gagnon	7/17	Northampton count	62	Tom Gagnon
6/13**	Westboro	1	S. Moore + B. Volkle	7/22	MBWMA	1	Sharon + Joe Stichter
Juvenal's Duskywing							
4/24	Lexington	3	Rines + LaFontaine	8/22	Northampton CG	26	Bill Benner
4/27	Amherst	1	Dottie Case	9/13	Northampton CG	1	Bill Benner
4/29	ONWR, Harvard	1	Elise Barry#	Arctic Skipper			
5/1	GBH, Canton	5	Erik Nielsen	5/30	Tully Meadow, Orange	1	Carl Kamp + Alyce Mayo
5/7	BMBS, Worcester	6	Tom Murray	5/30	Royalston	1	Carl Kamp + Alyce Mayo
5/8	Foxboro	4	M. Champagne	5/30	Rutland	1	M. Lynch + S. Carroll
5/12	MV	4	Allen Keith	6/5	Windsor	43	Tom Gagnon
5/13	GBH, Canton	9	Tom Murray	6/16	MWMA, Windsor	5	B. Benner + J. Wicinski
5/20	CRPL, Chelmsford	5	Tom Whelan	6/27**	Royalston	1	Carl Kamp
5/23	Marlboro	10	S. Moore + B. Volkle	Least Skipper			
5/31	Petersham	6	M. Lynch + S. Carroll	5/29	DP, Grafton	1	W. Miller + D. Price
6/5	Sherborn	12	NEWFS BI (E. Nielsen)	5/30	E. Longmeadow	1	Karen Parker
6/13	GBH, Canton	3	Erik Nielsen	5/31	DWMA, Stow	1	MBC (Barbara Walker)
6/13	Lexington	1	Tom Whelan	6/5	RiverBendFar, Uxbridge	6	B+R+M Walker
Horace's Duskywing							
6/5	Sherborn	2	NEWFS BI (E. Nielsen)	6/13	S. Egremont	8	M. Lynch + S. Carroll
6/17	GBH, Canton	1	Tom Murray	6/19	Framingham	10	NEWFS BI (Tom Dodd)
7/6	GBH, Canton	2	Madeline Champagne	6/25	Northampton CG	4	Bill Benner
7/18	GBH, Canton	5	Erik Nielsen	6/30	CWMA, Falmouth	3	CCMNH (Tor Hansen)
8/1	BHRA, Lancaster	1	Tom Murray	7/11	Mt. Greylock	9	Bill Benner#
9/9	GBH, Canton	1	Tom Murray	8/6	Northampton CG	10	Bill Benner
9/12	GBH, Canton	2	Madeline Champagne	8/8	Newburyport	4	S. Moore + B. Volkle
Wild Indigo Duskywing							
5/13	GBH, Canton	3	Tom Murray	8/19	Hadley	25	Mark Faherty
5/15	Newbury	1	Sharon Stichter	8/19	FSWR	46	E. Barry + S. Bolton
5/17	DWMA, Stow	8	Tom Murray	8/22	Northampton CG	32	Bill Benner
5/19	WR	2	Fred Goodwin	9/4	Wayland CG	5	W. Miller + D. Price
5/21	BMBS, Worcester	2	Dolores Price	9/10	Chilmark	5	Allen Keith
6/4	BMB, Worcester	3	B+R+M Walker	9/19	Northampton	1	MBC (Tom Gagnon)
7/24	Tahanto HS, Boylston	8	MBC (Tom Dodd)	9/26	GN, Westport	3	Madeline Champagne
8/1	BHRA, Lancaster	7	Tom Murray	10/7	Chilmark	1	Allen Keith
8/2	Northampton CG	3	Tom Gagnon	European Skipper			
8/9	Chelmsford	4	Tom Whelan	5/21*	Holliston	3	Richard Hildreth
9/6	OMSF	3	S. Moore + B. Volkle	5/29	DP, Grafton	1	W. Miller + D. Price
10/1	Northampton CG	1	Bill Benner				

5/31	DWMA, Stow	6	MBC (Barbara Walker)	6/20	Oak Bluffs	1	Matt Pelikan
6/5	W.Hill Park, Uxbridge	11	B+R+M Walker	6/20	Pine Hill Res., Rutland	1	M. Lynch + S. Carroll
6/12	DP, Grafton	150	MBC (Dolores Price)	6/27	MBWMA, Newbury	2	MBC (Stichter + Savich)
6/13	GBH, Canton	145	Erik Nielsen	Peck's Skipper			
6/17	GBH, Canton	1500	Tom Murray	5/21	Holliston	3	Richard Hildreth
6/19	AWS, Easthampton	225	Bill Benner	5/21	Upton	49	Tom Dodd
6/20	WMWS, Princeton	200	Carl Kamp	5/21	BMBS, Worcester	2	Dolores Price
6/21	Royalston	200	Carl Kamp	5/27	Florence	12	Tom Gagnon
6/24	GBH, Canton	2000	Tom Murray	5/30	E. Longmeadow	18	Karen Parker
6/27	Royalston	75	Carl Kamp	6/3	GBH, Canton	5	Tom Murray
6/27	HMP, Woburn	45	Marj Rines	6/4	Upton	41	Tom Dodd
6/29	Williamsburg	300	Tom Gagnon	6/5	E. Longmeadow	16	Karen Parker
7/2	GF, Williamsburg	75	Bill Benner	6/5	power lines, Milford	14	B+R+M Walker
7/3	Dubuque SF, Hawley	214	M. Lynch + S. Carroll	6/5	Upton	69	Tom Dodd
European Skipper (cont.)				6/12	DP, Grafton	13	MBC (D.Price)
7/4	GBH, Canton	400	Erik Nielsen	6/13	GBH, Canton	11	Erik Nielsen
7/8	Ipswich	100s	Jim Berry	8/7	Chilmark	2	Allen Keith
7/25	Rockport	1	MBC (Doug Savich)	8/7	E. Longmeadow	15	Karen Parker
8/8	Newburyport	3	S. Moore + B. Volkie	8/19	Hadley	40	Mark Faherty
Fiery Skipper				8/22	Newbury	11	Sharon Stichter
9/16	Northampton CG	1m	Ron + Sue Cloutier	9/4	Wayland CG	4	W. Miller + D. Price
9/23	GBH, Canton	1	Tom Murray	9/5	Cape Ann	4	Doug Savich
9/25	NAC, Concord	1	Erik Nielsen	10/8	Northampton CG	2	Bill Benner
9/25	Wayland CG	1m	MBC (Erik Nielsen)	10/14	Florence	1	Tom Gagnon
9/27	MV	1	Allen Keith	Tawny-edged Skipper			
9/30	IRWS	1f	Fred Goodwin	5/16	North Amherst	1	Tom Gagnon
10/1	Northampton CG	1	Tom Gagnon	5/21	Upton	1	Tom Dodd
10/8	Northampton CG	2m	Ron + Sue Cloutier	5/27	Florence	9	Tom Gagnon
Leonard's Skipper				5/29	DP, Grafton	5	W. Miller + D. Price
8/2*	Crowe's, Dennis	1	B+R+M Walker	6/5	Milford PL	2	B+R+M Walker
8/4	Truro	1	B+R+M Walker	6/17	GBH, Canton	4	Tom Murray
8/27	Cape Ann	3	Doug Savich	6/30	CWMA, Falmouth	2	CCMNH (Tor Hansen)
9/3	Oak Bluffs	3	Matt Pelikan	7/16	Tisbury	2	Allen Keith
9/6	Belchertown	1	Andrew Spencer	7/31	East Longmeadow	8	Karen Parker
9/12	GBH, Canton	1	Madeline Champagne	8/19	Hadley	8	Mark Faherty
9/13	Royalston	2	Carl Kamp	8/22	Northampton CG	3	Bill Benner
9/17	CRPL, Chelmsford	1	Tom Whelan	10/1	Northampton CG	1	Bill Benner
Cobweb Skipper				10/12**	Northampton CG	1	Tom Gagnon
5/11	Turners Falls	21	Tom Gagnon	Crossline Skipper			
5/11	Uxbridge	1	Russell Holden	6/6*	CWMA, Falmouth	2	Alison Robb
5/15	Foxboro	2	Madeline Champagne	6/13	Westboro	2	S. Moore + B. Volkie
5/19	WR	1	Fred Goodwin	7/4	Montague	1	Tom Gagnon
5/19	South Athol	2	Dave Small	7/16	Tisbury	15	Allen Keith
5/23	MV	2	Allen Keith	7/18	BMB, Worcester	3	B+R+M Walker
5/29	South Athol	2	BI (C. Kamp + D. Small)	7/25	Mt. Holyoke Range	2	Bill Benner
6/3	GBH, Canton	2	Tom Murray	8/11	BMB, Worcester	2	B+R+M Walker
Indian Skipper				8/29**	Barnstable	1	S. Moore + B. Volkie
5/27	Florence	31	Tom Gagnon	Long Dash			
5/29	South Athol	1	BI (C. Kamp + D. Small)	5/19*	WR, Andover	3	Fred Goodwin
5/30	Petersham	4	Erik Nielsen	5/30	Cedar Hill, Lexington	5	Tom Whelan
6/3	GBH, Canton	2	Tom Murray	6/5	W.Hill Park, Uxbridge	7	B+R+M Walker
6/5	Sherborn	5	NEWFS BI (E. Nielsen)	6/12	BMB, Worcester	9	B+R+M Walker
6/13	GBH, Canton	4	Erik Nielsen	6/13	S. Egremont	3	M. Lynch + S. Carroll
				6/20	WMWS, Princeton	5	Carl Kamp
				6/30	CWMA, Falmouth	10	CCMNH (Tor Hansen)

7/9	OMSF	5	B. Benner + T. Gagnon
7/18	Paxton	2	M. Lynch + S. Carroll
9/13	NCM, Petersham	1	Ron + Sue Cloutier

Northern Broken-Dash

5/16*	N. Amherst	1	Tom Gagnon#
6/17	GBH, Canton	1	Tom Murray
6/20	E. Longmeadow	1	Karen Parker
7/2	BMB, Worcester	5	B+R+M Walker
7/4	SRCA	5	Tom Murray
7/11	CHR, W. Newbury	16	Erik Nielsen
7/22	MBWMA	11	Sharon + Joe Stichter
7/25	Mt. Holyoke Range	18	Bill Benner
7/25	Rockport	4	MBC (Doug Savich)
7/29	Wellfleet	6	Tom Whelan
8/2	Crowe's, Dennis	6	B+R+M Walker
8/8	World's End, Hingham	6	Bob Bowker
8/28	Northampton CG	3	Sharon Stichter
9/3	MWMA, Windsor	1	Bill Benner

Little Glassywing

5/24*	E. Longmeadow	1	Karen Parker
5/25	South Deerfield	1	Karen Parker
6/23	Amherst	4	Mark Faherty
7/1	GBH, Canton	6	Tom Murray
7/1	HMP, Woburn	1	Rines + LaFontaine
7/3	Sterling	4	Carl Kamp
7/4	GBH, Canton	7	Erik Nielsen
7/11	CHR, W. Newbury	6	Erik Nielsen
7/18	ONWR, Harvard	5	Tom Murray
7/18	BMB, Worcester	4	B+R+M Walker
7/25	Rockport	2	MBC (Doug Savich)
7/31	E. Longmeadow	1	Karen Parker
8/1	BHRA, Lancaster	1	Tom Murray
8/7	Canal, Bourne	1	B+R+M Walker

Delaware Skipper

6/26	HMP, Woburn	3	Steve Moore
7/1	E. Longmeadow	1	Karen Parker
7/4	SRCA	6	Tom Murray
7/9	Cumington	4	B. Benner + T. Gagnon
7/11	CHR, W. Newbury	7	Erik Nielsen
7/17	Northampton count	11	Tom Gagnon
7/18	BMB, Worcester	5	B+R+M Walker
7/25	Cape Ann	11	Doug Savich
7/31	Norcross WS	2	Elise Barry
10/4**	Sudbury CG	1m	Tom Murray

Mulberry Wing

7/4	ONWR, Harvard	1	Tom Murray
7/9	CRPL, Chelmsford	1	Tom Whelan
7/10	S. Berkshire Count	2	Tom Gagnon
7/10	Longmeadow	4	Roger Pease
7/18	SRCA	2	Tom Murray
7/18	power line, Milford	12	Erik Nielsen
7/25	Cape Ann	25	Doug Savich
7/25	Hadley	11	Mark Faherty
7/25	Rockport	25	MBC (Doug Savich)
8/11	BMB, Worcester	2	B+R+M Walker

Hobomok Skipper

5/16	N. Amherst	1	Tom Gagnon#
5/21	BMBS, Worcester	2	Dolores Price
5/27	Amherst	15	Mark Faherty
5/29	Martin Burns, Newbury	12	MBC (Sharon Stichter)
5/30	E. Longmeadow	5	Karen Parker
5/31	DWMA, Stow	6	MBC (Barbara Walker)
6/12	DP, Grafton	12	MBC (Dolores Price)
6/13	S. Egremont	4	M. Lynch + S. Carroll
6/16	MBWMA, Newbury	8	Tom Whelan
6/20	E. Longmeadow	4	Karen Parker
6/20	ONWR, Harvard	3	Tom Murray
6/27	Royalston	3	Carl Kamp
6/29	Cape Ann	3	Doug Savich
7/3	Dubuque SF, Hawley	2	M. Lynch + S. Carroll
7/9	OMSF	1	B. Benner + T. Gagnon

Broad-winged Skipper

7/16	Medford	5	Renee LaFontaine
7/17	Medford	20	LaFontaine + Rines
7/18	ONWR, Harvard	1	Tom Murray
7/18	Pittsfield	5	Tom Gagnon
7/25	E. Longmeadow	1	Karen Parker
7/30	Greenfield	1	Ron + Sue Cloutier
8/8	World's End, Hingham	2	Bob Bowker
8/8	BMB, Worcester	5	B+R+M Walker
8/10	MV	2	Allen Keith
8/11	BMB, Worcester	2	B+R+M Walker

Dion Skipper

7/9	N. Adams	2	T. Murray#
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Black Dash

6/13*	Westboro	1	S. Moore + B. Volkle
6/26	HMP, Woburn	2	Steve Moore
7/18	SRCA	5	Tom Murray
7/18	power line, Milford	8	Erik Nielsen
7/21	Cape Ann	15	Doug Savich
7/22	MBWMA	4	Sharon + Joe Stichter
7/25	Cape Ann	30	Doug Savich
8/9	Chelmsford	2	Tom Whelan

Two-spotted Skipper

6/27	Petersham	2	Bill Benner#
6/28	Petersham	3	Tom Murray
7/1	Petersham	1	W. Bosse + M. Nelson

Dun Skipper

6/12*	Warwick	3	Susan Heinricher
6/20	E. Longmeadow	1	Karen Parker
6/29	Williamsburg	3	Tom Gagnon
7/7	Oak Bluffs	6	Allen Keith
7/11	Mt. Greylock	7	Bill Benner#
7/17	Northampton count	15	Tom Gagnon
7/18	ONWR, Harvard	30	Tom Murray
7/25	Hadley	5	Mark Faherty

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7/31	Wellfleet	10	M. Lynch + S. Carroll
8/2	Royalston	11	Carl Kamp
8/8	Edgartown	10	Allen Keith
8/8	World's End, Hingham	27	Bob Bowker
8/10	Edgartown	2	Allen Keith
8/22	Cape Ann	2	Doug Savich
9/6	Sudbury CG	1	Erik Nielsen

Dusted Skipper

5/19*	South Athol	4	Dave Small
5/23	Cedar Hill, Lexington	7	Tom Whelan
5/27	Amherst	4	Dottie Case
5/27	Florence	106	Tom Gagnon
5/30	Cedar Hill, Lexington	12	Tom Whelan
5/31	Vineyard Haven	4	Allen Keith
6/9	Cape Ann	1	Doug Savich
6/13	GBH, Canton	5	Erik Nielsen
6/17	GBH, Canton	1	Tom Murray

Pepper and Salt Skipper

5/15*	ONWR, Harvard	2	Tom Murray
5/18	ONWR, Harvard	10	Tom Murray
5/30	Petersham	3	Erik Nielsen
5/30	Rutland	1	M. Lynch + S. Carroll
5/30	W.Newbury	1	Elise Barry#
5/31	DWMA, Stow	2	MBC (Barbara Walker)
6/9	Mt. Greylock	5	Tom Gagnon
6/20	WMWS, Princeton	2	Carl Kamp

Common Roadside-Skipper

5/31	Florence	1	Tom Gagnon
6/12	Mt. Greylock	1	M. Lynch + S. Carroll

Ocola Skipper

8/22*	Draper Park, Hopedale	1	Ron + Sue Cloutier
8/22	FSWR, Longmeadow	1	MBC (Tom Gagnon)
8/22	Newbury	1	Sharon Stichter
9/6	Draper Park, Hopedale	1	Tom + Cathy Dodd
9/13	Northampton CG	1	Bill Benner
9/22	AP, S. Dartmouth	1	Tom Whelan
10/3	Pescott Peninsula, Quabbin	1	Tom Gagnon#
10/4	Northampton WM	1	Tom Gagnon



Reviews

For Love of Insects. Thomas Eisner. Belknap Press of Harvard University Press, November, 2003. \$29.95

Reviewed by Renee LaFontaine

This guy has the ideal life. I mean, if you love insects, what could be better than going on unstructured exploratory walks and chancing upon intriguing insect behavior, then designing clever experiments to test some hypotheses about that behavior. And of course you have enthusiastic graduate students to help, a wife with scanning electron microscope expertise, friends like Harvard's E.O. Wilson to accompany you on a field trip across the country, M.I.T.'s "Doc" Edgerton to take high-speed photographs, and colleagues with access to the latest chemical analysis technology.

"This guy" is Thomas Eisner, Professor of Chemical Ecology at Cornell University and the author of *For Love of Insects*. In this book he describes a lifetime of discoveries about insects' defense mechanisms and reveals the details of the experiments he and his students conducted to investigate them. The writing is lively and goes into fascinating detail about each insect and the experiments that were performed with it.

For example, did you know that
- there is a caterpillar that fastens pieces of flower petals to its back in order to hide from predators?
-"Bombadier" beetles can produce a protective spray at the

- temperature of boiling water?
- the fake eyes on Spicebush Swallowtail caterpillars appear to stare at you from any direction?
 - one species of carapid beetle conceals itself by making a kind of straw nest out of strands of its own feces?
 - Monarch and Queen butterfly caterpillars have a clever trick to avoid getting their mouth parts gummed up with sticky latex while they are eating milkweed leaves?
 - imported pet lizards have been poisoned by eating fireflies, but native lizards have evolved to avoid them?
 - some kinds of spiders can leave their webs up all day, but others need to take them down at dawn?

And best of all are the amazing photographs on almost every page, showing the tiniest details of insect anatomy and behavior.

This is not really a butterfly book, although there are a few sections that deal with them, including my favorite, the Harvester. But anyone who has ever wondered why an insect "looks like that" or "acts like that" or how it survives in a world full of bigger predators will enjoy this book.



A World of Butterflies Text by Brian Cassie. Photographs by Kjell Sandved. Foreword by Robert Pyle. New York: Chanticleer Press, 2004. Hardcover \$22.50

Reviewed by Carl Kamp

A World of Butterflies is a perfect coffee table book. Its authors have impeccable credentials and the 4"x 6" book is joy to peruse, while still leaving room on the table for coffee and crumpets. Most of the 245 color photographs are by award-winning nature photographer Kjell Sandved, and the accompanying life stories are by our own nationally recognized expert, Brian Cassie.

In addition to Kjell's photos, Brian also has a few items on the photo credits page and there are two dozen more by New York expert Rick Cech. The foreword is by Robert Pyle, another well known name in butterfly circles. He has this to say about the written descriptions about butterflies: "Here they fairly fly off the page in Brian Cassie's lively text."

The book will bring hours of pleasure to the casual observer and is sure to capture their attention. For the experienced naturalist, it highlights examples of some of the world's thousands of species, choosing butterflies, and some moths too, from a dozen countries spanning the globe. As you flip the pages you might find an old friend like an American Copper or a Red Admiral. If you went to Texas recently you might find a new acquaintance like the Silver Emperor or the Empress Leilia, and in addition, a plethora of "eye popping" beauties that we usually see only in our dreams.

Brian's introduction covers general details about anatomy, life cycle, migration, feeding, mimicry, scales and patterns, and

conservation. The notes on taxonomy detail the highlights of the six butterfly families and the breakdown of some 17,000 species by family. I agree with Brian's summation, that the book "is not a field guide..... It is, rather, a glance into the incredible diversity and dazzling beauty of a world of butterflies."

Please note that Brian and Rick are scheduled to speak at the upcoming Butterfly Symposium in Athol, Massachusetts on April 16th 2005, and autographed copies of the book will be available there.

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The following new books are forthcoming in 2005:

Rick Cech and Guy Tudor, *Butterflies of the East Coast: An Observer's Guide*, Princeton University Press, June 2005.

Thomas J. Allen, James P. Brock and Jeffrey Glassberg, *A Field Guide to Caterpillars*, Butterflies Through Binoculars Series, Oxford University Press, May, 2005.

David L. Wagner, *Caterpillars of Eastern North America: A Guide to Identification and Natural History*. Princeton Field Guides, Princeton University Press, August 2005.

Massachusetts Butterflies is looking for people to review these books for the journal. If you are interested, please contact the editor at sharonstichter2@comcast.net .

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 Erik Nielsen by August 1 for inclusion in the Fall issue, and your season sightings and records to Erik 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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