Massachusetts Butterflies



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Cover Photo: Pipevine Swallowtail (Battus philenor), by Frank Model, Northampton Community Gardens, October 7, 2007

Growing Jewels – Managing for Harris' Checkerspot and Other Lepidoptera

Martha Gach Conservation Coordinator, Mass Audubon, Broad Meadow Brook Sanctuary

I used to leave butterflies to the experts. After all, they're ephemeral bugs that just happen to be decorative, unless of course you're a hungry bird or perhaps a parasitic wasp. Occasionally I'd stumble across an intriguing, oddly-shaped pupa that I could pick up. They twitched a little when you held them and I assumed that surrounding yourself with a tough shell was the only way these creatures survived the long cold winters. Then I discovered Harris' Checkerspots, in all their larval glory. Here were caterpillars that overwintered in the leaf litter, tiny but tough miracles of springtime resurrection. Here were caterpillars munching away with not a care in the world, visible to anyone out for a spring jaunt in the right place. Not only that, here were big, orange caterpillars with black spikes serious enough to make a teen Goth jealous. I was hooked.

Unlike their larvae, Harris' Checkerspot adults (*Chlosyne harrisii*) don't stand out to the untrained eye. Small, with orange and black wing patterns, they could be confused with Pearl Crescents or perhaps a couple of the smaller fritillaries. They only fly for a couple of weeks. Neither they nor their host plant are state-listed species - yet. Yet this little butterfly was the impetus behind the efforts at Mass Audubon's Broad Meadow Brook Sanctuary to manage powerline habitat. This paper details aspects of the management plan and some of the results.

Harris' Checkerspots lay wedding-cake tiers of bright yellow eggs on their host plant, tall flat-topped aster (*Aster umbellatus*). The caterpillars hatch in early July and are social creatures -- a young caterpillar isolated from its brethren will starve rather than dine alone. In the process they spin loose webs, messier than those of Eastern tent caterpillars, which provide the most visible clue to the small gray-green larvae. Occasionally they defoliate their birth plant and must find another, which they search for with random success (Dethier, 1959). By mid-August they are in the 3rd instar, and drop to the ground to diapause, or stay dormant, in the leaf litter. They re-emerge in May when the asters have sprouted to about 1.5 feet tall. Instars complete their development and pupate, and in our area, the short flight period begins mid-June.

Cech (2005) characterizes Harris' as a "medium specialist", because of a specialized lifestyle. Its single host plant tends to be widely but spottily distributed. In part due to this disjunct distribution, Harris' Checkerspot as a whole is thought to fit a metapopulation concept, in which a large population provides the source of individuals for smaller, outlying populations which occasionally become extinct but can recolonize from the source. The source in our area appears to be in Holden, MA, although population levels there have dropped in recent years due to a change in mowing regime (Choiniere, pers. comm.)

Massachusetts is near the southern edge of the species' range, which looks to be contracting (Stichter, this volume). Here Harris' Checkerspots are locally common but patchy and fluctuating. The populations at Broad Meadow Brook are in two non-contiguous areas about 0.5 miles apart. They have been present at least since 1991, when the Sanctuary came into being and monitoring began (Figure 1).

Flat-topped aster, *Aster umbellatus*, the Harris' Checkerspot host plant, is an erect perennial forb that can grow up to 8 feet tall. It is distinguished from other asters by narrow leaves, a slightly hairy, usually purplish stem, and an early bloom period that begins in late July. It also grows comparatively faster than the co-occurring New England aster, which makes it the tallest aster in the field. Apart from height, the inflorescence is distinctive, large and flat with multiple flowers sporting sparse white or pale pink/blue petals. *A. umbellatus* favors moist well-drained soil (though it is also in dry meadows) and is a typical plant of moist meadows or riverbanks, or tall-grass prairie further west. It is also found in waste areas where the soil has been disturbed. Like many things, it's fairly common if you have the search image. I have seen it growing on cliffs with sweetfern (*Comptonia*), on our powerlines in thin, poor soil, and in wet meadows.

Broad Meadow Brook Wildlife Sanctuary and Conservation Center (BMB), in Worcester, is one of 45 Mass Audubon sanctuaries. With 422 acres of conservation land, it is in fact the largest urban wildlife sanctuary in all of New England, but despite public outreach efforts, it remains the best-kept secret in the city. (Some would argue this is a good thing.) The land is owned in part by National Grid, in part by the City of Worcester and the Greater Worcester Land Trust, and in part by Mass Audubon, which manages the whole as a wildlife sanctuary. The working relationship among these entities is a model of a highly successful 21st century conservation partnership.

BMB currently leads Mass Audubon sanctuaries in butterfly diversity, with 78 species documented to date, thanks to the efforts of dedicated Massachusetts Butterfly Club [MBC] members. The variety of habitats makes this possible. Within the sanctuary are several types of marshes, black oak savannah and oak/hickory

forests, wooded and open wetlands, and grasslands. Most of the grasslands are part of a powerline running north-south along the sanctuary.

The powerline is a long, narrow swath of open land along a ridgetop. Longitudinally bisected by a service road, it contains several distinct habitats, including vernal pools that support spotted turtles, grasslands with dry, poor soils, and occasional shrubby areas. Nesting boxes have drawn Eastern Bluebirds; summer residents also include Prairie Warblers, Rufous-sided Towhees and Red-tail Hawks. The soils are generally thin, characterized by communities of lichen, sweetfern, and lowbush blueberry, or wild indigo and fern-leaved false foxglove. In various places, sand cherry, ferns, sweetfern, or blueberry relatives dominate the flora.

A. *umbellatus* is found in two areas of the Sanctuary, along the powerline and in a low, wet meadow near the northern end of Broad Meadow Brook itself. Harris' Checkerspots have been recorded in both places; the wet meadow population is generally minimal and sporadic while the larger upland habitat supports more individuals. The 2-acre upland field is aptly named the "hill-top meadow", and contains an approximately equal mix of goldenrods, milkweed, Joe-Pye weed and flat-topped aster. Sanctuary records show spring Harris' larvae appearing from May 7 – June 5 and adult butterflies between May 26 – July 4, just as this field is coming into bloom. Larvae have also been found on asters that crop up in the southern, less floristically diverse region of the powerlines closer to Route 20.

The area is managed by National Grid in conjunction with input from Mass Audubon. The company has been an enthusiastic partner in the sanctuary's land management. Company personnel have carefully delineated sensitive areas during their operations and have donated interpretive kiosks along the powerlines, a wonderful introduction for visitors to the area.

Selective herbiciding by National Grid every 5 years or so as part of standard powerline management practices has helped maintain the habitat. Perhaps more effective, frequent accidental fires kept the grasslands in an early successional state. However, in recent years the fire incidence has declined, likely as neighborhood children outgrew their after-school hobbies.

Without fires, blackberry and bittersweet began encroaching on the meadow, and the Harris' Checkerspot counts began to decrease (Table 1). In 2005 the Sanctuary's Ecomanagement Committee approached National Grid about mowing the area. We needed to decide when to mow and how best to do it, with the goal of maintaining the aster and thus the butterflies.

The Committee felt that late autumn would give herbaceous plants time to go to seed, insects to enter diapause, and migrating birds to leave the area. To decide mowing borders and equipment, we walked the area with National Grid's Tom Sullivan. Tom is Manager of Transmission Forestry, in charge of regional powerline management. We discussed mowing low to the ground in order to deter woody vegetation, especially blackberries, while using equipment that disturbed the soil just a little would aid seed germination and establishment of the asters without damaging the diapausing insects too greatly. Agonizing over the amount of habitat to treat, we decided to mow the entire meadow because caterpillars were present in other areas of the powerline and the wet meadow, providing potential refugia in case the target population was damaged.

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Accordingly, National Grid sent their crew in late November 2005 when all was dry and brown. In the space of a day they reduced everything to about 4", using a small Bobcat with a 4-5' wide mowing attachment and bulldozer treads. One crew member operated the machine, the second hand-cut around rocks and utility poles. They were thorough. To put it bluntly, the meadow seemed to have become a moonscape. MBC members toured the next weekend and were shocked to see the "devastation"; someone gathered dried aster seedheads and scattered them over the open Sanctuary staff were also taken aback by the sight ground. (imagine bulldozing over defenseless caterpillars), but we reassured ourselves that all would be well; we had done the right thing. To assuage our guilt, we piled up the cut brush for wildlife shelters.

When spring finally came, the meadow looked lush and green, but what about the caterpillars? We could hardly wait till May to find out. To our delight, we gleefully counted nearly 80 late instar caterpillars that had survived the mowing treatment, made it through the winter and were busy chomping on tender young *A. umbellatus* leaves. A healthy number of adults followed in a few weeks (Figure 2), and webs with early instars after that.

We informally monitored the meadow for asters and blackberry and elected to follow a biennial mowing regime simply because it was effective in maintaining conditions for the asters and other forbs, but less intrusive than annual treatment. Accordingly, National Grid graciously agreed to mow again in November 2007. Because of a heavy rain, we delayed the process for a day, to prevent the mowing machine from tearing up the soft ground. We used the same equipment and techniques this time (see photos), and are looking forward with much less anxiety to another bountiful year of Harris' Checkerspots. As grasslands and their associated fauna decline in Massachusetts, it becomes increasingly important to implement conservation measures for these habitats. Keeping meadows in an early successional state by mowing in late fall not only benefits Harris' and many other butterfly species but also promotes the highest diversity of orthoptera, herps, and small mammals that use these habitats.

Harris' Checkerspots are uncommon enough to be exciting. Now whenever I guide groups through the area during web season, I point out the webs and talk about the butterfly and its life cycle. It's really special that our Sanctuary is host to several viable populations, and I am hopeful that the management experience we are gaining by focusing on Harris' Checkerspots will trickle up to the other 77+ butterfly species that use the Sanctuary.



Harris' Checkerspot Photo: Tom Whelan, Martin Burns WMA, 6-18-06

Year	Harris' Adults	Spring Larvae	Observation Hours
1991	23	Laivao	riodio
1992	5		
1993	5		
1994	11		
1995	n.d.		
1996	n.d.		
1997	16		
1998	8		
1999	6		
2000	2	81	38
2001	24	31	47
2002	7	56	16
2003	21	n.d.	17
2004	44	n.d.	13
2005	8	2	7
2006	29	78	22
2007	19	35	14

Table 1. Harris' Checkerspot population, maximum counts of adults and 4^{th} instar (spring) larva at Broad Meadow Brook Wildlife Sanctuary, 1991-2007. Observation hours are total monitoring time during May and June, when late instar caterpillars and adults are active. n.d. = no data (no observations were made during the flight period, larval counts not made). Source: Broad Meadow Brook and Massachusetts Butterfly Club records.

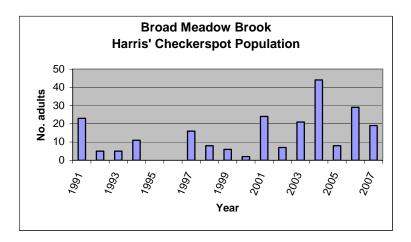


Figure 1. Broad Meadow Brook Harris' Checkerspot Population, high counts of adult butterflies, late May – early July, 1991-2007.

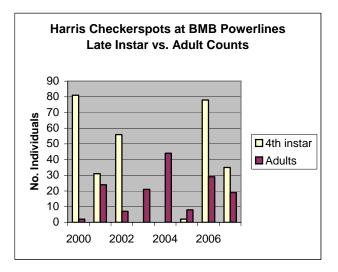


Figure 2. Harris' Checkerspot counts at Broad Meadow Brook's hill-top meadow, spring instar vs. adults, 2000-2007. Mowing occurred in the fall of 2005, prior to the appearance of 2006 instars.



The Crew at Work Photos: M. Gach, November 2007

Acknowledgements

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A Species to Watch: Harris' Checkerspot

Sharon Stichter

Many butterfly species rely on open, meadow areas which are created and maintained by human beings. In the parlance of ecologists, these are "cultural grasslands," and because they are not entirely of natural origin, they may fall "under the radar" of those concerned with preserving natural ecosystems. However, if the meadows, fields and shrublands have not been plowed up or planted with non-natives in the past, they may contain many native plants today. This makes them fertile areas for butterflies. Pastures, whether active or abandoned, if not too heavily grazed, are prime examples. Another example is the extensive areas under power lines maintained by utility companies today.

Some of our meadow butterfly species which are most "at risk" depend particularly on the "wet meadow" portions of open areas. Two cases in point are Harris' Checkerspot and Silver-bordered Fritillary. As every good butterflier knows, you head for the seasonally wet areas of the meadow to find these beauties, where their respective host plants, Flat-topped White Aster and Lance-leaved Violet, grow. You might think that our wetlands laws would protect their habitat from development. But these two host plants in particular are not true wetland species; they grow in the moist areas in-between uplands and wetlands, which may fall outside a strict definition of wetland. For a variety of reasons, Massachusetts has lost many acres of "wet meadow" over the years to suburbs and shopping malls.

There is reason to be concerned about the status of Harris' Checkerspot in Massachusetts. Connecticut was formerly the

southern limit of Harris' Checkerspot range in New England states. (A range map for Harris' may be found in Cech, 2005). However, as a result of the Connecticut Butterfly Atlas Project, the Natural Heritage Program status of this species in Connecticut has recently been changed to S1, or "critically imperiled" (NatureServe, 2007). Although there were 49 pre-Atlas records from 16 towns in Connecticut, there were only two Harris' Checkerspots found in the intensive surveys of the 1995-1999 Atlas period. And none have been found since. The most recently known population was under the Sherman's Corner powerline near Chaplin. (Connecticut Butterfly Atlas, 2007, pp. 238-9, 293, 303, 339.) If Harris' Checkerspot is indeed lost from Connecticut, Massachusetts could be next. The species' NatureServe ranking in Massachusetts is S3, or "vulnerable." This is in part because, unlike some other butterfly species, Harris' has only one documented host plant.

The 1986-1992 Massachusetts Butterfly Atlas found Harris' Checkerspot in only 24 of the 723 blocks covered, making it "locally uncommon" in our state (Choiniere, 2006). Most records were found in central and northeastern Massachusetts; the species is generally absent from the southeastern counties, Cape Cod and the Islands (although there is one 1998 record by Mark Mello from New Bedford). Since 1992, Massachusetts Butterfly Club members have found Harris' in approximately 35 locations, many different from those counted for the Atlas, but also mostly in central and northeastern Massachusetts. Some of the main sites for Harris' in recent years have been Tully Dam in Athol/Royalston; a field in Easton: WTAG Towers in Holden: Barre Falls Dam in Hubbardston; Milford power lines; New Salem; Martin Burns Wildlife Management Area in Newbury; North Common Meadow in Petersham; Wachusett Meadow Wildlife Sanctuary in Princeton; and Broad Meadow Brook Wildlife Sanctuary in Worcester.

A recent review of Massachusetts Butterfly Club [MBC] sighting records for nine species of wetland-associated butterflies showed that Harris' Checkerspot was the *only* species to exhibit a clear pattern of decline between 1991 and 2007.* There was decline in total number of reported individuals (Chart I), and in number of individuals adjusted for total number of reports of all species (that is, for the amount of effort we expended that year) (Chart II). The number of <u>reports</u> of Harris' fluctuated between four and twenty-three over these seventeen years, but did not show any pattern of decline. However, the average number of Harris' butterfly individuals per report did show a decline.

The startling pattern shown in these charts is due almost wholly to the situation at the WTAG towers site in Holden. There, back in the early 1990's, a very large colony of Harris' Checkerspots flourished, reported on frequently by Tom and Cathy Dodd and others. The highest counts were 162 in 1992 (on 6/20); 178 in1993 (on 6/19); and 200 in 1995 (on 6/18). By 1999 the high count had dropped to 37 on 6/13, and the last report from 2002 by Tony Moore found only 20 on 6/10. The decline seems to have been due to butterfly-unfriendly mowing practices.

The second largest and most well-represented colony in the MBC data is at Mass Audubon's Broad Meadow Brook Sanctuary in Worcester. As Martha Gach reports in the preceding article, this colony is presently being carefully cared for through biannual mowing, and appears to be doing very well. It had some ups and downs in earlier years.

The third most well-documented Harris' colony in the MBC data is at the 1550-acre Martin Burns Wildlife Management Area in Newbury. As at Broad Meadow Brook, this area is undergoing some drastic but needed wildlife management this year. The Massachusetts Division of Fisheries and Wildlife, under its Upland Habitat Management Program, has begun mowing, brush-cutting and clearing some 130 acres here, to return it to meadow and shrubland. This Wildlife Management Area is very rich in native plant and animal species. Prior to its acquisition by the state in the late 1950s, the land was used mostly for pasture and timber cutting, rather than active agriculture. Fish and Wildlife did plow and plant some non-native "wildlife" plants, such as autumn olive, between 1957 and 1970. This was considered good wildlife management at the time, but now these invasives need to be removed. In addition, by 2005 trees and saplings were filling in many formerly open areas, and wet meadows were growing in with shrubs. By returning many acres to an early successional state, Mass Wildlife expects that habitat for many species of open area birds, in particular Black-Billed Cuckoo and Prairie Warbler, will be improved (Liske-Clark, 2006). The effort should also benefit many butterfly species.

What impact the drastic brush and tree cutting will have on the Harris' Checkerspot population at Martin Burns is still unknown. The yearly high counts at this site show a small to medium-sized population, which has persisted over the twelve-year period 1996-2007 with no decline but some yearly fluctuations, particularly a low in 2002. At Martin Burns, the rocky and sometimes sandy upland areas are criss-crossed by small streams and scattered wetlands and wet meadows. The Flat-topped White Aster is distributed in small patches near some of the open wetlands; thus the Harris' Checkerspot is also found in several different areas, perhaps functioning as a meta-population. It appears that almost all of these areas have been targeted by the mowing that has been done this winter of 2007-8. This summer will be critical in revealing how well the Harris' population survives. It is not known whether specific monitoring for this butterfly species is

planned by Mass Wildlife, so it is hoped that Massachusetts Butterfly Club members will make a special effort to include Martin Burns in their field trips this year, and will post their counts.



A Communal Lifestyle -- Harris' Checkerspot larval web Photo: Alyce Mayo, Royalston, 2001



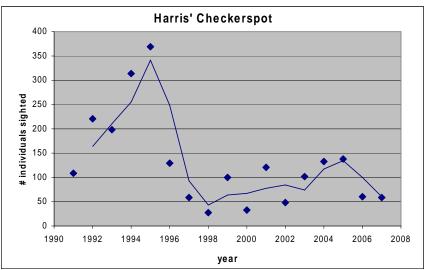
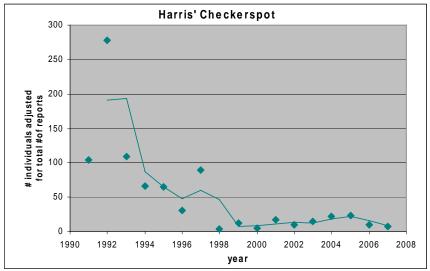


Chart II



Charts produced by Lynette Leka

Notes and Sources:

Cech, R. B., and G. Tudor, 2005. *Butterflies of the East Coast: An Observer's Guide*. Princeton: Princeton University Press.

Choiniere, J. 2006. "Harris' Checkerspot," species account, Massachusetts Butterfly Atlas. <u>www.massaudubon.org/butterflyatlas</u>

Connecticut Butterfly Atlas. 2007. Jane E. O'Donnell, Lawrence F. Gall, and David L. Wagner, Eds. Connecticut State Geological and Natural History Survey, Hartford. The Connecticut Butterfly Atlas Project also found that 22 of the states 98 resident butterfly species, or <u>almost one-quarter</u>, were at risk, with state Natural Heritage rankings (S1 or S2) indicating the need for conservation action. These 22 included Bronze Copper, Bog Copper, and Eyed Brown. In addition to the "top 22," other grassland and meadow species which Atlas records indicated <u>may</u> be in decline in Connecticut are Cobweb Skipper, Silver-bordered Fritillary, Meadow Fritillary, and Baltimore Checkerspot. Dave Wagner's chapter on Butterfly Conservation in this Atlas volume (pp. 289-309) is highly recommended. It stresses the importance of on-going butterfly monitoring.

Liske-Clark, Jill. 2006. Massachusetts Division of Fisheries and Wildlife, *Site Plan: Martin Burns WMA, Newbury*, draft, December 2006.

NatureServe 2007. <u>http://www.natureserve.org/explorer</u> National and sub-national conservation status definitions and rankings.

*The other species were Bronze Copper, Bog Copper, Silver-bordered Fritillary, Baltimore Checkerspot, Eyed Brown, Appalachian Brown, Mulberry Wing, and Broad-winged Skipper. None of these showed a pattern of decline in MBC sightings over these years.

2007 Season Summary and Records

Erik Nielsen

Over 7400 butterfly records were received for 2007. The number of butterflies in a record varied from a single individual to the 12,000 Red Admirals that Brian Cassie counted on George's Island on July 5. Thank-you to the many observers submitting records either directly to me or posting their sightings on the MA butterfly list server. Following the latest NABA checklist the species count was 103. There were 3 early and 11 late records, and there were new high counts for 6 species.

The club database which was started by Tom Dodd in the early 1990's now contains more than 85,000 records - quite a valuable resource for trying to track changes in our butterfly populations. In this summary the data is used for comparing 2007 numbers with counts from previous years. In the tables below, the first column gives the % change in the average number seen on a visit to a location on a specific day in 2007, compared to the average for the preceding years. The second column gives the % change in how frequently a species is reported, and the last column gives the % change in maximum count reported .

SWALLOWTAILS

Pipevine Swallowtails were reported from 7 towns in 5 counties. The first one was seen on July 12 in Wrentham and the last in the Northampton Community Gardens on October 8. Black Swallowtails were on average seen in more places, in higher numbers, and more frequently than usual. Tiger Swallowtails were well reported; but sorting out whether both Eastern and Canadian

Swallowtails had a good year is not an easy task. Some of the Tiger Swallowtails flying in MA during the spring season might in fact turn out to be neither Eastern nor Canadian, but instead the recently described Appalachian.

WHITES AND SULPHURS

Mustard White numbers were a bit above average, and were reported from more spots than normal. West Virginia White statistics were mixed. They were reported more frequently and from more localities than normal, but their numbers were on the low side. Cabbage Whites did well - they were seen more and in higher numbers. Sulphur numbers were down in general with Orange Sulphur having the worst year, with both frequency of reports and counts quite a bit lower than normal. Cloudless Sulphur reports were up, but the numbers were lower than average. On two occasions (September 4 and 18) Jim Baird found this mostly coastal migrant in his yard in Petersham.

GOSSAMER-WINGS

Harvester set a new record on August 5 when Renee LaFontaine and Marj Rines counted 32 at the Mystic Lakes site on the Arlington/Medford border. American Copper beat its previous early flight date by a day on April 14, when Karen Parker found one in East Longmeadow. Otherwise they had a bit of an "off year", with numbers on the low side in general. Bronze Coppers on the other hand ended up with a new late flight date of October 21 when several were seen in Wayland and Lincoln. They were reported in above average numbers; but a single individual in Windsor on September 5 was the only one away from their stronghold in the Sudbury River valley. The following table gives an idea how the various species fared compared to previous years. The numbers have been adjusted for variation in reporting activity between the years.

	% change in 2007 from the 1994-2006 average		
Species	Avg. No.	Frequency	Max. No.
Harvester	257.60	28.12	295.88
American Copper	-25.15	-0.34	-49.81
Bronze Copper	158.80	142.56	42.37
Bog Copper	196.49	6.54	286.50
Coral Hairstreak	65.80	-27.75	103.77
Acadian Hairstreak	42.96	-10.77	76.67
Edwards' Hairstreak	43.27	4.36	3.25
Banded Hairstreak	26.54	39.50	9.35
Hickory Hairstreak	130.56	34.32	227.27
Striped Hairstreak	18.97	6.77	-25.52
Oak Hairstreak	-63.39	-50.43	-45.45
Brown Elfin	-35.25	-22.17	-23.20
Hoary Elfin	5.15	-23.74	31.39
Frosted Elfin	415.51	157.23	59.62
Henry's Elfin	-60.56	-79.31	-30.77
Bog Elfin	137.94	164.38	200.00
Eastern Pine Elfin	52.42	76.61	68.42
Juniper Hairstreak	-76.52	-35.25	-84.68
Hessel's Hairstreak	420.49	83.03	500.00
White M Hairstreak	234.60	90.35	540.00
Gray Hairstreak	-57.47	-45.25	-17.95
Early Hairstreak	-23.25	-55.94	28.00
Eastern Tailed-Blue	-6.02	7.55	-45.74
Silvery Blue	-66.73	-4.28	-77.43

When it comes to Azures things get a bit murky. What we for years have called Spring Azure in MA is widely regarded as in fact being 4 almost identical species. Most of the early Azures are probably Spring Azures; but in the northwestern portions of the state many may be "Northern" or "Lucia" Azures. From early May the picture

gets more complicated when "Cherry Gall Azures" start their flight, and even more so when "Summer Azures" start appearing around the middle of June.

BRUSHFOOTED BUTTERFLIES

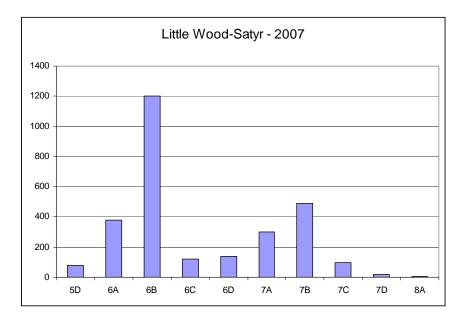
American Snout is rarely seen in MA and then it's usually somewhere near the coast, so the one that Chris and Heather Gentes came across in Hadley on July 8 was a very nice find. The rather poor numbers for Aphrodite Fritillary in the table below do not appear to be the result of "just a bad year". All the numbers seem to be trending downward in recent years. The Atlantis Fritillary numbers on the other hand might have more to do with the Mt. Greylock road closure than an actual population dip.

	% change in 2007 from the 1994-2006 average		
Species	Avg. No.	Frequency	Max. No.
Variegated Fritillary	72.80	72.48	-35.14
Great Spangled Fritillary	0.13	12.25	16.18
Aphrodite Fritillary	-69.46	-51.11	-37.82
Atlantis Fritillary	-90.67	-43.35	-92.09
Silver-bordered Fritillary	120.64	-34.55	449.49
Meadow Fritillary	129.34	67.96	48.24
Harris' Checkerspot	-37.78	-20.69	-50.26
Pearl Crescent	31.86	-5.11	101.35
Baltimore Checkerspot	174.50	102.13	88.07

Question Mark, Eastern Comma, Mourning Cloak, American Lady, and especially Red Admiral numbers were above average. Three-digit counts were commonplace for the latter species in late June and July, and it was seen in large numbers as far offshore as Nantucket Shoals. Milbert's Tortoiseshell, Painted Lady, and Common Buckeye, however, were all seen less frequently and in lower numbers than usual, and White Admiral, Red-spotted Purple,

and Viceroy counts were within the normal range. Of the species in the following table, only Common Ringlet appears to have had a below average year. Northern Pearly-Eye extended its flight period by 3 weeks, when Howard Hoople photographed one in Andover on October 3.

	% change in 2007 from the 1994-2006 average		
Species	Avg. No.	Frequency	Max. No.
Northern Pearly-Eye	48.03	32.19	42.86
Eyed Brown	37.22	84.04	-32.08
Appalachian Brown	221.38	33.25	192.31
Little Wood-Satyr	148.39	18.14	125.71
Common Ringlet	-34.85	-25.56	-37.46
Common Wood-Nymph	-0.96	-17.83	2.79



Little Wood-Satyr is another "taxonomically challenged" species. There is some evidence that this easy-to-identify butterfly may actually be two "impossible to tell apart" species. This graph of numbers reported for 2007 (on the horizontal scale, the number gives the month, and the letter the week), indicates that in MA the two flights peak about a month apart, and many feel that that is too closely spaced for individuals of the second flight to be offspring of the first. Monarchs were well reported, but the highest concentrations were only in the triple digits. The first for the year appeared the last day of April on the Vineyard, and the last was seen on November 2nd in Springfield.

SKIPPERS

	% change in 2007 from the 1994-2006 average		
Species	Avg. No.	Frequency	Max. No.
Silver-spotted Skipper	29.80	15.85	2.64
Hoary Edge	-31.68	11.13	-52.00
Southern Cloudywing	68.11	43.72	33.33
Northern Cloudywing	-21.65	-18.15	29.90
Dreamy Duskywing	-70.51	-53.95	-43.53
Sleepy Duskywing	40.36	-3.54	48.91
Juvenal's Duskywing	99.77	30.91	75.51
Horace's Duskywing	289.98	32.19	462.50
Wild Indigo Duskywing	-18.86	-4.49	-42.86
Common Sootywing	129.96	43.77	226.99
Arctic Skipper	115.48	-36.55	168.02

The club trip to Myles Standish SF on May 26 found what several of the participants identified as a Persius Duskywing. Nobody managed to get pictures, however, and due to the difficulty in safely identifying the species the sighting is best left in the "probable" category. Common Checkered-Skippers were at the Northampton Community Gardens – and only there - for the seventh year in a row. The first was found on July 31, the numbers peaked at around 20 on September 7, and the last one was seen on October 15. Madeline Champagne found several Common Checkered-Skipper eggs on Common Mallow in the gardens on September 25, and both eggs and caterpillars there on October 6.

	% change in 2007 from the 1994-2006 average		
Species	Avg. No.	Frequency	Max. No.
Least Skipper	25.79	9.30	82.03
European Skipper	6.29	27.77	21.14
Fiery Skipper	370.50	334.70	75.61
Leonard's Skipper	-62.34	-49.55	-70.59
Cobweb Skipper	17.17	-36.72	171.36
Indian Skipper	16.64	-11.22	114.60
Peck's Skipper	2.48	29.96	-60.18
Tawny-edged Skipper	8.46	21.86	-31.61
Crossline Skipper	18.67	-13.72	23.43
Long Dash	-31.97	-11.62	-42.36
Northern Broken-Dash	41.27	43.20	0.20
Little Glassywing	251.56	57.41	266.99
Delaware Skipper	26.13	39.53	40.57
Mulberry Wing	9.29	16.91	7.64
Hobomok Skipper	17.72	4.33	1.12
Broad-winged Skipper	56.03	100.86	47.17
Black Dash	-37.38	30.12	-48.78
Dun Skipper	55.38	6.49	65.28
Dusted Skipper	340.33	84.61	300.00
Pepper and Salt Skipper	-9.94	48.71	-43.75

Fiery Skippers were well reported from many areas of the state. The first was found on the Northampton NABA count on July 22 and the last one was seen in Newbury on October 21. Karen Parker's sighting of one or two Zabulon Skippers in East

Longmeadow on May 27 equaled the early flight date for the species, and she found another individual there on June 27. Only a single Dion Skipper was reported for the season. Ron Hamburger photographed one in North Adams on the new late date of July 22. Two-spotted Skippers are not found in the state every year, so it was quite unusual to receive reports from 5 different spots in 3 counties.

For the second year in a row no Common Roadside-Skippers were reported. This species has probably always been rare to uncommon in the state, but during the last 6 years only 5 individuals have been reported and none of these from the eastern counties. The number of Ocola Skipper reports varies greatly from year to year: 2002 - 2, 2003 - 27, 2004 - 8, 2005 - 45, 2006 - none. This year a single individual was found when Brian Cassie came across one on September 23 at the Allens Pond Mass Audubon sanctuary fields in Dartmouth.

<u>Early flight dates</u>: American Copper – 4/14, Appalachian Brown – 6/10, Common Wood-Nymph – 5/31.

Late flight dates: Bronze Copper – 10/21, Oak Hairstreak – 7/29, Bog Elfin – 6/7, White M Hairstreak – 10/28, Summer Azure – 10/21, Meadow Fritillary – 10/3, Northern Pearly-Eye – 10/3, Common Wood-Nymph – 10/5, Common Checkered-Skipper – 10/15, Broad-winged Skipper – 10/9, Dion Skipper – 7/22.

<u>New high counts</u>: Harvester – 32, Hickory Hairstreak – 12, Hessel's Hairstreak – 12, Silver-bordered Fritillary – 1300, Horace's Duskywing – 30.

Abbreviations:

- plus various observers; MBC – Mass. Butterfly Club; BI – Butterfly Institute.

AP – Allens Pond; BMB – Broad Meadow Brook; BFD – Barre Falls Dam; CG – Community Gardens; CRPL – Concord Road Power Line; F&G – Fish and Game; FS – Fannie Stebbins; GBH – Great Blue Hill; HPM - Horn Pond Mountain; IRWS – Ipswich River Wildlife Sanctuary; MAS – Mass. Audubon Sanctuary; MBWMA – Martin Burns WMA; MCP – Mary Cummins Park; ML – Mystic Lakes; MPRA – Mill Pond Recreational Area; MSSF – Myles Standish State Forest; MV – Martha's Vineyard; NABA – North American Butterfly Association 4th of July Count; NAC – Nine Acre Corner; NCM – North Common Meadows; NRT -Norwottuck Rail Trail; NP – Newburyport; NWR – National Wildlife Refuge; PL – Power Line; SF – State Forest; SP – State Park, WMA – Wildlife Management Area; WS – Wildlife Sanctuary.



Pipevine Swallowtail

7/12-21 Wrentham 7/15 C Berkshire NABA 9/25 Haley Yard, Marblehead 9/26 Northampton CG 9/29 AP Allens Neck, Dartmouth 10/2 Northampton CG 10/4 Nahant 10/5 Newbury 10/8 Northampton CG

Black Swallowtail

5/1 Holliston 5/7 Sudbury 5/9 IRWS.Topsfield 5/12 Swansea 5/13 E Longmeadow 5/13 GBH.Canton 5/22 Potter's Hill, Grafton 5/26 Barneys Joy, Dartmouth 5/26 W Bridgewater 6/2 Appalachian Trail, Tyringham 6/10 N.River MAS, Marshfield 6/11 F&G Fields,Westborough 7/7 GBH,Canton 7/21 Tower Hill, Boylston 7/22 Northampton NABA 8/14 Pike's Bridge Rd,W Newbury 9/2 Northampton CG 9/8 AP, Dartmouth 9/23 Bolton Flats 9/25 S Deerfield, Deerfield 9/30 Lindentree Fields, Lincoln 10/6 Northampton CG

Tiger Swallowtail (spp)

5/1 E Longmeadow 5/7 HPM.Woburn 5/8 Whipple Hill, Lexington 5/12 Rowden Yard, Leicester 5/22 Oak Bluffs 5/23 Lamson Rd, Foxborough 5/24 IRWS, Topsfield 5/25 Whately 5/26 W Bridgewater 5/27 NCM, Petersham 5/28 Royalston 6/5 Moore SP.Paxton 6/10 NCM.Petersham 8/12 Wayland CG 8/15 Moore SP.Paxton 8/20 Moose Hill Farm, Sharon 9/1 Charlton 9/7 Cape Ann 10/6 Moore SP, Paxton

Eastern Tiger Swallowtail

- 5/4 Crane WMA, Falmouth 5/5 Lexington 5/7 Holliston 5/14 MSSF, Plymouth 5/23 Cape Ann 5/27 Hubbardston 5/28 Gates 45-49, Quabbin 6/2 Rutland 6/6 Ware River Watershed 6/24 MBWMA, Newbury 6/30 Hawley
- Maureen Osolnik 1 Tom Tyning # 1 Karen Haley 1 T.Gagnon+F.Model 1 E Nielsen+S Sweet 1 Frank Model 1 Linda Pivacek 1 Dorothy Safferewich 1 Barbara Spencer Richard Hildreth 1 Simon Perkins Fred Goodwin 1 Lauren Miller 1 1 Karen Parker Erik Nielsen 4 3 E.Barry+D.Price 8 MBC(L. Miller) 6 Don Adams Tom Tyning # 9 2 S.Shapiro+M.Polana 6 W.Miller+E.Barry 13 Champagne+Nielsen 8 Eleanor Solberg 119 Dottie Case # S.+J. Stichter 3 5 Bill Benner # 6 Lauren Miller # M Lynch+S Carroll 1 Karen Parker Jason Forbes 1 M. Champagne 3 Karen Parker Ron Hamburger 1 1 A. McGinnis Mark Rowden 1 Matt Pelikan 1 4 M. Champagne 6 Fred Goodwin 9 **Bill Benner** 6 Don Adams MBC(T. Gagnon) 6 Carl Kamp 6 12 Elise Barry Erik Nielsen Wendy Miller Elise Barry 1 M. Champagne 1 Eleanor Solberg 1
 - Doug Savich
- Elise Barry
- Alison Robb Tom Whelan
 - Richard Hildreth Frank Model 1
 - 1 Doug Savich
- M.Lynch+S.Carroll 31
- 44 M.Lynch+S.Carroll M.Lynch+S.Carroll
- 97 94 M.Lvnch+S.Carroll
- 5 MBC (S. Stichter)
- 31 M.Lynch+S.Carroll

7/5 Sheffield 7/10 Oxbow Nwr, Harvard 7/21 Crane Swamp Trail, 9/4 Stichter Yard.Newbury 9/8 AP, Dartmouth 9/8 E Longmeadow 10/5 Northampton CG **Canadian Tiger Swallowtail** 5/7 Florence 5/12 Quabbin Park, Belchertown 2 5/13 E. Quabbin 5/13 Westborough WMA 5/16 Cummington 1 found dead 5/22 Roberts Rd., Sandisfield 5/23 Cummington 5/27 Pump House, Petersham 5/28 Whately 6/1 Cedar Hill, Northborough 6/1 Tom Swamp, Petersham 6/2 New Salem 6/15 Graves Farm, Williamsburg Spicebush Swallowtail 5/13 E Longmeadow 5/13 E. Quabbin 5/20 Gates 45-49. Ouabbin 1 5/22 Hassanamesitt Woods, Grafton 5/28 BMB WS, Worcester

5/28 Gates 45-49, Quabbin

6/2 Wompatuck SP, Hingham

6/10 Moose Hill WS,Sharon

7/3 BMB WS.Worcester

7/3 Stichter Yard, Newbury

8/1 Rowden Yard, Leicester

8/14 Bald Hill Res., Boxford

8/19 FS WMA, Longmeadow

9/7 Moose Hill Farm, Sharon

6/15 Graves Farm, Williamsburg 6/30 GBH.Canton

7/29 Beaver Brook Mill, Belmont

5/28 Mt. Toby

7/2 Cape Ann

7/15 MV NABA

8/4 Leicester

9/18 Cape Ann

10/6 Foxborough

9/26 Northampton CG

9/25 Tisbury

7/21 Bristol NABA

- 20 M.Lynch+S.Carroll
 - 5 Sue Hennessy 3 S.Moore+B.Volke
 - S.+J. Stichter 1
 - 1 Lauren Miller #
 - Karen Parker 1
 - 1 Frank Model
- - 1 Tom Gagnon M.Lynch+S.Carroll
 - 1 Tom Gagnon # Steve Moore # 2
 - Barbara Spencer
 - Mark Rowden 1
 - Barbara Spencer
 - MBC (T. Gagnon) 1
 - 6 Bill Benner
 - 3 Barbara Volkle
 - Frank Model 8
 - 3 Frank Model
 - 2 Bill Benner

8

7

- 1 Karen Parker 1 Tom Gagnon # M.Lvnch+S.Carroll 2 E.Barry+D.Price 2 BI(B.Walker) M.Lynch+S.Carroll 3 Frank Model E.Nielsen+S.Sweet 1 Stephanie+Vanessa Hill 1 Bill Benner 3 M. Champagne Doug Savich 2 B.Walker+E.Barry 2 Sharon Stichter 53 Matt Pelikan # Mark Mello # 14 Jason Forbes Mark Rowden 1 2 MBC (D. Price) 3 S.+J. Stichter
 - 3 MBC (T. Gagnon)
 - 2 M. Champagne
 - 1 Doug Savich
 - Judy Holland 1
 - T.Gagnon+F.Model 1 Brian Cassie
- Mustard White
- 5/9 New Lenox Rd, Lenox 5/9 Roaring Brook Rd, Lenox 5/24 Notchview Res., Windsor 6/2 George L Darey WMA, Lenox 7/8 Pittsfield 7/12 October Mountain SF 1 7/15 C Berkshire NABA
- West Virginia White
- 4/20 Mount Tom State Res. 5/5 Sunderland 5/7 Cummington 5/8 Chesterfield 5/8 Florence 5/9 Cummington 5/12 Whately 5/17 Fairgrounds, Cummington
- 75-80 Barbara Spencer 13 Roger Pease 2 B.Spencer+J.Richburg 5 Tom Tyning #
 - 1 Frank Model
 - T.Gagnon+R.Cloutier 18 Tom Tyning #
 - 1 Tom Gagnon #
 - Λ Bill Benner #
 - Barbara Spencer 2
 - 1 Barbara Spencer
 - Tom Gagnon 2 7 Frank Model

 - 2 Bill Benner
 - 4 Frank Model

5/24 Notchview Res., Windsor 4 B.Spencer+J.Richburg 1 Bill Benner 5/26 Whately

Cabbage White

3/24 Millbury 3/28 Norwood 4/2 W Bridgewater 4/19 Springfield 5/3 Westfield Pine Barrens 5/11 Wrentham 5/26 Brookfield 30 6/24 HPM.Woburn 6/25 Cape Ann 6/30 N.River MAS, Marshfield 40 7/8 Little's Farm, Newbury 8/1 Northampton CG 8/4 Leicester 8/5 AP Allens Neck, Dartmouth 8/9 Nelson Island, Rowley 8/16 Cape Ann 9/3 Northampton CG 70 9/7 Moose Hill Farm, Sharon 9/8 AP.Dartmouth 9/29 Northampton 10/7 Wayland CG 65 10/22 Northampton CG 10/28 Oak Bluffs 10/30 Cape Ann 11/1 UMass Fields, Waltham

Clouded Sulphur

5/8 Prospect Hill, Waltham 5/11 Holliston 5/11 Wrentham 5/12 AP Allens Neck, Dartmouth 5/13 Middleborough 5/13 Westborough WMA 5/14 Stichter Yard, Newbury 5/20 BMB WS, Worcester 5/22 Cross St., Millbury 5/23 Thorndike 5/26 Barneys Joy, Dartmouth 5/27 NCM, Petersham 7/13 Graves Farm, Williamsburg 8/14 Pike's Bridge Rd,W Newbury 8/24 Worcester Airport 16 9/1 Wayland CG 26 9/5 Windsor 9/8 AP, Dartmouth 9/14 Moose Hill Farm Sharon 9/19 Moore SP.Paxton 9/22 Wayland CG 9/23 AP Allens Neck, Dartmouth 9/23 Bolton Flats 28 9/29 Northampton 10/6 S Egremont, Egremont 10/17 IRWS, Topsfield 10/17 Williamstown 10/21 Eastern Point, Gloucester 10/25 Northampton CG 10/31 Dartmouth/Westport 11/4 Wachusett Reservoir 3

Orange Sulphur

5/12 AP.Dartmouth 5/22 PL near Rte 122, Grafton 5/25 Florence

5/27 Little River Nature Trail, Nby 6/6 Moran WMA, Windsor

M.Lynch+S.Carroll Paula Chasan 1 1 Don Adams Karen Parker 13 Tom Gagnon 15+ M. Champagne # M.Lynch+S.Carroll 25 Steve Moore 79 Doug Savich S.Shapiro+M.Polana 550 Erik Nielsen 63 Tom Gagnon MBC (D. Price) 30 160 Erik Nielsen 15 Joe Stichter 17 Doug Savich M.Lynch+S.Carroll 27 M. Champagne 101 Lauren Miller # 100 Earl Baldwin # S.Moore+B.Volkle 15 Ron Hamburger Matt Pelikan 1 2 Doug Savich Jason Forbes 8 Jason Forbes 1 2 Richard Hildreth M. Champagne # 2 Erik Nielsen 3 Karen Holmes 1 Steve Moore # 1 1 S.+J. Stichter 1 Barbara Walker # E.Barry+D.Price 2 Karen Parker 2 11 MBC (L. Miller) MBC(T. Gagnon) 9 17 Bill Benner # 25 S+L Stichter M.Lynch+S.Carroll S.Moore+B.Volkle 16 Tom Gagnon # 73 Lauren Miller # M. Champagne 14 94 Elise Barry 50 MBC(E.Nielsen) 86 Erik Nielsen M.Lynch+S.Carroll 100 Earl Baldwin # 63 M.Lynch+S.Carroll 4 Fred Goodwin Pam Weatherbee 1 Susan Hedman 1

- 3 Tom Gagnon
- 3 M. Champagne
- M.Lynch+S.Carroll
- 1 Erik Nielsen
- 6 E.Barry+D.Price
- B.Benner+T.Gagnon
- 1 S.+J. Stichter
- 5 Frank Model

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6/10 N.River MAS, Marshfield 12 S.Shapiro+M.Polana
6/15 Cape Ann
7/6 Dauphinais Park, Grafton
7/13 Graves Farm, Williamsburg
7/15 MV NABA
7/15 N.River MAS, Marshfield
7/22 Northampton NABA
7/27 Barnstable NABA
8/1 Cape Ann
8/4 Leicester
8/5 AP Allens Neck, Dartmouth
8/14 Pike's Bridge Rd,W Newbury
9/2 Dartmouth/Westport
                         25
9/5 Windsor
9/8 AP. Dartmouth
9/19 Moore SP.Paxton
9/29 Northampton
10/6 Northampton CG
10/17 IRWS.Topsfield
10/25 Northampton CG
10/31 Dartmouth/Westport
11/1 UMass Fields, Waltham
11/2 Cape Ann
11/13 AP, Dartmouth
11/13 Templeton
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Cloudless Sulphur

7/15 MV NABA 9/1 AP WS Ouansett, Dartmouth 9/3 Gay Head 9/4+9/18 Petersham 9/4 W Falmouth 9/7 Cape Ann 9/8 AP, Dartmouth 9/20 Sylvan Nursery, Westport7 F. Model+M. Champagne 9/20 Waring Field, Rockport 9/23 Gooseberry Neck, Westport 3 10/1 Westport 10/4 Vineyard Haven 10/21 Morris Island, Chatham

Harvester

5/16 ML, Medford 7/1 N Worcester NABA 7/11 ML, Arlington/Medford 27 M. Rines+R.LaFontaine 7/14-29 Northborough 1 7/29 Beaver Brook Mill, Belmont 8/5 ML, Arlington/Medford 8/19 FS WMA,Longmeadow 8/19 ML, Arlington/Medford 17 9/18 Lyman Pond, Waltham

American Copper

4/14 E Longmeadow 5/9 Lamson Rd, Foxborough 5/25 CRPL, Chelmsford 5/26 Barneys Joy, Dartmouth 5/28 Oak St. PL, Shrewsbury 7/15 MV NABA 7/21 Brewster NABA 9/2 Dartmouth/Westport 9/29 AP, Dartmouth 9/30 E Longmeadow 10/1 Cape Ann 10/2 Chelmsford 10/4 Met State, Waltham

W.Miller+E.Barry 9 Bill Benner # 52 Matt Pelikan # 10 S.Shapiro+M.Polana 146 Dottie Case # 25 Alison Robb # 10 Doug Savich MBC (D. Price) 8 56 Erik Nielsen 35 S.+J. Stichter B.Bowker+J.Sweeney 11 Tom Gagnon # Lauren Miller # 76 51 Elise Barry 100 Earl Baldwin # M. Champagne 30 Fred Goodwin Tom Gagnon 6 40 M. Champagne 3 Jason Forbes Doug Savich 1 1 Lauren Miller Earle Baldwin 1

2 Doug Savich

6

- 1 Matt Pelikan #
- Erik Nielsen 1 Judy Holland 1 Jim Baird Alison Robb 1 1 Doug Savich 3 Lauren Miller # 1 Tom Whelan 5 Erik Nielsen M.Lvnch+S.Carroll
- 1 Matt Pelikan
- 10 Blair Nikula

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1 R.LaFontaine+M.Rines
     1 Cark Kamp #
      S.Moore+B.Volkle
     1 Jason Forbes
32 LaFontaine+Marj Rines
     2 MBC(T. Gagnon)
    LaFontaine+M Rines
     1 Jason Forbes
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- 1 Karen Parker
- M. Champagne 1
- 15 Tom Whelan
- MBC (L. Miller) 20
- 16 B.+R. Walker
- 231 Matt Pelikan # 98 Alison Robh #

20

- B.Bowker+J.Sweeney
 - M. Champagne 1
 - 1 Karen Parker
 - 1 Doug Savich
 - 2 Tom Whelan
 - 1 Jason Forbes



Bronze Copper

6/17 NAC,Concord 6/30 Concord NABA 9/1 Wayland CG 3 9/5 Windsor 9/22 Sudbury CG 10/13 Wayland CG 7 10/15 Concord 10/21 Lindentree Fields, Lincoln 10/21 Wayland CG

Bog Copper

6/26 Tully Dam, Royalston 6/28 Cape Ann 6/29 Tahanto Hs,Boylston 6/29 Tully Dam, Royalston 7/2 Cape Ann 7/7 C Franklin NABA 7/7 Truro NABA 7/14 Blackstone Valley NABA 7/15 MV NABA

Coral Hairstreak

7/4 HPM, Woburn 7/7 C Franklin NABA 7/7 GBH,Canton 2 7/8 MBWMA, Newbury 7/14 Blackstone Valley NABA 7/15 C Berkshire NABA 7/15 MV NABA 7/16 GBH, Canton 7/21 Brewster NABA 7/28 GBH_Canton

Acadian Hairstreak

7/4 HPM, Woburn	
7/8 N Berkshire NABA	
7/12 Pittsfield	18
7/15 C Berkshire NABA	

Edwards' Hairstreak

6/30 GBH. Canton 7/1 N Worcester NABA 7/2 GBH Canton 7/4 MCP, Burlington/Woburn 7/6 Dauphinais Park, Grafton 7/14 E Longmeadow 7/14 Falmouth NABA 7/15 E Longmeadow 7/15 MV NABA 7/16 GBH, Canton

Banded Hairstreak

6/21 Foxborough 6/21 Paine Estate, Waltham 6/23 Wildwood Cem., Winchester 1 LaFontaine+M.Rines 6/28 Rowden Yard, Leicester 6/30 GBH. Canton 7/4 MCP, Burlington/Woburn 7/7 GBH, Canton 11 7/12 Field Farm, Williamstown 7/14 Cape Ann 7/29 Barry Yard, Paxton 7/29 Sherborn PL 8/11 Stichter Yard, Newbury 8/12 Rowden Yard, Leicester Hickory Hairstreak

Massachusetts Butterflies

7/6 S Berkshire NABA 7/7 GBH, Canton

- 2 Tom Whelan
- 3 Dick Walton #
- S.Moore+B.Volkle
- Tom Gagnon # 1 MBC (E.Nielsen) 7
- S.Moore+B.Volkle
- 1 Mari Rines
- 2 Jason Forbes
- 2 E.Nielsen+S.Sweet
 - 12 Frank Model
 - 5 Doug Savich
 - Ron Hamburger 2
 - 25 Frank Model
 - 2 Doug Savich
 - 106 M. Fairbrother #
 - Tor Hansen# 26
 - Tom Dodd # 3
 - 3 Matt Pelikan #
 - 2 MBC (E.Nielsen)
 - 36 M. Fairbrother #
- M. Champagne+E.Nielsen
 - 2 Barbara Walker #
 - 13 Tom Dodd #
 - Tom Tyning # 11
 - 3 Matt Pelikan #
 - 14 Frank Model 9 Alison Robb #
 - 3 Erik Nielsen
 - 4 MBC (E.Nielsen)
 - 1 Tom Tyning # T.Gagnon+R.Cloutier
 - 53 Tom Tyning #
 - 2 M. Champagne
 - 45 Carl Kamp #
 - 15 M. Champagne #
 - 10 MBC (E.Nielsen)
 - W.Miller+E.Barry 1 Karen Parker
 - Alison Robb # 4
 - 1 Karen Parker
 - 40 Matt Pelikan #
 - 5 Frank Model
 - 3 M. Champagne 15 Jason Forbes 4 Mark Rowden 4 M. Champagne 4 MBC (E.Nielsen)
 - Champagne+Nielsen 2
 - Pam Weatherbee 2
 - Doug Savich 1 Elise Barry
 - Bob Bowker #
 - Sharon Stichter 1
 - Mark Rowden 2
 - 12 Rene Laubach # 1 Erik Nielsen

- 7/12 October Mountain SF 7/14 Blackstone Valley NABA
- 7/15 C Berkshire NABA
- 7/21 Cummington 7/22 Northampton NABA

Striped Hairstreak

- 7/1 Amity Place Environs, Amherst 7/1 N. Common Pastures, NP 7/2 GBH. Canton 7/5 Road's End Sanc., Worthington 7/9 Cummington 7/13 Graves Farm, Williamsburg 7/15 MV NABA 7/15 N.River MAS, Marshfield 1 7/15 Westwood 7/17 N Adams 7/20 Cummington 7/21 Crane Swamp Trail, 7/22 Milford PL 7/22 New Salem 7/25 Foxborough
- 7/31 Prospect Hill, Waltham 8/1 Northampton CG

Oak Hairstreak

7/3 BMB WS Worcester 7/29 Hopedale

Brown Elfin

4/24 Montague 4/26 GBH, Canton 4/29 Sherborn PL 5/2 Stage Rd PL, Chelmsford 5/3 W Tisbury SF 5/5 MSSF, Plymouth 5/5 Sherborn PL 5/7 Cape Ann 5/8 Whipple Hill, Lexington 5/9 MV SF 5/12 HPM, Woburn 5/13 Middleborough 5/20 BMB WS, Worcester 5/26 MSSF, Plymouth

Hoary Elfin

5/3 W Tisbury SF 5/5 MSSF, Plymouth 5/9 MV SF 5/14 MSSF, Plymouth 5/26 MSSF, Plymouth

Frosted Elfin

5/3 Westfield Pine Barrens 5/7 Lamson Rd, Foxborough 5/14 Lamson Rd ,Foxborough 5/14 Oak St. PL, Shrewsbury 5/16 Stage Rd PL, Chelmsford 5/26 MSSF, Plymouth 14 5/29 Lamson Rd, Foxborough 6/2 Dauphinais Park, Grafton 6/10 Sherborn PL 6/11 Lamson Rd, Foxborough 6/24 HPM, Woburn

Henry's Elfin 5/8 Holliston

5/28 Sherborn PL

Bog Elfin

No. 30, Spring 2008

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6/6 Tom Swamp, Petersham

- 1 T.Gagnon+R.Cloutier 1 Tom Dodd #
 - Tom Tyning # 1
 - Barbara Spencer 1
 - 8 Dottie Case #

 - 1 Frank Model
 - S.+J. Stichter 1
 - 3 M. Champagne # 1 Barbara Spencer
 - Barbara Spencer 3
 - Bill Benner # 1
 - 1 Matt Pelikan #
 - S.Shapiro+M.Polana
 - 1 Erik Nielsen
 - Frank Model 1
 - 6 Barbara Spencer
 - S.Moore+B.Volke 1
 - 2 Erik Nielsen
 - 2 Jason Forbes
 - M. Champagne 1
 - 1 Jason Forbes 1 Tom Gagnon

1

1

4

8

1

1

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3

2

25

13

- B.Walker+E.Barry 1 Dolores Price
- 1 Mark Fairbrother 2 Tom Murray Bob Bowker

Tom Whelan

Bob Bowker

Doug Savich

A McGinnis

Matt Pelikan

3 Tom Whelan

6 Karen Holmes

8 MBC(Murray+Nielsen)

3 Matt Pelikan

15 Erik Nielsen

1 Matt Pelikan

Frank Model

MBC(Murray+Nielsen)

3 Tom Gagnon

2 M. Champagne

Wendy Miller #

74 M. Champagne

8 Tom Whelan

MBC(Murray+Nielsen)

83 M. Champagne

1 Dolores Price #

Bob Bowker

1 Steve Moore

3 Bob Bowker

3 Bob Bowker

1 Frank Goodwin #

31

M. Champagne

1 Barbara Walker #

4 Matt Pelikan

32 Erik Nielsen

Eastern Pine Elfin

4/26 Holliston 4/28 Groton 4/30 W Tisbury SF 5/3 Great Meadows NWR, Sudbury 5/3 Stichter Yard, Newbury 5/3 Westfield Pine Barrens 5/4 Oxbow NWR, Harvard 5/5 Sunderland 5/9 MV SF 5/14 MSSF, Plymouth 24 5/14 Stage Rd PL, Chelmsford 5/27 NCM, Petersham 5/30 Barry Yard, Paxton 6/2 E Longmeadow 6/7 Lamson Rd, Foxborough 6/10 Quabbin Park, Belchertown 6/10 Tom Swamp, Petersham 6/17 Quabbin Windsor Dam, Ware

Juniper Hairstreak

5/28 Juniper Hill, Lexington 6/1 Holyoke 7/16 GBH, Canton 7/22 Northampton NABA 7/25 GBH, Canton 7/28 GBH, Canton 7/29 Prospect Hill, Waltham 8/9 (lately) Oak Bluffs

Hessel's Hairstreak

5/26 Ponkapaug Bog, Canton 5/29 Ponkapaug Bog,Canton

White M Hairstreak

5/5 Sherborn PL	1
5/8 Waskosim Rock Pres, W. Tisbury	1
5/14 W Tisbury SF	1
7/22 Northampton NABA	1
7/25 Houghton's Pond, Milton	4
9/2 Vineyard Haven	1
9/4 Polly Hill,W Tisbury	8
10/28 Tisbury	1
Gray Hairstreak	
5/9 MV SF	1
5/13 GBH,Canton	1

5/15 Joppa Flats, NP 5/16 Stage Rd PL, Chelmsford 7/7 GBH, Canton 4 7/8 Worcester 8 7/24 Stichter Yard, Newbury 8/19 Northampton CG 9/1 AP WS Quansett, Dartmouth 9/3 Aquinnah 9/8 AP, Dartmouth 9/29 AP Allens Neck, Dartmouth 10/22 AP Field Station

Early Hairstreak 6/8 Mount Greylock

Eastern Tailed-Blue

5/3 W Tisbury SF 5/7 HPM, Woburn 5/9 Lamson Rd, Foxborough 5/10 Stichter Yard, Newbury 5/12 HPM, Woburn 5/22 Florence

32

- 1 Ron Hamburger
- 1 Richard Hildreth
- Tom Murray Matt Pelikan
- Barbara Volkle S.+J. Stichter
- 13 Tom Gagnon

1

1

1

1

1

1

1

2

- Jason Forbes 8
- 3 Bill Benner #
- 5 Matt Pelikan
- Frank Model Tom Whelan 3
- MBC (T. Gagnon) 1
- Elise Barry
- Karen Parker
- M. Champagne
- Sue+Ron Cloutier
- Erik Nielsen 3
 - BI (Dave Small)
- 2 Tom Whelan
- Tom Gagnon Frank Model 2
 - Dottie Case #
 - M. Champagne
- Erik Nielsen 3
- Jason Forbes 1 1 Matt Pelikan
- 12 Tom Gagnon# F.Model+B.Spencer
 - Darryl Willis Judy Holland Matt Pelikan Dottie Case # Brian Cassie 4 Judy Holland 1 Judy Holland
 - Judy Holland
- Matt Pelikan 1 Erik Nielsen 1 S.+J. Stichter 1 1 Tom Whelan Champagne+Nielsen M.Lynch+S.Carroll S.+J. Stichter 1 Tom Gagnon # 2 Erik Nielsen Judy Holland Lauren Miller # E.Nielsen+S.Sweet 1 M. Champagne

1

8 Frank Model

1 Matt Pelikan Ron Hamburger 1 M. Champagne 4 1 Sharon Stichter 22 Tom Whelan 9 Tom Gagnon

5/25 BMB WS, Worcester 8 5/27 Little River Nature Trail, NP 5/29 CRPL, Chelmsford 6/2 Dauphinais Park, Grafton 6/2 George L Darey WMA, Lenox 7/6 Dauphinais Park, Grafton 7/8 MBWMA, Newbury 8/1 Northampton CG 8/5 AP Allens Neck, Dartmouth 8/19 FS WMA, Longmeadow 8/26 Moose Hill Farm, Sharon 9/8 AP, Dartmouth 9/22 Wayland CG 9/26 Northampton CG 6 10/2 Chelmsford 10/5 Orange Airport 10/6 Moore SP, Paxton 10/6 Northampton CG 10/7 Wavland CG 10/17 AP Field Station

Spring Azure

4/2 Bridgewater 4/21 E Longmeadow 4/22 BMB WS, Worcester 4/22 Broadmoor WS, Natick 4/22 Freetown SF 142 4/22 W Newbury 4/24 NRT, Amherst/Belchertown, 4/29 Sherborn PL 5/1 Cape Ann 5/3 W Tisbury SF 5/8 Holliston 5/9 MV SF 5/11 Oxbow NWR, Harvard 5/12 AP Allens Neck, Dartmouth 5/12 Quabbin Park, Belchertown 8 5/13 Rutland 11 5/24 Notchview Res., Windsor 12

Cherry Gall Azure

5/22 Potter's Hill, Grafton 5/23 Katama, Edgartown 5/25 BMB WS, Worcester 5/27 Tom Swamp, Petersham 6/2 Hale Res, Westwood 6/10 NCM, Petersham

'Summer' Spring Azure

6/5 Moore SP. Paxton 6/30 Concord NABA 7/4 Dunback Meadows, Lexington 7/7 C Franklin NABA 7/8 N Essex NABA 7/15 N.River MAS, Marshfield 3 7/31 Cummington 9/5 Windsor 9/16 AP, Dartmouth 10/21 Wayland CG

Azure spp.

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5/25 CRPL, Chelmsford 5 Tom Whelan 5/26 MSSF, Plymouth 15 MBC(Murray+Nielsen) 5/27 Hubbardston M.Lynch+S.Carroll 12 5/28 Sherborn PL 24 Bob Bowker M.Lynch+S.Carroll 6/2 Rutland 21 M.Lynch+S.Carroll 6/6 Ware River Watershed 10 6/10 N.River MAS, Marshfield 1 S.Shapiro+M.Polana 6/18 Barry Yard, Paxton 1 Elise Barry

E.Barry+M.Champagne

- 7 S.+J. Stichter
- Tom Whelan 5
- 4 Dolores Price #
- 3 Tom Tyning #
- 5 W.Miller+E.Barry
- Barbara Walker # 6
- 7 Tom Gagnon
- 17 Erik Nielsen
- MBC(T. Gagnon) 3
- 10 M. Champagne 34
- Lauren Miller #
- 6 MBC (E.Nielsen)
- T.Gagnon+F.Model 3
- Tom Whelan 1 Earle Baldwin
- 1 Elise Barry
- 1 M. Champagne
- S.Moore+B.Volkle
- 1 Lauren Miller
- 1 Karen Holmes
- 2 Karen Parker
- Dolores Price 1
- Bob Bowker 5
- E.Nielsen+S.Sweet
- 1 Susan Hedman
- Frank Model 8
- 30 Bob Bowker
- 18 Doug Savich
- 23 Matt Pelikan
- Bob Bowker 16
- Matt Pelikan 28
- Dolores Price # 7
- 9 Erik Nielsen
- M.Lynch+S.Carroll
- M.Lynch+S.Carroll
- B.Spencer+J.Richburg
 - 1 E.Barrv+D.Price
- 14 Matt Pelikan
- 1 E.Barry+M.Champagne
 - 1 MBC (T. Gagnon) Erik Nielsen 1
 - 2 Erik Nielsen

 - 8 Elise Barry 26 Dick Walton #
 - 20 Jason Forbes
 - M. Fairbrother # 53
 - 56 Sharon Stichter #
 - S.Shapiro+M.Polana
 - Barbara Spencer Tom Gagnon #
 - 2 Lauren Miller # E.Nielsen+S.Sweet

Silvery Blue

5/13 Whately 5/27 NCM, Petersham 5/27 Pump House, Petersham 6/2 Appalachian Trail, Tyringham 6/2 George L Darey WMA, Lenox 6/2 New Salem 6/2 Tom Swamp, Petersham 6/6 Moran WMA, Windsor 6/8 Graves Farm, Williamsburg

6/10 NCM, Petersham 6/10 Ouabbin Park, Belchertown American Snout

7/8 Hadley

Variegated Fritillary 6/7 Cape Ann

6/11 Littleton 6/15 Tisbury Meadow 7/15 N.River MAS, Marshfield 1 7/22 Northampton NABA 7/31 Northampton CG 8/30 Northampton CG 9/5 Savoy 9/5 Windsor 9/14 Cape Ann 9/20 Waring Field, Rockport 10/3 Turners Falls Airport 10/14 Northampton CG 10/14 Sharon 10/17 AP Field Station 10/25 Northampton CG

Greater Fritillary (spp.)

7/3 BMB WS, Worcester 7/6 Dauphinais Park, Grafton 7/13 Graves Farm, Williamsburg

Great Spangled Fritillary

6/9 E Longmeadow 6/17 Whately 6/24 MBWMA, Newbury 7/1 Graves Farm, Williamsburg 7/3 BMB WS, Worcester 7/3 MBWMA, Newbury 7/4 Cross St., Millbury 7/6 Dauphinais Park, Grafton 7/7 W Bridgewater 7/8 MBWMA, Newbury 7/10 Oxbow NWR, Harvard 7/13 Graves Farm, Williamsburg 7/22 Middleboro NABA 7/28 MBWMA, Newbury 8/12 Wayland CG 9/3 Rowden Yard, Leicester 9/16 BFD, Hubbardston 9/19 Moore SP, Paxton 9/23 Wayland CG 9/26 Northampton CG 2 10/1 Westport

Aphrodite Fritillary

- 6/29 Tully Dam, Royalston 7/3 BMB WS, Worcester 1 7/6 Dauphinais Park, Grafton
- 7/7 C Franklin NABA
- 7/13 Graves Farm, Williamsburg

Massachusetts Butterflies

- M.Lynch+S.Carroll
 - 1 Bill Benner

2

1

- 5 MBC (T. Gagnon)
- MBC (T. Gagnon) 2
- Tom Tyning # 2
- 3 Tom Tyning #
- 2 Frank Model
- Frank Model 1
- 18 Frank Model
- 1 Bill Benner
- Erik Nielsen 3
- 1 Sue+Ron Cloutier

Chris+Heather Gentes

- Doug Savich 1 Jason Forbes 1 Matt Pelikan S.Shapiro+M.Polana 1 Dottie Case # 2 Tom Gagnon 4 Frank Model Tom Gagnon # 1 Tom Gagnon # Doug Savich 1 Tom Whelan 2 M.Lynch+S.Carroll 6 Frank Model 4 Brian Cassie Lauren Miller 1 Tom Gagnon 11 B.Walker+E.Barry W.Miller+E.Barry 29 Bill Benner # Karen Parker 1 **Bill Benner** 10 MBC(S. Stichter) 9 BI(Benner+Gagnon) B.Walker+E.Barry 6 Sharon Stichter #
 - Dolores Price 5
 - 4 W.Miller+E.Barry 5 Don Adams
- 27 Barbara Walker #
- Sue Hennessy 5
- 13 Bill Benner #
- Karen Holmes 10
- 12 Sharon Stichter #
 - Wendy Miller
- 2 Mark Rowden
- 5 MBC(B. Walker)
- 3 Elise Barry
- 1 Jason Forbes T.Gagnon+F.Model
- M.Lynch+S.Carroll
- 3 Frank Model
- B.Walker+E.Barry 1 W.Miller+E.Barry

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- 10 M. Fairbrother #
- 2 Bill Benner #

7/22 Northampton NABA 8/15 Paxton 9/2 Florence 9/3 Monroe 9/16 BFD Hubbardston Atlantis Fritillarv

6/22 Cummington

6/30 Hawley 7/1 Cummington 7/12 October Mountain SF 7/15 C Berkshire NABA

Silver-bordered Fritillary

5/28 Amherst 5/30 Cape Ann 6/10 Quabbin Park, Belchertown 6/10 Sherborn PL 6/22 Cummington 6/26 Tully Dam, Royalston 7/7 C Franklin NABA 8/1 Cape Ann 8/11 FS WMA, Longmeadow 8/14 MBWMA, Newbury 8/27 Norton 9/14 Cape Ann 9/24 Cape Ann 10/1 Cape Ann

Meadow Fritillary

6/2 Appalachian Trail, Tyringham 6/2 Breakneck Rd, Tyringham 7/1 Graves Farm, Williamsburg 7/6 S Berkshire NABA 7/13 Graves Farm, Williamsburg 7/22 E Longmeadow 9/1 Williamstown 10/3 Williamstown

Harris' Checkerspot

6/2 Milford PL 6/10 BMB WS, Worcester 6/10 Sherborn PL 6/12 NCM, Petersham 6/17 Tully Dam, Royalston 6/24 MBWMA, Newbury 7/1 N Worcester NABA 7/3 BMB WS, Worcester

Pearl Crescent

5/20 BMB WS,Worcester 5/22 PL near Rte 122, Grafton 5/24 Notchview Res., Windsor 5/25 BMB WS, Worcester 5/25 CRPL, Chelmsford 5/25 Whately 5/26 Barneys Joy, Dartmouth 5/26 Brookfield 5/26 MSSF, Plymouth Δ 5/27 Hubbardston 151 5/27 NCM Petersham 5/28 BMB WS, Worcester 5/28 Oak St. PL, Shrewsbury 5/29 Cape Ann 5/30 Amherst 6/2 Appalachian Trail, Tyringham 6/2 MBWMA, Newbury 6/8 Graves Farm, Williamsburg 6/10 Dauphinais Park, Grafton 6/10 Quabbin Park, Belchertown

- 3 Dottie Case #
- Elise Barry

1

- Bill Benner # 1 M.Lvnch+S.Carroll
- - 1 MBC (B. Walker)
 - 1 Barbara Spencer
- M.Lvnch+S.Carroll
- 2 Barbara Spencer
- T.Gagnon+R.Cloutier 4 Tom Tyning #
- 1 Frank Model
- 32 Doug Savich
- Sue+Ron Cloutier 10
- 1 Bob Bowker
- several Babara Spencer
 - Frank Model 2
 - 18 M. Fairbrother #
 - 182 Doug Savich Erik Nielsen 1
 - S.+J. Stichter
 - 4 Brian Cassie
 - 1300 Doug Savich
 - 148 Doug Savich
 - 1 Doug Savich
 - 2 Tom Tyning #
 - 6 Tom Tyning #
 - 12 Frank Model Rene Laubach # 21
 - Bill Benner # 9
 - Karen Parker 1
 - Pam Weatherbee 1
 - Pam Weatherbee 1

 - 3 Barbara Walker #
 - 19 B.+R. Walker
 - Bob Bowker 2
 - 8 Frank Model
 - 3 Wendy Miller
 - 13 MBC(S. Stichter)
 - 24 Cark Kamp #
 - B.Walker+E.Barry

1

17

19

60

12

27

29

58

66

15

- 2 Barbara Walker #
- 15 E.Barry+D.Price

MBC (L. Miller)

M.Lynch+S.Carroll

M.Lynch+S.Carroll 17 MBC (T. Gagnon)

MBC (Murray+Nielsen)

23 BI (B.Walker)

B.+R. Walker

Doug Savich

Frank Model

Bill Benner

Tom Tyning #

Sharon Stichter #

MBC (D. Price)

Sue+Ron Cloutier

33

4 B.Spencer+J.Richburg 9 E.Barry+M.Champagne 3 Tom Whelan 4 Bill Benner

7/21 Tower Hill, Boylston 7/22 Middleboro NABA 7/22 Northampton NABA 7/27 Barnstable NABA 7/27 Moore SP Paxton 7/29 Sherborn PL 8/1 Cape Ann 8/5 AP Allens Neck, Dartmouth 8/14 MBWMA, Newbury 9/5 Savov 9/14 Cape Ann

Baltimore Checkerspot

6/16 W Bridgewater 6/19 MPRA, W Newbury 6/23 W Bridgewater 6/24 MPRA, W Newbury 6/28 Stichter Yard, Newbury 7/1 Graves Farm, Williamsburg 7/3 Williams Land, Harvard 7/8 MPRA, W Newbury 7/14 Blackstone Valley NABA 7/14 Williams Land, Harvard 7/15 C Berkshire NABA 7/22 Northampton NABA 7/22 Westport 10

Ouestion Mark

- 5/3 IRWS, Topsfield 5/3 Stichter Yard, Newbury 5/8 Holliston 5/26 W Bridgewater 5/28 Whately 5/30 Wompatuck SP, Hingham 6/1 Woods Hole 6/2 Moran WMA, Windsor 6/7 Moore SP. Paxton 6/10 Moose Hill WS, Sharon 6/14 Cape Ann 6/17 E Longmeadow 6/26 Tom Swamp, Petersham 7/7 W Bridgewater 7/14 N Adams 1 7/22 Northampton NABA 7/24 Depot Rd, Williamsburg 7/24 Northampton CG 7/29 AP Allens Neck, Dartmouth 8/1 E Longmeadow 9/4 Stichter Yard, Newbury 10/14 Cape Ann Eastern Comma
- 3/24 Broadmoor WS, Natick 3/31 Mount Tom State Res. 3/31 Noanet Woodlands, Westwood 3/31 Sherborn PL 4/20 Mount Tom State Res. 4/22 Assabet River NWR 4/22 Freetown SF 4/22 New Salem 4/22 Oxbow NWR, Harvard 5/3 IRWS, Topsfield 5/6 E Longmeadow 6/30 Hawley 7/1 Cherry Valley, Leicester 7/6 Cummington 7/8 MBWMA, Newbury 7/8 MPRA, W Newbury 7/14 Northborough 4

11 Karen Holmes 945 Dottie Case # 206 Alison Robb # Elise Barry 68 Bob Bowker # 40 130 Doug Savich 73 Erik Nielsen 65 S.+J. Stichter 14 Tom Gagnon # 395 Doug Savich 3 Don Adams 2 Joe Stichter 100 Don Adams # MBC (S. Stichter) 8 Sharon Stichter BI (Benner+Gagnon) 50 Tom Whelan

15 Eleanor Solberg

- 700 Erik Nielsen
- 37 Tom Dodd # 30
 - S.Moore+B.Volkle
 - 49 Tom Tyning # 32 Dottie Case #
 - M.Lynch+S.Carroll

Fred Goodwin 1 S+L Stichter 1 Richard Hildreth Don Adams 1 Bill Benner Erik Nielsen 1 Alison Robb Tom Tyning # 1 1 Elise Barry 1 Stephanie+Vanessa Hill Doug Savich Karen Parker 8 Frank Model 3 Don Adams F.Model+E.Nielsen 25 Dottie Case # Frank Model 1 Frank Model 3 15 Erik Nielsen Karen Parker 1 Sharon Stichter 1 Doug Savich 2 Bob Bowker Tom Gagnon # Erik Nielsen 1

- Bob Bowker
- 13 Tom Gagnon # 2 Jason Forbes
- E.Nielsen+S.Sweet 1 Sue+Ron Cloutier
- S.Moore+B. Volkle
- 2 Fred Goodwin
- 1 Karen Parker
- M.Lynch+S.Carroll 1 Mark Rowden
- Barbara Spencer 2
- 2 Barbara Walker # 3 Erik Nielsen
- S.Moore+B.Volkle

7/21 Crane Swamp Trail, 8/19 FS WMA, Longmeadow 10/6 S Egremont, Egremont 1 10/13 W Bridgewater 10/25 IRWS, Topsfield 11/23 W Bridgewater

Compton Tortoiseshell

3/23 Cape Ann 3/23 Grafton 3/29 Assabet River NWR, Stow 3/30 Sherborn 3/31 Mount Tom State Res. 3/31 Noanet Woodlands, Westwood 4/7 Whately 4/22 Arnold Arboretum, Boston 4/22 Assabet River NWR 4/22 Oxbow NWR, Harvard 4/22 SF, Douglas 5/5 Manchester 5/12 Quabbin Park, Belchertown 6/30 Acton 7/8 Roberts Rd., Sandisfield 7/9 W Newbury 8/27 Acton

Mourning Cloak

3/14 Holliston 3/23 Cape Ann 3/23 Fowl Meadows, Milton 3/23 Rochester 3/23 Vineyard Haven 3/24 Broadmoor WS, Natick 3/24 Sharon 3/27 Moore SP, Paxton 3/27 Paine Estate, Waltham 3/31 Mount Tom State Res. 3/31 Noanet Woodlands, Westwood 4/1 Dauphinais Park, Grafton 4/20 Mount Tom State Res. 4/21 Sherborn PL 4/21 Wachusett Res, Boylston 4/22 BMB WS, Worcester 4/22 Freetown SF 6 5/1 Oxbow NWR Harvard 5/3 Arcadia WS, Easthampton 5/9 IRWS, Topsfield 6/6 Moran WMA, Windsor 7/7 W Bridgewater 9/23 DLSP Dartmouth 10/5 Orange Airport 10/8 Wellfleet 10/18 Williamstown 10/20 E Longmeadow 10/21 Morris Island, Chatham 10/21 Stichter Yard, Newbury

Milbert's Tortoiseshell

6/10 Quabbin Park, Belchertown 6/15 Graves Farm, Williamsburg 6/16 Easthampton 7/7 C Franklin NABA 7/14 Blackstone Valley NABA 7/22 N. Oxford 7/22 Northampton NABA 7/22 Quabbin 7/24 Cummington 9/5 Savoy 10/4 Northampton CG 1

- S.Moore+B.Volkle 8 MBC (T. Gagnon) M.Lynch+S.Carroll
- 1 Don Adams

5

- Fred Goodwin
- Don Adams 1
- 1 Doug Savich Barbara Walker 1
- 2 Tom Murray
- 1 M. Champagne
- Tom Gagnon # 1
- 4 Erik Nielsen
- 1 Bill Benner
- 1 Robert Mayer
- Jason Forbes 2
- 3 Andrew Birch 1 Russ Holden
- M.Lynch+S.Carroll
- M.Lynch+S.Carroll
- 3 Steve Moore #
- 1 Mark Rowden
- Dorothy Saffarewich
- 1 Jason Forbes

 - Richard Hildreth Doug Savich
- 2
- 1 Amy O'Neill
- 1 G.Gove+J.Gordon
- Matt Pelikan 2
- 2 Bob Bowker
- 1 Amy O'Neill
- 1 Elise Barry
- 2 Jason Forbes
- 8 Tom Gagnon #
- 8 Erik Nielsen
- 4 Michael Walker
- 32
- Tom Gagnon # Bob Bowker 6
- 3 Barbara Walker
- 4 Dolores Price
- E.Nielsen+S.Sweet
- Frank Model 7
- Frank Model 6
- Fred Goodwin 6
- 5 Frank Model
- 1 Don Adams
- 2 Brian Cassie
- 1 Earle Baldwin
- Susan Hedman
- Pam Weatherbee 1
- Karen Parker
- 1 Blair Nikula 1
- 1 Sharon Stichter
- 1
- Sue+Ron Cloutier **Bill Benner** 1
- 1
- Bruce King M. Fairbrother #
- 1 Tom Dodd #
- Eleanor Solberg
- 15 Dottie Case #
- Ron Hamburger
- 2 Barbara Spencer
- 1 Tom Gagnon #
- F.Model+B.Spencer

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American Lady

4/28 Groton 4/30 Stichter Yard, Newbury 4/30 W Tisbury SF 5/13 E Longmeadow 5/24 IRWS, Topsfield 5/27 Little River Nature Trail, NP 6/10 N.River MAS. Marshfield 1 7/7 GBH, Canton 9 7/21 Brewster NABA 9/2 Dartmouth/Westport 12 9/8 AP, Dartmouth 9/23 DLSP, Dartmouth 10/17 AP Field Station 10/17 Gooseberry Neck, Westport 10/31 Dartmouth/Westport 10/31 Stichter Yard, Newbury

Painted Lady

5/5 Boston Nature Center 5/26 W Bridgewater 6/10 Dauphinais Park, Grafton 6/30 GBH. Canton 7/4 HPM, Woburn 7/8 Old Town Hill, Newbury 7/15 Rowden Yard Leicester 7/16 GBH,Canton 7/22 Middleboro NABA 8/18 Joppa Flats, NP 8/18 Northampton CG 9/8 AP, Dartmouth 9/17 Cape Ann 9/18 Northampton CG 9/19 Moore SP, Paxton 9/23 DLSP, Dartmouth 10/14 Northampton CG 10/22 Gooseberry Neck, Westport

Red Admiral

- 4/19 Middlesex Fells, Medford 4/24 Tisbury 1 4/30 Falmouth 1 4/30 Holliston 1 5/1 Stichter Yard, Newbury 1 5/2 W Meadows, Northampton 1 5/20 BMB WS, Worcester Barbara Walker # 1 5/21 E Longmeadow 1 5/22 Cummington 2 5/24 IRWS, Topsfield 5 5/25 Whately 4 5/28 Foxborough 1 5/28 Royalston 3 6/7 Moore SP, Paxton 2 Elise Barry 6/10 Quabbin Park, Belchertown 1 6/15 Graves Farm, Williamsburg 5 6/17 Quabbin Windsor Dam, Ware 3 6/25 HH, Provincetown 30 +6/27 Gooseberry Neck, Westport ~480 6/30 Nantucket Shoals 7/1 Cape Ann 7/1 Graves Farm, Williamsburg 26 7/5 George's Island 7/6 Road's End Sanc., Worthington 85 Barbara Spencer 7/7 C Franklin NABA 7/8 Stellwagon Bank 25 - 307/9 Park School, Brookline 7/10 Maudslay SP, W Newbury 7/12 Stichter Yard, Newbury
- 1 Tom Murray Sharon Stichter 1 3 Matt Pelikan 1 Karen Parker 11 Fred Goodwin 8 S.+J. Stichter S.Shapiro+M.Polana Champagne+Nielsen 34 Alison Robb # B.Bowker+J.Sweeney 28 Lauren Miller # 6 Brian Cassie 11 Lauren Miller 25 Lauren Miller M. Champagne 1 1 Joe Stichter 1 Andrew Birch 2 Don Adams MBC (D. Price) 2 M. Champagne 1 MBC (E.Nielsen) Erik Nielsen 1 1 Mark Rowden Frank Model 2 Karen Holmes S.+J. Stichter 1 1 Ron Hamburger 8 Lauren Miller # 1 Doug Savich Tom Gagnon 3 1 Elise Barry Brian Cassie 7 Frank Model 1 1 M. Champagne Renee LaFontaine 1 Matt Pelikan Barbara Volkle Richard Hildreth Sharon Stichter Tom Gagnon
 - Karen Parker Barbara Spencer Fred Goodwin
 - Bill Benner
 - M. Champagne
 - Carl Kamp
 - Sue+Ron Cloutier
 - Bill Benner
 - BI (Dave Small)
 - B.Nikula+S.Riley Brian Cassie
 - 500 Rick Heil # 70 Doug Savich
 - BI(Benner+Gagnon) 12.000 Brian Cassie
 - 101 M Fairbrother # Don+Cheryl Adams 720 Brian Cassie
 - 25 S.+J. Stichter
 - 26 Sharon Stichter

7/14 Blackstone Valley NABA 7/22 Northampton NABA 9/5 Savoy 9/7 Notchview Res., Windsor 9/13 Cape Ann 9/13 Nelson Island, Rowley 9/23 DLSP, Dartmouth 10/21 Bolton Flats 10/21 Gay Head 10/21 Morris Island, Chatham 10/21 Stichter Yard, Newbury 10/22 Northampton CG 10/31 Dartmouth/Westport

Common Buckeye

7/14 Blackstone Valley NABA 7/15 GBH. Canton 7/15 MV NABA 7/15 N.River MAS, Marshfield 1 7/29 AP Allens Neck, Dartmouth 8/6 Conant Brook Dam, Monson 9/1 Nelson Island, Rowley 9/8 AP. Dartmouth 9/23 W Meadows, Northampton 10/2 W Tisbury 10/6 Northampton CG 10/17 AP Field Station 10/21 Harwich 10/25 Northampton CG 10/31 Dartmouth/Westport

Red-spotted Admiral

6/10 Dauphinais Park, Grafton 6/10 Moose Hill WS, Sharon 6/10 Rowden Yard, Leicester 6/10 Tom Swamp, Petersham 7/8 Cedar Hill, Northborough 7/8 N Berkshire NABA 7/22 New Salem

White Admiral

6/2 New Salem 6/5 Rowden Yard, Leicester 6/6 Ware River Watershed 1 6/10 Sherborn PL 6/10 Tom Swamp, Petersham 6/15 Graves Farm, Williamsburg 6/17 Quabbin Windsor Dam, Ware 6/21 Stichter Yard, Newbury 6/22 Road's End Sanc. 6/30 Hawley 7/1 Bertuzzi WMA, Groton 7/8 N Berkshire NABA 9/5 Savoy

Red-spotted Purple

5/28 Amherst 5/29 Cedar Hill, Northborough 5/29 Chauncy Pond, Westborough 6/2 Draper Park, Hopedale 6/2 Rutland 12 6/5 Moore SP. Paxton 6/10 Tom Swamp, Petersham 6/17 Quabbin Windsor Dam, Ware 6/18 Springfield 6/20 E Longmeadow 6/24 Ware River Watershed 9 6/30 GBH.Canton 6/30 Hawley 12

- 103 Tom Dodd #
- 166 Dottie Case #
- 152 Tom Gagnon #
- 20 Pam Weatherbee
- Doug Savich
- Joe Stichter
- 17 Brian Cassie
- E.Nielsen+S.Sweet
- 1 Matt Pelikan Blair Nikula 2

1

- 2 Sharon Stichter
- Ron Hamburger 1
- 3 M. Champagne
- 3 Tom Dodd #
- Erik Nielsen 1
- 2 Matt Pelikan #
- S.Shapiro+M.Polana
- 1 Erik Nielsen
- 1 Jason Forbes
- Fred Goodwin 1
- 5 Lauren Miller #
- 2 MBC (T. Gagnon)
- 1 Judy Holland
 - M. Champagne
- 2 Lauren Miller

1

- 1 Alison Robb
- Tom Gagnon 1
- M. Champagne 1
- 2 MBC (D. Price) 1 Stephanie+Vanessa Hill
 - 1 Mark Rowden
 - Erik Nielsen 2
 - S.Moore+B.Volkle
 - 29 Tom Tyning #
 - 2 Jason Forbes
 - 1 Frank Model
 - Mark Rowden
 - M.Lvnch+S.Carroll
 - 1 Bob Bowker
 - 2 Erik Nielsen
 - Bill Benner
 - BI (Dave Small) 1
 - Sharon Stichter
 - 1 Barbara Spencer M.Lynch+S.Carroll
 - 1 Jason Forbes
 - Tom Tyning # 11
 - 1 Tom Gagnon #

 - 1 Frank Model
 - 2 Barbara Volkle Barbara Volkle 4
 - 2 Barbara Walker #
 - M.Lynch+S.Carroll
 - 4 Elise Barry
 - 13 Erik Nielsen
 - 1 BI (Dave Small)
 - Karen Parker Karen Parker
 - M.Lynch+S.Carroll
 - 2 M. Champagne
 - M.Lynch+S.Carroll

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1

- 7/12 Field Farm, Williamstown 7/20 Forest Park, Springfield 7/29 Westwood 8/5 Hennessey Property, Grafton 8/25 Stichter Yard, Newbury 9/3 Monroe 1 9/5 Savoy
- 9/5 Windsor

Vicerov

5/28 Amherst 5/28 BMB WS, Worcester 5/29 Chauncy Pond, Westborough 5/29 CRPL, Chelmsford 6/1 Lamson Rd, Foxborough 6/2 Breakneck Rd, Tyringham 6/2 Rutland 2 6/8 Graves Farm, Williamsburg 6/10 BMB WS, Worcester 6/10 Dauphinais Park, Grafton 6/10 Sherborn PL 6/11 Oak St. PL, Shrewsbury 6/16 MBWMA, Newbury 6/17 Quabbin Windsor Dam, Ware 7/5 Sheffield 6 8/4 Leicester 8/14 MBWMA, Newbury 8/17 Whittemore St., Leicester 9/16 BFD, Hubbardston 9/23 St. Anne's Fields, Lincoln 9/29 AP, Dartmouth 9/29 Rock Meadow, Belmont 10/6 Great Barrington 10/20 Whittemore St., Leicester

Hackberry Emperor

7/5 Sheffield 7/20 Forest Park, Springfield 8/19 Forest Park, Springfield

Tawny Emperor

7/5 Sheffield 7/20 Forest Park, Springfield 8/1 Northampton CG

Northern Pearly-Eye 6/24 Lincoln

6/24 Ware River Watershed 6/29 Tahanto Hs, Boylston 7/3 BMB WS, Worcester 1 7/4 MCP, Burlington/Woburn 7/6 S Berkshire NABA 7/10 Rowden Yard, Leicester 7/12 Field Farm, Williamstown 7/13 Graves Farm, Williamsburg 7/21 Crane Swamp Trail, 7/24 Cummington 8/6 Conant Brook Dam, Monson 10/3 Ward Res, Andover

Eved Brown

- 6/24 MBWMA, Newbury 7/1 N Worcester NABA 7/1 N. Common Pastures, NP 7/6 Cummington 7/6 New Salem 7/6 Tom Swamp, Petersham 7/8 MBWMA, Newbury 7/9 New Salem
- 7/12 Moran WMA, Windsor

36

- 1 Pam Weatherbee T. Gagnon+Bruce 1
- Seth Sweet 1
- Dolores Price 1
- Sharon Stichter 1
- M.Lynch+S.Carroll
- 2 Tom Gagnon # 1 Tom Gagnon #
- 2 Frank Model 1 BI (B Walker)
- Barbara Volkle 1 Tom Whelan
- M. Champagne
- 1 4 Tom Tyning #
- M.Lvnch+S.Carroll
- 3 Bill Benner
- 7 B. +R. Walker
- 5 MBC (D. Price)
- 3 Bob Bowker
- W.Miller+E.Barry 4 1
- S. +J. Stichter 7 BI (Dave Small)
- M.Lynch+S.Carroll
- MBC (D. Price) 6
- 5 S. +J. Stichter
- 2 Mark Rowden
- MBC (B. Walker) 2 2
 - Jason Forbes
 - M. Champagne Jason Forbes
- 1 M.Lvnch+S.Carroll
- 1 Mark Rowden

M.Lynch+S.Carroll 2 T. Gagnon+Bruce

- 1 MBC (T. Gagnon)
- M.Lynch+S.Carroll T. Gagnon+Bruce 1 Tom Gagnon

1 Carl Kamp

1

- M.Lynch+S.Carroll
- 1 Ron Hamburger
- B.Walker+E.Barry
- 3 MBC (E.Nielsen)
- 15 Rene Laubach # 1 Mark Rowden
 - Pam Weatherbee
- 2 Bill Benner #
- 1 S.Moore+B.Volke
- Barbara Spencer 1
- Jason Forbes
- 1 Howard Hoople

MBC (S. Stichter)

3 Carl Kamp #

1

- 2 S. +J. Stichter
- Barbara Spencer Frank Model 6
- Frank Model 6
- Barbara Walker # Frank Model 2
- 3 Frank Model

7/12 Richmond 2 12 7/14 N Adams 7/21 Cedar Hill, Northborough 1 7/21 Crane Swamp Trail. 2 7/26 Millis 7/27 Old Rt 95, NP

Appalachian Brown 6/10 Sherborn PL

7/1 Westborough WMA 7/7 New Salem 7/8 Pike's Bridge Rd,W Newbury 7/14 Blackstone Valley NABA 7/21 Crane Swamp Trail, 7/22 Milford PL 7/29 Barry Yard, Paxton 8/6 Cape Ann 8/14 Pike's Bridge Rd, W Newbury 8/19 FS WMA, Longmeadow

Little Wood-Satvr

- 5/26 E Longmeadow 5/27 Lamson Rd, Foxborough 5/30 Paine Estate, Waltham 6/2 Draper Park, Hopedale 6/2 Rutland 23 6/5 Cummington 6/6 IRWS, Topsfield 6/6 Paine Estate, Waltham 6/7 Lamson Rd, Foxborough 6/8 Crow Hill, Worcester 60 6/10 Dauphinais Park Grafton 6/10 Sherborn PL 6/11 Fort Pond Brook, 6/11 Oak St. PL, Shrewsbury 6/15 Graves Farm, Williamsburg 6/15 Old Rt95, NP 300 Sharon Stichter 6/24 Ware River Watershed 40 7/1 E Longmeadow 7/8 E Longmeadow 7/10 Oxbow NWR, Harvard 50 +7/11 Cape Ann 7/21 AP Field Station 7/21 Crane Swamp Trail, 7/24 Paxton 7/29 Sherborn PL 8/5 E Longmeadow Common Ringlet 5/26 N.River MAS, Marshfield 1 5/27 Pump House, Petersham 5/28 NCM, Petersham
- 5/29 Cape Ann 5/29 CRPL, Chelmsford 6/2 George L Darey WMA, Lenox 6/2 Rutland 13 6/5 Moore SP, Paxton 6/6 CRPL, Chelmsford 6/8 Graves Farm, Williamsburg 6/10 Dauphinais Park, Grafton 6/10 Quabbin Park, Belchertown 6/15 Little River Nature Trail,NP 6/17 Quabbin Windsor Dam, Ware 8/4 Leicester 8/16 Parker River NWR Hq,NP 9/5 Windsor 9/7 Notchview Res., Windsor ~20
- 9/16 BFD, Hubbardston
- 9/23 AP Allens Neck, Dartmouth

Massachusetts Butterflies No. 30, Spring 2008

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- T.Gagnon+R.Cloutier F.Model+E.Nielsen S.Moore+B.Volkle S.Moore+B.Volkle
- 5 M. Champagne 1 S. +J. Stichter
- 2 Bob Bowker
- 9 S.Moore+B.Volkle
- 3 Frank Model
- 12 Erik Nielsen
- Tom Dodd # 38
- 4 S.Moore+B.Volkle
- 3 Erik Nielsen
- Elise Barry
- 1 Doug Savich
- 1 S. +J. Stichter 22 MBC (T. Gagnon)
- 2 Karen Parker
- M. Champagne
- 25 Jason Forbes
- 8 Barbara Walker #
- M.Lynch+S.Carroll
- 3 Barbara Spencer
- 100 Fred Goodwin
- 40 Jason Forbes
- 63 M. Champagne
- M.Lynch+S.Carroll
- 85 MBC (D. Price) 65

41 Karen Parker 43 Karen Parker

4

1

4

1

1

6

4

9

175

30

45

50

15

21

20

54

9

1 Erik Nielsen

- Bob Bowker Jason Forbes 30
- 36 W.Miller+E.Barry
- Bill Benner 21 M.Lynch+S.Carroll

Sue Hennessy

Lauren Miller

S.Moore+B.Volke

Doug Savich

Elise Barry

10 Bob Bowker #

3 Karen Parker

S.Shapiro+M.Polana

Erik Nielsen

Doug Savich

Tom Whelan

M.Lynch+S.Carroll

MBC (D. Price)

Sharon Stichter

BI (Dave Small) MBC (D. Price)

Sharon Stichter

Tom Gagnon #

Pam Weatherbee

MBC (B. Walker)

Sue+Ron Cloutier

48 Tom Tyning #

64 Elise Barry

21 Tom Whelan

Bill Benner

MBC (T.Gagnon)

Common Wood-Nymph

5/31 Amherst 6/10 Dauphinais Park, Grafton 7/6 S Berkshire NABA 7/14 Blackstone Valley NABA 7/15 C Berkshire NABA 7/15 E Longmeadow 7/15 MV NABA 7/21 Bristol NABA 7/22 Holliston 7/22 Northampton NABA 7/24 Graves Farm, Williamsburg 7/27 MBWMA, Newbury 7/27 Moore SP, Paxton 7/28 E Longmeadow 7/29 AP Allens Neck Dartmouth 8/4 Leicester 8/9 Nelson Island, Rowley 8/14 Cape Ann 8/15 Moore SP, Paxton 8/26 Moose Hill Farm, Sharon 9/2 Cape Ann 9/4 Hoft Farm, W Tisbury 9/5 Windsor 9/16 BFD, Hubbardston 9/16 Nelson Island Rowley 9/19 Moore SP, Paxton 10/5 Stichter Yard, Newbury

Monarch

4/30 W Tisbury SF 5/14 ML, Medford 1 5/26 Barneys Joy, Dartmouth 5/28 Amherst 1 6/1 Lamson Rd, Foxborough 2 6/2 Dauphinais Park, Grafton 1 6/29 Stichter Yard, Newbury 11 7/13 Graves Farm, Williamsburg 33 7/15 N.River MAS, Marshfield 11 7/16 GBH, Canton 7/20 Stichter Yard, Newbury 20 7/22 Northampton NABA 7/22 Westport 35 8/5 AP Allens Neck Dartmouth 8/5 Arnold Arboretum, Boston 20 8/11 Northampton CG 8/11 Plum Island 8/12 Quabbin Park, Belchertown 19 M.Lynch+S.Carroll 8/15 Moore SP, Paxton 8/19 Westport 106 9/2 Northampton CG 9/5 Cape Ann 85 9/5 Savoy 25 9/8 AP, Dartmouth 29 9/12 Mt. Watatic, Ashburnham 400 9/13 Cape Ann 9/13 Nelson Island, Rowley 150 9/14 Moose Hill Farm, Sharon 25 9/15 Salisbury Beach Res 9/17 Cape Ann 9/22 Nelson Island, Rowley 65 9/23 DLSP, Dartmouth 9/24 Cape Ann 150 9/26 Gooseberry Neck, Westport 100 9/29 Gay Head 10/6 Northampton CG hundreds 10/8 Eastern Point, Nahant hundreds Linda Pivacek

1 Frank Model MBC (D. Price) 1 120 Rene Laubach # 436 Tom Dodd # 324 Tom Tyning # Karen Parker 22 243 Matt Pelikan # Mark Mello # 11 1 blue Richard Hildreth 296 Dottie Case # Frank Model 15 S. +J. Stichter 11 Elise Barry 11 26 Karen Parker Erik Nielsen 24 60 MBC (D. Price) 60 Joe Stichter 13 Doug Savich Elise Barry q M. Champagne 4 7 Doug Savich 2 Matt Pelikan 8 Tom Gagnon # MBC (B. Walker) 1 5 S. +J. Stichter 2 Elise Barry 1 Joe Stichter 1 Matt Pelikan R.Lafontaine+M.Rines 1 MBC (L. Miller) Frank Model M. Champagne Dolores Price # Sharon Stichter Bill Benner # S.Shapiro+M.Polana 10 Frank Model Sharon Stichter 323 Dottie Case # M.Lynch+S.Carroll 64 Erik Nielsen Robert Mayer 40 Erik Nielsen 30 Jason Forbes 31 Elise Barry M.Lynch+S.Carroll 100 Bill Benner # Doug Savich Tom Gagnon # Lauren Miller # Tom Pirro # 268 Doug Savich Joe Stichter M. Champagne 150 D.Chickering+L.Cooper 175 Doug Savich S. +Joe Stichter 159 Brian Cassie Doug Savich M. Champagne

600-800 Matt Pelikan Madeline Champagne 10/17 Gooseberry Neck, Westport 110 Lauren Miller 10/21 Morris Island, Chatham 10/22 Gooseberry Neck, Westport 71 10/25 Northampton CG 2 10/31 Dartmouth/Westport 13 10/31 Stichter Yard, Newbury 2 11/1 UMass Fields, Waltham 11/2 Springfield

Silver-spotted Skipper

5/27 NCM, Petersham 5/28 BMB WS, Worcester 5/29 Beaver Brook Mill, Belmont 6/1 Cedar Hill, Northborough 6/1 Lamson Rd,Foxborough 6/2 George L Darey WMA, Lenox 6/2 MBWMA, Newbury 6/5 Moore SP, Paxton 6/10 BMB WS, Worcester 6/10 Dauphinais Park, Grafton 6/15 Graves Farm, Williamsburg 6/17 Quabbin Windsor Dam, Ware 6/24 MBWMA, Newbury 7/3 BMB WS, Worcester 16 7/4 HPM, Woburn 7/7 C Franklin NABA 7/10 Maudslay SP, W Newbury 7/10 Oxbow NWR, Harvard 7/13 Graves Farm, Williamsburg 7/21 Cummington 8/4 Leicester 8/11 Northampton CG 8/19 FS WMA, Longmeadow 9/3 Northampton CG 3 9/18 Florence 9/20 Springfield 10/6 Northampton CG Champagne

Hoarv Edge

6/10 Dauphinais Park, Grafton 6/10 Moose Hill WS, Sharon 6/17 Worcester 6/24 HPM, Woburn 6/28 Prospect Hill, Waltham 7/2 GBH, Canton 7/3 BMB WS, Worcester 7/4 Cross St., Millbury 7/4 HPM, Woburn 7/4 MCP, Burlington/Woburn 7/6 Dauphinais Park, Grafton 7/7 C Franklin NABA 7/16 GBH, Canton

Southern Cloudywing

6/7 Lamson Rd, Foxborough 6/17 Quabbin Windsor Dam, Ware 6/22 Paine Estate, Waltham 6/24 HPM, Woburn 6/24 MBWMA, Newbury 6/30 Concord NABA 7/4 HPM, Woburn 7/7 GBH, Canton 5 7/8 MBWMA, Newbury 7/14 Falmouth NABA 7/15 N.River MAS, Marshfield 1

5/27 Lamson Rd, Foxborough

- 40+ Blair Nikula
 - M. Champagne
 - Tom Gagnon
 - M. Champagne
 - Joe Stichter
 - Jason Forbes
 - Nina Jones 1
 - 1 MBC (T. Gagnon)
 - 2 BI (B Walker)
 - 1 Jason Forbes
 - Barbara Volkle 1
 - 1 M. Champagne
 - 1 Tom Tyning #
 - 1 Sharon Stichter #
 - 3 Elise Barry
 - 5 B. +R. Walker
 - 8 MBC (D. Price)
 - 3 Bill Benner
 - 5 BI (Dave Small)
 - 16 MBC (S. Stichter)
 - B.Walker+E.Barry
- 6 MBC (E.Nielsen) 107 M. Fairbrother #
 - 6 S. +J. Stichter
 - Sue Hennessy 3
 - 9 Bill Benner #
- 4-5 Barbara Spencer 36 MBC (D. Price)
- 30 Erik Nielsen
- 10 MBC (T. Gagnon)
- M.Lynch+S.Carroll
- 1 Tom Gagnon
- 1
- 1 MBC (Dolores P.) 1 Stephanie+Vanessa Hill M.Lynch+S.Carroll 2 Steve Moore 3 Jason Forbes M. Champagne # 1 B.Walker+E.Barry
 - 1 Dolores Price
 - 3 MBC (E.Nielsen)
 - 3 MBC (E Nielsen)
 - 1 W.Miller+E.Barry
 - M. Fairbrother #
 - 1 Frank Model
 - 2 M. Champagne
 - 3 BI (Dave Small)
 - Jason Forbes 1
 - 3 Steve Moore
 - MBC (S. Stichter) 1
 - 10 Dick Walton #

 - 2 Alison Robb #
 - S.Shapiro+M.Polana

 - 1 M. Champagne

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- Karen Parker 1 Madeline

- Northern Cloudywing

- - - MBC (E.Nielsen)
 - Champagne+Nielsen
 - 3 Barbara Walker #

6/2 Appalachian Trail, Tyringham 1 Tom Tyning # 6/2 Dauphinais Park, Grafton 8 Dolores Price # 6/2 GBH. Canton 4 Erik Nielsen 6/9 E Longmeadow Karen Parker 1 6/10 BMB WS, Worcester 8 B +R Walker 6/10 Dauphinais Park, Grafton 21 MBC (D. Price) Jason Forbes 6/11 Acton 2 6/16 Tower Hill, Boylston 2 Wendy Miller 6/19 Prospect Hill, Waltham 3 Jason Forbes 6/25 GBH Canton M. Champagne 2 7/1 E Longmeadow 1 Karen Parker 7/4 HPM, Woburn MBC (E.Nielsen) 1 7/6 Dauphinais Park, Grafton 7/22 Middleboro NABA 1

Duskywing (spp)

5/22 Hassanamesitt Woods, Grafton 20 E.Barry+D.Price 5/26 MSSF, Plymouth 26 MBC (Murray+Nielsen) 6/2 MBWMA, Newbury

Dreamy Duskywing

5/9 Sherborn PL 5/13 E. Quabbin 5/22 PL near Rte 122, Grafton 5/28 Oak St. PL, Shrewsbury 5/28 Royalston 6/2 Dauphinais Park, Grafton 6/10 BMB WS, Worcester 6/10 Quabbin Park ,Belchertown 6/11 Lexington/Waltham 6/11 Waltham

Sleepy Duskywing

5/3 W Tisbury SF 5/5 MSSF, Plymouth 5/9 MV SF 17 5/13 GBH, Canton 2 5/14 MSSF, Plymouth 5/14 W Tisbury SF 5/26 MSSF, Plymouth 5 5/28 Sherborn PL 6/10 Sherborn PL

Juvenal's Duskywing

4/26 GBH, Canton 1 4/30 W Tisbury SF 1 5/3 Westfield Pine Barrens 1 5/5 Turners Falls Airport 1 5/7 Cape Ann 5/9 MV SF 23 5/11 BMB WS, Worcester 5/12 Quabbin Park, Belchertown 18 M.Lynch+S.Carroll 5/13 E. Quabbin 5/13 Rocky Woods, Medfield 12 5/14 MSSF, Plymouth 5/20 BMB WS, Worcester 5/22 Hassanamesitt Woods, Grafton 10 E.Barry+D.Price 5/26 MSSF, Plymouth 13 5/27 Hubbardston 60 5/27 Tom Swamp, Petersham 37 5/28 Sherborn PL 37 41 M.Lynch+S.Carroll 6/2 Rutland 6/5 Moore SP, Paxton 10 Elise Barry 6/12 Tom Swamp ,Petersham 3 Frank Model 6/17 Quabbin Windsor Dam, Ware 1 6/24 MBWMA, Newbury MBC (S. Stichter) Horace's Duskywing

2

- 5/12 HPM, Woburn 5/26 MSSF, Plymouth
- W.Miller+E.Barry Karen Holmes 35 Sharon Stichter # 1 Bob Bowker Tom Gagnon # 1 E.Barry+D.Price 4 B. +Rick Walker Carl Kamp 1 8 Dolores Price # B. +Rick Walker 2 Sue+Ron Cloutier 1 Jason Forbes 2 2 Jason Forbes 2 Matt Pelikan 4 Erik Nielsen Matt Pelikan Erik Nielsen 4 Frank Model 4 Matt Pelikan 2 Bob Bowker 2 Bob Bowker Tom Murray Matt Pelikan Tom Gagnon Bill Benner # 9 Doug Savich Matt Pelikan 6 Dolores Price # 86 Tom Gagnon # E.Nielsen+S.Sweet 30 Frank Model 6 Barbara Walker # MBC(Murray+Nielsen) M.Lynch+S.Carroll MBC (T. Gagnon) Bob Bowker

 - BI (Dave Small)
- 2 Tom Whelan MBC(Murray+Nielsen)

7/4 HPM, Woburn 7/7 GBH. Canton 3 7/10 Oxbow NWR, Harvard 7/14 Blackstone Valley NABA 7/16 GBH Canton 7/21 Bristol NABA 7/25 GBH, Canton 7/29 AP Allens Neck, Dartmouth

Wild Indigo Duskywing

5/22 Hassanamesitt Woods, Grafton 3 5/22 PL near Rte 122, Grafton 5/23 Katama, Edgartown 5/23 Roberts Rd., Sandisfield 5/25 Lamson Rd, Foxborough 5/28 Sherborn PL 5/29 CRPL, Chelmsford 6/2 Dauphinais Park, Grafton 7/21 Bristol NABA 7/28 MBWMA, Newbury 7/29 Prospect Hill, Waltham 8/11 Northampton CG 8/14 Milldam Dam, Marlborough 8/16 Parker River NWR Hq, NP 9/2 Wayland CG 10/9 Northampton CG

Common Checkered-Skipper

7/31 Northampton CG 9/2 Northampton CG 9/7 Northampton CG 9/12 Northampton CG 10/9 Northampton CG 10/15 Northampton CG

Common Sootywing

5/16 Holliston 5/25 CRPL, Chelmsford 5/28 Sherborn PL 5/30 Northampton CG 5/30 Stichter Yard, Newbury 6/1 Florence 7/21 AP Field Station 7/22 Blackstone Valley NABA 7/22 Northampton NABA 7/26 Millis 7/29 AP Allens Neck, Dartmouth 7/29 Concord Sewage Plant 8/1 Northampton CG 8/4 Leicester 8/31 UMass Fields, Waltham 9/1 Wayland CG

Arctic Skipper

6/2 Moran WMA, Windsor 6/5 Moore SP, Paxton 6/6 Moran WMA, Windsor 6/7 Lamson Rd, Foxborough

Least Skipper

5/29 Beaver Brook Mill, Belmont 6/2 Breakneck Rd, Tyringham 6/6 IRWS, Topsfield 6/8 Graves Farm, Williamsburg 6/10 Amherst 6/10 Dauphinais Park, Grafton 6/15 N. Common Pastures, NP 6/24 Ware River Watershed 7/3 C. Pastures, Wet Parcel, NP

- 2 MBC(E.Nielsen)
- Champagne+Nielsen
- 1 Sue Hennessy
- Tom Dodd # 8 30 Frank Model
- Mark Mello # 1
- M. Champagne 2
- 1 Erik Nielsen
- E.Barry+D.Price 2 E.Barry+D.Price 1 Matt Pelikan
- Mark Rowden 1
- 4 Madeline Champ.
- Bob Bowker
- Tom Whelan 1
- 1 Dolores Price #
- 13 Mark Mello #
- 16 Sharon Stichter #
- $15 \pm$ Jason Forbes
- 18 Erik Nielsen
- 15 S.Moore+B.Volke
 - Sharon Stichter
 - Cloutier+Nielsen Barbara Spencer
- 1 Chris Gentes
- 16 Bill Benner #
- about 20 Barbara Spencer
 - 13 Frank Model
 - 4 Barbara Spencer
 - 1 Frank Model

 - 1 Richard Hildreth
 - 1 Tom Whelan
 - Bob Bowker 3
 - 3 Barbara Volkle
 - 2 Sharon Stichter
 - 1 Tom Gagnon
 - 1 Lauren Miller
 - 10 Tom Dodd #
 - 106 Dottie Case # 5 Madeline Champ.
 - 5 Erik Nielsen
 - S.Moore+B.Volkle 15 Tom Gagnon
 - MBC (Dolores P.) 6
 - 1 Jason Forbes
 - S.Moore+B.Volkle 2 Tom Gagnon

 - 44 Tom Tyning #
 - 1 Elise Barry
 - 25 Frank Model
 - 1 M. Champagne
 - Jason Forbes 1
 - Tom Tyning #
 - Fred Goodwin
 - Bill Benner 3
 - Sue+Ron Cloutier MBC (Dolores P.)
 - 5 Sharon Stichter
 - 130 M.Lynch+S.Carroll
 - 13 S. +J. Stichter

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9/18 Northampton CG

- - 1 3 3 5

MBC(Murray+Nielsen)

7/29 N.River MAS, Marshfield	1	S.
8/4 Leicester		1
8/11 Northampton CG		1
8/19 FS WMA, Longmeadow		4
9/2 Cape Ann		
9/2 Dartmouth/Westport 16		B.I
9/8 AP, Dartmouth		1
9/16 Plum Island 3		B
9/20 Waring Field, Rockport		
9/21 Moose Hill Farm, Sharon		
9/22 Waring Field, Rockport		

European Skipper

6/8 E Longmeadow 6/10 Amherst 6/10 Dauphinais Park, Grafton 6/15 Graves Farm, Williamsburg 6/17 Quabbin Windsor Dam, Ware 6/18 Foxborough 6/19 Prospect Hill, Waltham 6/23 W Bridgewater 6/24 MPRA, W Newbury 6/24 Tower Hill, Boylston 6/26 GBH, Canton 6/30 N.River MAS, Marshfield 3 7/1 Graves Farm, Williamsburg 3000 BI(Benner+Gagnon) 7/8 Old Town Hill, Newbury 7/10 Maudslay SP, W Newbury 7/12 Moran WMA, Windsor 7/13 Graves Farm, Williamsburg 7/15 C Berkshire NABA 7/22 Middleboro NABA 7/28 MBWMA, Newbury 7/29 Sherborn PL

Fiery Skipper

7/22 Northampton NABA 8/15 Northampton CG 8/19 FS WMA, Longmeadow 8/28 IRWS, Topsfield 8/30 Northampton CG 8/31 Waltham CG 9/25 N Quabbin 9/27 Northampton CG 10/6 Plum Island 10/16 Haley Yard, Marblehead 10/17 Cape Ann 10/17 IRWS, Topsfield 10/21 Stichter Yard, Newbury

Leonard's Skipper

- 8/25 Sherborn PL 8/27 Norton 8/31 NRT, Amherst/Belchertown, 9/2 Florence 9/2 Whippoorwill Farm, W.Tisbury 9/2 Worcester Airport 1 9/12 Wellfleet Bay WS, Wellfleet 9/16 Brookfield 1 9/19 Moore SP, Paxton **Cobweb Skipper**
- 5/22 Florence 5/23 SF, Edgartown 5/25 BMB WS, Worcester 3 5/25 Florence 45 5/26 MSSF, Plymouth 8 5/27 Pump House, Petersham 5/28 BMB WS, Worcester

- .Shapiro+M.Polana MBC (D. Price) 1 Erik Nielsen 6 9 MBC (T. Gagnon) 3 Doug Savich Bowker+J.Sweenev 0 Lauren Miller # arbara Volkle+Steve 4 Tom Whelan M. Champagne 1 1 S. +J. Stichter Karen Parker 1 24 Sue+Ron Cloutier MBC (Dolores P.) 20 **Bill Benner** 245 25 BI (Dave Small) 298 Madeline Champ. 15 Jason Forbes 11 Don Adams # MBC (S. Stichter) 12 31 Wendy Miller 236 M. Champagne S.Shapiro+M.Polana 42 Erik Nielsen 12 S. +Joe Stichter Frank Model 30 27 Bill Benner # 89 Tom Tyning # 2 Karen Holmes Sharon Stichter # Bob Bowker # 1 1 Dottie Case # 2 Tom Gagnon 1 MBC (T. Gagnon) Fred Goodwin 1 Frank Model 4 Jason Forbes 1 Tom Gagnon 1 5 Tom Gagnon 6 Earle Baldwin Karen Haley 1 2 Doug Savich Fred Goodwin Sharon Stichter Ron Hamburger

 - 5 Frank Model
 - 1 Bill Benner #
 - 1 Judy Holland

 - 1 Mark Faherty
 - M.Lynch+S.Carroll

2 Matt Pelikan E.Barry+M.Champagne B.Benner+T.Gagnon MBC (Murray+Nielsen) 2 BI (B.Walker)

5/28 Royalston 6/1 Florence 6/1 New Salem Indian Skipper 5/26 MSSF, Plymouth 3 5/27 Little River Nature Trail, NP 6/1 Florence 6/2 Joppa Flats, NP 6/2 MBWMA, Newbury 6/10 N.River MAS, Marshfield 6/10 Quabbin Park, Belchertown 6/15 Tisbury Meadow 6/17 Ouabbin Windsor Dam, Ware 6/30 Concord NABA 6/30 Stichter Yard, Newbury

Peck's Skipper

6/2 Dauphinais Park, Grafton 6/2 E Longmeadow 6/10 Ouabbin Park, Belchertown 6/11 Amity Place Environs, 7/29 Beaver Brook Mill, Belmont 7/29 N.River MAS, Marshfield 8/5 E Longmeadow 8/25 Sherborn PL 9/16 BFD Hubbardston 9/19 Moore SP, Paxton 9/23 AP Allens Neck, Dartmouth 9/24 E Longmeadow 10/4 Northampton CG 10/4 Westborough

Tawny-edged Skipper

5/25 CRPL, Chelmsford 5/28 E Longmeadow 5/28 Whately 5/30 Amherst 6/1 Florence 6/2 Draper Park, Hopedale 6/2 Hale Res, Westwood 6/10 Amherst 6/10 Rowden Yard, Leicester 6/11 Oak St. PL. Shrewsbury 6/16 MBWMA, Newbury 6/17 Quabbin Windsor Dam, Ware 6/29 Tully Dam, Royalston 7/14 E Longmeadow 8/4 Leicester 8/11 Northampton CG 9/1 Sylvan Nursery, Westport 3 9/3 Northampton CG 6 9/4 Hoft Farm, W Tisbury 9/8 AP, Dartmouth

Crossline Skipper

6/6 Amity Place Environs, Amherst 7/1 N Worcester NABA 7/4 HPM, Woburn 7/6 Dauphinais Park, Grafton 7/6 S Berkshire NABA 7/7 C Franklin NABA 4 7/14 Blackstone Valley NABA 7/15 C Berkshire NABA 7/15 GBH.Canton 7/15 MV NABA 7/21 Brewster NABA 7/22 Holliston 7/22 Northampton NABA

- 1 Carl Kamp
- Tom Gagnon 1
- Frank Model
- MBC(Murray+Nielsen)
- 2 S. +Joe Stichter

5

- 49 Tom Gagnon Sharon Stichter # 1
- Sharon Stichter #
- S.Shapiro+M.Polana
- 2 Sue+Ron Cloutier
- 12 Matt Pelikan
- 1 BI (Dave Small)
- 3 Dick Walton #
- Sharon Stichter
- 18 Dolores Price #
- Karen Parker 11
- Sue+Ron Cloutier 25
- 12 Frank Model
- Jason Forbes
- 26 S.Shapiro+M.Polana
 - 29 Karen Parker
- 15-20 Ron Hamburger
 - MBC (B. Walker) 4
 - 2 Elise Barry
 - Erik Nielsen 1
 - Karen Parker 1
 - 2 Tom Gagnon
 - M.Lynch+S.Carroll
 - 1 Tom Whelan Karen Parker
 - 1 1 Bill Benner
 - 3 Frank Model
 - Tom Gagnon 5
 - 1
 - Barbara Walker #
 - Erik Nielsen 2
 - 6 Sue+Ron Cloutier
 - 1 Mark Rowden W Miller+E Barry
 - 2
 - 2 S. +Joe Stichter
 - 1 BI (Dave Small)
 - Frank Model
 - 8 Karen Parker
 - MBC (Dolores P.) 1
 - 11 Erik Nielsen
 - E.Nielsen+B.Cassie M.Lynch+S.Carroll

 - 1 Matt Pelikan
 - 1 Lauren Miller #
 - 2 Frank Model
 - 1 Cark Kamp #
 - MBC (E.Nielsen) 2
 - 2 W.Miller+E.Barry
 - 1 Rene Laubach # Mark Fairbrother #
 - 18 Tom Dodd #
 - 3 Tom Tyning #
 - 17 Erik Nielsen
 - 4 Matt Pelikan #
 - 1 Alison Robh #
 - 2 Richard Hildreth 3 Dottie Case #

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- - Brian Cassie 4

 - M.Lynch+S.Carroll

 - 1 Elise Barry

11 Tom Gagnon 4 MBC (T. Gagnon)

39

7/28 GBH, Canton

Long Dash

5/26 Buffumville Dam, Oxford 6/1 Florence 6/1 W Tisbury SF 6/2 Draper Park, Hopedale 6/6 CRPL, Chelmsford 6/10 Dauphinais Park, Grafton 6/10 NCM, Petersham 6/11 Oak St. PL, Shrewsbury 6/15 Old Rt95, NP 6/16 MBWMA, Newbury 7/1 N Worcester NABA 7/7 C Franklin NABA 7/8 Common Pastures, Newbury 7/12 October Mountain SF 3 7/22 Middleboro NABA 7/22 Northampton NABA 9/7 Rockport 9/20 Waring Field, Rockport

Northern Broken-Dash

- 7/1 N Worcester NABA 7/3 BMB WS, Worcester 2 7/3 MBWMA, Newbury 7/4 HPM Woburn 7/6 Dauphinais Park, Grafton 7/7 C Franklin NABA 7/10 Maudslay SP, W Newbury 7/10 N Adams 7/12 Field Farm, Williamstown 7/12 W Soumi Field, Paxton 7/13 Graves Farm, Williamsburg 7/15 GBH Canton 7/20 Stichter Yard, Newbury 7/22 New Salem 7/24 Rowden Yard, Leicester 7/28 MBWMA, Newbury 7/29 Prospect Hill, Waltham 8/1 Northampton CG 8/2 Paxton 8/4 Leicester 8/9 Oak Bluffs 8/11 E Longmeadow 8/12 AP WS Quansett, Dartmouth 8/15 Stichter Yard, Newbury Little Glassywing 6/10 Sherborn PL 6/24 MBWMA, Newbury 6/29 E Longmeadow
- 7/1 Amity Place Environs, Amherst 8 7/1 C. Pastures, Wet Parcel, NP 7/6 Dauphinais Park, Grafton 7/7 GBH, Canton 12 7/10 Maudslay SP, W Newbury 7/12 N Adams 7/12 W Soumi Field, Paxton 7/21 Cedar Hill, Northborough 7/24 Northampton CG 7/25 GBH, Canton 7/29 N.River MAS, Marshfield

Sachem

40

9/20 Sylvan Nursery, Westport **Delaware Skipper** 6/30 Concord NABA

7/1 N Worcester NABA

1 Tom Whelan 4 Cark Kamp # B.Walker+E.Barry Sharon Stichter # 1 MBC (E Nielsen) Λ W.Miller+E.Barry 2 19 M. Fairbrother # S. +J. Stichter 3 2 Frank Model Pam Weatherbee 1 1 Elise Barry 11 Bill Benner # Erik Nielsen 16 Sharon Stichter 16 15 Jason Forbes 2 Mark Rowden 22 Sharon Stichter # Iason Forbes 6 Tom Gagnon Elise Barry 5 4 MBC (Dolores P.) Matt Pelikan 1 Karen Parker Erik Nielsen 1 1 Sharon Stichter 2 Bob Bowker MBC (S. Stichter) 2 3-4 Karen Parker Frank Model S. +J. Stichter 6 6 W.Miller+E.Barry Champagne+Nielsen 16 S. +Joe Stichter 2

7 Erik Nielsen

1 Earle Baldwin

Tom Gagnon

Matt Pelikan

Tom Whelan

Erik Nielsen

MBC (D. Price)

Sharon Stichter

S. +Joe Stichter

M. Fairbrother #

Cark Kamp #

Erik Nielsen

T.Gagnon+R.Cloutier

Karen Holmes

Dottie Case #

Ed Jylkka

W.Miller+E.Barry

Barbara Walker #

2

2

1

2

1

6

5

6

22

6

1

- 2
- 5
- 8

- 2 Dick Walton # 7 Cark Kamp #

7/6 Dauphinais Park, Grafton 7/7 C Franklin NABA 7/8 MBWMA .Newbury 7/13 Graves Farm, Williamsburg 7/14 Blackstone Valley NABA 7/14 Falmouth NABA 7/14 Stichter Yard, Newbury 7/15 C Berkshire NABA 7/16 GBH. Canton 7/22 Little River Nature Trail, NP 7/22 Middleboro NABA 7/24 Payton 7/25 Cummington 7/28 MBWMA, Newbury Mulberry Wing 7/7 New Salem 7/8 N Essex NABA 7/12 Richmond 7/13 IRWS, Topsfield 2 7/14 Blackstone Valley NABA 7/14 N Adams 6 7/14 New Salem 15 7/21 Crane Swamp Trail, 4 7/22 Middleboro NABA 7/22 Milford PL 7/22 Northampton NABA 7/26 Fairgrounds, Cummington 7/26 Millis 7/29 Barry Yard, Paxton 7/29 Sherborn PL

7/4 HPM, Woburn

Hobomok Skipper

5/23 E Longmeadow 5/26 Whately 5/27 E Longmeadow 5/30 Amherst 6/2 Dauphinais Park, Grafton 6/5 Moore SP Paxton 6/8 Crow Hill, Worcester 6/10 Dauphinais Park, Grafton 6/11 Oak St. PL, Shrewsbury 6/15 Graves Farm, Williamsburg 6/15 Old Rt95, NP 6/16 MBWMA, Newbury 6/17 Quabbin Windsor Dam, Ware 6/18 Cape Ann 6/23 W Bridgewater 6/24 Met State Waltham 6/28 Prospect Hill, Waltham 7/8 Old Town Hill, Newbury 7/22 Northampton NABA

Zabulon Skipper

5/27 E Longmeadow 6/27 E Longmeadow 8/5 FS WMA, Longmeadow 8/11 FS WMA, Longmeadow 8/18 E Longmeadow 8/19 FS WMA, Longmeadow 8/27 Northampton CG 9/3 E Longmeadow 9/4 Northampton CG

Broad-winged Skipper

7/14 Blackstone Valley NABA 7/14 Stichter Yard, Newbury 7/14 Williams Land, Harvard

- 4 MBC (E.Nielsen)
- 5 W.Miller+E.Barry
- 25 M. Fairbrother #
- 5 Barbara Walker #
- 3 Bill Benner #
- 41 Tom Dodd #
- Alison Robb # 10 Sharon Stichter 2
- 5 Tom Tyning #
- Frank Model 3
- 1 S. +Joe Stichter
- 4 Karen Holmes
- Elise Barry 2
- 1 Barbara Spencer
- 2 Sharon Stichter #
- 2 Frank Model 6 Sharon Stichter #

1

- T.Gagnon+R.Cloutier
- S.Stichter+F.Goodwin
- 15 Tom Dodd #
 - F Model+E Nielsen
 - F.Model+E.Nielsen
 - S.Moore+B.Volkle
- 1 Karen Holmes
- 7 Erik Nielsen
- 27 Dottie Case # Barbara Spencer
- M. Champagne 2
- Elise Barry 3 Bob Bowker #
- 1 Karen Parker
- Bill Benner 1
- 5 Karen Parker
- 4 Frank Model
- 5 Dolores Price #
- 11 Elise Barry
- 15 M.Lynch+S.Carroll
 - 14 MBC (Dolores P.)
 - 3 W.Miller+E.Barry
 - 8 Bill Benner
 - Sharon Stichter 2
 - S + Ioe Stichter 6
 - 2 BI (Dave Small)
 - 2 Doug Savich 1
 - Don Adams #
 - 1 Iason Forbes
 - 1 Jason Forbes 1 Erik Nielsen
 - 2 Dottie Case #
- 1 or 2 Karen Parker
- 1m Karen Parker
 - 1 Tom Gagnon #
- 5m Erik Nielsen 2 Karen Parker
- 6m+1f MBC (T.Gagnon)
 - 1f Tom Gagnon
 - 1 Karen Parker
 - 1 Tom Gagnon
 - 1 Tom Dodd #
 - 1 Sharon Stichter

1

S.Moore+B.Volkle

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Frank Model Elise Barry S.Moore+B.Volke Frank Model M. Champagne 1 S.Shapiro+M.Polana 1 Model+Champagne

7/15 Rowden Yard, Leicester 7/20 Forest Park, Springfield 7/20 Stichter Yard ,Newbury 7/21 Cedar Hill, Northborough 3 7/21 E Longmeadow 7/22 Haley Yard, Marblehead 7/22 Milford PL 7/27 Old Rt95, NP 7/29 Barry Yard, Paxton 7/29 N.River MAS, Marshfield 7 8/9 Oak Bluffs 8/11 Plum Island 8/12 AP WS Quansett, Dartmouth 8/19 N.River MAS, Marshfield 3 9/1 AP WS Ouansett, Dartmouth 10/9 Aquinnah **Dion Skipper**

7/22 N Adams

Black Dash

7/7 C Franklin NABA 7/10 New Salem 7/11 Amherst 7/14 Blackstone Valley NABA 7/14 N Adams 7/14 New Salem 7/14 Williams Land, Harvard 7/22 Milford PL 7/28 MBWMA, Newbury

Two-spotted Skipper

6/30 Tom Swamp.Petersham 7/6 New Salem 7/7 C Franklin NABA 7/9 New Salem 7/12 October Mountain SF 7/14 Blackstone Valley NABA 7/14 New Salem

Dun Skipper

- 6/10 Sherborn PL 7/1 N Worcester NABA 7/6 Barry Yard, Paxton 7/6 Dauphinais Park, Grafton 7/8 MBWMA, Newbury 7/12 N Adams 7/12 October Mountain SF 10 7/13 Graves Farm, Williamsburg 7/14 Blackstone Valley NABA 7/15 C Berkshire NABA 7/15 MV NABA 7/17 Quabbin Park, Belchertown 21 M.Lynch+S.Carroll 7/20 Rowden Yard, Leicester 7/21 Cummington 7/22 New Salem 7/22 Northampton NABA - 4 7/26 E Longmeadow 7/29 N.River MAS, Marshfield 3 S.Shapiro+M.Polana 8/2 Paxton 8/4 Leicester 8/5 Arnold Arboretum, Boston 8/11 E Longmeadow 8/25 Sherborn PL
- 9/1 Sylvan Nursery, Westport

- 1 Mark Rowden
- 3 T. Gagnon+Bruce
- 4 Sharon Stichter S.Moore+B.Volkle
- 1 Karen Parker
- Karen Haley 1
- 13 Erik Nielsen
- 2 S. +Joe Stichter
- Elise Barry 1
- S.Shapiro+M.Polana
- 1 Matt Pelikan
- Jason Forbes 3
- 39 Erik Nielsen
- S.Shapiro+M.Polana
- 2 Erik Nielsen 1 Judy Holland
- 1 Ron Hamburger
- 2 Mark Fairbrother #
 - Frank Model
 - 2 Frank Model
 - 7 Tom Dodd #

1

3

- F.Model+E.Nielsen 4 F Model+E Nielsen

 - S.Moore+B.Volkle 6 Erik Nielsen
 - 1 Sharon Stichter #
 - 1 Frank Model
 - 1 Frank Model
 - Mark Fairbrother #
 - 3 Frank Model
- 1 T.Gagnon+R.Cloutier
 - 1 Tom Dodd #
 - F.Model+E.Nielsen
 - 2 Bob Bowker
 - 7 Cark Kamp #
 - 1 Elise Barry
 - W.Miller+E.Barry 5
 - Barbara Walker # 5
 - 2 Frank Model
- T.Gagnon+R.Cloutier
- 6 Bill Benner #
- 84 Tom Dodd #
- 63 Tom Tyning #
- 96 Matt Pelikan #
- 5 Mark Rowden
- 12 Barbara Spencer
- 10 Jason Forbes
- 62 Dottie Case #
- K. Parker+Roger Pease
- 22 Elise Barry
- 8 MBC (D. Price)
- Robert Mayer 3
- 2 Karen Parker
- 2 Ron Hamburger
- 4 Nielsen+Cassie

9/16 BFD, Hubbardston

Dusted Skipper

- 5/25 Florence 2 5/25 Lamson Rd, Foxborough 5/27 Pump House, Petersham 5/28 BMB WS, Worcester 5/28 E Longmeadow 5/28 Juniper Hill, Lexington 6/1 Florence 6/1 Lamson Rd, Foxborough 6/1 New Salem 6/2 Dauphinais Park, Grafton 6/2 Hale Res, Westwood 6/8 Crow Hill, Worcester 20 6/10 Fort Pond Brook, 6/16 Tower Hill, Boylston 6/17 Great Meadows, Lexington 6/18 Foxborough 6/20 E Longmeadow Pepper and Salt Skipper
- 5/20 E Longmeadow 5/28 Tom Swamp, Petersham 6/2 Draper Park, Hopedale 6/2 Milford PL 6/2 Rutland 6/2 Wompatuck SP, Hingham 6/10 Dauphinais Park, Grafton 6/10 Quabbin Park, Belchertown 6/17 E Longmeadow

Ocola Skipper

9/23 AP Field Station

B.Benner+T.Gagnon

1 MBC (B. Walker)

- 2 Madeline Champ.
- 3 MBC (T. Gagnon)
- 1 BI (B.Walker)
- 1 Karen Parker
- 3 Tom Whelan
- 96 Tom Gagnon 27 M. Champagne
- 12 Frank Model
- Dolores Price #
- 7 Erik Nielsen
- M.Lynch+S.Carroll
- 17 Erik Nielsen
- Wendy Miller 1
- Jason Forbes 1
- 3 Madeline Champ.
- Karen Parker 1

3

1

- Karen Parker
- 2 Erik Nielsen
- 1 Barbara Walker #
- 1 Barbara Walker #
- M.Lynch+S.Carroll
- E.Nielsen+S.Sweet
- 1 MBC (Dolores P.)
- 1 Sue+Ron Cloutier

41

- 1 Karen Parker
- 1 Brian Cassie

Mowing at Fannie Stebbins Memorial Wildlife Refuge

Janis LaPointe

Each August, the Massachusetts Butterfly Club conducts a field trip to the Fannie Stebbins Memorial Wildlife Refuge in Longmeadow. It's a great walk and some gems have been found, including the first discovery of Zabulon Skipper in Massachusetts. This property consists of 320 acres of forest, wetlands and grasslands along the Connecticut River in Longmeadow. The property is unusual in that it is a prime wildlife area, an Important Bird Area (IBA) and a National Historic Site -- and most importantly, it is privately owned. Enterprising members of the Allen Bird Club of Springfield put the refuge together more than 50 years ago, fronting much of the purchase with their own money.

For butterflies, there are 22 acres of grasslands. For more than 30 years, the largest of these fields were used by hay farmers. It was the only way we could keep the grass mowed.

Two years ago, the board of trustees began talking about looking into grant money to manage the habitat. Invasive plants of all kinds have invaded and are spreading. A board member singlehandedly secured 20,000 *Galerucella* beetles free of charge to attack the purple loosestrife, with a great deal of success. But still the loosestrife is spreading faster than the beetles can eat. We have large stands of Japanese knotweed and multiflora rose.

As a prelude to getting grants we wanted to stop using hay farmers to mow the fields. Hay farmers cut the fields several times a season, and their activity is incompatible with maintaining habitat for butterflies, birds, insects, and other living things in the fields. So we suspended this activity three summers ago. By the summer

of 2007, the fields were overgrown with ragweed and joe-pye weed, and showing signs of moving to woody vegetation. And, we found fewer butterflies on the Club walk this past August.

Fortunately we had secured a grant from the U. S. Department of Agriculture, under their WHIP program, which provided funds to mow the 22 acres of grasslands, cut back woody edges encroaching on the fields, and add lime to the soil to restore the ph and promote the growth of healthy grass. This year [2007], the fields were mowed in early November. The grant allows us to mow every other year. The Fannie Stebbins board also has a good working relationship with the Longmeadow Conservation Commission, which owns adjoining conservation land, and we are working together to address invasive plants on both properties.

In 2008 we will observe the first results of the new mowing strategy. We are hoping it will be a thriving habitat for butterflies.



Janis LaPointe is president of the Stebbins Wildlife Refuge Board of Trustees, and a past president of the Allen Bird Club of Springfield, which owns the wildlife refuge.

Butterfly Education and Conservation

Madeline Champagne

Recently, the Massachusetts Butterfly Club has been having discussions about ways in which we could promote education about butterflies and the need to conserve them in our state. It was heartening to realize that many of the things Club members already do, either individually or collectively, are geared toward these ends. For example, our field trips and sighting records, and the NABA Fourth of July Counts, are of course great fun, but they are also important "citizen science" efforts to keep tabs on how our butterfly populations are doing from year to year. Also, our butterfly programs and institutes have been important educational endeavors, training up whole cadres of new butterfly-watchers. But members have also been doing other things, some of which are summarized below. At the end are some suggestions for further initiatives.

Butterfly Gardening in a Community Garden

Public butterfly gardens can be wonderful educational resources, as well as providing habitat for many species. The Northampton Community Gardens, for example, has plots of every variety imaginable – ranging from manicured to totally uncared for and full of weeds; all kinds of vegetables, herbs, and flowers; annuals and perennials; trees and vines and bushes. All kinds of plots, in their own ways, can contribute to providing nectar sources and even larval host plants for butterflies. But for butterfly watching, the best plots are Tom Gagnon's. The entire plots are planted with *Verbena bonariensis*, a tall, purple, late-blooming (September) flower which is extremely attractive to butterflies. Once the flowers are in bloom, this is where the most consistent butterfly

activity is, and on a nice sunny day it is hard to keep track of the butterfly visitors. Not only has Tom provided a great nectar source, he has also helped raise butterfly awareness and knowledge for the gardeners and visitors to the community garden. He has made seed heads readily available, and there are bunches of *Verbena bonariensis* sprouting up all throughout the community garden. Tom has even provided a bench for visitors (photo below), and a logbook in which they can record their butterfly sightings.

Butterfly Surveys

Surveying a property for butterflies on a periodic basis can provide valuable information for property managers to insure habitat preservation. Surveys can provide different levels of information, ranging from reported sightings, to more detailed nectar and host plant availability. One survey which has been done yearly since 2003 is at MAS Allen's Pond Sanctuary in South Dartmouth, usually organized by Madeline Champagne. It is scheduled for the second and third Saturdays of September, with Sunday as a rain date. The annual records are providing valuable data for the sanctuary. Of particular interest to MBC members have been some of the rarer butterflies seen, such as Ocola Skipper, Cloudless Sulphur, and Variegated Fritillary.

The following are some important survey guidelines:

1. Try to visit the property throughout the butterfly season.

2. Record: date, time in and out, temperature, cloud cover (full sun, partly cloudy, overcast), and wind speed (windy, gusts, no wind).

3. Always take the same route.

4. Keep count by general areas (like particular fields, woods, shrub areas, and wet and dry habitats).

5. If you go back over any part of the route, record counts both ways and take the highest number for a species in the total.

6. Make notes of what is in bloom, especially unusual flowers.

7. Make notes of what species are being used for nectar flowers.

8. Make note of any changes that may affect sightings (e.g., "there were nectar flowers in the path at the powerline but the path gets mowed occasionally, so fewer sightings after mowing").

Keeping in Touch with Landowners and Town Officials

One example comes from West Newbury, where Sharon Stichter found a colony of Baltimore Checkerspots on town land that was designated for walking, dog walking, horse jumping, etc. A journalist heard about the colony, called Sharon, and wrote an article for a local paper suggesting that excessive mowing and dumping of pond residue might be endangering the colony of Baltimore Checkerspots. The town committee that manages the land has been working with Sharon and has taken her advice about how to preserve this colony, in terms of land management like mowing practices, and has even put up a sign about the butterflies. Sharon continues to monitor the property and sends reports about the Baltimore Checkerspot colony and her sightings records to the town management committee.

Other Action Ideas

In the course of our discussion, people sent in many other ideas, some of which are below. If you have other suggestions along this line, please send them to <u>madelinechampagne@comcast.net</u>.

I think we need to work with schools and communities to promote a "no nets" policy and bring a different way to connect with butterflies and nature – digital cameras are low cost today and can replace the net.

Sue Cloutier

Another program I am promoting is to have loaner backpacks at local libraries that have binoculars, field guides, and digital cameras that go out from the library (with credit cards held for security). These can be part of a library series on observing nature, story times, and field trips that could be sponsored by the Local Arts Grants distributed by every town in our state. Sue Cloutier

Contact local newspapers to publicize our "no nets" field trips as an activity open to the public, for free, in the local calendar. Madeline Champagne

Write an article about a "no nets" policy for the newspaper. Alison Robb

Monarch tagging – tags can be obtained by anyone, and lack of training for school children is a problem.

Frank Model

Put up signs at public butterfly gardens prohibiting collecting and the use of nets in the garden.

Linda Pivacek

Madeline Champagne is past President of the Massachusetts Butterfly Club. She lives in Foxborough, MA.



Tom's Famous Butterfly Bench at the Northampton Community Gardens Photo: Frank Model 10-30-07

Butterfly Calendar Available!

Howard Hoople of Andover, MA, has produced a beautiful 11" x 17" 2008 wall calendar featuring butterflies from the Andover area. To view and order this attractive calendar, simply go to <u>www.andoverbutterflies.net</u>, or send \$16.60 for each calendar (price includes shipping and sales tax!) to Howard Hoople, Andover Butterflies, 10 Torr Street, Andover, MA 01810. Howard has offered to make a \$3 donation to the MBC for every calendar ordered by MBC members, so make sure you let him know you're a member.