

Massachusetts Butterflies



Spring 2009, No. 32

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

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Submission of Articles, Illustrations, and Season Records

We encourage all members to contribute to *Massachusetts Butterflies*. Articles, illustrations, butterfly field trip reports, garden reports, and book reviews are all welcome, and should be sent to the Editor by September 15 for the Fall issue, and January 15 for the Spring issue.

Send NABA Fourth of July count results to Tom Gagnon tombwhawk@aol.com by **August 15** for inclusion in the Fall issue. Send your season sightings and records to Erik Nielsen by **December 31** for inclusion in the Spring issue. Records may now be submitted via the online checklist and reporting form, which is available for download from <http://www.massbutterflies.org/club-publications.asp> or from <http://www.massbutterflies.org/downloads/massbutterflies.xls>

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*Cover Photo: Frosted Elfin (Callophrys irus), by Howard Hoople
Weir Hill, North Andover, June 5, 2007*



Barrens Habitat, Weir Hill

F. Inglesinger



Black Oak with Fire Scar

R. Hopping

Land Stewardship and Butterfly Conservation at Weir Hill, North Andover

Russell Hopping
Ecology Program Manager
The Trustees of Reservations

Land managers are responsible for making decisions that impact natural resources (e.g., wildlife habitat). This can be a complicated and dynamic task since most properties are constantly changing and have multiple user groups and goals. Seldom is the prescription simple or based on a single purpose or factor. For example, fields may provide habitat for grassland wildlife, such as butterflies, but these same fields may be important for the income generated by hay production; either way the fields need to be cut or they will succeed into shrublands and later forest without regular disturbance. The decision to cut may seem an easy one, but *when* -- June for high-quality hay, or later in the season for dependent wildlife --- is not always clear. If done to promote wildlife habitat, should cutting occur annually or every other year? Good stewardship requires these types of questions be asked and answered. To do so, it is often important to collect and analyze baseline information that allows managers to make informed decisions. Even with good information new knowledge about a property or resources may require modifications to existing management practices, or in planning jargon, “Adaptable Management.”

At Weir Hill in North Andover, Massachusetts, a property of The Trustees of Reservations, change is happening which should benefit several species of butterflies. Property stewards are implementing exciting new management practices, including forest

clearing, prescribed fire, and introduction of biological controls for invasive plants. These are designed to improve habitat, including that for butterflies, on this surprisingly diverse property.

Weir Hill is one of 100 properties owned by The Trustees of Reservations.¹ For 116 years, The Trustees of Reservations have been preserving for public use and enjoyment properties of exceptional scenic, historic and ecological value in Massachusetts and working to protect special places across the state. Weir Hill (pronounced Wire Hill), named for fish weirs once used by American Indians in the adjacent stream, is certainly a special place. The 194-acre Reservation provides distant views of the Merrimack Valley that include Mt. Wachusett as well as a bird's eye view of the city of Lawrence with its historic mills, smoke stacks and restored clock tower. On a clear day Mt. Monadnock is even visible. In contrast to nearby Lawrence and the rumble of nearby Route 495, the Reservation's fields, wetlands and woodlands seem surprisingly "wild" as one visitor recently described it. Even on busy days visitors can find solitude in the many habitats, whether they are dog walking, running, or watching butterflies.

Land Use History: How the Past Informs the Future

Before European colonists ventured inland to settle the area, American Indians had long been using Weir Hill and the adjacent lands. Early records, artifacts and place names document the area's importance to Indians. With the arrival of the colonists Weir Hill served as common pasture for decades, before being sold to private landowners who continued the practice of grazing on its steep slopes and droughty soils. Later, Weir Hill became part of the extensive land holdings of the Stevens family where they grazed sheep. Eventually, the land fell idle until it was acquired by The Trustees in 1968 as a gift from the Stevens family.

Photographs from this time indicate the Hill was in a state of succession with a mosaic of young forests, shrubby patches and small grassy openings.

Weir Hill (a double drumlin formed by the last glaciers that advanced into southern New England), has mostly reverted to forest today. Many of the trees, especially the oldest, bear basal scars (as shown in the photo) – testament to fire’s long-time role in shaping the Weir Hill landscape. Fire was a well-known tool used by Indians to promote important habitat for wildlife, berry and nut production and to facilitate travel. The droughty soils left behind by the glaciers and the drumlin’s southern exposure facilitated fire. Colonists later used fire as a tool to maintain fields and pastures, and by the mid 1800s a railroad powered by steam ran along the drumlin’s base and provided an additional ignition source. More recently, North Andover Fire Department records document frequent brush fires at Weir Hill, mostly started by vandals or careless youth. The hottest and most severe of these fires have occurred in spring approximately every 10 -12 years and burned up to 60 acres at a time due to the build up of fuel (leaves, dead branches, shrubs and grasses) between the larger and hotter fires. As a result, fire-sensitive species like white pine and maples are absent and instead oaks, hickories, blueberries, huckleberries and a great diversity of native warm-season grasses and wildflowers dependent upon exposure to sunlight and bare soil necessary for germination are common.

Fire and other regular disturbance including grazing and more recently mowing have maintained a mosaic of open and early successional habitats at Weir Hill for hundreds of years. This continuity, and more important the frequency and intensity of disturbance, has selected for a unique suite of species, many of which are unable to survive if the tree canopy becomes too dense

[see article by Gene Albanese, this issue – Ed.] or bare soil is obscured by duff. Over time, as the surrounding landscape reverted to forest or was developed, Weir Hill became a refugium for many species including rare species like the Frosted Elfin butterfly (*Callophrys irus*) – a signature species of the Reservation (32 were found on the most recent survey in May 2007) – and species common elsewhere in the state but unusual for northeast Massachusetts. Examples of the latter include both species of scrub oaks (*Q. ilicifolia* and *Q. prinoides*), which are important host plants for numerous invertebrates. Weir Hill supports the largest known population of these oaks in Essex County. Today, The Trustees are using both land use history and species' ecology to restore and manage significant habitats at Weir Hill. It is important to stress that The Trustees are not managing for a single species but for viable communities that are important to a whole host of species including more than 237 species of moths and 50 species of butterflies.

The Habitats and Their Management: A Long-Term Commitment

In 2001 The Trustees began inventorying the natural resources at Weir Hill to inform property management through completion of a property-specific management plan.² A botanical inventory and later inventories for moths and butterflies identified two plant communities in particular as being significant ecologically--meadows and the fire-influenced barrens. In particular, the barrens support significant populations of wild indigo (*Baptisia tinctoria*), the host plant for the state-listed Frosted Elfin, a species of global concern. The nearby open meadows support a completely different set of plants, rare species and butterflies, including the declining Harris' Checkerspot (*Chlosyne harrisii*) that depends on tall white-topped aster (*Aster umbellatus*) for its host plant.

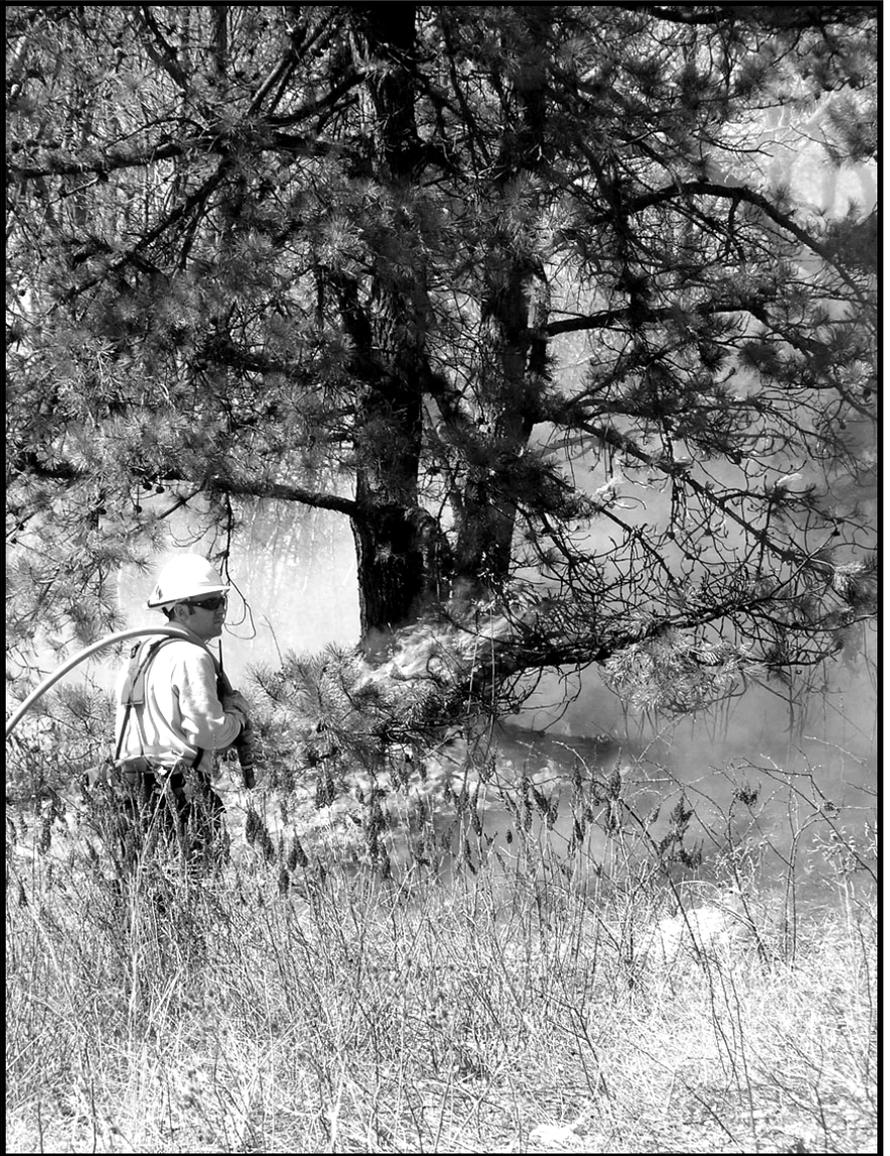
Despite regular fire, the barrens were threatened by succession with less than half of the barrens habitat supporting species of conservation interest. For example, scrub oak and wild indigo were limited to the remaining open patches that were shrinking. Only the occasional wild indigo or scrub oak remained in wooded areas, testimony that Weir Hill had been more open in the past. Equally important, the dense shade was also preventing important nectar plants from growing and flowering. It became clear that without more aggressive management (e.g., prescribed fire) to improve habitat viability, the long-term survival of the barrens and their dependent species would remain vulnerable. To counter this trend The Trustees used land use history information and existing ecological conditions to develop a restoration plan for the entire 80 acres of barrens habitat.

Our first step was to seek partners who could help. We applied for and received a grant from the Landowner Incentive Program (LIP)³ to mechanically restore 16 acres of woodland adjacent to existing high-quality barrens habitat. Selective trees and the dense undergrowth were removed to open up the canopy and restore light levels necessary for flowering and host plant species to prosper; pre-clearing surveys had identified low species diversity and absence of important host plants throughout the understory. In addition, invasive plant populations were controlled using hand tools and selectively-applied herbicide prior to clearing to prevent their establishment in restored areas. Invasive plants typically prosper with disturbance and increased exposure.

We next focused on prescribed fire as both a restoration and maintenance tool to reduce duff layers but also to improve barrens habitat on steep slopes and reduce fuel loads to address safety concerns.⁴ With the help from a Partners for Fish and Wildlife Program⁵ grant from the United States Fish and Wildlife Service,

The Trustees developed and implemented a prescribed burn plan. This plan was implemented in April 2008 when a team of partners including the Massachusetts Division of Fisheries and Wildlife (MassWildlife), Massachusetts Department of Conservation and Recreation (DCR), Massachusetts Department of Environmental Protection (DEP), North Andover Fire Department, Boxford Fire Department and Northeast Forest and Fire Management LLC⁶ burned 10 acres of fields and woodlands (see photo). This was a major step forward for the long-term management of the Weir Hill barrens but also for prescribed fire as a management tool in Massachusetts. This was the first prescribed fire of its type in the northeast part of the state and it brought together a host of partners, increasing the capacity to implement fire at places like Weir Hill, areas with critical fire-influenced habitat and dependent species. In the future, The Trustees and its partners will continue to apply prescribed fire at Weir Hill. Long-term goals are to use selective mechanical clearing, mowing and prescribed fire to restore and maintain all 80 acres as high-quality barrens habitat important to a whole host of species, including the Frosted Elfin and other Lepidoptera.

The wet meadows at Weir Hill pose a different set of management challenges. They are mowed annually to keep woody shrubs and trees from invading, but, exotic invasive plants threaten to out-compete the native flowers and grasses that flourish in this habitat. In particular, purple loosestrife is abundant and threatens the tall white-topped aster, the host plant for Harris' Checkerspot. Purple loosestrife invaded the reservation in recent years and in late summer the meadows turn purple when it blooms. After investigating control options to combat loosestrife, hand control (e.g., pulling) and herbicides were quickly dismissed; both options



Burning the Barrens

B. DeGasperis

were too costly and risks to non-target species potentially high. Thankfully, biological control exists as a third option for this invasive species. Biological control seemed the only viable option for controlling loosestrife and maintaining the meadows' plant diversity and dependent butterfly species. With the help of the Massachusetts Wetland Restoration Program and Merrimack College, The Trustees began releasing *Galerucella* beetles in 2006 (see photo). Merrimack College runs a beetle rearing program and beetles from this program have been released annually to augment the population and success of the program.

Since the first release the beetles have spread to nearby meadows and wetlands where they are busy controlling purple loosestrife. With the beetles firmly established, The Trustees can now focus valuable resources on other critical management efforts, such as prescribed fire or controlling invasive species for which biological control agents are not yet available. The status of both the beetles and purple loosestrife is being monitored. While it is still early, the beetles have attacked the loosestrife vigorously and we look forward to seeing less purple in the meadows in coming years. Similarly, both Harris' Checkerspot and Frosted Elfin populations are being monitored to inform the success of the current management programs. Although the butterflies are not our only conservation target, the butterflies make excellent indicators for habitat quality and viability.

Weir Hill is a special and dynamic landscape with varied habitats important for many native and rare species. As with any management program, monitoring and new information will inform future success and the need to adapt management with new approaches designed to optimize habitat and population viability. If the butterflies are any indication, we are off to a good start.

¹ For more information on The Trustees of Reservations, visit <http://www.thetrustees.org>.

² Visit http://www.thetrustees.org/pages/373_weir_hill.cfm for further information on Weir Hill and to view the management plan.

³ Visit http://www.mass.gov/dfwele/dfw/habitat/grants/lip/lip_home.htm for more information on the Landowner Incentive Program

⁴ Visit http://www.thetrustees.org/pages/373_weir_hill.cfm for further information on the burn program at Weir Hill.

⁵ Visit <http://www.fws.gov/partners/> for more information on the Partners for Fish and Wildlife Program

⁶ Northeast Forest and Fire Management LLC is a prescribed fire consultant instrumental in developing the plan and its implementation



Galerucella beetles being released

B. DeGasperis

Recent Research on the Frosted Elfin

Gene Albanese

Recent research on the Frosted Elfin done in southeastern Massachusetts by myself and colleagues has resulted in some very interesting new findings.

Frosted Elfin (*Callophrys irus*) is a rare, non-migratory, single-brooded butterfly inhabiting pitch-pine – scrub oak and other open habitats on sandy or rocky soil. In eastern Massachusetts, this species' only host plant is wild indigo (*Baptisia tinctoria*), although elsewhere it also uses wild lupine (*Lupinus perennis*). The butterfly is declining throughout what was formerly a large range, and Massachusetts is one of its last strongholds. The state Natural Heritage and Endangered Species Program lists it as a species of Special Concern.

Our study focused on description of the habitat requirements for the butterfly, but also made new discoveries about larval plant use and associations with ants. The study took place at four locations in southeastern Massachusetts: Myles Standish State Forest in Plymouth; Crane WMA in Falmouth; Gavins Pond Municipal Water Authority property (off Lamson Road) in Foxboro; and Noquochoke WMA in Bristol County.

The study found that adult Frosted Elfin densities were greatest when the host plant density was greater than 2.6 plants/m², and tree canopy cover was less than 29%. Adult elfin density was inversely related to tree cover and declined when the density of wild indigo was less than 2.6 plants/m² and shrub cover was greater than 16%. In addition, even small quantities of non-native shrub cover

negatively affected elfin densities. The results indicated that management for Frosted Elfin should aim to increase both wild indigo and native herbaceous cover, limit although not eliminate native tree cover, and eliminate non-native shrub cover. (Albanese *et al*, 2007a)

The study authors pointed out that habitat needs must be assessed for larvae and adult butterflies, since larvae are less mobile than adults and often have specific microhabitat requirements. We found that Frosted Elfin larvae occurred more often on host plants of large size with moderate tree canopy cover. If there was no tree canopy cover, numbers of larvae found remained low, even when host plant density was high. We hypothesized that tree canopy cover may improve host plant quality by affecting the balance of nutrients and defensive chemicals within the host plants (i.e. shaded plants have more nutrients and lower levels of defensive chemicals), and/or reduce the search efficiency of predators and parasitoids that prey on larvae. Larger plants may provide similar benefits for developing larvae by providing increased food resources and more cover. Female adults actually oviposited on a wide range of plant sizes and under varying degrees of canopy cover, not “putting all their eggs in one basket,” but larval survival was greatest under the optimal conditions. (Albanese *et al*, 2007c)

During the research a previously unreported larval feeding behavior was documented. Both field and captive rearing showed that late-instar larvae girdle the stem of the host plant, providing a unique feeding sign that can help in locating the butterfly in the field (see photo below). The study proposes that there are two possible benefits to larvae from stem girdling: 1) it may allow larvae to trap and tap phloem sap, giving increased access to water and carbohydrates; and 2) it may deactivate the plant’s phytochemical defenses. Researchers also observed the frequent

association of larvae with several species of ants; the ants may protect them from predators and parasitoids. (Albanese *et al*, 2007b)

For further detail, please consult the following articles:

Albanese, Gene, Peter D. Vickery, Paul R. Sievert. 2007a. Habitat characteristics of adult frosted elfins (*Callophrys irus*) in sandplain communities of southeastern Massachusetts, USA. Biological Conservation 136 (1), pp. 53-64. Available at <http://nrc.umass.edu/index.php/people/faculty/sievert-paul-r/>
Or through <http://www.sciencedirect.com/science/journal/00063207>

Albanese, Gene, Michael W. Nelson, Peter D. Vickery. 2007b. Larval Feeding Behavior and Ant Association in Frosted Elfin *Callophrys irus* (Lycaenidae). Journal of the Lepidopterists' Society, Vol 61, No. 2. pp. 61-66. Available at <http://nrc.umass.edu/index.php/people/faculty/sievert-paul-r/>

Albanese, Gene, Peter D. Vickery, Paul R. Sievert. 2007c. Microhabitat use by larvae and females of a rare barrens butterfly, frosted elfin (*Callophrys irus*). Journal of Insect Conservation published on line July 19, 2007. Available at <http://www.springerlink.com/content/75416v6462567q2g/>
or at the above nrc.umass link.

Gene Albanese recently completed his Masters Thesis in the Department of Natural Resources Conservation at the University of Massachusetts Amherst, where he worked with Paul R. Sievert and Peter D. Vickery. He is now pursuing doctoral research at the Department of Natural Resource Ecology and Management, Oklahoma State University, Stillwater, Oklahoma. He would like to thank the several members of the Massachusetts Butterfly Club who assisted him in his research.



Frosted Elfin larvae making feeding rings on *Baptisia* stem
Photo: Gene Albanese, Noquochoke WMA, 7-9-04



Wild Lupine in bloom during June at the Turners Falls
Municipal Airport *photo: Mark Fairbrother*



Frosted Elfin ovipositing on Lupine flower spike
Albany Pine Bush 5-27-07 *photo: Howard Hoople*

Frosted Elfin and Wild Lupine: Habitat Restoration and Enhancement at Turners Falls Airport

Mark Fairbrother

Frosted Elfin (*Callophrys irus*) is a small, easily overlooked butterfly of late spring. It has two forms, one that feeds on *Baptisia tinctoria*, and another, much more uncommon form that feeds on Wild Lupine (*Lupinus perennis*). In Massachusetts the lupine-feeding form is represented by three general populations, all in the Connecticut River Valley: Westfield/Barnes Airport, Chicopee/Westover Air Reserve Base, and Montague Plains/Turners Falls Airport.

Populations on the Montague Plains area shrank over the past few decades due primarily to plant succession: lupine populations were shaded out by second growth forest. Wild Lupine on the Montague Plains today is limited to scattered, very small relict populations. I also know of at least one population of Birdfoot Violet (*Viola pedata*), another dry soil, sun-loving plant, which failed in the 1980's as its once-sunny location became full-canopy deciduous woodland.

Populations of both Wild Lupine and Frosted Elfin were rediscovered at Turners Falls Airport during the Massachusetts Butterfly Atlas period, approximately 1990. Through the 1990's much of the lupine-bearing habitat suffered from the same environmental changes that had earlier affected the Montague Plains. Additionally, the airport lupine is subject to deer browse damage. Female Frosted Elfins tend to place their eggs in the young flower spikes (see the accompanying photos). As the spikes grow and bloom they become a favorite snack for local deer.

When the deer eat the flower clusters, they take the eggs or young caterpillars with them, breaking the breeding cycle.

The Plan

As part of the Turners Falls Airport Commission's ongoing plan to replace and lengthen the existing runway, Massachusetts Natural Heritage Program required various environmental studies and mitigation efforts be made. For the Frosted Elfin this meant greenhouse propagation and transplanting of Wild Lupine plants into areas adjacent to existing lupine populations and into areas logged by the Airport in spring 2007. These plants were grown from seeds collected from plants at the airport the previous year, and grown in greenhouses at a school in West Springfield. A temporary irrigation system was installed during 2007 to assist the transplants through dry spells. During the three year period 2006-2008 approximately 725 pots of lupine plants were transplanted onto the airport. 2009 will be the fourth year that plants will have been set out. Additionally, in 2006 the main population of elfin-supporting lupine was surrounded by an open pasture fence to help prevent deer from browsing the lupine. These measures have been funded by grants from the Federal Aviation Administration, the Massachusetts Aeronautics Commission, and the Town of Montague.

Prospects for the future

Significant open habitat was restored by the 2007 logging project. This, along with successive plantings of Wild Lupine mean that habitat for Frosted Elfin and other heath-loving species should be optimum for a number of years to come. Continued deer exclusion efforts will need to be maintained to protect immature stages of the Elfin. It should be noted that even during the twenty or so years

the Frosted Elfin population has been monitored at the airport, numbers have steadily declined, and the population at present is precariously low. The next few years will likely tell whether or not the Frosted Elfin continues to grace the May landscape at Turners Falls.

Special Note: As with most airports in the Commonwealth in this post 9/11 world, the aircraft operating areas of the Turners Falls Municipal Airport are closed to the public.



Hope for the future: A female Frosted Elfin laying eggs on Wild Lupine at the Turners Falls Airport, May 2008.

The pink flag in the background indicates this plant was one transplanted in the spring of 2007.

Photo: Sue Cloutier

2008 Season Summary and Records

Erik Nielsen

Just short of 7,000 records were received for the 2008 season. 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 again 103. One additional species was found in Bridgewater. On July 18 a small group of birders looking to possibly confirm nesting of Northern Harrier in the area came across a female Mimic, a species native to Asia and Africa that also occurs in the West Indies. Whereas the description left no doubt about the identity of the species, the origin is another matter. There are a few records of Mimics from some of the more southern states; but accepting it as a “wild record” would probably be a bit of a stretch without further evidence. There were 2 early and 7 late records, and new high counts for 7 species.

The tables in this summary are generated from the club database, which now contains over 92,000 records. The first column gives the % change in the average number seen on a visit to a location on a specific day in 2008, 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 the % change in the maximum count reported. The fields are “color coded” to make it easier to quickly see how many species saw large changes and for how many the numbers were in the “normal” range. Black text on a white background indicates that the numbers for 2008 were twice the previous years’ average. White text on a dark gray background indicates numbers half or less, and black text on light gray numbers somewhere between the two extremes.

SWALLOWTAILS

% change in 2008 from the 1994-2007 average			
Species	Avg. No	Frequency	Max. No
Black Swallowtail	12	14	18
Eastern Tiger Swallowtail	73	66	146
Canadian Tiger Swallowtail	51	87	-55
Spicebush Swallowtail	21	15	10

Only two Pipevine Swallowtails were found, one in Milford during the Blackstone Corridor butterfly count and the other late August in Topsfield. Most Swallowtail numbers registered on the plus side. The high count for Canadian Tiger was lower than the average; but this might not be especially significant considering the large percentage of Tiger Swallowtails that are not identified as either Eastern or Canadian. Eastern Tiger Swallowtail broke the previous “Late Flight Date” by almost two weeks on November 7 when one was found in Athol.



Eastern Tiger Swallowtail. Photographed on Nov. 7 at Mount Grace Land Conservation Trust Hq. in Athol by Nathan Rudolph

WHITES AND SULPHURS

% change in 2008 from the 1994-2007 average			
Species	Avg. No	Frequency	Max. No
Mustard White	-47	-10	-40
West Virginia White	3	56	-16
Cabbage White	-28	11	-24
Clouded Sulphur	-4	-19	-15
Orange Sulphur	-23	-17	-64
Cloudless Sulphur	-67	-8	-90

The numbers for this group were mostly negative and especially worrisome for the threatened Mustard White. However, last year the numbers for that species were higher than normal and with a species that local, there is a good chance that the peak numbers might not get registered every year. On the plus side it was again found at a location in Windsor, away from the Lenox stronghold. West Virginia White counts were lower than normal, but were found more frequently and their average numbers turned out to be roughly – average.

GOSSAMER-WINGS

Harvesters were well reported and broke all records when 67 were counted at the Mystic Lakes colony on the Arlington/Medford town line. Bronze Coppers were found in 4 counties – Suffolk, Middlesex, Essex, and Berkshire. It will be interesting to see in how many of the localities outside the Sudbury River Valley stronghold they will be detected in 2009. The apparently good numbers for Bog Copper are in a large part due to the 1509 individuals found on the Central Franklin butterfly count on July 8. Hairstreak counts were mostly a bit down and they were generally found less frequently than normal. The only Hickory Hairstreak reports came from the Northern and Southern Berkshire butterfly

counts. The apparent Frosted Elfin population crash at the Foxborough colony is a large reason for the poor overall numbers for that species. On the plus side they were found in more locations than normally.

% change in 2008 from the 1994-2007 average			
Species	Avg. No	Frequency	Max. No
American Copper	-3	-19	5
Bronze Copper	-36	33	-21
Bog Copper	211	-29	347
Coral Hairstreak	110	-3	47
Acadian Hairstreak	-25	-19	1
Edwards' Hairstreak	-21	-6	-36
Banded Hairstreak	-10	20	-44
Striped Hairstreak	-26	-34	-24
Brown Elfin	1	-6	-49
Hoary Elfin	129	9	239
Frosted Elfin	-62	46	-73
Henry's Elfin	126	93	89
Eastern Pine Elfin	258	125	567
Juniper Hairstreak	-58	-26	-65
Gray Hairstreak	-35	-21	-38
Eastern Tailed-Blue	-42	-22	8
Silvery Blue	-60	-17	-75

Close scrutiny of Bog Elfin photos taken on a May 25 club trip to Tom Swamp in Petersham revealed that at least 3 individuals were found that day, thereby establishing a new high count for the species. The next day a Bog Elfin was found in Ashburnham – only the third known location for the species in the state. Azure numbers were up and a clearer picture of the flight times of the different forms (or species) is starting to emerge as more people now report them as Spring, Cherry Gall, and Summer Azure. Silvery Blue numbers appear to be way down; but this is probably

mostly due to no reports received from the large colony at Delaney WMA in Stow.

BRUSHFOOTED BUTTERFLIES

An American Snout on Gooseberry Neck in Westport on October 12 was roughly four weeks later than the previous “Late Date” for the species. 7 of the now 8 Snout records in the database are from coastal areas and only one is of more than one individual (2).

% change in 2008 from the 1994-2007 average			
Species	Avg. No	Frequency	Max. No
Variegated Fritillary	-75	-52	-89
Great Spangled Fritillary	113	27	178
Aphrodite Fritillary	-45	-53	47
Atlantis Fritillary	-91	-49	-88
Silver-bordered Fritillary	-39	-44	13
Meadow Fritillary	17	6	-5
Harris' Checkerspot	-81	-36	-72
Pearl Crescent	-5	-1	-17
Baltimore Checkerspot	-63	0	-81

Aphrodite and Atlantis Fritillary numbers were down again this season; but the low Atlantis counts may still be largely due to the lack of reports from Mount Greylock, where the road to the top was closed for the second year. Harris’ Checkerspot counts and the number of localities where it was found were again down significantly. See articles in the 2008 spring issue by Martha Gach and Sharon Stichter concerning the future of this species in Massachusetts. No reports of large Baltimore Checkerspot populations were received for the season; but there was no change in how frequently it was found. 2008 had no large “Vanessa flights” and nearly all counts for the three species were in the single digits. Most of our resident “Anglewings” had poor flights

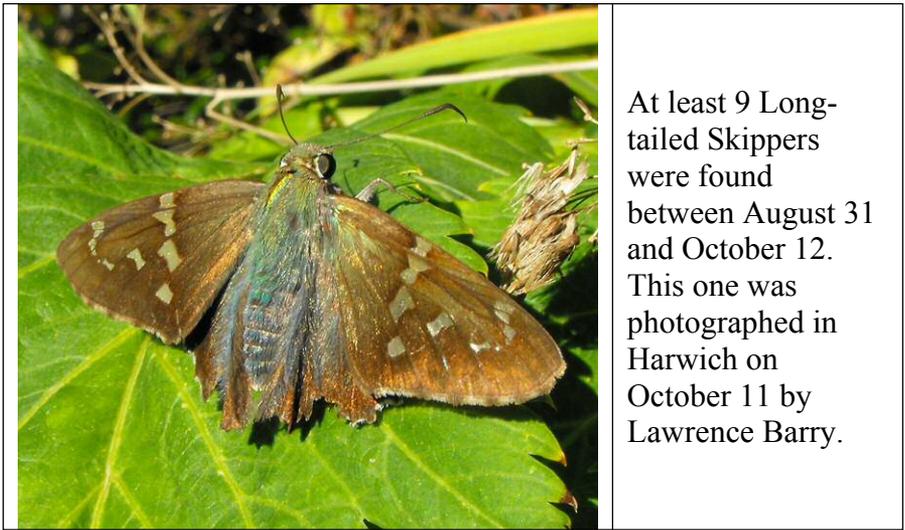
as well. It was no surprise that a Mourning Cloak should be the first to be seen flying about on March 14; but that cannot be claimed for the American Lady that established a new “Early Flight Date” on the same day in Wellfleet.

% change in 2008 from the 1994-2007 average			
Species	Avg. No	Frequency	Max. No
Question Mark	-43	-7	-78
Eastern Comma	-8	11	-60
Compton Tortoiseshell	-68	-49	-88
Mourning Cloak	-29	6	-66
Milbert's Tortoiseshell	-87	-58	-91
American Lady	-16	-2	-8
Painted Lady	-62	-9	-64
Red Admiral	-92	-34	-99
Common Buckeye	4	72	-29
Red-spotted Admiral	105	61	-35
White Admiral	-45	-34	-34
Red-spotted Purple	-34	-21	-41
Viceroy	-20	-16	-4
Northern Pearly-Eye	-44	-32	-45
Eyed Brown	-30	-5	-65
Appalachian Brown	288	126	108
Little Wood-Satyr	41	26	37
Common Ringlet	1	-21	47
Common Wood-Nymph	-1	-14	-8
Monarch	-69	9	-84

A Compton Tortoiseshell in Orleans on August 27 was a nice find. It's only the second record for Barnstable County in the club database. The first was one in Truro on April 20, 2002. Red-spotted Admiral counts were up; but the numbers for its two distinct forms were down, and by adding up all the numbers it ended up being close to “a tie” for the species as a whole. An

Appalachian Brown in Foxborough on May 26 was very early and extended the flight season by more than two weeks.

SKIPPERS



At least 9 Long-tailed Skippers were found between August 31 and October 12. This one was photographed in Harwich on October 11 by Lawrence Barry.

% change in 2008 from the 1994-2007 average			
Species	Avg. No	Frequency	Max. No
Silver-spotted Skipper	0	1	1
Hoary Edge	-57	-39	-50
Southern Cloudywing	-57	-21	-74
Northern Cloudywing	-58	-48	-40
Dreamy Duskywing	-68	-43	-63
Sleepy Duskywing	219	-27	314
Juvenal's Duskywing	86	27	164
Horace's Duskywing	99	70	66
Wild Indigo Duskywing	63	21	18
Common Sootywing	4	27	21
Arctic Skipper	219	-55	526

Silver-spotted Skipper counts couldn't be much closer to average than the ones for 2008. Hoary Edge, both Cloudywing, and Dreamy Duskywing numbers, however, were way below normal. The remaining Spreadwing Skippers did much better and saw decent increases in counts and how frequently they were encountered. Sleepy Duskywing beat its old High Count when 49 were logged in Myles Standish SF on May 17. For the eighth year in a row Common Checkered-skipper was found in Northampton Community Gardens, but only a single individual and only one day. Just three reports of Arctic Skipper were received. Even though two of these were of a single individual, the third almost tripled the old high count.

% change in 2008 from the 1994-2007 average			
Species	Avg. No	Frequency	Max. No
Least Skipper	-38	-26	46
European Skipper	-67	-33	-49
Fiery Skipper	77	96	2
Leonard's Skipper	-87	-88	-69
Cobweb Skipper	67	-34	118
Indian Skipper	-62	-45	-60
Peck's Skipper	1	16	-19
Tawny-edged Skipper	-22	-16	8
Crossline Skipper	12	17	-26
Long Dash	-34	-24	35
Northern Broken-Dash	89	32	19
Little Glassywing	44	9	98
Delaware Skipper	-28	-34	0
Mulberry Wing	43	0	55
Hobomok Skipper	-13	-33	68
Broad-winged Skipper	15	34	20
Black Dash	16	-3	105
Dun Skipper	2	-16	28
Dusted Skipper	169	6	154
Pepper and Salt Skipper	11	5	75

Several observers commented that Grass Skippers were hard to come by, and the data seem to support that claim for a good portion of the species. Other species, however, saw modest increases and some did quite well for the season. Fiery Skippers reached the state in late July with one in New Salem on the 25th and another in Westwood on the 28th. The last one was found at Allens Pond in Dartmouth on October 15. Sachems also made their first appearance in the state in late July with one in Foxborough on the 26th; but it wasn't until October that the jackpot was hit in the Westport/Dartmouth area. On the 4th a full dozen were found at the Allens Pond MAS field station in Dartmouth, quadrupling the old high count. The last one was found on October 20th in the same area, thereby extending the flight season by two weeks.



The “easternmost ever” Zabulon Skipper at the Allens Neck section of Allens Pond MAS. September 13, 2008

Photograph by the author.

The Allens Pond area hosted another record on September 13 when a Zabulon Skipper extended the range for the species eastward to the Allens Neck section of the sanctuary. Zabulons had already

made inroads into Rhode Island prior to this sighting (see *Massachusetts Butterflies* No. 31, Fall 2008), but it was still a nice surprise for the five observers conducting a butterfly survey there that day. Two of our resident Skipper species were not reported for 2008. Both Dion Skipper and Common Roadside Skipper are quite rare in the state. The former is state listed as “Threatened,” has a fairly brief flight period, and only occurs in a few calcareous Berkshire marshes within the state, so it’s not too surprising that it isn’t found every year. Common Roadside Skipper, however, is not listed by the Natural Heritage and Endangered Species Program, is thought to be a generalist with respect to hostplant grasses, and has a recorded flight period in the state that approaches two months. It has mostly been recorded from central and western MA; but there are a few isolated records from more eastern counties. The most recent record is of a single individual on June 13, 2005.

Early flight dates: American Lady – 3/14, Appalachian Brown – 5/26.

Late flight dates: Eastern Tiger Swallowtail – 11/7, American Snout – 10/12, Northern Cloudywing – 8/5, Dreamy Duskywing – 7/7, Wild Indigo Duskywing – 10/17, Little Glassywing – 9/7, Sachem – 10/20.

New high counts: Harvester – 67, Bog Elfin – 3, Eastern Pine Elfin – 100, Hoary Edge – 5, Sleepy Duskywing – 49, Arctic Skipper – 116, Sachem – 12.



Pipeline Swallowtail

- 7/13 1 Blackstone Valley NABA - Tom Dodd #
- 8/27 1 IRWS, Topsfield - Peggy Towle

Black Swallowtail

- 4/23 3 GBH, Canton - Madeline Champagne
- 5/7 1 Moore SP, Paxton - Elise Barry
- 5/7 1 Nahant - Linda Pivacek
- 5/10 2 Williamstown - Pam Weatherbee
- 5/11 3 Old Town Hill, Newbury - Bo Zaremba
- 5/18 1 Oxbow NWR, Harvard - Ron Hamburger
- 5/18 1 Surrenden Farm, Groton - Tom Murray
- 5/23 2 Weir Hill Res, N Andover - Howard Hoopie
- 5/26 3 GBH, Canton - MBC (Steve Moore)
- 5/27 2 Whately - Bill Benner
- 6/8 6 GBH, Canton - Bob Bowker
- 6/9 1 Dunstable - Jason Forbes
- 6/11 9 Windsor - Tom Gagnon
- 6/21 6 Tyringham - M.Lynch+S.Carroll
- 7/6 2 Maudslay SP, NP - Bo Zaremba
- 7/9 3 Westborough WMA - Wendy Miller#
- 7/13 6 World's End, Hingham - Bob Bowker
- 7/19 28 MV NABA - Matt Pelikan #
- 7/19 18 C Berkshire NABA - Tom Tynning #
- 7/20 43 Northampton NABA - Dottie Case #
- 8/9 4 Sherborn PL - MBC(Bob Bowker)
- 8/10 2 MMP, Williamstown - Pam Weatherbee
- 8/10 2 Stichter Yard, Newbury - Sharon Stichter
- 8/24 3 MHF, Sharon - Madeline Champagne
- 9/4 2 Windsor - T.Gagnon+B.Spencer
- 9/8 4 Katama, Edgartown - Allan Keith
- 9/23 1 Katama, Edgartown - Allan Keith
- 10/4 1 GMNWR, Concord - Steve Moore #
- 10/4 2 Sedge Meadow, Wayland - Erik Nielsen
- 10/20 1 AP Field Station, Dartmouth - Bob Bowker

Tiger Swallowtail (spn)

- 4/26 1 E Longmeadow - Karen Parker
- 5/5 1 Marblehead - Karen Haley
- 5/13 4 BMB WS, Worcester - Martha Gach
- 5/24 5 MSSF, Plymouth - MBC(Murray+Nielsen)
- 5/26 4 GBH, Canton - MBC (Steve Moore)
- 5/27 2 Rowden Yard, Leicester - Mark Rowden
- 6/8 6 Dauphinais Park, Grafton - MBC (Wendy Miller)
- 6/11 11 Moore SP, Paxton - Elise Barry
- 6/16 5 Tower Hill, Boylston - Wendy Miller
- 6/21 8 MMP, Williamstown - Bo Zaremba
- 7/3 4 MHF, Sharon - M.Champagne+B.Cassie
- 7/13 4 Tower Hill, Boylston - Eleanor Solberg
- 8/23 3 Milford PL - Bob Bowker
- 8/31 1 E Longmeadow - Karen Parker

Eastern Tiger Swallowtail

- 5/1 1 Lamson Rd, Foxborough - Madeline Champagne
- 5/5 1 Holliston - Richard Hildreth
- 5/17 1 MSSF, Plymouth - Erik Nielsen
- 5/17 2 MBWMA, Newbury - Bo Zaremba
- 5/18 1 NRT, Belchertown - Frank Model
- 5/18 1 Mt. Auburn, Watertown - Jason Forbes
- 5/20 2 Weir Hill Res, N Andover - Sharon Stichter #
- 5/27 2 Plum Island - Rick Heil
- 5/28 2 Weir Hill Res, N Andover - Howard Hoopie
- 5/29 1 Noanet Woodlands Res., Dover - Russ Hopping
- 5/31 8 Blackstone - M.Lynch+S.Carroll
- 6/7 8 MBWMA, Newbury - Sharon Stichter #
- 6/8 3 Dighton PL - MBC (Lauren Miller)

- 6/14 124 Hawley - M.Lynch+S.Carroll
- 6/21 28 Tyringham - M.Lynch+S.Carroll
- 7/4 15 MBWMA, Newbury - Joe Stichter
- 7/13 13 Blackstone Valley NABA - Tom Dodd #
- 7/13 1 Amos Kendall, Dunstable - Jason Forbes
- 7/18 2 Joppa Flats, Newburyport - Sharon + Joe Stichter
- 7/20 1 Chilmark - Allan Keith
- 7/22 4 Pike's Bridge Rd, W Newbury - Bo Zaremba
- 7/26 13 Leicester - Dolores Price #
- 8/5 4 FS WMA, Longmeadow - Tom Gagnon
- 8/17 6 FS WMA, Longmeadow - MBC (Gagnon+Parker)
- 9/15 1 Northampton CG - Steve Moore#
- 9/15 1 Wayland CG - Sharon+Joe Stichter
- 9/17 1 Stichter Yard, Newbury - Sharon Stichter
- 9/21 1 Mount Wachusett, Princeton - Jason Forbes
- 11/7 1 Athol - Sarah Mildern+Nathan Rudolph

Canadian Tiger Swallowtail

- 5/14 3 Quabbin - Tom Gagnon
- 5/14 1 Cummington - Barbara Spencer
- 5/17 9 Gates 35-39, Quabbin - M.Lynch+S.Carroll
- 5/25 8 Petersham - MBC (Tom Gagnon)
- 5/26 4 Florence - Tom Gagnon
- 5/27 2 Whately - Bill Benner
- 5/30 17 Mount Greylock - F.Model+E.Nielsen
- 5/30 18 Quabbin - Tom Gagnon #
- 6/1 3 Pittsfield SF - MBC (Tom Gagnon)
- 6/10 1 Surrenden Farm, Groton - Tom Murray
- 6/11 19 Windsor - Tom Gagnon
- 6/11 2 Florence - Tom Gagnon
- 7/6 1 Cherry Hill Res, W Newbury - Erik Nielsen
- 7/20 10 NE Quabbin - M.Lynch+S.Carroll
- 7/26 1 Royalston - Carl Kamp

Spicebush Swallowtail

- 5/5 1 Westfield - T.Gagnon+B.Callahan
- 5/17 1 E Longmeadow - Karen Parker
- 5/24 1 MSSF, Plymouth - MBC(Murray+Nielsen)
- 5/26 2 GBH, Canton - MBC (Steve Moore)
- 6/1 2 Acton - Jason Forbes
- 6/20 3 Rocky Narrows, Sherborn - Bob Bowker
- 6/25 6 MHF, Sharon - Madeline Champagne
- 7/11 2 Middleton - Jim Berry
- 7/11 4 Moore SP, Paxton - Elise Barry
- 7/13 1 Rowden Yard, Leicester - Mark Rowden
- 7/19 8 Wellfleet Bay Ws, Wellfleet - Mark Faherty #
- 8/17 4 FS WMA, Longmeadow - MBC (Gagnon+Parker)
- 8/31 2 Nelson Island, Rowley - joe stichter
- 9/21 1 E Longmeadow - Karen Parker
- 10/7 1 Tisbury - Matt Pelikan
- 10/12 1 Gooseberry Neck, Westport - Frank Model

Mustard White

- 4/24 16-20 Roaring Brook Rd, Lenox - Roger Pease
- 5/5 30 New Lenox Rd, Lenox - Frank Model
- 6/1 1 Windsor - MBC (Tom Gagnon)
- 7/19 7 C Berkshire NABA - Tom Tynning #

West Virginia White

- 4/21 1 Florence - Tom Gagnon
- 4/25 1 Conway - Bill Benner
- 5/6 1 Cummington - Barbara Spencer
- 5/8 3 Chesterfield - Barbara Spencer
- 5/26 2 Florence - Tom Gagnon
- 5/30 7 Mount Greylock - F.Model+E.Nielsen
- 6/1 1 Windsor - MBC (Tom Gagnon)
- 6/1 1 Pittsfield SF - MBC (Tom Gagnon)

Cabbage White

3/27 1 Wellfleet Bay Ws, Wellfleet - Mark Faherty
4/1 1 Whately - Bill Benner
4/10 1 Rowley - Jim Berry#
4/17 5 Millbury - M.Lynch+S.Carroll
4/17 1 Rutland Prison Camps - Sue Hennessy
4/19 5 Holliston - Richard Hildreth
4/20 8 W Bridgewater - Don Adams
4/22 2 Joppa Flats, Newburyport - Sharon Stichter
4/25 5 Sherborn PL - Bob Bowker
5/11 6 Great Meadows, Lexington - Tom Whelan
5/14 10 MHF, Sharon - Madeline Champagne
5/28 17 Fresh Pond, Cambridge S.Stichter+M.Champagne
6/3 15 Horn Pond Area, Woburn - Bob Bowker
6/29 27 MPRA, W Newbury - Bo Zaremba
7/3 68 MHF, Sharon - M.Champagne+B.Cassie
7/6 30 IRWS, Topsfield - Sharon Stichter #
7/9 30 Ipswich - Jim Berry
7/10 60 World's End, Hingham - Bob Bowker
7/12 40+ Adams-Windsor - M.Lynch+S.Carroll
7/16 16 Williamstown - Bo Zaremba
7/25 19 Springfield - Karen Parker
8/5 14 Little's Farm, Newbury - Bo Zaremba
8/9 22 Northampton CG - Bill Benner#
8/15 15 Plum Island - Jim Berry
8/22 16 AP Field Station, Dartmouth - M. Champagne
8/31 56 Sedge Meadow, Wayland - Erik Nielsen
9/3 15 Blackstone River SP, Uxbridge - Bob Bowker
9/7 22 NAC, Concord - S.Moore+B.Volkle
9/21 50 Northampton CG - MBC (Tom Gagnon)
10/4 13 Ipswich - Jim Berry
10/7 34 Gooseberry Neck, Westport - Tom+Cathy Dodd
10/12 27 Spectacle Island - Tom+Cathy Dodd
10/13 25 Nelson Island, Rowley - Joe Stichter
10/27 13 Gooseberry Neck, Westport - M. Champagne
11/1 1 Fresh Pond, Cambridge - Fred Bouchard
11/4 1 W Meadows, Northampton - Tom Gagnon
11/4 1 Marblehead - Karen Haley
11/9 2 Westport - M.Lynch+S.Carroll

Clouded Sulphur

4/20 1 Deer Island, Winthrop - Andrew Birch
5/5 1 Commerce Rd, Hingham - Erik Nielsen
5/5 3 Sherborn PL - Bob Bowker
5/6 1 Stichter Yard, Newbury - Sharon+Joe Stichter
5/6 2 Ipswich - Jim Berry
5/6 1 Tisbury Meadow - Matt Pelikan
5/14 13 Quabbin - Tom Gagnon
5/20 15 CRP TTOR, Needham - Bob Bowker
5/21 13 Moore SP, Paxton - Elise Barry
5/23 9 Rocky Narrows, Sherborn - Bob Bowker
5/26 4 Florence - Tom Gagnon
5/30 6 George L Darey WMA, Lenox -
F.Model+E.Nielsen
6/1 9 Surrenden Farm, Groton - Tom Murray
6/2 2 Millis - Madeline Champagne
7/2 7 IRWS, Topsfield - Sharon + Joe Stichter
7/6 33 AF, Hamilton/Ipswich - Jim Berry#
7/6 35 IRWS, Topsfield - Sharon Stichter #
7/9 10 Westborough WMA - Wendy Miller#
7/10 60 World's End, Hingham - Bob Bowker
7/11 14 Moore SP, Paxton - Elise Barry
7/15 5 Callahan SP, Framingham - Bob Bowker
7/26 6 Leicester - Dolores Price #
8/9 15+ Colrain - M.Lynch+S.Carroll
8/21 18 Moore SP, Paxton - Elise Barry
8/23 20 Ware River Watershed - M.Lynch+S.Carroll

8/24 24 AP Allens Neck, Dartmouth - Erik Nielsen
8/26 6 BMB WS, Worcester - Martha Gach #
8/29 1 Springfield - Karen Parker
9/1 7 Royalston - Carl Kamp+Alyce Mayo
9/4 19 Windsor - T.Gagnon+B.Spencer
9/7 33 NAC, Concord - S.Moore+B.Volkle
9/13 46 AP Allens Neck, Dartmouth - Lauren Miller #
9/20 90 Wayland CG - MBC (Erik Nielsen)
9/29 6 Plum Island - Sharon Stichter+Kate Toniolo
10/7 6 Fresh Pond, Cambridge - Sharon+Joe Stichter
10/12 60+ Westport - M.Lynch+S.Carroll
10/26 2 Goshen - M.Lynch+S.Carroll
11/4 3 W Meadows, Northampton - Tom Gagnon
11/7 3 Edgartown - Matt Pelikan
11/8 1 Southbridge - M.Lynch+S.Carroll
11/9 5 Westport - M.Lynch+S.Carroll
11/9 1 Lexington - Renee LaFontaine #

Orange Sulphur

4/23 1 W Tisbury - Allan Keith
4/24 2 Katama, Edgartown - Allan Keith
4/24 1 Keith Farm, Chilmark - Allan Keith
5/30 2 Cape Ann - Doug Savich
6/1 2 Surrenden Farm, Groton - Tom Murray
6/1 1 Ipswich - Jim Berry
6/8 5 Dighton PL - MBC (Lauren Miller)
6/12 8 Millenium Park, Roxbury - Bob Bowker
7/3 4 MHF, Sharon - M.Champagne+B.Cassie
7/6 10 AF, Hamilton/Ipswich - Jim Berry#
7/6 33 Little's Farm, Newbury - Erik Nielsen
7/10 60 World's End, Hingham - Bob Bowker
7/19 12 Eastham/Wellfleet - Mark Faherty #
7/26 12 Leicester - Dolores Price #
8/14 11 Cape Ann - Doug Savich
8/22 14 AP Field Station, Dartmouth - M. Champagne
9/1 34 AP Field Station, Dartmouth - Erik Nielsen
9/4 12 Savoy - T.Gagnon+B.Spencer
9/7 21 NAC, Concord - S.Moore+B.Volkle
9/13 21 AP Allens Neck, Dartmouth - Lauren Miller #
9/15 25 Moore SP, Paxton - Elise Barry
9/23 18 Gooseberry Neck, Westport - Bob Bowker
10/4 17 Plum Island - Fred Bouchard
10/8 40 W Meadows, Northampton - Tom Gagnon
10/8 40+ Rumney Marsh, Revere - Andrew Birch
10/12 48 Spectacle Island - Tom+Cathy Dodd
10/20 80 AP Field Station, Dartmouth - Bob Bowker
10/27 2 Chilmark - Allan Keith
11/4 12 W Meadows, Northampton - Tom Gagnon
11/7 3 Edgartown - Matt Pelikan
11/9 5 Gooseberry Neck, Westport - Erik Nielsen

Cloudless Sulphur

8/24 1 AP Field Station, Dartmouth - Erik Nielsen
9/10 1 Pochet Island, Orleans - Wayne Petersen+Carl Goodrich
9/11 1 Edgartown - Allan Keith
9/15 1 W Tisbury - Allan Keith
9/20 1 Oak Bluffs - Matt Pelikan
9/21 1 Sandwich - Erik Nielsen
9/21 1 W Tisbury - Allan Keith
9/23 2 Gooseberry Neck, Westport - Bob Bowker
9/30 1 Squibnoctet, Chilmark - Allan Keith
10/1 2 Edgartown - Matt Pelikan
10/8 1 Squibnoctet, Chilmark - Allan Keith
10/10 1 Chappaquidic, Edgartown - Allan Keith
10/10 1 W Tisbury - Allan Keith
10/11 1 AP Field Station, Dartmouth - Erik Nielsen
10/13 2 Squibnoctet, Chilmark - Allan Keith

10/14 1 Hoft Farm, W Tisbury - Matt Pelikan
10/15 2 Squibnocket, Chilmark - Allan Keith

Harvester

5/29 1 Oxbow NWR, Harvard - Ron Hamburger
5/29 1 Barry Yard, Paxton - Elise Barry
6/3 1 Lyman Pond, Waltham - Jason Forbes
6/8 1 Dauphinais Park, Grafton - MBC (Wendy Miller)
6/11 3 Mystic Lakes, Medford - Renee LaFontaine
6/18 1 Weir Hill Res, N Andover - Russ Hopping
7/22 36 ML, Arlington/Medford - R.LaFontaine+M.Rines
8/17 1 FS WMA, Longmeadow - MBC (Gagnon+Parker)
8/21 67 ML, Arlington/Medford - R.LaFontaine+M.Rines
9/4 1 Windsor - T.Gagnon+B.Spencer

American Copper

5/5 2 Westfield - T.Gagnon+B.Callahan
5/6 1 Andover - Howard Hoople
5/6 2 Tisbury Meadow - Matt Pelikan
5/25 12 MHF, Sharon - Madeline Champagne
5/26 18 Maudslay SP, NP - Bo Zaremba
5/29 9 W Tisbury - Judy Holland
6/8 10 Dighton PL - MBC (Lauren Miller)
7/11 50 Wellfleet Bay Ws, Wellfleet - Mark Faherty
7/19 10 MV - Allan Keith
7/19 112 Eastham/Wellfleet - Mark Faherty #
7/27 9 Royalston - MBC(Carl Kamp)
8/24 12 MHF, Sharon - Madeline Champagne
8/26 13 Water Tower PL, NP - Sharon Stichter
9/7 8 Northampton CG - MBC(Tom Gagnon)
10/4 7 Trade Winds, Oak Bluffs - Matt Pelikan
10/12 8 Gooseberry Neck, Westport - M.Lynch+S.Carroll
10/13 1 Nelson Island, Rowley - Joe Stichter
10/23 7 AP Field Station, Dartmouth - Bob Bowker
10/30 1 Ward Res, Andover - Howard Hoople
11/11 1 S Dartmouth - Ted Raymond

Bronze Copper

6/12 1 Millenium Park, Roxbury - Bob Bowker
6/21 1 Moran WMA, Windsor - Jonathan Center
8/25 1 Stichter Yard, Newbury - Sharon Stichter
8/27 1 Stichter Yard, Newbury - Sharon Stichter
9/3 4 GMNWR, Concord - Jason Forbes
9/15 2 Sedge Meadow, Wayland - Sharon+Joe Stichter
9/20 3 NAC, Concord - MBC (Erik Nielsen)
10/4 1 Sedge Meadow, Wayland - Erik Nielsen
10/10 1 Millenium Park, Roxbury - Bob Bowker

Bog Copper

6/27 1 Cape Ann - Doug Savich
7/6 23 N Worcester NABA - Carl Kamp #
7/7 3 Cape Ann - Doug Savich
7/8 1509 C Franklin NABA - Mark Fairbrother #
7/12 8 Concord NABA - Dick Walton #
7/12 6 Truro NABA - Alison Robb #
7/13 2 Blackstone Valley NABA - Tom Dodd #
7/27 1 Royalston - MBC(Carl Kamp)

Coral Hairstreak

7/5 4 HPM, Woburn - MBC (E.Nielsen)
7/6 1 MBWMA, Newbury - Sharon Stichter #
7/8 6 C Franklin NABA - Mark Fairbrother #
7/8 1 Stichter Yard, Newbury - Sharon Stichter
7/9 7 Weir Hill Res, N Andover - Howard Hoople
7/19 28 MV NABA - Matt Pelikan #
7/19 27 Brewster NABA - Alison Robb #
7/19 1 WRR, W Tisbury - Allan Keith
7/19 27 Wellfleet Bay Ws, Wellfleet - Mark Faherty #

7/19 23 C Berkshire NABA - Tom Tying #
7/21 2 MSSF, Plymouth - Mark Faherty
7/26 4 GBH, Canton - Erik Nielsen
8/2 1 MHF, Sharon - Erik Nielsen

Acadian Hairstreak

7/4 8 Pittsfield - Frank Model
7/5 8 HPM, Woburn - MBC (E.Nielsen)
7/6 1 N Worcester NABA - Carl Kamp #
7/11 2 S Berkshire NABA - Rene Laubach #
7/13 2 Blackstone Valley NABA - Tom Dodd #
7/19 32 C Berkshire NABA - Tom Tying #

Edwards' Hairstreak

6/27 2 HPM, Woburn - Renee LaFontaine
6/29 13 GBH, Canton - Erik Nielsen
6/30 2 E Longmeadow - Karen Parker
7/5 16 HPM, Woburn - MBC (E.Nielsen)
7/12 8 Concord NABA - Dick Walton #
7/13 1 Blackstone Valley NABA - Tom Dodd #
7/17 1 E Longmeadow - Karen Parker
7/19 28 MV NABA - Matt Pelikan #
7/21 7 MSSF, Plymouth - Mark Faherty
7/26 1 GBH, Canton - Erik Nielsen

Banded Hairstreak

6/18 2 Mystic Lakes, Medford - Renee LaFontaine
6/27 17 HPM, Woburn - Renee LaFontaine
6/29 19 GBH, Canton - Erik Nielsen
6/30 1 E Longmeadow - Karen Parker
7/1 4 Foxborough - Madeline Champagne
7/1 2 Old Town Hill, Newbury - Bo Zaremba
7/2 2 Cape Ann - Doug Savich
7/6 4 Old Town Hill, Newbury - Erik Nielsen
7/7 2 Saffarewich Yard, Newbury - Dorothy Saffarewich
7/10 8 World's End, Hingham - Bob Bowker
7/12 2 N Berkshire NABA - Tom Tying #
7/13 4 Blackstone Valley NABA - Tom Dodd #
7/19 1 Wellfleet Bay Ws, Wellfleet - Mark Faherty #
7/19 4 MV NABA - Matt Pelikan #
7/22 1 Pike's Bridge Rd, W Newbury - Bo Zaremba
7/25 1 Stichter Yard, Newbury - Sharon Stichter
8/1 1 MCP, Burlington/Woburn - Bob Bowker

Hickory Hairstreak

7/11 18 S Berkshire NABA - Rene Laubach #
7/12 1 N Berkshire NABA - Tom Tying #

Striped Hairstreak

6/28 1 E Longmeadow - Karen Parker
6/29 1 GBH, Canton - Erik Nielsen
7/5 4 HPM, Woburn - MBC (E.Nielsen)
7/5 1 Rowden Yard, Leicester - Mark Rowden
7/6 7 N Worcester NABA - Carl Kamp #
7/10 1 World's End, Hingham - Bob Bowker
7/13 9 Blackstone Valley NABA - Tom Dodd #
7/19 1 Wellfleet Bay Ws, Wellfleet - Mark Faherty #
7/19 1 Brewster NABA - Alison Robb #
7/20 1 Milford PL - Erik Nielsen
7/20 1 CST, Marl/Northborough - MBC (S.Moore+B.Volkle)
7/20 1 NE Quabbin - M.Lynch+S.Carroll

Oak Hairstreak

6/29 2 GBH, Canton - Erik Nielsen

Brown Elfyn

4/18 10 Wellfleet Bay Ws, Wellfleet - Mark Faherty
4/19 1 MV SF - Matt Pelikan
4/19 15 Wellfleet Bay Ws, Wellfleet - Dan Berard

4/20 10 GBH, Canton - Erik Nielsen
 4/20 1 Great Meadows, Lexington - Jason Forbes
 4/21 4 HPM, Woburn - Renee LaFontaine
 4/22 1 Ward Res, Andover - Howard Hoople
 4/22 1 Cape Ann - Doug Savich
 4/24 15 G35 Quabbin - Bob Bowker+Lydia Rogers
 4/26 1 Pratt Hill, Upton - Tom Dodd
 4/26 12 HPM, Woburn - Tom Whelan
 5/5 8 Sherborn PL - Bob Bowker
 5/11 8 Ward Res, Andover - Howard Hoople
 5/11 1 FPB, Acton/Concord - Erik Nielsen
 5/24 19 MSSF, Plymouth - MBC(Murray+Nielsen)
 5/29 3 MV SF - Judy Holland
 6/1 4 MSSF, Plymouth - Erik Nielsen

Hoary Elfin

4/18 4 MV SF - Judy Holland
 5/6 1 Tisbury Meadow - Matt Pelikan
 5/14 1 MV SF - Matt Pelikan
 5/17 43 MSSF, Plymouth - Erik Nielsen
 5/18 4 Wellfleet Bay Ws, Wellfleet - Mark+Brian Faherty
 5/24 21 MSSF, Plymouth - MBC(Murray+Nielsen)
 6/1 2 MSSF, Plymouth - Erik Nielsen

Frosted Elfin

5/13 2 Acton - Tom Whelan
 5/13 1 Weir Hill Res, N Andover - Howard Hoople
 5/14 6 Sherborn PL - Bob Bowker
 5/20 19 Weir Hill Res, N Andover - Sharon Stichter #
 5/23 1 Lamson Rd, Foxborough - Madeline Champagne
 5/24 4 MSSF, Plymouth - MBC(Murray+Nielsen)
 5/25 5 Stage Rd PL, Chelmsford - Tom Whelan
 5/30 8 Weir Hill Res, N Andover - Howard Hoople
 6/1 1 MSSF, Plymouth - Erik Nielsen
 6/3 7 Lamson Rd, Foxborough - Madeline Champagne
 6/8 1 Dighton PL - MBC (Lauren Miller)
 6/11 1 Weir Hill Res, N Andover - Howard Hoople

Henry's Elfin

4/20 1 NRT, Amherst - Frank Model
 4/22 2 Old Town Hill, Newbury - Sharon Stichter
 4/21 1 G35 Quabbin - Bob Bowker+Lydia Rogers
 4/25 1 Cape Ann - Doug Savich
 4/26 8 Acton - Jason Forbes
 4/26 1 Oxbow NWR, Harvard - Wendy Moore
 4/27 1 Plum Island - Susan Hedman
 5/11 1 Wompatuck SP, Hingham - Erik Nielsen
 5/11 1 Sherborn PL - Bob Bowker
 5/26 3 Tom Swamp, Petersham - Erik Nielsen
 5/27 1 Met State, Waltham - Jason Forbes
 5/29 1 Noanet Woodlands Res., Dover - Russ Hopping

Bog Elfin

5/25 3 Petersham - MBC (Tom Gagnon)
 5/26 1 Old County Rd, Ashburnham - Tom Murray

Eastern Pine Elfin

4/16 2 MBWMA, Newbury - Sharon+Joe Stichter
 4/21 1 Noon Hill Res, Medfield - Erik Nielsen
 4/21 1 HPM, Woburn - Renee LaFontaine
 4/21 1 Oxbow NWR, Harvard - Wendy Miller
 4/21 1 Ward Res, Andover - Howard Hoople
 4/24 3 G35 Quabbin - Bob Bowker+Lydia Rogers
 4/25 3 Holliston - Richard Hildreth
 4/25 7 Moore SP, Paxton - Elise Barry
 4/26 easily 100 Athol - Earle Baldwin
 5/5 13 Sherborn PL - Bob Bowker
 5/7 2 Moore SP, Paxton - Elise Barry
 5/14 8 Oxbow NWR, Harvard - Frank Model

5/14 3 Rutland Prison Camps - Sue Hennessy
 5/17 2 Quabbin G15, Shutesbury - S.Moore+B.Volkle
 5/17 10 MHF, Sharon - Madeline Champagne
 5/18 1 Wellfleet Bay Ws, Wellfleet - Mark+Brian Faherty
 5/21 5 Lamson Rd, Foxborough - Madeline Champagne
 5/24 15 MSSF, Plymouth - MBC(Murray+Nielsen)
 5/25 19 Petersham - MBC (Tom Gagnon)
 6/1 12 MSSF, Plymouth - Erik Nielsen
 6/8 1 GBH, Canton - Bob Bowker
 6/9 2 Dunstable - Jason Forbes
 6/18 1 Old Town Hill, Newbury - Sharon Stichter

Hessel's Hairstreak

5/25 2 Ponkapoag Bog, Canton - Erik Nielsen
 5/26 1 Ponkapoag Bog, Canton - MBC (Steve Moore)

White M Hairstreak

5/25 1 Ponkapoag Bog, Canton - Erik Nielsen
 5/25 1 GBH, Canton - Erik Nielsen
 7/19 1 MV NABA - Matt Pelikan #
 8/1 1 MCP, Burlington/Woburn - Bob Bowker
 8/9 1 Whately - Bill Benner #
 8/15 1 Whately - Bill Benner

Gray Hairstreak

5/11 1 Sherborn PL - Bob Bowker
 5/14 1 MV SF - Matt Pelikan
 5/20 1 Weir Hill Res, N Andover - Sharon Stichter #
 5/20 1 Lamson Rd, Foxborough - Madeline Champagne
 5/29 2 MV SF - Judy Holland
 7/3 1 Keith Farm, Chilmark - Allan Keith
 7/9 1 Westborough WMA - Wendy Miller#
 7/13 1 World's End, Hingham - Bob Bowker
 7/15 1 Stichter Yard, Newbury - Sharon Stichter
 7/19 2 Wellfleet Bay Ws, Wellfleet - Mark Faherty #
 7/19 4 W Tisbury - Allan Keith
 7/26 4 GBH, Canton - Erik Nielsen
 8/3 1 Arched Bridge, Dunstable - Jason Forbes
 8/9 1 E Longmeadow - Karen Parker
 8/24 1 MHF, Sharon - Madeline Champagne
 9/7 1 Millbury PL - Dolores Price
 9/8 1 Polly Hill, W Tisbury - Allan Keith
 10/8 2 AP, Dartmouth - Bob Bowker
 10/11 1 NP - Bo Zarembo

Eastern Tailed-Blue

4/22 1 Vineyard Haven - Matt Pelikan
 5/5 1 Westfield - T.Gagnon+B.Callahan
 5/7 3 Lamson Rd, Foxborough - Madeline Champagne
 5/11 1 E Longmeadow - Karen Parker
 5/11 1 Sherborn PL - Bob Bowker
 5/14 4 MHF, Sharon - Madeline Champagne
 5/18 2 NRT, Belchertown - Frank Model
 5/21 5 Florence - Tom Gagnon
 5/26 10 Cape Ann - Doug Savich
 5/29 7 MV SF - Judy Holland
 6/27 1 Arched Bridge, Dunstable - Jason Forbes
 7/1 2 Stichter Yard, Newbury - Sharon Stichter
 7/5 2 F&G Fields, Westborough - S.Moore+B.Volkle
 7/12 13 MBWMA, Newbury - Sharon+Joe Stichter
 7/15 2 Callahan SP, Framingham - Bob Bowker
 7/26 3 Leicester - Dolores Price #
 7/26 1 Royalston - Carl Kamp
 7/29 3 Northampton CG - Tom Gagnon
 8/17 13 FS WMA, Longmeadow - MBC (Gagnon+Parker)
 8/23 13 Milford PL - Bob Bowker
 8/24 22 MBWMA, Newbury - Sharon+Joe Stichter
 8/26 12 BMB WS, Worcester - Martha Gach #

9/4 5 Savoy - T.Gagnon+B.Spencer
 9/7 6 Northampton CG - MBC (Tom Gagnon)
 9/15 1 Squibnocket, Chilmark - Allan Keith
 9/21 3 Northampton CG - MBC (Tom Gagnon)
 10/7 1 Fresh Pond, Cambridge - Sharon+Joe Stichter
 10/8 1 W Meadows, Northampton - Tom Gagnon
 10/11 1 Slocum River Preserve, Dartmouth - Erik Nielsen
 10/11 1 Chilmark - Allan Keith

Spring Azure

4/1 1 Whately - Bill Benner
 4/12 1 Broadmoor WS, Natick - Bob Bowker
 4/12 4 CST, Westborough - S.Moore+B.Volkle
 4/15 2 Rutland Prison Camps - Sue Hennessy
 4/15 3 Holliston - Richard Hildreth
 4/15 2 NRT, Amherst - Frank Model
 4/17 8 Cape Ann - Doug Savich
 4/17 8 Holliston - Richard Hildreth
 4/18 11 Tisbury - Judy Holland
 4/18 28 Rocky Narrows, Sherborn - Bob Bowker
 4/19 23 Noanet Woodlands Res., Dover - Erik Nielsen
 4/21 61 Rocky Woods, Medfield - Erik Nielsen
 4/21 14 Oxbow NWR, Harvard - Wendy Miller
 4/23 15+ Menemsha Hills, Chilmark - Allan Keith
 4/24 26 Wrentham - Madeline Champagne
 4/25 40 Cape Ann - Doug Savich
 4/26 12 Oxbow NWR, Harvard - Steve Moore
 4/26 2 Pratt Hill, Upton - Tom Dodd
 5/6 24 Cape Ann - Doug Savich
 5/8 10 Ipswich - Jim Berry
 5/13 10 Weir Hill Res, N Andover - Howard Hoople
 5/14 20 Quabbin - Tom Gagnon
 5/14 14 MV SF - Matt Pelikan
 5/17 37 MSSF, Plymouth - Erik Nielsen
 5/23 12 Rocky Narrows, Sherborn - Bob Bowker
 5/26 6+ Katama, Edgartown - Allan Keith
 5/29 5 Noanet Woodlands Res., Dover - Russ Hopping
 6/2 12+ Menemsha Hills, Chilmark - Allan Keith
 6/7 1 E Longmeadow - Karen Parker
 6/11 2 Rowden Yard, Leicester - Mark Rowden

Cherry Gall Azure

5/11 5 FPB, Acton/Concord - Erik Nielsen
 5/11 7 Met State, Waltham - Jason Forbes
 5/14 3 Oxbow NWR, Harvard - Frank Model
 5/17 7 Juniper Hill, Lexington - Tom Whelan
 5/18 1 Surrenden Farm, Groton - Tom Murray
 5/18 5 Oxbow NWR, Harvard - S.Moore+B.Volkle
 5/18 2 NRT, Belchertown - Frank Model
 5/21 2 Moore SP, Paxton - Elise Barry
 5/25 4 Petersham - MBC (Tom Gagnon)
 5/26 2 Old County Rd, Ashburnham - Tom Murray
 5/30 1 George L Darey WMA, Lenox - F.Model+E.Nielsen
 6/1 10 Dunback Meadows, Lexington - Jason Forbes
 6/3 1 Westborough WMA - Barbara Volkle
 6/8 1 Lamson Rd, Foxborough - Erik Nielsen

'Summer' Spring Azure

5/30 1 Moore SP, Paxton - Elise Barry
 6/8 1 MHF, Sharon - Erik Nielsen
 6/10 1 Surrenden Farm, Groton - Tom Murray
 6/11 8 Moore SP, Paxton - Elise Barry
 7/5 6 MCP, Burlington/Woburn - MBC (E.Nielsen)
 7/6 13 IRWS, Topsfield - Joe Stichter #
 7/10 5 World's End, Hingham - Bob Bowker
 7/19 133 C Berkshire NABA - Tom Tynning #
 7/26 2 Whately - Bill Benner

7/26 2 Little's Farm, Newbury - Sharon + Joe Stichter
 8/3 2 E Longmeadow - Karen Parker
 8/26 3 Highfield Rd PL, Newbury - Sharon Stichter
 9/1 1 Royalston - Carl Kamp+Alyce Mayo
 9/4 1 Savoy - T.Gagnon+B.Spencer
 9/7 2 Brewster PL - Fred Bouchard
 9/13 1 AP Allens Neck, Dartmouth - Lauren Miller #
 9/17 1 Paxton Ball Fields - Elise Barry
 9/21 1 MHF, Sharon - Erik Nielsen

Silvery Blue

5/5 3-4 New Lenox Rd, Lenox - Frank Model
 5/17 1 Weir Hill Res, N Andover - Sharon Stichter
 5/25 3 Petersham - MBC (Tom Gagnon)
 5/30 10 George L Darey WMA, Lenox - F.Model+E.Nielsen
 6/1 2 Windsor - MBC (Tom Gagnon)
 6/1 4 Surrenden Farm, Groton - Tom Murray
 6/2 1 S-C TTOR, N Andover - Sharon Stichter #
 6/7 14 Cherry Hill Res, W Newbury - Erik Nielsen
 6/11 19 Windsor - Tom Gagnon
 6/12 1 Millenium Park, Roxbury - Bob Bowker
 6/13 1 Westborough WMA - Wendy Miller+Elise Barry
 6/22 1 MBWMA, Newbury - Sharon Stichter #

American Snout

10/12 1 Gooseberry Neck, Westport - Frank Model

Variegated Fritillary

7/11 1 Rumney Marsh, Revere - Andrew Birch
 7/12 1 MBWMA, Newbury - Sharon Stichter #
 7/23 1 W Tisbury - Matt Pelikan
 8/31 1 Sedge Meadow, Wayland - Erik Nielsen
 9/1 1 AP Field Station, Dartmouth - Erik Nielsen
 9/7 1 Cape Ann - Doug Savich
 9/7 1 Pembroke - Wayne Petersen+Jim Sweeney
 9/7 1 NAC, Concord - Erik Nielsen
 10/11 1 AP Field Station, Dartmouth - M.Champagne+L.Miller
 10/11 1 Northampton CG - F.Model+T.Gagnon
 10/12 1 Spectacle Island - Tom+Cathy Dodd
 10/24 1 Kingston - Tom Murray

Great Spangled Fritillary

6/14 1 E Longmeadow - Karen Parker
 6/18 1 Weir Hill Res, N Andover - Russ Hopping
 6/21 8 MBWMA, Newbury - Sharon Stichter #
 6/21 10+ Graves Farm, Williamsburg - Jonathan Center
 6/21 6 MMP, Williamstown - Bo Zarembo
 6/25 18 MHF, Sharon - Madeline Champagne
 7/3 32 MHF, Sharon - M.Champagne+B.Cassie
 7/3 17 Ipswich - Jim Berry
 7/6 45 MBWMA, Newbury - Sharon Stichter #
 7/11 1 Moore SP, Paxton - Elise Barry
 7/12 2 Rowden Yard, Leicester - Mark Rowden
 7/13 4 CST, Westborough - S.Moore+B.Volkle
 7/18 20 Graves Farm, Williamsburg - MBC (Bill Benner)
 7/20 6 CST, Marl/Northborough - MBC (S.Moore+B.Volkle)
 7/20 6 NE Quabbin - M.Lynch+S.Carroll
 7/26 5 Whately - Bill Benner
 7/26 15 Leicester - Dolores Price #
 7/30 4 Moore SP, Paxton - Elise Barry
 8/10 5 MMP, Williamstown - Pam Weatherbee
 8/20 12 Fuitlands, Harvard - Madeline Champagne
 8/20 10 Sherborn PL - Bob Bowker
 8/24 13 MBWMA, Newbury - Sharon+Joe Stichter
 8/26 6 BMB WS, Worcester - Martha Gach #
 9/7 6 Millbury PL - Dolores Price

9/17 3 Paxton Ball Fields - Elise Barry
 9/17 1 Stichter Yard, Newbury - Sharon Stichter
 9/20 2 Wayland CG - MBC (Erik Nielsen)
 9/21 1 Quaboag WMA, Brookfield - M.Lynch+S.Carroll
 9/21 4 Northampton CG - MBC (Tom Gagnon)

Aphrodite Fritillary

7/3 1 MHF, Sharon - M.Champagne+B.Cassie
 7/6 23 N Worcester NABA - Carl Kamp #
 7/6 1 Cummington - Barbara Spencer
 7/6 2 MPRA, W Newbury - Erik Nielsen
 7/16 4 Williamstown - Bo Zaremba
 7/26 1 Royalston - Carl Kamp
 8/9 2 Colrain - M.Lynch+S.Carroll

Atlantis Fritillary

6/25 1 Hawley - M.Lynch+S.Carroll
 7/12 6 Adams-Windsor - M.Lynch+S.Carroll
 7/12 1 N Berkshire NABA - Tom Tynning #
 7/19 2 C Berkshire NABA - Tom Tynning #
 8/9 1 Colrain - M.Lynch+S.Carroll

Silver-bordered Fritillary

5/27 50 Cape Ann - Doug Savich
 5/27 1 Maudslay SP, NP - Bo Zaremba
 5/30 2 Punkatasset, Concord - Tom Whelan
 6/3 1 MHF, Sharon - Madeline Champagne
 6/8 1 Dighton PL - MBC (Lauren Miller)
 6/10 13 Surrenden Farm, Groton - Tom Murray
 6/12 360 Cape Ann - Doug Savich
 7/6 1 MBWMA, Newbury - Sharon Stichter #
 7/10 1 E Bridgewater - Eddie Giles
 7/19 4 Eastham - Mark Faherty #
 7/27 1 Royalston - MBC(Carl Kamp)
 8/3 200 Waring Field, Rockport - MBC (Doug Savich)
 9/15 5 Cape Ann - Doug Savich
 9/21 2 MHF, Sharon - Erik Nielsen

Meadow Fritillary

5/11 3 Williamstown - Pam Weatherbee
 5/23 3 Sheffield - Tom Gagnon#
 5/27 1 Whately - Bill Benner
 7/4 5 Bart's Cobble, Sheffield - MBC(Bill Benner)
 7/7 3 MMP, Williamstown - Pam Weatherbee
 7/11 14 S Berkshire NABA - Rene Laubach #
 7/16 6 Williamstown - Bo Zaremba
 7/20 3 Northampton NABA - Dottie Case #
 8/9 3 Colrain - M.Lynch+S.Carroll

Harris' Checkerspot

6/11 15 Weir Hill Res, N Andover - Howard Hoople
 6/13 1 Upton PL - Tom Dodd
 6/14 2 Cummington - Barbara Spencer
 6/14 2 MBWMA, Newbury - Sharon Stichter
 6/28 6 NCM, Petersham - Erik Nielsen
 7/6 13 N Worcester NABA - Carl Kamp #
 7/11 1 Sherborn PL - Bob Bowker

Pearl Crescent

5/14 2 Maudslay SP, NP - Sharon Stichter
 5/14 4 Oxbow NWR, Harvard - Frank Model
 5/18 2 Surrenden Farm, Groton - Tom Murray
 5/18 1 Oxbow NWR, Harvard - S.Moore+B.Volkle
 5/18 1 Wellfleet Bay Ws, Wellfleet - Mark+Brian Faherty
 5/18 1 W Bridgewater - Don Adams
 5/23 11 Weir Hill Res, N Andover - Howard Hoople
 5/25 6 Petersham - MBC (Tom Gagnon)
 5/27 55 Cape Ann - Doug Savich
 5/29 35 Baseball Field, Rowley - Sharon+Joe Stichter

5/30 15 Punkatasset, Concord - Tom Whelan
 5/30 13 George L Darey WMA, Lenox - F.Model+E.Nielsen
 5/30 35 Milford PL - Bob Bowker
 6/1 15+ Dunback Meadows, Lexington - Jason Forbes
 6/4 23 Heritage SP, Blackstone - Bob Bowker
 6/8 98 Cape Ann - Doug Savich
 6/11 47 Moore SP, Paxton - Elise Barry
 6/13 25 Westborough WMA - Wendy Miller+Elise Barry
 6/14 13 Hawley - M.Lynch+S.Carroll
 7/20 185 Northampton NABA - Dottie Case #
 7/26 178 Barnstable NABA - Alison Robb #
 7/26 40 Leicester - Dolores Price #
 7/29 29 Powerline, Boxford - Sharon + Joe Stichter
 7/30 15 Moshup's Trail, Aquinnah - Allan Keith
 8/3 145 Waring Field, Rockport - MBC (Doug Savich)
 8/7 30 Wompesket, W Tisbury - Matt Pelikan
 8/8 28 Sherborn Gas Line - Bob Bowker
 8/13 40 Moore SP, Paxton - Elise Barry
 8/22 32 AP Field Station, Dartmouth - M. Champagne
 9/1 8 Royalston - Carl Kamp+Alyce Mayo
 9/7 420 Wayland CG - Erik Nielsen
 9/20 27 Wenham Canal - Bo Zaremba
 10/5 1 Town Farm, Ipswich - Tom Young
 10/8 1 RM, Revere/Saugus - Andrew Birch
 10/11 2 AP Field Station, Dartmouth - Erik Nielsen
 10/12 1 Cape Ann - Doug Savich
 10/20 2 AP Field Station, Dartmouth - Bob Bowker

Baltimore Checkerspot

6/19 2 W Bridgewater - Don Adams
 6/26 7 S-C TTOR, N Andover - Sharon+Joe Stichter
 6/28 25 W Bridgewater - Don Adams
 7/3 3 MHF, Sharon - M.Champagne+B.Cassie
 7/6 22 MPRA, W Newbury - Erik Nielsen
 7/6 2 Pittsfield SF - Sue Hennessy
 7/9 5 MPRA, W Newbury - Bo Zaremba
 7/9 5 Weir Hill Res, N Andover - Howard Hoople
 7/10 1 Stichter Yard, Newbury - Sharon Stichter
 7/10 75 World's End, Hingham - Bob Bowker
 7/13 60 Blackstone Valley NABA - Tom Dodd #
 7/13 6 Williams Land, Harvard - S.Moore+B.Volkle
 7/18 5 Graves Farm, Williamsburg - MBC (Bill Benner)
 7/19 26 C Berkshire NABA - Tom Tynning #
 7/20 6 Northampton NABA - Dottie Case #

Mimic

7/18 1 Bridgewater - Wayne Petersen #

Question Mark

4/19 1 Wapatequa Springs, Oak Bluffs - Matt Pelikan
 4/24 1 Vineyard Haven - Matt Pelikan
 5/6 1 Holliston - Richard Hildreth
 6/2 1 Menemsha Hills, Chilmark - Allan Keith
 6/3 1 Stichter Yard, Newbury - Sharon Stichter
 6/7 1 E Longmeadow - Karen Parker
 6/25 1 MHF, Sharon - Madeline Champagne
 7/16 1 Williamstown - Bo Zaremba
 7/30 1 Moore SP, Paxton - Elise Barry
 8/31 3 Sedge Meadow, Wayland - Erik Nielsen
 9/4 1 Savoy - T.Gagnon+B.Spencer
 10/8 1 W Meadows, Northampton - Tom Gagnon
 10/8 1 Nahant - Linda Pivacek
 10/8 1 Chilmark - Allan Keith
 10/10 1 Gooseberry Neck, Westport - M. Champagne
 10/11 1 Gloucester - Jim Berry
 10/13 1 Chilmark - Allan Keith
 11/9 1 Gooseberry Neck, Westport - Erik Nielsen

Eastern Comma

- 4/1 1 Whately - Bill Benner
4/3 1 Mt Misery, Lincoln - Tom Whelan
4/3 4 Sherborn PL - Bob Bowker
4/8 3 Mount Tom State Res. - Tom Gagnon
4/9 1 New Salem - Ron+Sue Cloutier
4/10 1 Long Hill TTOR, Beverly - Russ Hopping
4/10 1 Steer Swamp CA, Marblehead - Karen Haley
4/10 1 Rowley - Jim Berry
4/12 1 Holliston - Richard Hildreth
4/18 5 Rocky Narrows, Sherborn - Bob Bowker
4/19 1 Wellfleet Bay Ws, Wellfleet - Dan Berard
5/13 2 MBWMA, Newbury - Bo Zaremba
6/21 2 MMP, Williamstown - Bo Zaremba
6/27 1 Arched Bridge, Dunstable - Jason Forbes
7/15 2 Pike's Bridge Rd, W Newbury - Bo Zaremba
7/20 1 CST, Marl/Northborough - MBC
(S.Moore+B.Volkle)
8/17 3 FS WMA, Longmeadow - MBC (Gagnon+Parker)
8/20 1 Fuitlands, Harvard - Madeline Champagne
8/23 2 Ware River Watershed - M.Lynch+S.Carroll
9/3 1 Blackstone River SP, Uxbridge - Bob Bowker
9/5 2 Northborough - Steve Moore
10/19 2 GMNWR, Concord - Tom Whelan
10/26 1 Dunback Meadows, Lexington - Marj Rines
11/4 1 W Meadows, Northampton - Tom Gagnon
11/9 1 Larkin RA, Northbridge - Richard Hildreth
11/9 1 Lexington - Renee LaFontaine #

Compton Tortoiseshell

- 3/26 1 Wildcat CA, Boxford - Russ Hopping
4/3 1 Williamstown - Pam Weatherbee
4/3 1 Doyle Res. TTOR, Leominster - Russ Hopping
4/8 1 Naumkeag, Stockbridge - Julie Richburg
4/8 1 BFD, Hubbardston - Bart Kamp
4/12 1 CST, Westborough - S.Moore+B.Volkle
4/18 1 Sunderland - Jeff Boettner
4/19 1 Bald Hill Res., Boxford - S.Moore+B.Volkle
7/6 1 MBWMA, Newbury - Sharon Stichter #
7/7 1 Ffolliott's Farm, Ipswich - Sissy Ffolliott
7/8 1 MBWMA, Newbury - Bo Zaremba
8/27 1 Pochet Island, Orleans - Wayne Petersen+Carl Goodrich
10/12 1 Cummington - Barbara Spencer

Mourning Cloak

- 3/14 1 Tisbury - Matt Pelikan
3/18 1 Brooks Estate, Medford - Renee LaFontaine
3/23 1 Nahant - Linda Pivacek
3/23 1 Hadley - Chris Gentes
3/24 1 Worcester - Martha Gach
3/24 1 Signal Hill, Canton - Russ Hopping
4/2 1 Vineyard Haven - Allan Keith
4/8 1 BFD, Hubbardston - Bart Kamp
4/10 1 Westwood - Seth Sweet
4/10 1 Ipswich - Jim Berry
4/10 1 Long Hill TTOR, Beverly - Russ Hopping
4/13 2 Nomans Island, Chilmark - Allan Keith
4/16 5 Mount Tom State Res. - Frank Model
4/19 1 Wellfleet Bay Ws, Wellfleet - Dan Berard
4/20 1 Whately - Bill Benner
4/20 1 Hawley - M.Lynch+S.Carroll
4/21 2 Oxbow NWR, Harvard - Wendy Miller
4/21 4 HPM, Woburn - Renee LaFontaine
4/23 1 Squibnocket, Chilmark - Allan Keith
4/26 3 Pratt Hill, Upton - Tom Dodd
5/7 1 Nahant - Linda Pivacek
5/14 2 Oxbow NWR, Harvard - Frank Model

- 5/30 3 Mount Greylock - F.Model+E.Nielsen
6/8 1 Dighton PL - MBC (Lauren Miller)
6/10 1 Barry Yard, Paxton - Elise Barry
6/11 1 Windsor - Tom Gagnon
6/21 2 Tyringham - M.Lynch+S.Carroll
7/27 2 Gloucester - Susan Hedman
9/11 8 Chappaquidic, Edgartown - Allan Keith
9/13 2 AP Allens Neck, Dartmouth - Lauren Miller #
9/20 2 Ipswich - Jim Berry
9/21 2 W Meadows, Northampton - MBC (Tom Gagnon)
10/1 3 Edgartown - Matt Pelikan
10/7 5 Horseneck Beach, Westport - Tom+Cathy Dodd
10/15 1 Nahant - Linda Pivacek
10/20 1 AP Field Station, Dartmouth - Bob Bowker
10/21 1 Vineyard Haven - Matt Pelikan
11/4 1 Cape Ann - Doug Savich
11/4 1 Cambridge - Joe Stichter

Milbert's Tortoiseshell

- 4/19 1 Whately - Bill Benner
5/19 1 Lamson Rd, Foxborough - Madeline Champagne
6/11 2 Florence - Tom Gagnon
6/21 1 Graves Farm, Williamsburg - Jonathan Center
7/6 1 Little's Farm, Newbury - Erik Nielsen
10/20 1 Northampton NABA - Dottie Case #
9/1 1 Royalston - Carl Kamp+Alyce Mayo
9/4 1 Savoy - T.Gagnon+B.Spencer
10/7 1 Savoy - T.Gagnon+F.Model

American Lady

- 3/14 1 Wellfleet Bay Ws, Wellfleet - Dan Berard
4/16 1 Truro - Mark Faherty
4/19 1 Squibnocket, Chilmark - Matt Pelikan
4/30 1 Squibnocket, Chilmark - Allan Keith
5/5 1 Lamson Rd, Foxborough - Madeline Champagne
5/5 5 Sherborn PL - Bob Bowker
5/6 4 Stichter Yard, Newbury - Sharon Stichter
5/10 1 Northampton CG - Chris Gentes
5/17 9 MSSF, Plymouth - Erik Nielsen
5/29 9 MV SF - Judy Holland
6/7 12 MBWMA, Newbury - S.+J.Stichter+E.Nielsen
7/4 6 MBWMA, Newbury - Joe Stichter
7/10 5 World's End, Hingham - Bob Bowker
7/19 3 Eastham/Wellfleet - Mark Faherty #
7/30 1 Moore SP, Paxton - Elise Barry
8/9 3 Sherborn PL - MBC(Bob Bowker)
9/13 2 AP Field Station, Dartmouth - Lauren Miller #
9/20 4 Wayland CG - MBC (Erik Nielsen)
10/7 6 Cape Ann - Doug Savich
10/7 6 Gooseberry Neck, Westport - Tom+Cathy Dodd
10/11 21 AP Field Station, Dartmouth - Erik Nielsen
10/12 + Gooseberry Neck, Westport - Frank Model
11/9 1 Westport - M.Lynch+S.Carroll
11/9 2 Gooseberry Neck, Westport - Erik Nielsen

Painted Lady

- 5/25 1 GBH, Canton - Erik Nielsen
5/29 2 Prospect Hill, Waltham - Jason Forbes
5/31 1 Rowden Yard, Leicester - Mark Rowden
6/12 2 Millennium Park, Roxbury - Bob Bowker
6/12 1 Boxford - Jim Berry
7/3 2 MHF, Sharon - M.Champagne+B.Cassie
7/6 2 MBWMA, Newbury - Sharon Stichter #
7/10 2 World's End, Hingham - Bob Bowker
7/14 1 Saffarewich Yard, Newbury - Dorothy Saffarewich
7/27 2 Royalston - MBC(Carl Kamp)
9/13 2 AP Allens Neck, Dartmouth - Lauren Miller #
10/8 4 RM, Revere/Saugus - Andrew Birch

10/10 11 Gooseberry Neck, Westport - M. Champagne
10/24 4 Marblehead Neck - Karen Haley
11/1 1 Fresh Pond, Cambridge - Fred Bouchard
11/1 1 Eastern Point, Gloucester - Erik Nielsen
11/4 1 Marblehead - Karen Haley

Red Admiral

4/1 1 Whately - Bill Benner
4/15 1 Ward Res, Andover - Howard Hopple
4/16 1 Stichter Yard, Newbury - Sharon+Joe Stichter
4/18 1 Oak Bluffs - Matt Pelikan
4/19 1 Wellfleet Bay Ws, Wellfleet - Dan Berard
4/20 1 GBH, Canton - Erik Nielsen
4/26 1 Pratt Hill, Upton - Tom Dodd
5/27 3 Plum Island - Rick Heil
6/8 3 MBWMA, Newbury - Bo Zaremba
6/12 1 Hardy Pond, Waltham - Jason Forbes
6/13 1 Westborough WMA - Wendy Miller+Elise Barry
7/2 2 IRWS, Topsfield - Sharon + Joe Stichter
7/11 3 Old Town Hill, Newbury - Sharon+Joe Stichter
7/19 2 Eastham/Wellfleet - Mark Faherty #
10/8 2 Chilmark - Allan Keith
10/12 1 Sylvan Nursery, Westport - Frank Model
10/12 1 Spectacle Island - Tom+Cathy Dodd
10/13 2 Chilmark - Allan Keith
10/15 1 Nahant - Linda Pivacek

Common Buckeye

6/8 1 Dauphinais Park, Grafton - MBC (Wendy Miller)
6/13 1 Upton PL - Tom Dodd
7/5 2 HPM, Woburn - MBC (E.Nielsen)
7/7 2 MBWMA, Newbury - Sharon Stichter
7/9 1 MPRA, W Newbury - Bo Zaremba
7/10 3 World's End, Hingham - Bob Bowker
7/15 1 Saffarewich Yard, Newbury - Dorothy Saffarewich
7/26 1 Vineyard Haven - Matt Pelikan
7/26 1 Royalston - Carl Kamp
8/11 3 Keith Farm, Chilmark - Allan Keith
8/24 1 MHF, Sharon - Madeline Champagne
9/7 1 IRP, N Reading - Ron Hamburger
9/15 1 Cape Ann - Doug Savich
9/20 3 Rumney Marsh, Revere - Andrew Birch
9/20 1 Wenham Canal - Bo Zaremba
9/21 1 Eastern Point, Gloucester - Susan Hedman
10/8 4 W Meadows, Northampton - Tom Gagnon
10/12 15 Gooseberry Neck, Westport - Frank Model
10/12 1 Spectacle Island - Tom+Cathy Dodd
10/27 1 Gooseberry Neck, Westport - M. Champagne
11/7 1 Edgartown - Matt Pelikan

White Admiral

6/11 1 Stichter Yard, Newbury - Joe Stichter
6/12 1 Cooper N.Pasture, NP - Lynette Leka
6/14 12 Hawley - M.Lynch+S.Carroll
6/21 1 MMP, Williamstown - Bo Zaremba
6/21 1 Dunstable - Jason Forbes
7/1 1 Old Town Hill, Newbury - Bo Zaremba
7/12 9 Adams-Windsor - M.Lynch+S.Carroll
8/17 8 Royalston - M.Lynch+S.Carroll
9/4 1 Windsor - T.Gagnon+B.Spencer
9/4 3 Savoy - T.Gagnon+B.Spencer

Red-spotted Purple

5/30 1 Milford PL - Bob Bowker
6/2 1 Middleton - Jim Berry
6/8 3 N Andover - Jim Berry
6/9 4 Ipswich - Jim Berry
6/11 2 Moore SP, Paxton - Elise Barry
6/14 16 Hawley - M.Lynch+S.Carroll

7/12 2 Adams-Windsor - M.Lynch+S.Carroll
7/26 3 GBH, Canton - Erik Nielsen
8/5 2 Rocky Narrows, Sherborn - Bob Bowker
8/17 10 Royalston - M.Lynch+S.Carroll
9/1 4 Royalston - Carl Kamp+Alyce Mayo
9/4 1 Savoy - T.Gagnon+B.Spencer
9/7 1 Wayland CG - Erik Nielsen
9/8 1 Edgartown - Allan Keith
9/16 1 Saffarewich Yard, Newbury - Dorothy Saffarewich
9/24 1 Tisbury - Matt Pelikan

Viceroy

5/28 1 Burlington - R.Lafontaine+M.Rines
5/29 2 Sherborn PL - Bob Bowker
5/29 1 Baseball Field, Rowley - Sharon+Joe Stichter
5/30 1 E Longmeadow - Karen Parker
6/1 2 Ipswich - Jim Berry
6/3 4or5 Westborough WMA - Barbara Volkle
6/8 3 Dighton PL - MBC (Lauren Miller)
6/8 7 Dauphinais Park, Grafton - MBC (Wendy Miller)
6/19 1 Middleton - Jim Berry
6/21 1 Tyringham - M.Lynch+S.Carroll
7/16 1 Williamstown - Bo Zaremba
7/20 11 Milford PL - Erik Nielsen
7/22 5 MBWMA, Newbury - Sharon + Joe Stichter
8/24 9 MBWMA, Newbury - Sharon+Joe Stichter
8/26 3 BMB WS, Worcester - Martha Gach #
9/1 1 Royalston - Carl Kamp+Alyce Mayo
9/3 7 Blackstone River SP, Uxbridge - Bob Bowker
9/20 7 Groton PL - Tom Murray
9/21 3 W Meadows, Northampton - MBC (Tom Gagnon)
10/3 1 Sylvan Nursery, Westport - Lauren Miller
10/8 1 W Meadows, Northampton - Tom Gagnon
10/11 1 AP Allens Neck, Dartmouth - Erik Nielsen

Hackberry Emperor

8/5 2 Forest Park, Springfield - Tom Gagnon
8/17 6 Forest Park, Springfield - MBC (Gagnon+Parker)

Tawny Emperor

7/11 1 S Berkshire NABA - Rene Laubach #
7/20 3 Northampton NABA - Dottie Case #
7/25 2 Northampton CG - Tom Gagnon
8/5 1 Forest Park, Springfield - Tom Gagnon

Northern Pearly-Eye

7/6 6 N Worcester NABA - Carl Kamp #
7/7 2 N Quabbin - Tom Gagnone
7/11 3 S Berkshire NABA - Rene Laubach #
7/12 1 E Longmeadow - Karen Parker
7/12 3 Adams-Windsor - M.Lynch+S.Carroll
7/12 1 MPRA, W Newbury - Linda Hunnewell
7/13 1 Blackstone Valley NABA - Tom Dodd #
7/16 1 Williamstown - Bo Zaremba
8/1 1 MCP, Burlington/Woburn - Bob Bowker
8/13 1 Moore SP, Paxton - Elise Barry

Eyed Brown

6/20 4 MBWMA, Newbury - Joe Stichter
6/28 3 Tom Swamp, Petersham - Erik Nielsen
7/6 3 N Worcester NABA - Carl Kamp #
7/11 4 S Berkshire NABA - Rene Laubach #
7/12 6 Concord NABA - Dick Walton #
7/13 5 Blackstone Valley NABA - Tom Dodd #
7/19 5 C Berkshire NABA - Tom Tynning #
7/27 2 Gates 35-39, Quabbin - M.Lynch+S.Carroll
8/5 1 Rocky Narrows, Sherborn - Bob Bowker
8/8 1 Sherborn Gas Line - Bob Bowker
8/17 3 FS WMA, Longmeadow - MBC (Gagnon+Parker)

8/23 1 Ware River Watershed - M.Lynch+S.Carroll

Appalachian Brown

5/26 1 Lamson Rd, Foxborough - Madeline Champagne
6/11 1 Moshup's Trail, Aquinnah - Allan Keith
6/20 3 Rocky Narrows, Sherborn - Bob Bowker
7/6 13 IRWS, Topsfield - Sharon Stichter #
7/7 1 N Quabbin - Tom Gagnon
7/9 2 Westborough WMA - Wendy Miller#
7/11 9 Sherborn PL - Bob Bowker
7/19 2 Met State, Waltham - Jason Forbes
7/19 4 W Tisbury - Allan Keith
7/27 1 Gates 35-39, Quabbin - M.Lynch+S.Carroll
7/30 30 Sherborn Gas Line - Bob Bowker
8/17 31 FS WMA, Longmeadow - MBC
(Gagnon+Parker)
8/23 1 Milford PL - Bob Bowker
8/24 4 Assabet River NWR - Jason Forbes

Little Wood-Satyr

5/26 1 E Longmeadow - Karen Parker
5/27 15 Met State, Waltham - Jason Forbes
5/29 5 Sherborn PL - Bob Bowker
5/29 2 Noanet Woodlands Res, Dover - Russ Hopping
5/29 4 Lamson Rd, Foxborough - Madeline Champagne
5/30 4 E Longmeadow - Karen Parker
5/31 8 Cooper N.Pasture, NP - Lynette Leka
6/3 66 Lamson Rd, Foxborough - Madeline Champagne
6/7 14 E Longmeadow - Karen Parker
6/7 150 MBWMA, Newbury - S.+J.Stichter+E.Nielsen
6/20 Waltham - Jason Forbes
6/8 30 Dighton PL - MBC (Lauren Miller)
6/8 26 Dauphinais Park, Grafton - MBC (Wendy Miller)
6/8 12 Cooper N.Pasture, NP - Lynette Leka
6/9 5 Dunstable - Jason Forbes
6/10 Hundreds WRR, W Tisbury - Matt Pelikan
6/12 3 Boxford - Jim Berry
6/13 10 Met State, Waltham - Jason Forbes
6/16 10 Oak St. PL, Shrewsbury - Wendy Miller
6/21 13 MMP, Williamstown - Bo Zarembo
6/29 12 E Longmeadow - Karen Parker
7/3 6 Maudslay SP, NP - Sharon + Joe Stichter
7/4 20 MBWMA, Newbury - Joe Stichter
7/5 34 MCP, Burlington/Woburn - MBC (E.Nielsen)
7/5 10 F&G Fields, Westborough - S.Moore+B.Volkle
7/7 8 Cape Ann - Doug Savich
7/10 5 World's End, Hingham - Bob Bowker
7/11 6 Wellfleet Bay Ws, Wellfleet - Mark Faherty
7/13 53 E Longmeadow - Karen Parker
7/20 4 Rowden Yard, Leicester - Mark Rowden
7/27 15 E Longmeadow - Karen Parker
7/31 2 Rowden Yard, Leicester - Mark Rowden
8/3 1 MCP, Burlington/Woburn - Erik Nielsen
8/10 1 E Longmeadow - Karen Parker

Common Ringlet

5/20 5 CRP TTOR, Needham - Bob Bowker
5/25 1 Petersham - MBC (Tom Gagnon)
5/27 1 E Longmeadow - Karen Parker
5/28 35 Maudslay SP, NP - Bo Zarembo
5/28 17 Florence - Tom Gagnon #
5/28 8 Moore SP, Paxton - Elise Barry
5/30 19 George L Darey WMA, Lenox -
F.Model+E.Nielsen
5/30 31 Punkatasset, Concord - Tom Whelan
6/1 30+ St. Anne's Fields, Lincoln - Jason Forbes
6/1 30 Lincoln - Jason Forbes

6/8 400+ MHF, Sharon - Erik Nielsen
6/8 31 Dauphinais Park, Grafton - MBC (Wendy Miller)
6/8 100 Ffolliott's Farm, Ipswich - Sharon Stichter #
6/10 180 Surrenden Farm, Groton - Tom Murray
6/11 314 Moore SP, Paxton - Elise Barry
6/12 21 Cape Ann - Doug Savich
6/12 19 Millenium Park, Roxbury - Bob Bowker
6/14 33 Hawley - M.Lynch+S.Carroll
6/21 11 MMP, Williamstown - Bo Zarembo
7/28 11 CRP TTOR, Needham - Bob Bowker
8/14 6 Baseball Field, Rowley - Sharon Stichter
8/21 60 Moore SP, Paxton - Elise Barry
8/26 6 Water Tower PL, NP - Sharon Stichter
9/1 12 Royalston - Carl Kamp+Alyce Mayo
9/4 52 Windsor - T.Gagnon+B.Spencer
9/7 1 Millbury PL - Dolores Price
9/7 2 Northampton CG - MBC(Tom Gagnon)

Common Wood-Nymph

7/2 1 MHF, Sharon - Madeline Champagne
7/5 6 MMP, Williamstown - Pam Weatherbee
7/6 7 Maudslay SP, NP - Bo Zarembo
7/6 1 Pittsfield SF - Sue Hennessy
7/10 59 World's End, Hingham - Bob Bowker
7/11 390 S Berkshire NABA - Rene Laubach #
7/12 3 Manchester - Jim Berry
7/18 20 Graves Farm, Williamsburg - MBC (Bill Benner)
7/21 20+ Chappaquidic, Edgartown - Allan Keith
7/26 13 Crane Pond WMA - Sharon + Joe Stichter
7/26 48 Leicester - Dolores Price #
7/26 14 E Longmeadow - Karen Parker
8/1 33 MCP, Burlington/Woburn - Bob Bowker
8/3 50 Waring Field, Rockport - MBC (Doug Savich)
8/8 25 S-C TTOR, N Andover - Russ Hopping
8/10 15 MMP, Williamstown - Pam Weatherbee
8/13 19 Moore SP, Paxton - Elise Barry
8/15 25 Ipswich - Jim Berry
8/21 35 Stichter Yard, Newbury - Sharon Stichter
9/3 4 Blackstone River SP, Uxbridge - Bob Bowker
9/4 1 Windsor - T.Gagnon+B.Spencer
9/7 1 Tower Hill, Boylston - Wendy Miller
9/13 1 AP Allens Neck, Dartmouth - Lauren Miller #
9/15 1 Moore SP, Paxton - Elise Barry
9/15 1 Cape Ann - Doug Savich

Monarch

5/25 2 MHF, Sharon - Madeline Champagne
5/27 3 Plum Island - Rick Heil
5/28 1 Weir Hill Res, N Andover - Howard Hoople
5/29 1 W Bridgewater - Don Adams
5/30 1 Keith Farm, Chilmark - Allan Keith
5/30 1 Mount Greylock - F.Model+E.Nielsen
5/31 1 Cape Ann - Doug Savich
6/3 5 MHF, Sharon - Madeline Champagne
6/9 3 Dunstable - Jason Forbes
6/10 2 Rowden Yard, Leicester - Mark Rowden
6/11 3 Moore SP, Paxton - Elise Barry
6/21 3 MMP, Williamstown - Bo Zarembo
7/2 9 Ipswich - Jim Berry
7/18 25 Graves Farm, Williamsburg - MBC (Bill Benner)
7/25 8 Stichter Yard, Newbury - Sharon+Joe Stichter
7/26 10 Leicester - Dolores Price #
7/27 18 Royalston - MBC(Carl Kamp)
7/28 11 CRP TTOR, Needham - Bob Bowker
7/30 18 Moore SP, Paxton - Elise Barry
8/9 12 Northampton CG - Bill Benner#
8/13 24 Moore SP, Paxton - Elise Barry
8/17 17 FS WMA, Longmeadow - MBC

(Gagnon+Parker)

8/21 26 Moore SP, Paxton - Elise Barry
8/22 21 AP Field Station, Dartmouth - M. Champagne
8/24 52 AP Allens Neck, Dartmouth - Erik Nielsen
9/1 10+ Katama, Edgartown - Allan Keith
9/11 15 Nelson Island, Rowley - joe stichter
9/15 35 Northampton CG - Steve Moore#
9/17 36 Paxton Ball Fields - Elise Barry
9/21 33 Cape Ann - Doug Savich
10/4 70 Plum Island - Fred Bouchard
10/5 90 Gooseberry Neck, Westport -
R.Stymeist+J.Trimble
10/7 100 Eastern Point, Gloucester - Fran Ludwig
10/10 355 Gooseberry Neck, Westport - M. Champagne
10/12 333 Spectacle Island - Tom+Cathy Dodd
10/12 106 Gooseberry Neck, Westport -
M.Lynch+S.Carroll
10/24 7 Marblehead Neck - Karen Haley
10/26 1 Cheshire - M.Lynch+S.Carroll
10/27 24 Gooseberry Neck, Westport - M. Champagne
11/4 1 Marblehead - Karen Haley
11/9 2 Gooseberry Neck, Westport - Erik Nielsen

Silver-spotted Skipper

5/26 1 Florence - Tom Gagnon
5/30 2 Quabbin - Tom Gagnon #
6/1 1 Acton - Jason Forbes
6/1 1 Ipswich - Jim Berry
6/13 8 Westborough WMA - Wendy Miller+Elise Barry
6/27 25 Cape Ann - Doug Savich
7/1 7 Old Town Hill, Newbury - Bo Zaremba
7/6 19 MBWMA, Newbury - Sharon Stichter #
7/6 20 Old Town Hill, Newbury - Erik Nielsen
7/15 10 Cape Ann - Doug Savich
7/18 10 Graves Farm, Williamsburg - MBC (Bill Benner)
7/26 60 Leicester - Dolores Price #
7/29 6 Northampton CG - Tom Gagnon
8/1 7 MCP, Burlington/Woburn - Bob Bowker
8/17 7 FS WMA, Longmeadow - MBC (Gagnon+Parker)
8/31 1 AP Field Station, Dartmouth - M. Champagne
9/14 1 E Longmeadow - Karen Parker
9/15 2 Northampton CG - Steve Moore#
9/21 3 Cape Ann - Doug Savich

Long-tailed Skipper

8/31 1 Falmouth - Rebecca Lash
9/13 1 Sylvan Nursery, Westport - Erik Nielsen #
9/17 1 AP Field Station, Dartmouth - Madeline Champagne
9/21 1 Saffarewich Yard, Newbury - Dorothy Saffarewich
9/29 1 Nahant - Janet LeBlanc
10/4 1 Sylvan Nursery, Westport -
F.Model+M.Champagne
10/11 1 Harwich - Lawrence Barry
10/11 1 Woods Hole - Alison Robb
10/12 1 Gooseberry Neck, Westport - M.Lynch+S.Carroll

Hoary Edge

6/19 1 HPM, Woburn - Renee LaFontaine
6/20 2 GBH, Canton - Madeline Champagne
6/20 1 Rocky Narrows, Sherborn - Bob Bowker
6/25 2 Prospect Hill, Waltham - Jason Forbes
6/29 5 GBH, Canton - Erik Nielsen
7/8 1 C Franklin NABA - Mark Fairbrother #
7/13 3 Blackstone Valley NABA - Tom Dodd #
7/30 1 Doyle Res. TTOR, Leominster - Russ Hopping

Southern Cloudywing

6/16 1 Oak St. PL, Shrewsbury - Wendy Miller
6/19 1 Sherborn PL - Bob Bowker

6/27 1 Arched Bridge, Dunstable - Jason Forbes
6/27 1 HPM, Woburn - Renee LaFontaine
7/10 2 Norfolk - Madeline Champagne
7/11 1 S Berkshire NABA - Rene Laubach #
7/12 2 Concord NABA - Dick Walton #

Northern Cloudywing

5/29 2 Sherborn PL - Bob Bowker
5/29 3 Noanet Woodlands Res., Dover - Russ Hopping
6/8 10 Dauphinais Park, Grafton - MBC (Wendy Miller)
6/8 1 Dighton PL - MBC (Lauren Miller)
6/11 4 Moore SP, Paxton - Elise Barry
6/12 1 Millenium Park, Roxbury - Bob Bowker
6/21 2 MMP, Williamstown - Bo Zaremba
6/21 3 MBWMA, Newbury - Sharon Stichter #
6/25 3 MHF, Sharon - Madeline Champagne
6/27 1 Arched Bridge, Dunstable - Jason Forbes
7/6 7 N Worcester NABA - Carl Kamp #
7/8 1 C Franklin NABA - Mark Fairbrother #
8/5 1 Rocky Narrows, Sherborn - Bob Bowker

Dreamy Duskywing

5/5 3 Westfield - T.Gagnon+B.Callahan
5/11 1 FPB, Acton/Concord - Erik Nielsen
5/18 1 MBWMA, Newbury - Sharon+Joe Stichter
5/20 2 NCM, Petersham - Sue+Ron Cloutier
5/21 2 Lamson Rd, Foxborough - Madeline Champagne
5/25 5 Prospect Hill, Waltham - Jason Forbes
5/24 2 MSSF, Plymouth - MBC(Murray+Nielsen)
5/25 3 Stage Rd PL, Chelmsford - Tom Whelan
5/27 1 Cape Ann - Doug Savich
5/30 3 George L Darey WMA, Lenox -
F.Model+E.Nielsen
6/8 2 Dauphinais Park, Grafton - MBC (Wendy Miller)
6/22 1 MBWMA, Newbury - Sharon Stichter #
7/7 1 Cummington - Barbara Spencer

Sleepy Duskywing

5/14 19 MV SF - Matt Pelikan
5/17 49 MSSF, Plymouth - Erik Nielsen
5/23 1 Cape Ann - Doug Savich
5/29 6 MV SF - Judy Holland
5/30 3 Milford PL - Bob Bowker
6/1 6 MSSF, Plymouth - Erik Nielsen

Juvenal's Duskywing

4/18 1 MV SF - Judy Holland
4/23 1 Wellfleet Bay Ws, Wellfleet - Mark Faherty
4/25 2 Moore SP, Paxton - Elise Barry
4/25 1 Sherborn PL - Bob Bowker
4/26 1 Pratt Hill, Upton - Tom Dodd
5/1 2 Lamson Rd, Foxborough - Madeline Champagne
5/1 1 Holliston - Richard Hildreth
5/5 5 Sherborn PL - Bob Bowker
5/13 20+ MBWMA, Newbury - Bo Zaremba
5/14 46 Quabbin - Tom Gagnon
5/14 14 MV SF - Matt Pelikan
5/14 22 Cape Ann - Doug Savich
5/17 43 MSSF, Plymouth - Erik Nielsen
5/17 137 Gates 35-39, Quabbin - M.Lynch+S.Carroll
5/18 20 MBWMA, Newbury - Sharon+Joe Stichter
5/20 20 Cape Ann - Doug Savich
5/21 15 Prospect Hill, Waltham - Jason Forbes
5/25 17 Petersham - MBC (Tom Gagnon)
5/29 7 MV SF - Judy Holland
5/29 7 Noanet Woodlands Res., Dover - Russ Hopping
6/1 26 MBWMA, Newbury - Bo Zaremba
6/4 4 Heritage SP, Blackstone - Bob Bowker
6/11 9 Moore SP, Paxton - Elise Barry

6/13 2 Westborough WMA - Wendy Miller+Elise Barry
6/13 2 Met State, Waltham - Jason Forbes
6/14 1 Cooper N.Pasture, NP - S.Stichter+L.Leka
6/16 1 Oak St. PL, Shrewsbury - Wendy Miller
6/18 1 MBWMA, Newbury - Sharon Stichter

Horace's Duskywing

5/11 2 Sherborn PL - Bob Bowker
5/18 1 GBH, Canton - Erik Nielsen
5/24 6 MSSF, Plymouth - MBC(Murray+Nielsen)
7/13 1 Blackstone Valley NABA - Tom Dodd #
7/19 2 Bristol NABA - Mark Mello #
7/19 2 MV NABA - Matt Pelikan #
7/21 1 MSSF, Plymouth - Mark Faherty
7/26 12 GBH, Canton - Erik Nielsen
8/1 2 MCP, Burlington/Woburn - Bob Bowker
8/20 2 Sherborn PL - Bob Bowker
8/28 1 Northampton CG - Tom Gagnon
9/3 1 Blackstone River SP, Uxbridge - Bob Bowker

Wild Indigo Duskywing

5/11 2 Sherborn PL - Bob Bowker
5/17 2 MSSF, Plymouth - Erik Nielsen
5/21 1 Lamson Rd, Foxborough - Madeline Champagne
5/29 2 Baseball Field, Rowley - Sharon+Joe Stichter
5/29 1 Lamson Rd, Foxborough - Madeline Champagne
5/29 1 Prospect Hill, Waltham - Jason Forbes
5/30 2 Milford PL - Bob Bowker
6/7 4 MBWMA, Newbury - Sharon Stichter #
6/8 5 Dighton PL - MBC (Lauren Miller)
7/13 4 HPM, Woburn - S.Moore+B.Volkle
7/21 5 MSSF, Plymouth - Mark Faherty
7/22 32 MBWMA, Newbury - Sharon+Joe Stichter
7/29 36 Powerline, Boxford - Sharon + Joe Stichter
8/2 13 GBH, Canton - Erik Nielsen
8/24 3 MHF, Sharon - Madeline Champagne
9/21 2 Northampton CG - MBC (Tom Gagnon)
10/10 1 Millenium Park, Roxbury - Bob Bowker
10/11 1 Rockport - Ed Jylkka
10/17 1 Belmont - Fred Bouchard

Common Checkered-Skipper

9/7 1 Northampton CG - MBC(Tom Gagnon)

Common Sootywing

5/17 2 Gates 35-39, Quabbin - M.Lynch+S.Carroll
5/18 1 Surrenden Farm, Groton - Tom Murray
5/28 2 Florence - Tom Gagnon #
5/29 1 Sherborn PL - Bob Bowker
6/1 3 Florence - MBC (Tom Gagnon)
6/8 2 Dauphinais Park, Grafton - MBC (Wendy Miller)
6/12 4 Stichter Yard, Newbury - Sharon+Joe Stichter
6/16 1 Wayland CG - Madeline Champagne
7/20 46 Northampton NABA - Dottie Case #
7/26 1 Zaremba Yard, NP - Bo Zaremba
7/29 8 Northampton CG - Tom Gagnon
8/7 1 N Andover - Russ Hopping
8/9 6 Northampton CG - Bill Benner#
8/13 4 Stichter Yard, Newbury - Sharon Stichter
8/13 1 Barry Yard, Paxton - Elise Barry
8/17 1 FS WMA, Longmeadow - MBC (Gagnon+Parker)
9/1 1 Stocum River Preserve, Dartmouth - Erik Nielsen
9/3 2 Blackstone River SP, Uxbridge - Bob Bowker
9/7 1 Brewster PL - Fred Bouchard
9/15 1 Northampton CG - Steve Moore#

Arctic Skipper

6/11 116 Windsor - Tom Gagnon
6/14 1 Hawley - M.Lynch+S.Carroll

6/21 1 Moran WMA, Windsor - Jonathan Center

Least Skipper

6/1 3 Juniper Hill, Lexington - Tom Whelan
6/9 1 Dunstable - Jason Forbes
6/10 2 Surrenden Farm, Groton - Tom Murray
6/11 3 Keith Farm, Chilmark - Allan Keith
6/12 2 Millenium Park, Roxbury - Bob Bowker
6/21 4 Dunstable - Jason Forbes
7/6 5 Maudslay SP, NP - Bo Zaremba
8/3 1 Tyngsborough - Jason Forbes
8/9 11 Northampton CG - Bill Benner#
8/10 4 Stichter Yard, Newbury - Sharon Stichter
8/17 11 FS WMA, Longmeadow - MBC (Gagnon+Parker)
8/22 13 AP Field Station, Dartmouth M. Champagne
9/1 7 Stocum River Preserve, Dartmouth - Erik Nielsen
9/13 2 AP Field Station, Dartmouth - Lauren Miller #
9/20 3 Wenham Canal - Bo Zaremba
9/20 1 NAC, Concord - MBC (Erik Nielsen)
9/20 5 Wayland CG - MBC (Erik Nielsen)
10/4 1 Keith Farm, Chilmark - Allan Keith
10/12 1 Town Farm TTOR, Westport - M.Lynch+S.Carroll

European Skipper

6/8 3 Dauphinais Park, Grafton - MBC (Wendy Miller)
6/10 6 Surrenden Farm, Groton - Tom Murray
6/11 6 Moore SP, Paxton - Elise Barry
6/12 30 Millenium Park, Roxbury - Bob Bowker
6/14 2 Hawley - M.Lynch+S.Carroll
6/17 240 CRF TTOR, Needham - Bob Bowker
6/18 430+ MHF, Sharon - Madeline Champagne
6/20 177+ GBH, Canton - Madeline Champagne
6/21 250+ MMP, Williamstown - Bo Zaremba
6/21 1 Dunstable - Jason Forbes
6/25 2-3 IRP, N Reading - Ron Hamburger
6/26 300 S-C TTOR, N Andover - Sharon+Joe Stichter
6/26 120+ Maudslay SP, NP - Bo Zaremba
6/28 1 E Longmeadow - Karen Parker
7/1 35+ Old Town Hill, Newbury - Bo Zaremba
7/6 1289 N Worcester NABA - Carl Kamp #
7/11 1 Rumney Marsh, Revere - Andrew Birch
7/12 14 N Berkshire NABA - Tom Tynning #
7/16 2 Falmouth NABA - Alison Robb #
7/19 18 C Berkshire NABA - Tom Tynning #
7/20 1 Northampton NABA - Dottie Case #

Fiery Skipper

7/25 1 New Salem - Frank Model
7/28 1m Westwood - Erik Nielsen
8/28 1 Northampton CG - Tom Gagnon
9/7 1m IRP, N Reading - Ron Hamburger
9/10 2 Northampton CG - Tom Gagnon
9/13 1 Boston Nature Center - Andrew Birch
9/13 1 Sylvan Nursery, Westport - Erik Nielsen #
9/13 3 Cape Ann - Doug Savich
9/15 3m+1f Northampton CG - Steve Moore#
9/17 3 UMass Fields, Waltham - Jason Forbes
9/17 2m+1f Waltham CG - Jason Forbes
10/12 1f Stichter Yard, Newbury - Sharon Stichter
10/15 1 AP Field Station, Dartmouth - Bob Bowker #

Leonard's Skipper

8/31 5 Sherborn PL - Bob Bowker
9/3 1 Blackstone River SP, Uxbridge - Bob Bowker
9/7 4 Millbury PL - Dolores Price

Cobweb Skipper

5/14 1 N Quabbin - Sue+Ron Cloutier
5/14 1 MV SF - Matt Pelikan
5/18 1 GBH, Canton - Erik Nielsen
5/21 41 Florence - Tom Gagnon
5/25 1 MHF, Sharon - Madeline Champagne
5/25 1 Hale Res, Westwood - Erik Nielsen
5/25 1 Petersham - MBC (Tom Gagnon)
5/26 34 Florence - Tom Gagnon
5/29 6 MV SF - Judy Holland
6/1 4 Florence - MBC (Tom Gagnon)

Indian Skipper

5/20 1 NCM, Petersham - Sue+Ron Cloutier
5/28 2 Paine Estate, Waltham - Jason Forbes
5/28 10 Florence - Tom Gagnon #
5/29 4 Sherborn PL - Bob Bowker
5/30 2 Milford PL - Bob Bowker
5/31 1 Northborough - S. Moore+B.Volkle
6/1 9 Florence - MBC (Tom Gagnon)
6/1 1 MSSF, Plymouth - Erik Nielsen
6/8 1 MBWMA, Newbury - Bo Zaremba
7/11 1 Old Town Hill, Newbury - Sharon + Joe Stichter

Peck's Skipper

5/25 3 Stage Rd PL, Chelmsford - Tom Whelan
5/27 2 E Longmeadow - Karen Parker
5/28 1 Florence - Tom Gagnon #
5/29 2 W Tisbury - Judy Holland
5/29 5 Sherborn PL - Bob Bowker
6/1 10 Florence - MBC (Tom Gagnon)
6/2 15 S-C TTOR, N Andover - Sharon Stichter #
6/8 58 MHF, Sharon - Erik Nielsen
6/8 13 Dauphinis Park, Grafton - MBC (Wendy Miller)
6/11 22 Cooper N. Pasture, NP - Sharon Stichter
6/12 18 Millenium Park, Roxbury - Bob Bowker
6/13 35 Westborough WMA - Wendy Miller+Elise Barry
6/19 18 Sherborn PL - Bob Bowker
7/30 14 Stichter Yard, Newbury - Sharon Stichter
8/1 12 MCP, Burlington/Woburn - Bob Bowker
8/5 14 E Longmeadow - Karen Parker
8/8 27 Sherborn Gas Line - Bob Bowker
9/13 4 AP Field Station, Dartmouth - Lauren Miller #
9/14 1 E Longmeadow - Karen Parker
9/15 2 Cape Ann - Doug Savich
9/15 1 Moore SP, Paxton - Elise Barry
9/15 1 Northampton CG - Steve Moore#
9/17 1 Stichter Yard, Newbury - Sharon Stichter
9/20 2 Wayland CG - MBC (Erik Nielsen)
9/21 1 GBH, Canton - Erik Nielsen

Tawny-edged Skipper

5/21 1 Florence - Tom Gagnon
5/31 2 E Longmeadow - Karen Parker
6/1 1 Holliston CA - Bob Bowker
6/8 1 Dighton PL - MBC (Lauren Miller Donnelly)
6/8 9 MHF, Sharon - Erik Nielsen
6/10 2 Surrenden Farm, Groton - Tom Murray
7/29 6 Little's Farm, Newbury - Bo Zaremba
8/7 17 Wompesket, W Tisbury - Matt Pelikan
8/14 3 Baseball Field, Rowley - Sharon Stichter
8/17 3 Northampton CG - Tom Gagnon#
8/23 3 Milford PL - Bob Bowker
8/24 1 MBWMA, Newbury - Sharon+Joe Stichter
9/1 1 E Longmeadow - Karen Parker
9/1 1 AP Allens Neck, Dartmouth - Erik Nielsen
9/15 1 Northampton CG - Steve Moore#

Crossline Skipper

6/10 1 WRR, W Tisbury - Matt Pelikan
6/26 1 Maudslay SP, NP - Bo Zaremba
7/1 2 Old Town Hill, Newbury - Bo Zaremba
7/4 1 Stichter Yard, Newbury - Sharon Stichter
7/5 1 HPM, Woburn - MBC (E.Nielsen)
7/6 1 Maudslay SP, NP - Bo Zaremba
7/13 10 Blackstone Valley NABA - Tom Dodd #
7/19 11 MV NABA - Matt Pelikan #
7/19 4 Eastham/Wellfleet - Mark Faherty #
7/19 2 C Berkshire NABA - Tom Tynning #
7/20 8 E Longmeadow - Karen Parker
7/26 1 GBH, Canton - Erik Nielsen
8/10 1 E Longmeadow - Karen Parker

Long Dash

6/1 2 Florence - MBC (Tom Gagnon)
6/2 1 Met State, Waltham - Jason Forbes
6/7 3 MBWMA, Newbury - Sharon Stichter #
6/7 5 Waltham - Jason Forbes
6/8 50 Ffolliott's Farm, Ipswich - Sharon Stichter #
6/8 2 Dauphinis Park, Grafton - MBC (Wendy Miller)
6/8 2 MHF, Sharon - Erik Nielsen
6/8 1 Dighton PL - MBC (Lauren Miller)
6/10 5 Surrenden Farm, Groton - Tom Murray
6/11 3 Moore SP, Paxton - Elise Barry
6/14 3 Cape Ann - Doug Savich
6/21 7 MBWMA, Newbury - Sharon Stichter #
7/8 2 C Franklin NABA - Mark Fairbrother #
7/11 1 S Berkshire NABA - Rene Laubach #
7/11 1 Wellfleet Bay Ws, Wellfleet - Mark Faherty
9/19 1 Tisbury - Matt Pelikan

Northern Broken-Dash

6/20 1 MPRA, W Newbury - Sharon+Joe Stichter
7/3 1 MHF, Sharon - M.Champagne+B.Cassie
7/6 5 MBWMA, Newbury - Sharon Stichter #
7/10 2 World's End, Hingham - Bob Bowker
7/18 50+ Graves Farm, Williamsburg - MBC (B. Benner)
7/19 12 Bristol NABA - Mark Mello #
7/19 30 Brewster NABA - Alison Robb #
7/19 37 C Berkshire NABA - Tom Tynning #
7/20 14 CST, Marl/Northborough - MBC
(S.Moore+B.Volkle)
7/26 15+ Whately - Bill Benner
7/30 3 Moore SP, Paxton - Elise Barry
8/1 17 MCP, Burlington/Woburn - Bob Bowker
8/2 6 GBH, Canton - Erik Nielsen
8/4 3 Stichter Yard, Newbury - Sharon Stichter
8/20 4 Sherborn PL - Bob Bowker
8/22 1 AP Field Station, Dartmouth - M. Champagne
8/23 1 Oak St. PL, Shrewsbury - S.Moore+B.Volkle
8/23 5 Milford PL - Bob Bowker
8/26 2 BMB WS, Worcester - Martha Gach #

Little Glassywing

6/28 2 E Longmeadow - Karen Parker
6/29 1 GBH, Canton - Erik Nielsen
7/3 4 MHF, Sharon - M.Champagne+B.Cassie
7/4 3 MPRA, W Newbury - Bo Zaremba
7/6 19 Old Town Hill, Newbury - Erik Nielsen
7/6 11 Maudslay SP, NP - Bo Zaremba
7/8 1 Saffarewich Yard, Newbury - Dorothy Saffarewich
7/9 1 Westborough WMA - Wendy Miller#
7/12 8 Concord NABA - Dick Walton #
7/13 26 Blackstone Valley NABA - Tom Dodd #
7/18 1 Graves Farm, Williamsburg - MBC (Bill Benner)
7/30 2 Barry Yard, Paxton - Elise Barry

7/31 1 Saffarewich Yard, Newbury - Dorothy Saffarewich
8/2 2 GBH, Canton - Erik Nielsen
8/13 1 Barry Yard, Paxton - Elise Barry
9/7 1 Northampton CG - MBC (Tom Gagnon)

Sachem

7/26 1 Foxborough - Brian Cassie
10/3 1 Sylvan Nursery, Westport - Lauren Miller
10/4 1 Trade Winds, Oak Bluffs - Matt Pelikan
10/4 12 AP Field Station, Dartmouth -
F.Model+M.Champagne
10/8 2 AP, Dartmouth - Bob Bowker
10/11 2 Slocum River Preserve, Dartmouth - Erik Nielsen
10/11 2 AP Field Station, Dartmouth - Erik Nielsen
10/11 1 Sylvan Nursery, Westport - Erik Nielsen
10/11 1 AP Allens Neck, Dartmouth - Erik Nielsen
10/14 1 AP Field Station, Dartmouth - Bob Bowker #
10/20 1 AP Field Station, Dartmouth - M. Champagne

Delaware Skipper

7/5 1 HPM, Woburn - MBC (E.Nielsen)
7/6 15 N Worcester NABA - Carl Kamp #
7/7 4 MBWMA, Newbury - Sharon Stichter
7/9 1 Westborough WMA - Wendy Miller#
7/12 30 Concord NABA - Dick Walton #
7/12 6 MBWMA, Newbury - Sharon+Joe Stichter
7/13 18 Blackstone Valley NABA - Tom Dodd #
7/18 1 Graves Farm, Williamsburg - MBC (Bill Benner)
7/19 1 North Oxford - Eleanor Solberg
7/19 1 Eastham/Wellfleet - Mark Faherty #
7/20 2 Northampton NABA - Dottie Case #
7/26 1 Whately - Bill Benner
7/27 1 Stichter Yard, Newbury - Sharon Stichter

Mulberry Wing

7/9 7 Westborough WMA - Wendy Miller#
7/10 4 New Salem - Frank Model
7/11 18 Sherborn PL - Bob Bowker
7/11 2 S Berkshire NABA - Rene Laubach #
7/12 25 Concord NABA - Dick Walton #
7/13 3 CST, Westborough - S.Moore+B.Volkle
7/13 39 Blackstone Valley NABA - Tom Dodd #
7/20 13 CST, Marl/Northborough - MBC
(S.Moore+B.Volkle)
7/20 5 Northampton NABA - Dottie Case #
7/26 5 Leicester - Dolores Price #
7/30 1 Barry Yard, Paxton - Elise Barry
8/8 3 Sherborn Gas Line - Bob Bowker

Hobomok Skipper

5/25 1 Weir Hill Res, N Andover - Bo Zaremba
5/28 1 E Longmeadow - Karen Parker
5/30 4 Quabbin - Tom Gagnon #
6/2 3 Met State, Waltham - Jason Forbes
6/7 7 or 8 E Longmeadow - Karen Parker
6/10 ~dozen WRR, W Tisbury - Matt Pelikan
6/11 14 MBWMA, Newbury - Bo Zaremba
6/13 25 Westborough WMA - Wendy Miller+Elise Barry
6/14 13 Cooper N.Pasture, NP - S.Stichter+L.Leka
6/19 2 Prospect Hill, Waltham - Jason Forbes
6/25 1 Hawley - M.Lynch+S.Carroll
6/27 1 Amos Kendall, Dunstable - Jason Forbes
7/1 1 Old Town Hill, Newbury - Bo Zaremba
7/12 2 Concord NABA - Dick Walton #
7/12 1 N Berkshire NABA - Tom Tying #

Zabulon Skipper

8/5 2 FS WMA, Longmeadow - Tom Gagnon
8/16 1 E Longmeadow - Karen Parker

8/17 6 FS WMA, Longmeadow - MBC (Gagnon+Parker)
9/13 1 AP Allens Neck, Dartmouth - Lauren Miller #

Broad-winged Skipper

7/11 3 Rumney Marsh, Revere - Andrew Birch
7/12 2 Concord NABA - Dick Walton #
7/13 1 Blackstone Valley NABA - Tom Dodd #
7/15 5 Stichter Yard, Newbury - Sharon Stichter
7/20 13 Milford PL - Erik Nielsen
7/20 17 CST, Marl/Northborough - MBC
(S.Moore+B.Volkle)
7/26 4 Joppa Flats, Newburyport - Sharon+Joe Stichter
7/26 1 Oak Bluffs - Matt Pelikan
7/26 1 Whately - Bill Benner
7/27 1 E Longmeadow - Karen Parker
7/27 33 Harbor GC, Salisbury - Bo Zaremba
7/31 2 Saffarewich Yard, Newbury - Dorothy Saffarewich
8/22 2 AP Field Station, Dartmouth - M. Champagne
8/24 2 AP Allens Neck, Dartmouth - Erik Nielsen
8/26 1 BMB WS, Worcester - Martha Gach #

Black Dash

7/6 2 N Worcester NABA - Carl Kamp #
7/10 2 New Salem - Frank Model
7/11 1 S Berkshire NABA - Rene Laubach #
7/11 27 Sherborn PL - Bob Bowker
7/12 4 Concord NABA - Dick Walton #
7/13 10 Blackstone Valley NABA - Tom Dodd #
7/19 1 Bristol Nello #
7/20 5 Northampton NABA - Dottie Case #
7/26 3 Leicester - Dolores Price #
7/26 1 Milford PL - Erik Nielsen
7/30 9 Sherborn Gas Line - Bob Bowker
8/3 1 RR at Babson Museum, Rockport -
MBC (Doug Savich)

Dun Skipper

6/28 1 or 2 E Longmeadow - Karen Parker
7/6 11 N Worcester NABA - Carl Kamp #
7/8 15 C Franklin NABA - Mark Fairbrother #
7/10 1 Norfolk - Madeline Champagne
7/10 1 Keith Farm, Chilmark - Allan Keith
7/10 1 World's End, Hingham - Bob Bowker
7/19 70 C Berkshire NABA - Tom Tying #
7/19 78 MV NABA - Matt Pelikan #
7/19 2 North Oxford - Eleanor Solberg
7/21 4 MSSF, Plymouth - Mark Faherty
7/26 10+ Whately - Bill Benner
7/30 4 Moshup's Trail, Aquinnah - Allan Keith
8/4 3 Stichter Yard, Newbury - Sharon Stichter
8/20 21 Sherborn PL - Bob Bowker
8/23 5 Milford PL - Bob Bowker
8/28 1 Cape Ann - Doug Savich
9/7 1 Brewster PL - Fred Bouchard

Dusted Skipper

5/26 17 Florence - Tom Gagnon
5/27 1 Lamson Rd, Foxborough - Madeline Champagne
5/28 2 Weir Hill Res, N Andover - Howard Hoople
5/28 75 Florence - Tom Gagnon #
5/29 16 MV SF - Judy Holland
5/29 1 Noanet Woodlands Res., Dover - Russ Hopping
5/29 2 Baseball Field, Rowley - Sharon+Joe Stichter
5/30 5 Milford PL - Bob Bowker
6/1 5 MSSF, Plymouth - Erik Nielsen
6/1 1 Acton - Jason Forbes
6/1 8 Juniper Hill, Lexington - Tom Whelan
6/7 19 Lamson Rd, Foxborough - Madeline Champagne
6/8 4 Dauphinus Park, Grafton - MBC (Wendy Miller)

6/8 8 Dighton PL - MBC (Lauren Miller)
6/16 1 Oak St. PL, Shrewsbury - Wendy Miller
6/18 2 MHF, Sharon - Madeline Champagne

Pepper and Salt Skipper

5/25 1 Ponkopaug Bog, Canton - Erik Nielsen
5/26 1 E Longmeadow - Karen Parker
5/29 1 Oxbow NWR, Harvard - Ron Hamburger
6/1 1 Dunback Meadows, Lexington - Jason Forbes
6/1 1 Acton - Jason Forbes
6/2 1 Met State, Waltham - Jason Forbes
6/4 2 Heritage SP, Blackstone - Bob Bowker
6/7 9 E Longmeadow - Karen Parker
6/10 1 Barry Yard, Paxton - Elise Barry
6/13 5 Westborough WMA - Wendy Miller+Elise Barry
6/13 1 Met State, Waltham - Jason Forbes
6/14 1 E Longmeadow - Karen Parker

Abbreviations:

AP – Allens Pond, BMB – Broad Meadow Brook MAS, CG – Community Gardens, CRP – Charles River Peninsula, CST – Crane Swamp Trail, F&G – Fish and Game, FPB – Fort Pond Brook, FS – Fannie Stebbins, GBH – Great Blue Hill, GM – Great Meadows, HPM – Horn Pond Mountain, IRP – Ipswich River Park, IRWS – Ipswich River Wildlife Sanctuary, Little’s Farm – Spencer-Pierce Little Farm, MAS – Mass. Audubon Sanctuary, MB – Martin Burns, MHF – Moose Hill Farm, ML – Mystic Lakes, MMP – Mountain Meadow Preserve, MPRA – Mill Pond Recreational Area, MS – Myles Standish, MV – Martha’s Vineyard, NAC – Nine Acre Corner, NCM – North Common Meadows, NP – Newburyport, NRT – Norwottuck Rail Trail, NWR – National Wildlife Reservation, PL – Power Line, Res. – Reservoir or Reservation, RM – Rumney Marsh, S-C – Stevens-Coolidge, SF – State Forest, SP – State Park, TTOR – The Trustees of Reservations, WMA – Wildlife Management Area, WRR – Waskosim Rock Reservation.



A New Non-native Butterfly in Quebec

The following is excerpted from *Ontario Lepidoptera 2006-2007*, and was brought to our attention by MBC member Richard Hildreth. It is instructive to recall that the Cabbage White was introduced near Quebec City in 1859, and spread rapidly south, and that the first North American record of the European Skipper was at London, Ontario in 1910.

The European Common Blue (*Polyommatus icarus*): A New Alien Butterfly to Canada and North Americaby Peter Hall

“Ara Sarafian wasn’t sure what blue butterfly he was observing in old fields and ditches around where he works at Mirabel Airport north of Montreal, Quebec.After sending images in June 2007 to the Canadian National Collection of Insects in Ottawa, Don Lafontaine identified it as *Polyommatus icarus*, known in England as the Common Blue, and one of the most widespread of European butterflies.

Mr Sarafian had been seeing the butterflies in the area for three years starting in 2005. A number of butterfly specialists, including Ross Layberry, Chris Schmidt, Diane Lepage, Louis Handfield and Peter Hall, as well as Mr. Sarafian, conducted searches around and out from the Mirabel Airport in 2007 and, by October, the alien butterfly had been seen regularly....Some of the sites had dozens of the butterfly in flight.

In its widespread European locations, it feeds regularly as a larva on a variety of legumes, particularly Common Bird’s-foot Trefoil (*Lotus corniculatus*). Many of the major clover and trefoil favorite larval foodplants in Europe are found commonly as alien invasives along roadsides in North America.”