# Massachusetts Butterflies



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Massachusetts Butterflies is the semiannual publication of the Massachusetts Butterfly Club, a chapter of the North American Butterfly Association. Membership in NABA-MBC brings you American Butterflies, Butterfly Gardener, Massachusetts Butterflies, and our spring mailing of field trips, meetings, and NABA Counts in Massachusetts. Regular NABA 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. An "MBC only' membership is \$15, and includes a subscription to Massachusetts Butterflies and all club mailings. Send a check made out to Massachusetts Butterfly Club to our Secretary, address below.

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Cover Photo: Aphrodite Fritillary (Speyeria aphrodite), by Frank Model Tully Dam, Royalston, July 13, 2010



The Rhoda Family, Autumn 2010

# The Club Website Thoughts and Thanks from Your Erstwhile Webmaster

### Dale Rhoda

I first became interested in butterflies while fly-fishing on the White River in Arkansas in 1994. During a lunch break under a shade tree I saw what I first assumed were a couple of leaves twirling to the ground. On closer inspection they were a courting pair of butterflies. I was fascinated first by the single-minded pursuit and then by the languorous liaison that ensued. I realized that I had never *really* looked closely at butterflies before and that they were fascinating. I wrote a poem about that day entitled *The Natural State* (see page 13) and I vowed to learn more. Soon afterward I moved to Texas for a few years, and although I joined NABA and read *American Butterflies* faithfully, I didn't meet other enthusiasts until I returned to Massachusetts and joined the Massachusetts Butterfly Club (MBC) in 1999.

I showed up for my first MBC field trip on 8/7/99 with a brandnew pair of close focus binoculars and a brand-new copy of Glassberg's *Butterflies through Binoculars – The East*. Sharon Stichter was the trip leader and I was the only other attendee. She answered my questions patiently, showed me my first Monarch egg and pointed out the sawing motion of the hindwings of Eastern Tailed-Blues. After our day in the field I renewed my 1994 vow to learn more and thereafter I toted a tattered Glassberg and those trusty binoculars on my work-related travels around the country.

At the MBC's 2002 annual meeting Madeline Champagne announced that the club was looking for a volunteer to take over the website from the fine folks at the Athol Bird and Nature Club. I didn't know anything about creating websites, but I was intrigued. I contacted a knowledgeable friend who assured me that I could learn enough to be effective in short order so I agreed to take it over. At the time, the website was literally one long web page with a single photo of an Eastern Tiger Swallowtail. Jim Springer at NABA helped us move the site to the NABA web server where we have enjoyed free hosting and excellent service registered ever since. We the domain name www.massbutterflies.org in 2003 and before the year was out we introduced a new look with multiple pages, hundreds of butterfly photographs, and bullet lists of species information written by Brian Cassie.

At that time digital photography was starting to become popular in the club and several members graciously shared their digital photos for the site. Fred Goodwin, Marj Rines, and Dave Small in particular, provided many of the photos that I used in the early days; they were followed by the 30+ photographers who are currently credited on the site's Butterfly Photos page.

My wife Kara and I moved to Ohio in late 2003 so I could pursue graduate studies in systems engineering at Ohio State University. In 2004 I redesigned the website based on feedback and input from club members, professors and classmates. A web design professor encouraged me to show butterfly photos on every page and to mix them up rather than show the same images on the same pages all the time. That was the impetus for the 'Can You ID This Butterfly?' box. Others encouraged me to think about the various types of users of the website and to design interactions that would suit their most common tasks. Some users are butterfly novices

who benefit from being able to see photos of every butterfly species on one page so they can match their photo or specimen to the photos on our website without relying on the names. Others are experts who want to navigate the photos taxonomically or by species name without waiting for hundreds of thumbnail photos to be downloaded and displayed. I designed the photo pages so that users can navigate from one species page to any other species page in as few as two clicks and they can narrow their view to a single family or even a genus at a time or they can always go back and look at thumbnail versions of all of the club's photos on one page.

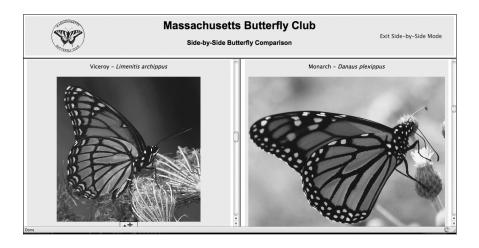
The photos have turned out to be very popular, not only among our own club members, but also with people browsing from other parts of the country and other parts of the world. Although NABA doesn't formally track which websites receive the most "hits", when they have reviewed their webserver logs in a spot-check fashion, the most popular NABA webpage by far has been our club's page that shows photos of individual species.

Rather than rely on static HTML documents to build the site, I built it using some programming building blocks in a language called ASP, or Active Server Pages. Each page runs a program that generates its content on the fly every time it is accessed. Much of the code is re-used across the site. The metadata about each photo, for instance: the photographer, location, species, copyright information, and date are kept in a single location and any page that shows that image, either as part of a species page or part of the butterfly ID quiz, uses a single file to lookup the photo information. The menu at the left side of most of the pages is also re-used across the pages. And the look and feel of the pages, the colors and fonts and layout, are controlled using cascading style sheets, so if we decided to change the default font, we would only need to change it in one location and the change would propagate

across all the pages. I had a lot of fun designing how the pages would look and how the ASP programs would generate them and how we would incorporate new photos over time. Behind the ASP, I have another layer of programs written in a language called AWK (which stands only for the last names of the three guys who invented the language). The AWK programs read info from a spreadsheet that describes the photos and then the AWK code writes the ASP code that works with photos. To update the photos, I simply update the spreadsheet, upload the photos, re-run the AWK programs, and upload the resulting ASP programs. Other designers would undoubtedly come up with other solutions, but this design has served us well since 2004. I haven't had to write new software over that time to grow the photo collection from a few hundred to a thousand photos. Frank Model and I just update the info in the spreadsheet and then the AWK programs rewrite the ASP programs and voilà, the website knows all about the new photos and renders them correctly.

The side-by-side feature (see photo) has some nifty code behind it, too, that detects the width of your browser window and resizes the butterfly photos to fit the window. In the early days of digital photos many of the photos were small and screen resolution was small. Now photos are much larger and can reveal much more detail. Newer photos will often be too wide to fit on a screen and far too wide to fit on half the screen in side-by-side mode, so the website resizes large photos to fit the available space. If the browser has shrunk the photo then it displays a magnifying glass under the caption. Clicking that icon will re-render the photo in its full resolution.

In 2006 we leveraged another of the club's rich information assets by scanning and posting, under Sharon Stichter's leadership, the



old issues of *Massachusetts Butterflies* from # 1, currently up through #29. There have been other improvements and partnerships along the way, as detailed in the timeline box on page 11. One substantial improvement occurred in 2007 when Bill Benner recruited Frank Model to help me process a backlog of photos. Frank worked tirelessly cropping photos and entering the information about them into a spreadsheet and over the course of a few weeks he more than doubled the size of our photo collection, bringing it up to the current count of 1001 photos.

In 2006 I shifted my career focus away from engineering. I am currently finishing a PhD in public health with a major concentration in biostatistics and minor concentration in epidemiology. I work full time as a biostatistician for Battelle Memorial Institute, which is the world's largest non-profit contract research firm. My part of the business is named the Centers for Public Health Research and Evaluation. I work with teams of very talented researchers on fascinating health-related issues. It's a terrific job.

In 2008 Kara and I adopted our first child, Nathaniel. I'm happy to say that he is a bug lover, with a special affinity at this time for bees, due largely to his love of honey and Burt's Bees Lip Balm. He loves to look thru his Daddy's special "g'noculars". In June of 2010 we adopted our second son, Benjamin, who wants to be in the middle of whatever the rest of us are doing. Although parenthood and my schooling have curtailed my time in the field for the last few years, I suspect that Kara will be eager to send us boys off on field trips in the years to come so she can enjoy a little peace and quiet at home.

I should also mention that I've had an opportunity to combine my love of statistics with my love of butterflies in serving as a data management and statistical consultant on Rich Bray's Rocky Mountain National Park Butterfly Project. You may have seen it described New York Times in the in 2008: (http://www.nvtimes.com/slideshow/2008/10/23/business/retireme nt/20081023 PARKS index.html) In a couple of years we will be reporting on 15 years of butterfly transect data from the Park. It is a fascinating project. Watch for more on that in the future.

I have been fortunate enough to work on some important and interesting projects through the years, but the MBC website is one of the two or three things that I am most proud of. It has been a lot of fun to have the Club's best photographers send me their wonderful photos through the years. I have enjoyed working with four sitting MBC presidents (and Brian Cassie whose term was over before mine started) who supported, guided, and encouraged my ideas; two terrific records keepers; and our passionate and professional editor of *Massachusetts Butterflies*.

My priorities these days are to devote a lot of time to my family and to finish my PhD research so I need to cut back on extracurricular activities. Although I am giving up the MBC webmaster position, I do have a handful of ideas for fruitful avenues of development. As food for thought, I have listed some of those ideas in the box entitled "What Would I Do If I Won MegaBucks...."

Although I will live in Ohio for an indefinite period into the future, I intend to maintain my MBC membership and I'll try to get back from time to time during the fair weather months to join you in the field. Thank you for entrusting me with your website over the past eight years. Thank you for your contributions to the site in the forms of suggestions, typo corrections, photos, and other content. And thank you for your notes of encouragement and appreciation from time to time. It has been a privilege to be your webmaster and I look forward to continuing our relationships, even from afar.

Warm regards, -Dale



## What Would I Do If I Won MegaBucks and Could Be MBC Webmaster Fulltime?

- Add the ability for people to comment on any photo, or really on any item on the web page, à la Facebook. Philip Greenspun pointed out over a decade ago that this is what would foster community online. It has always been an important component of his popular website, <u>www.photo.net</u>. I've been meaning to add the capability, at least to our photo pages, for quite a few years now.
- Optimize a version of the website for viewing on handheld devices (i.e., iPhone)
- Develop a butterfly ID tool for use on smart phones
- Incorporate the one remaining HUGE informational asset of the club, the database of butterfly observations, into the website.
  - Add an interface for people to use to submit their observations
  - Write a smartphone app that lets people record observations in real time with a photo and a geo-tag from the phone's GPS
  - Add ways to query the database interactively and provide output in lists or on maps or with timelines
- Add more history and ecology information about each species. (I am delighted to say that this hole is being beautifully filled with Sharon Stichter's new website, Butterflies of Massachusetts. The information there will complement the photos on the MBC website in ways that are unparalleled, as far as I know, by any other websites.)
- Add more biological information, especially larval photos and host plant photos to the site.
- Add more large photos in all their glorious resolution and detail, like the last two on the current Canadian Tiger Swallowtail page. (Click the magnifying glass to see them at full resolution.)

### MBC Website Timeline

- 2002 Dale takes over from Athol Bird & Nature Club; total photos on website = 1; total pages on website = 1
- 2003 New look; new address: www.massbutterflies.org; photos = 332; pages = 14
- 2004 New look and feel; side-by-side photos; random butterfly photo to ID; total photos = 469; total pages ~130
- 2005 Prototype butterfly ID tool (still available at <u>www.daleandkara.net/ise775</u>) adopted for kiosk use at Boston Nature Center
- 2006 Partnered with Mass Audubon; we link to their species pages and they link to ours
- 2007 Posted PDF versions of back issues of *Massachusetts Butterflies*; Frank Model serves as photo coordinator, processes a backlog of photos and ensures that we have photos of every Massachusetts species, eventually pushing our photo collection up to 1,001 photos
- 2008 Added page on Butterfly Conservation; added Dick Walton movies
- 2010 Added Sam Jaffe's 2009 field notes PDF with links to 199 caterpillar photos on his website
- 2011 Partnering with Sharon Stichter's Butterflies of Massachusetts website <u>www.butterfliesofmassachusetts.net</u>; we link to her species pages, and she links to ours



# Dale's Design Influences:

- Friend and Web Goddess, Sarah Peeler Merrill who said "You can do this; it isn't hard."
- Two books by MIT author and photo.net inventor, Philip Greenspun: *Database-backed Web Sites* and *Philip & Alex's Guide to Web Publishing*
- Web Pages That Suck: Learn Good Design by Looking at Bad Design, by Vincent Flanders and Michael Willis
- Coursework with Ohio State University professors Philip Smith and R. Brian Stone
- Conversations with Ohio State University classmate and thoughtful designer, Mike Rayo

<u>Dale's Assessment of the MBC's Important Assets</u> (The Website Capitalizes on Some Better Than Others)

- Terrific collective photo collection, a small portion of which appears on the website
- Butterfly observation database
- Massachusetts Butterflies
- Club members' knowledge, both documented and undocumented, about butterfly ecology and about where and when to find Massachusetts' butterfly species
- The sense of community; the friendships that result from common interests and shared experiences, and opportunities to learn from each other



### The Natural State

Under a tree in Arkansas I saw two butterflies mating. They exchanged brief vows beneath some boughs And commenced to consummating.

Their ceremony was simple With God as their judge and no lawyers. The Tree and I signed as witnesses Then commenced to being voyeurs.

The courtship that started that day in the sky I attribute to a fortunate breeze. Each partner had flown for miles on high Dancing solo among the trees.

As He and She approached the spot Where the Tree and I were waiting Neither one seemed to have a care Nor to be intent on dating.

They drifted along quite aimlessly Not minding which way they went Until they blew into our glade When their paths took a calculated bent.

Each noticed the other and then looked back And circled for another pass. They must have liked what they saw next 'Cause they spiraled into the grass!

Now it would not be polite to describe The rest of this afternoon affair. So I'll choose a cliche' over details risqué Put simply: There was Love in the Air!

Dale Rhoda

### The Worthington "Canola Whites"

Barbara J. Spencer

On August 28, 2010, there was an epic scene in a 200- acre field planted to "Roundup Ready" canola (Brassica *napus*) in Worthington, Massachusetts. Huge numbers of non-native Cabbage White butterflies (Pieris rapae), were rising and falling like snowflakes caught in eddies all across the field. Clusters of whites covered the goldenrod that lined the ditches and the edges of the field, and wet spots held hundreds of puddling whites. The number of whites did not diminish as one gazed across the halfmile wide field. I was alerted to the spectacle by a friend who had seen a huge mass of whites gathered at one large wet spot near the road the previous evening. A local man said the butterflies had been there all summer, but never in numbers such as these. Initial reaction was there had to be a million butterflies in that field. Such [Roundup Ready is the commercial trade name for abundance! crops genetically engineered for resistance to the herbicide Roundup.]

This huge field is well known locally for its arresting beauty when completely planted to sunflowers. Years ago it was a potato field; more recently the acreage has been used for soy beans as well as corn. Because of the treatments with the herbicide Roundup, the crop in 2010 was truly a brassica monoculture perfectly suited to hosting three or four generations of Cabbage Whites last summer. It smelled strongly of cabbage when warmed by the sun. This was the first season that Canola was planted there. According to a

Google search Canola is a trademark for a hybrid variety of rapeseed originally bred in Canada. Canola is an acronym for CANadian Oil Low Acid. It is often grown for use as biodiesel fuel rather than for human or animal consumption, although the low euric acid content makes food use possible.

Google Earth located the field at 42" 24'28.00 N and 72" 55'18.63 W, just east of the Five Corners on Route 143. It extends to the south to border on Old Post Road. The elevation is 1488 feet.

On August 29, the day after my first visit, abundant dispersal of the whites away from the field was evident. As the site was approached by road, the numbers of whites increased, with lawns, roadsides and ditches covered with Cabbage Whites. The main field remained intensely active, and large numbers of butterflies seeking minerals continued to crowd the wet spots. Several Mass Lep visitors arrived to check out the sights and were amazed at a density of butterflies seldom seen outside the tropics. One visual estimate was of a half million butterflies. Putting firmer numbers on the estimates was a challenge. One observer chose one butterfly on every ten square feet as a measure and reached a total of 877,000 butterflies. Another observer estimated ten per square vard and arrived at close to a million butterflies in the field. It is interesting how close these estimates were to initial impressions. Mating pairs were observed that day, August 29th, and the number of puddling individuals was reduced as the damp spots dried. Two days later clusters of whites were common more than half a mile away. At the same time, numbers in the field did not appear diminished. A visitor on the first of September commented on the dazzling activity with chasing and mating. Whites were frequenting wild mustard as well as the canola, and eggs were easy to find

By September 7th the ground was dry and there was no puddling or seeking minerals. On September 10th, a windy day, there were no whites flying although some flushed from the grass along the road in the field. Numbers were much reduced on the 17th after a good rain. Only very worn males were seen. On October 10th a huge harvester appeared in the center of the field and it appeared the crop was about to be cut. On the 13th the canola still stood and zero whites were seen. The crop was still standing on November 5th and was not cut until near the end of November. The acreage probably was planted on more than one date as stretches of the canola appeared to represent different stages of maturity. On December 4th the field had been reaped although some canola remained uncut along the west edge of the field.

Accompanying this saga were many intriguing questions regarding how this explosion of whites occurred and what, if anything, to do about it. Views can be summed up as ranging from "magnificent display of nature's abundance" to "off with their heads". One of the most intriguing questions centered on the absence of parasitoids and predators. Where were they and why weren't they in stronger evidence? The butterflies are more mobile than their predators and had the time advantage in populating the field. According to a posting from the Florida Department of Agriculture, general predators include shield bugs and ambush bugs (Hemiptera Phymatidae and Phymatidae) and vespid wasps (Hymenoptera Vespidae). Under high density conditions a granulosus virus can attack with high mortality. Some comments suggested spraying the field to kill the flying whites as a control measure. However, the grower had leased the field, lives thirty miles or so away, and did not visit the field during most of the summer. The crop was intended for biofuel, and was grown as cheaply as possible. Roundup, which is a weed killer and has no insecticidal properties, was applied a couple of times; no insecticides were used. Since the

canola was "Roundup Ready" a vast monoculture of Brassica was produced. The whites found a perfect site to reproduce unhindered as their predators did not show up in any numbers in this new environment. The farmer apparently did not wish to pay to have the field sprayed, and there was doubt about the timing and efficacy of spraying anyway. A large dispersal of whites had already occurred and frost was approaching. In any case no insecticide was applied.

This unprecedented event is probably non-repeatable unless the field is planted to canola again next year, although reason suggests that there must be plenty of Roundup Ready canola seed left in the field after harvest that will be resistant to herbicides. Certainly the agricultural practices involved should be reviewed. One has to assume that the numbers of whites in the area will be higher than usual during the next season. General predators on whites include birds and insects such as mantids, as well as wasps.

Most biocontrol agents are parasitoids. Parasitoids kill the host and are used in population control. Perhaps the parasitoids will catch up to the whites enough in numbers to reduce the population in 2011. According to Jeff Boettner of the Plant, Soil and Insect Sciences lab at UMASS-Amherst, Cabbage Whites have two primary parasitoids, both introduced for biological control, and one virus. The first parasitoid used in Massachusetts was *Cotesia glomeratus*, a gregarious wasp which produces 10-60 wasps per caterpillar. This species was widespread in New England as recently as the 1980's. The second more recent parasitoid introduction, *Cotesia rubecula*, came from China in 1988 and was first released in Deerfield, Massachusetts, and later in 17 locations throughout New England. *C. rubecula* produces only one wasp per host, but is very effective. It was widely recovered throughout New

England by 2002. Van Driesche (2008) found C. rubecula may have now nearly completely displaced C. glomerata in Massachusetts. This is exciting news for Massachusetts butterfliers because C. glomerata was also found using the native Pieris napi or Mustard White, as a host, and may have played a role in this native white's decline. C. rubecula, however, appears to prefer Cabbage Whites, and to have little effect on the native P. napi in the field. If C. rubecula does continue to cause the disappearance of C. glomerata, this could soon allow Pieris napi to recolonize areas from where it has disappeared. Dr. Van Driesche (at UMASS-Amherst) has a graduate student, Meg Herlihy, currently studying these interactions. It will be interesting to observe and monitor the development of these interactions and the numbers of "Canola Whites" in the coming season. The incredible record high count of close to one million butterflies in 2010 will probably remain in place in Massachusetts for a good many years.

Reference:

Van Driesche, R. G. 2008. Biological Control of *Pieris rapae* in New England: Host Suppression and Displacement of *Cotesia glomerata* by *Cotesia rubecula* (Hymenoptera: Broconidae). <u>Florida Entomologist</u> 91 (1):22-25.

Notes:

Many thanks to Jeff Boettner for his input into this article.

For a dramatic photo of the Worthington Whites, see the cover of *Massachusetts Butterflies* No. 35, Fall 2010.



# The Cherry Gall Azure (*Celastrina serotina*): A Photo Essay

Mark Rainey

While visiting Juniper Hill in Lexington in early May 2010 I observed a Cherry Gall Azure ovipositing on the leaf galls of a Chokecherry (*Prunus virginiana*). In the subsequent weeks I returned to document the life cycle of this recently described species. All of the following photos are of two adjacent leaves on that Chokecherry tree.



A Cherry Gall Azure oviposits on a Chokecherry leaf gall. The galls are abnormal growths caused by the presence of eriophyid mites. 5-2-2010

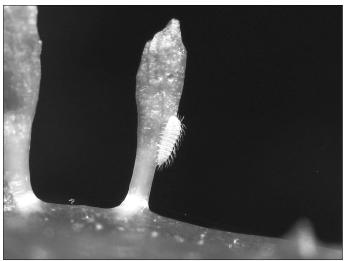
Mark Rainey lives in Belmont. He thanks Harry Pavulaan for his comments on this article.



At the front of the egg (the same egg that was laid in the previous picture) is a small hole called a micropyle, where the sperm entered to fertilize the egg prior to oviposition. 5-2-2010



After about a week of development, the larva eats its way out of the egg, leaving behind the empty egg case. 5-16-2010



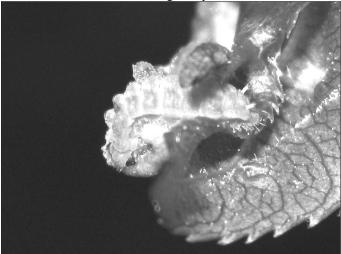
An early-instar larva, covered with small hairs called setae, feeds on a gall. The larva bores a hole into the side of the gall and consumes the insides, and will later devour entire galls. 5-16-2010



After another two weeks, the larva has reached the late-instar stage and is tended by ants, as are many lycaenids. The late-instar larva has several specialized organs that play a role in its relationship with ants. 5-31-2010



The oval structure near the rear of the larva (at the right in this picture) is the dorsal nectary organ, which produces "honeydew" that ants consume. In return, the ants defend the larva against predators. 5-30-2010



To the rear of the dorsal nectar organ is a pair of tentacle organs, which are normally retracted inside the body but can be extended, as in this picture (the two white "tentacles" at the right side). These organs are believed to play a role in attracting and alerting ants. 5-30-2010

# 2010 Season Summary and Records

### Erik Nielsen

Over 7400 records were received for the 2010 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 NABA checklist the number of species reported for 2010 was 102 - or 104 counting Cherry Gall and Summer Azures as full species.

Unfortunately it's not possible to fit more than a fraction of the total records in the allotted space. This does not mean that they aren't important; all reported butterflies are logged in the database and add to the picture of the health of our various butterfly populations in the state. The tables in the summary are generated from this data.

The first column gives the % change in the average number seen on a visit to a location on a specific day in 2010, compared to the average for the preceding years. The second column gives the % change in how frequently a species was reported, the third column lists the % change in the maximum count reported, and the last column the % change in how many localities it was reported from. The fields are "color coded" to make it easier to quickly see how many species saw large changes and those for which the numbers were in the "normal" range. Black text on a white background indicates that the numbers for 2010 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 in the "normal" range somewhere between the two extremes.

## SWALLOWTAILS

Giant Swallowtails are rarely seen in Massachusetts; but in 2010 no less than 4 were reported, making them almost as "common" as Pipevine Swallowtails for the year, and for the first time they were seen in the eastern half of the state.

%Change in 2010 from the 1994-2009 average				
English Name	Avg. No	Frequency.	Max. No	Localities
Black Swallowtail	43	46	19	23
Tiger Swallowtail (spp)	28	11	99	56
Eastern Tiger Swallowtail	52	36	85	51
Canadian Tiger Swallowtail	185	170	48	134
Spicebush Swallowtail	21	24	-6	31

From the above table it appears that Swallowtails fared well in 2010 with just about all catagories registering on the plus side. The easternmost report of Canadian Tiger Swallowtail was unusual by being very early on April 21 and as far east as Arlington.

### WHITES AND SULPHURS

%Change in 2010 from the 1994-2009 average				
English Name	Avg. No	Frequency.	Max. No	Localities
Mustard White	67	-38	113	7
West Virginia White	-21	-20	-38	-29
Cabbage White	49870	6	143681	44
Clouded Sulphur	95	26	150	55
Orange Sulphur	-58	-42	-75	-4
Cloudless Sulphur	-80	-48	-86	-22

Mustard White was reported in good numbers; but West Virginia White continued its downward slide with the numbers in all 4

categories being lower than the average from the previous 16 seasons. Cabbage White numbers on the other hand were way up, boosted by the counts from a single field. On August 27 Barbara Spencer was alerted by a neighbor to "an epic scene" in a field planted with rape in Worthington where Cabbage Whites were flying huge numbers (see accompanying article in this issue). By projecting spot counts over the roughly 200 acres of the field the number was eventually estimated to somewhere in the neighborhood of 800,000 ("give or take a lot"). Clouded Sulphur numbers were above average, but Orange had a fairly poor showing. The latter did, however, fly later than any other butterfly in MA when one was seen in Westport on November 21.

%Change in 2010 from the 1994-2009 average				
English Name	Avg. No	Frequency.	Max. No	Localities
Harvester	-79	-28	-88	-15
American Copper	28	35	-27	44
Bronze Copper	196	100	388	85
Bog Copper	-13	-46	-18	-48
Coral Hairstreak	-7	2	-21	-15
Acadian Hairstreak	-49	9	-62	-45
Edwards' Hairstreak	-36	12	-66	-33
Banded Hairstreak	-37	-33	-48	-47
Brown Elfin	70	36	30	8
Hoary Elfin	16	59	-11	50
Frosted Elfin	165	202	-22	61
Henry's Elfin	22	13	-15	15
Eastern Pine Elfin	-30	-5	-46	-4
Juniper Hairstreak	-76	-30	-84	-42
Gray Hairstreak	13	38	33	29
Eastern Tailed-Blue	-4	17	-46	41
Silvery Blue	-13	-20	-43	-17

### GOSSAMER-WINGS

From the above table it would appear that Harvester fared quite poorly in 2010. As with Cabbage White this statistic is largely skewed by the numbers (or in this case, the lack thereof) from a single locality. In the last few years large numbers of Harvesters were seen at the Mystic Lakes on the Arlington/Medford line. They were still seen there in 2010, but not in the same quantities.

Bronze Coppers were found away from their Sudbury River Valley stronghold again this year with one at Appelton Farms TTOR in Hamilton/Ipswich and three at Millennium Park in Roxbury. A MBC field trip to the Sudbury Fiver Valley on September 25 turned up a total of 42. Bog Copper didn't do quite as well. Both their overall counts and number of places they were found were noticeably down. Hairstreak numbers were disappointing as well. Their flights seemed to have started earlier than usual; but the counts were generally low and petered out fairly early. As in 2009 only a single Hickory Hairstreak was reported. No Bog Elfin was found in 2010; but most of the other Elfins were reported good numbers. White M Hairstreaks got off to an early start with one in Palmer on April 23. Others were seen in May, June and September (several). Early Hairstreak was almost missed again this year; but a trip up Mount Greylock on May 30 succeeded in locating three. Azures were reported in good numbers. Spring Azure got a new "High Count" when 851 were tallied at Myles Standish State Forest on April 14. More people are getting confident in separating the different species (or forms – depending on your point of view) and a clearer picture of their flight times is now starting to emerge.

### **BRUSHFOOTED BUTTERLIES**

American Snout is not an annual visitor to Massachusetts, and when they do appear it's usually in the fall somewhere on the south coast, so one in Windsor on May 20 was quite unusual.

%Change in 2010 from the 1994-2009 average				
English Name	Avg. No	Frequency.	Max. No	Localities
Variegated Fritillary	-84	-70	-88	-57
Great Spangled Fritillary	74	54	196	43
Aphrodite Fritillary	-8	-35	105	-23
Atlantis Fritillary	-74	-15	-79	13
Silver-bordered Fritillary	-86	24	-95	30
Meadow Fritillary	-3	74	-53	67
Harris' Checkerspot	-86	-42	-86	-47
Pearl Crescent	162	56	148	57
Baltimore Checkerspot	-34	87	-45	53
Question Mark	-28	6	-75	16
Eastern Comma	42	66	1	35
Compton Tortoiseshell	-66	-77	-31	-76
Mourning Cloak	-49	-31	-33	-4
Milbert's Tortoiseshell	-71	-49	-72	-55
American Lady	22	21	29	34
Painted Lady	-62	-24	-64	-13
Red Admiral	17	161	-76	149
Common Buckeye	-1	13	-43	21
White Admiral	-65	-21	-46	-18
Red-spotted Purple	-28	18	-36	13
Viceroy	48	32	34	17
Northern Pearly-Eye	-6	28	-52	34
Eyed Brown	11	42	-38	8
Appalachian Brown	61	59	6	53
Little Wood-Satyr	5	0	173	15
Common Ringlet	27	8	-27	24
Common Wood-Nymph	5	-9	-4	3
Monarch	-82	-5	-93	30

2010 seems to have been a good year for Great Spangled Fritillary with its numbers being up in all four categories. Aphrodite and Atlantis counts were not as poor as in some of the recent years; but their numbers still mostly lagged behind the 1994-2009 averages. Harris' Checkerspots were only sparsely reported. Their numbers, how frequently they were seen and in how many places were all down again this year. No real populous colonies of Baltimore Checkerspots were found; but they were well reported from more than usual localities. A Green Comma was reported from Windsor on September 22. Unfortunately it could not be relocated on a return trip the following day. A Gray Comma was documented with several photographs in Williamstown on August 28.

### SKIPPERS

Silver-spotted Skipper counts were all on the plus side; but Hoary Edge, both Cloudywings and Dreamy Duskywings all had a poor showing. The numbers for the other Duskywings, however, were up in most categories. Horaces' and Sleepy both had an especially good year, with good counts and reports from more areas than usual. Arctic Skipper is never very common; but only low numbers were reported in 2010 and only from two locations. European Skipper, while still fairly common, had counts below the average for the second year in a row. Only a few years ago Zabulon Skipper was a rare sight in the spring and unheard of in eastern Massachusetts. In 2010 their spring flight got off to a very early start with one in East Longmeadow on May 8. Further east they were found in Dartmouth on May 22 to June 3 and in Fowl Meadow in mid June. The threatened Dion Skipper also had a strong showing. Until last year when a colony was found in Florence, it was only known from a few spots in Berkshire County.

In 2010 it was found in a couple of additional locations in Williamsburg and Cummington.

%Change in 2010 from the 1994-2009 average				
English Name	Avg. No	Frequency.		Localities
Hoary Edge	-64	-48	-67	-57
Southern Cloudywing	-66	-45	-57	-29
Northern Cloudywing	-37	-15	-39	7
Dreamy Duskywing	-27	-20	-29	-12
Sleepy Duskywing	166	100	50	102
Juvenal's Duskywing	103	64	-29	78
Horace's Duskywing	99	110	101	116
Wild Indigo Duskywing	84	72	43	89
Common Sootywing	42	82	-52	15
Arctic Skipper	-56	-47	-69	-38
Least Skipper	-16	10	-46	21
European Skipper	-91	-27	-91	-5
Leonard's Skipper	-31	12	-32	22
Cobweb Skipper	-40	-23	-24	-27
Indian Skipper	28	35	16	14
Peck's Skipper	50	32	195	50
Tawny-edged Skipper	28	45	-2	27
Crossline Skipper	-12	9	-53	31
Long Dash	-14	-15	-41	-16
Northern Broken-Dash	182	52	381	38
Little Glassywing	102	74	84	58
Delaware Skipper	72	74	166	64
Mulberry Wing	81	91	-6	77
Hobomok Skipper	9	18	-7	8
Zabulon Skipper	103	297	-64	47
Broad-winged Skipper	37	66	-9	79
Black Dash	160	74	103	21
Dun Skipper	79	47	19	48
Pepper and Salt Skipper	81	75	30	29

Fiery Skippers were seen in good numbers in September and October. Sachems also made a decent fall showing, but only in the Westport-Dartmouth area. Common Roadside-skipper was nicely documented with several photos on Mount Greylock June 4th.

Perhaps due to the warmer than usual temperatures for each month (except December) of 2010, a remarkable total of 29 species had new "Early Flight Dates" in 2010. They were: Tiger Swallowtail (probably Eastern) – April 2, Canadian Tiger Swallowtail – April 21, Clouded Sulphur – April 3, American Copper – April 4, Coral Hairstreak - June 21, Edwards' Hairstreak - June 11, Banded Hairstreak - June 11, Hickory Hairstreak - June 18, Oak Hairstreak – June 11, Frosted Elfin – April 8, Henry's Elfin – April 4, White M Hairstreak – April 23, Eastern Tailed-Blue – April 15, Cherry Gall Azure - May 2, Silvery Blue - April 15, Great Spangled Fritillary – June 1, Pearl Crescent – May 1, Question Mark - March 20, Eyed Brown - June 5, Common Ringlet - April 4, Hoary Edge – April 21, Northern Cloudywing – May 1, Horace's Duskywing – April 20, Indian Skipper – May 15, Tawnyedged Skipper - May 14, Zabulon Skipper - May 8, Broad-winged Skipper – July 2, Dion Skipper – June 27, Dusted Skipper – May 13.

Six species had new "<u>Late Flight Dates</u>": Pipevine Swallowtail – October 9, Meadow Fritillary – Ocotober 11, Gray Comma – August 28, Appalachian Brown – September 15, Horace's Duskywing – September 24, Dun Skipper – September 25.

<u>New High Counts</u> were obtained for six species: Cabbage White – 800,000, Bronze Copper – 26, Spring Azure – 851, Cherry Gall Azure – 20, Northern Broken-Dash – 200, Dusted Skipper – 110

#### Pipevine Swallowtail

- 8/26 1 Northampton CG Tom Gagnon
- 9/26 1 Wayland CG Jason Forbes
- 10/9 1 Aquinnah Pete Gilmore+Lanny McDowell
- 10/9 1 AP, Dartmouth Steve Moore+Barbara Volkle

#### **Black Swallowtail**

- 4/24 2 F&G Fields, Westborough Wendy Miller
- 4/30 1 Sherborn PL Bob Bowker
- 4/30 2 Weir Hill Res, N Andover Hoople+Hopping
- 5/1 1 HPM, Woburn Mark Rainey
- 5/2 1 Muddy Brook, Ware Brian Klassanos
- 5/7 10 GBH, Canton Sam Jaffe
- 6/4 3 Nat's Farm, W Tisbury Matt Pelikan
- 6/26 3 GBH, Canton E.Nielsen+R.Hamburger
- 6/29 1 Graves Farm, Williamsburg Tom Gagnon#
- 7/11 2 MMP, Williamstown Pam Weatherbee
- 7/11 1 Rowden Yard, Leicester Mark Rowden 7/18 5 F&G Fields, Westborough - MBC
- (S.Moore+B.Volkle)
- 7/24 11 AF, Hamilton/Ipswich Russ Hopping
- 7/31 1 Monterey Mark Lynch+Sheila Carroll
- 8/1 1 Cummington Barbara Spencer
- 8/1 11 World's End, Hingham Bob Bowker
- 9/3 3 Northampton CG Bill Benner
- 9/11 6 Wayland CG Steve Moore+Barbara Volkle
- 9/19 3 W Bridgewater Don Adams
- 10/11 1 AP, Dartmouth Bob Bowker

#### Giant Swallowtail

- 8/5 1 Florence Tom Gagnon+Bruce Callahan
- 8/10 1 Whately Bill Benner+Joe Wicinski
- 8/17 1 IRWS, Topsfield Richard Wolniewicz
- 8/31 1 Park School, Brookline Brian Cassie

#### Tiger Swallowtail (spp)

- 4/2 1 Northborough Steve Moore
- 4/8 1 E Longmeadow Karen Parker
- 4/20 1 Granby Madeline Champagne
- 5/2 6 Muddy Brook, Ware Brian Klassanos
- 5/15 10 Quabbin Park, Belchertown Greg Dysart
- 5/23 20 MSSF, Plymouth MBC (E.Nielsen)
- 5/24 57 Cummington Barbara Spencer
- 5/25 80 Hawley Barbara Spencer
- 8/29 1 Muddy Brook, Ware Brian Klassanos
- 9/29 1 E Longmeadow Karen Parker

#### Eastern Tiger Swallowtail

- 4/22 1 Rocky Narrows, Sherborn Bob Bowker
- 4/24 1 AP, Dartmouth Lauren Miller-Donnelly
- 4/24 1 Juniper Hill, Lexington Mark Rainey
- 5/30 24 Beartown SF, Great Barrington M.Lynch+S.Carroll
- 5/31 12 Sturbridge Mark Lynch+Sheila Carroll
- 6/20 4 Muddy Brook, Ware Brian Klassanos
- 7/3 28 Old Town Hill, Newbury Erik Nielsen
- 7/6 7 Moore SP, Paxton Elise Barry
- 7/11 14 New Marlborough Mark Lynch+Sheila Carroll
- 7/17 4 Carney Res., Northborough S.Moore+B.Volkle
- 7/17 5 Stichter Yard, Newbury Sharon Stichter
- 8/8 3 Whately Bill Benner
- 8/21 1 Sylvan Nursery, Westport Madeline Champagne
- 8/21 8 Cheshire-Savoy Mark Lynch+Sheila Carroll
- 9/6 1 E Bridgewater Eddie Giles
- 9/18 1 Mount Tom State Res.- Tom Gagnon

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#### **Canadian Tiger Swallowtail**

- 4/21 1 Great Meadow, Arlington Tom Whelan
- 5/1 2 Leverett Carl Kamp
- 5/2 4 S Quabbin Mark Lynch+Sheila Carroll
- 5/4 2 Roberts Rd., Sandisfield Mark Rowden
- 5/6 1 Rowden Yard, Leicester Mark Rowden
- 5/7 49 Shutesbury Earle Baldwin
- 5/11 1 Weir Hill Res, N Andover Howard Hoople
- 5/15 1 Quabbin Park, Belchertown Greg Dysart
- 5/17 1 Mount Tom State Res.- Carl Kamp
- 5/23 10 Tom Swamp, Petersham MBC (Tom Gagnon)
- 5/30 52 Mount Greylock Tom Gagnon#
- 6/19 1 Athol Carl Kamp
- 7/3 2 Muddy Brook, Ware Brian Klassanos

#### Spicebush Swallowtail

- 5/3 2 Commerce Rd, Hingham Erik Nielsen
- 5/10 10+ Chickatawbut Hill, Milton Sam Jaffe
- 5/27 1 E Longmeadow Karen Parker
- 5/31 6 MHF, Sharon Erik Nielsen
- 6/26 4 HPM, Woburn MBC (Steve Moore)
- 7/2 3 BMB WS, Worcester Martha Gach
- 7/8 3 Maudslay SP, NP S. Stichter and Bo Zaremba
- 8/11 4 Stackyard Rd, Rowley Joe Stichter
- 9/4 1 Montague Mark Fairbrother
- 9/6 1 Crane WMA, Falmouth Alison Robb
- 9/16 1 Mount Tom State Res.- Tom Gagnon
- 9/18 1 AP, Dartmouth MBC (Lauren Miller-Donnelly)
- 9/19 1 W Bridgewater Don Adams
- 9/25 1 Wayland CG MBC (Erik Nielsen)
- 10/9 1 Northampton CG Tom Gagnon

#### Mustard White

- 6/18 50 New Lenox Rd, Lenox Frank Model
- 7/17 16 C Berkshire NABA Tom Tyning
- 7/21 100 George L Darey WMA, Lenox Tom Gagnon #

#### West Virginia White

4/8 1 Whately - Bill Benner

3/19 1 Hingham - Erik Nielsen

3/20 1 Belmont - Fred Bouchard

3/20 1 Belchertown - Jason Watson

5/1 24 W Bridgewater - Don Adams

- 4/21 3 Sunderland Ron+Sue Cloutier
- 5/1 6 Sunderland Steve Moore+Barbara Volkle
- 5/15 2 New Marlborough Mark Lynch+Sheila Carroll
- 5/20 7 Mount Greylock Tom Gagnon+Bruce Ripley

3/20 1 Champagne yard, Foxborough - M. Champagne

7/21 20 George L Darey WMA, Lenox - Tom Gagnon #

8/21 450++ Cheshire-Savoy - Mark Lynch+Sheila Carroll

9/19 40+ Northampton CG - MBC (Benner+Gagnon)

9/25 53 Sedge Meadow, Wayland - MBC (Erik Nielsen)

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3/27 1 Wellfleet Bay Ws, Wellfleet - Joe Lawler 4/21 16 Wellfleet Bay Ws, Wellfleet - Mark Faherty

6/18 50 World's End, Hingham - Bob Bowker 7/3 29 AF, Hamilton/Ipswich - Sharon Stichter#

8/1 60 World's End, Hingham - Bob Bowker8/7 14 Tyringham - Mark Lynch+Sheila Carroll

8/27 ~800000 Worthington - Barbara Spencer

10/17 12 Westport - Mark Lynch+Sheila Carroll

10/28 5 World's End, Hingham - Bob Bowker

10/2 40 Wayland CG - Barbara Volkle #

10/9 12 Worthington - Barbara

10/26 3 Beverly - Karen Haley

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#### **Cabbage White**

10/30 1 AP Allens Neck, Dartmouth - Erik Nielsen 11/6 1 Northampton - Mark Lynch+Sheila Carroll

#### **Clouded Sulphur**

- 4/3 1 Barry Yard, Paxton Elise Barry
- 4/4 3 MPRA, W Newbury Bo Zaremba
- 4/11 1 Muddy Brook, Ware Brian Klassanos
- 4/20 5+ Ward Res, Andover Howard Hoople
- 4/22 12 Rocky Narrows, Sherborn Bob Bowker 4/24 15 Westfield - Tom Gagnon#
- 4/24 24 Hampden Erin Gillen
- 5/4 20 NCM, Petersham Ron+Sue Cloutier
- 5/15 48 New Marlborough Mark Lynch+Sheila Carroll
- 6/27 19 Graves Farm, Williamsburg Bill Benner
- 6/30 17 Millenium Park, Roxbury Bob Bowker
- 7/3 65 AF, Hamilton/Ipswich Sharon Stichter#
- 7/3 38 MBWMA, Newbury Joe Stichter #
- 7/6 42 Moore SP, Paxton Elise Barry
- 8/7 74 Tyringham Mark Lynch+Sheila Carroll
- 8/8 17 MCP, Burlington/Woburn Sharon Stichter#
- 8/28 50+ Williamstown Bo Zaremba
- 9/6 21 Muddy Brook, Ware Brian Klassanos
- 9/11 45 AP, Dartmouth Dolores Price+Wendy Miller
- 10/2 15 NAC, Concord Barbara Volkle #
- 10/10 16 Brookfield Mark Lynch+Sheila Carroll
- 10/11 4 MMP, Williamstown Pam Weatherbee
- 10/11 15 Dauphinais Park, Grafton Dolores Price
- 10/26 2 Beverly Karen Haley
- 10/28 6 Millis Madeline Champagne
- 10/30 75 AP Allens Neck, Dartmouth Erik Nielsen

#### Orange Sulphur

- 4/24 1 Town Farm TTOR, Westport Lauren Miller-Donnelly
- 4/24 1 Oak Bluffs Matt Pelikan
- 5/2 1 MBWMA, Newbury Sharon and Joe Stichter
- 5/13 1 World's End, Hingham Bob Bowker
- 5/16 3 Delaney WMA, Stow Steve Moore
- 5/23 2 Rowden Yard, Leicester Mark Rowden
- 6/2 1 Muddy Brook, Ware Brian Klassanos
- 6/18 1 Hinsdale Frank Model
- 6/27 5 Wachusett WS. Princeton S. Moore+B. Volkle
- 6/27 3 Graves Farm, Williamsburg Bill Benner
- 7/6 6 Moore SP, Paxton Elise Barry
- 7/25 6 Wendell Carl Kamp#
- 7/31 4 Cape Cod Org. Farm, Barnstable Alison Robb#
- 9/20 103 Delaney WMA. Stow Steve Moore
- 10/9 150 AP, Dartmouth Steve Moore+Barbara Volkle 10/10 5 Beverly - Karen Haley
- 10/11 65 Katama, Edgartown Matt Pelikan
- 10/17 1 Leicester Mark Rowden
- 10/28 3 World's End, Hingham Bob Bowker
- 10/28 2 Millis Madeline Champagne
- 10/30 28 AP Allens Neck, Dartmouth Erik Nielsen
- 11/21 1 Acoaxet Erik Nielsen

#### Cloudless Sulphur

- 7/6 2 W Soumi Field, Paxton Elise Barry
- 9/6 2 Chilmark Allan Keith
- 9/11 1 AP, Dartmouth Dolores Price+Wendy Miller

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- 9/19 1 W Bridgewater Don Adams
- 9/23 1 Falmouth Matt Pelikan
- 9/27 1 Penikese Island Alison Robb 10/2 1 Pochet Island, Orleans - Wavne Petersen
- 10/19 1 Oak Bluffs Matt Pelikan

#### Harvester

- 5/7 1 Barry Yard, Paxton Elise Barry
- 5/17 1 Dunback Meadows, Lexington -

- B.Bowker+F.Bouchard
- 5/21 1 Tom Swamp, Petersham Bo Zaremba
- 6/14 2 S-C TTOR, N Andover Russ Hopping
- 6/18 2 ML, Arlington/Medford Renee LaFontaine
- 8/21 2 FS WMA, Longmeadow Bo Zaremba
- 9/5 1 CST, Westborough Steve Moore+Barbara Volkle

#### American Copper

- 4/4 1 MPRA, W Newbury Bo Zaremba
- 4/14 1 Oak Bluffs Matt Pelikan
- 4/19 1 AP Field Station, Dartmouth Erik Nielsen
- 4/24 1 Ware River Brian Klassanos
- 4/24 1 Hampden Erin Gillen
- 4/25 4 Water Tower PL, NP Sharon Stichter
- 5/1 6 Millenium Park, Roxbury Bob Bowker
- 5/1 24 Westfield Steve Moore+Barbara Volkle
- 5/5 30 Ward Res, Andover Howard Hoople
- 5/13 43 World's End, Hingham Bob Bowker
- 5/13 14 Florence Tom Gagnon
- 7/3 46 GBH, Canton MBC (S.Moore+B.Volkle)
- 7/3 33 MBWMA, Newbury Joe Stichter #
- 7/8 200 Maudslay SP, NP S. Stichter + Bo Zaremba
- 8/13 25+ Gooseberry Neck, Westport -
  - M.Lynch+S.Carroll
- 10/10 20 Beverly Karen Haley
- 10/11 18 AP, Dartmouth Bob Bowker
- 10/11 1 MMP, Williamstown Pam Weatherbee
- 10/17 9 Millenium Park, Roxbury Bob Bowker
- 10/19 2 Oak Bluffs Matt Pelikan
- 10/26 3 Beverly Karen Haley
- 10/30 1 Stichter Yard, Newbury Sharon Stichter

#### Bronze Copper

Bog Copper

Coral Hairstreak

Acadian Hairstreak

Edwards' Hairstreak

6/11 1 GBH, Canton - Sam Jaffe

6/22 5+ GBH, Canton - Sam Jaffe

- 6/8 1 AF, Hamilton/Ipswich Howard Hoople
- 7/2 3 Millenium Park, Roxbury B. Bowker+L. Stillwell
- 9/6 1 Sedge Meadow, Wayland Greg Dysart
- 9/15 7 Sedge Meadow, Wayland Steve Moore #
- 9/25 6 Wayland CG MBC (Erik Nielsen)
- 9/25 10 Sudbury CG MBC (Erik Nielsen)
- 9/25 26 Sedge Meadow, Wayland MBC (Erik Nielsen)

6/25 10 Tully Dam, Royalston - Sue+Ron Cloutier

6/27 62 Tully Dam, Royalston - S. Moore+B. Volkle

7/8 25 Tully Dam, Royalston - MBC (Frank Model)

6/25 1 MCP, Burlington/Woburn - Sharon Stichter

6/26 1 GBH, Canton - E.Nielsen+R.Hamburger

7/3 5 GBH, Canton - MBC (S.Moore+B.Volkle) 7/9 1 Weir Hill Res, N Andover - Howard Hoople

7/11 1 MMP, Williamstown - Pam Weatherbee

6/26 12 Pittsfield - Tom Gagnon+Harvey Allen

6/26 3 HPM, Woburn - MBC (Steve Moore)

6/18 1 BMB WS. Worcester - Steve Moore

6/26 9 HPM, Woburn - MBC (Steve Moore)

7/3 1 MBWMA, Newbury - Joe Stichter #

6/21 1 HPM, Woburn - Sue+Ron Cloutier

6/27 1 HPM, Woburn - Erik Nielsen #

6/25 1 Quabbin Park, Belchertown - Sue+Ron Cloutier

10/8 4 Sedge Meadow, Wayland - Greg Dysart 10/10 2 Wayland CG - Greg Dysart #

6/21 1 HPM, Woburn - Sue+Ron Cloutier

- 6/25 1 Quabbin Park, Belchertown Sue+Ron Cloutier
- 6/26 6 GBH, Canton E.Nielsen+R.Hamburger
- 6/26 14 HPM, Woburn MBC (Steve Moore)
- 7/1 1 MV SF Matt Pelikan
- 7/3 3 GBH, Canton MBC (S.Moore+B.Volkle)

#### **Banded Hairstreak**

- 6/11 1 GBH, Canton Sam Jaffe
- 6/14 1 Hale Res, Westwood Brian Cassie
- 6/15 2 Champagne vard, Foxborough M. Champagne
- 6/18 1 MBWMA, Newbury Sharon Stichter
- 6/18 1 World's End, Hingham Bob Bowker
- 6/19 1 Sherborn Bob Bowker+Lesley Stillwell
- 6/22 18+ GBH, Canton Sam Jaffe
- 6/26 8 HPM, Woburn MBC (Steve Moore)
- 6/26 12 GBH, Canton E.Nielsen+R.Hamburger
- 7/2 1 Rowden Yard, Leicester Mark Rowden 7/11 2 Rowden Yard, Leicester - Mark Rowden
- 7/19 1 Boxford Russ Hopping

#### **Hickory Hairstreak**

6/18 1 World's End, Hingham - Bob Bowker

#### Striped Hairstreak

- 6/21 10+ HPM, Woburn Sue+Ron Cloutier
- 6/22 1 GBH, Canton Sam Jaffe
- 6/23 15 HPM, Woburn Steve Moore+Barbara Volkle
- 6/26 1 Water Tower Field, NP Bo Zaremba
- 6/27 1 Wachusett WS, Princeton S. Moore+B. Volkle
- 7/3 1 The Ordway Property, W Newbury Erik Nielsen
- 7/3 1 Maudslay SP, NP Bo Zaremba
- 7/4 1 E Longmeadow Karen Parker
- 7/5 2 Rowden Yard, Leicester Mark Rowden

#### **Oak Hairstreak**

- 6/11 2 GBH, Canton Sam Jaffe
- 6/15 2 GBH, Canton Steve Moore #
- 6/26 1 GBH, Canton E.Nielsen+R.Hamburger

#### **Brown Elfin**

- 4/4 1 GBH. Canton Sam Jaffe
- 4/5 1 Sherborn PL Bob Bowker
- 4/5 1 W Tisbury SF Judy Holland
- 4/12 15 Sherborn PL Bob Bowker
- 4/14 15 MSSF, Plymouth Steve Moore+Tom Prince
- 4/21 52 Wellfleet Bay Ws. Wellfleet Mark Faherty
- 4/21 15 Montague Ron+Sue Cloutier 4/24 32 MSSF, Plymouth - Erik Nielsen
- 5/1 1 Lamson Rd, Foxborough Madeline Champagne
- 5/1 6 Westfield Steve Moore+Barbara Volkle 5/10 3 Chickatawbut Hill, Milton - Sam Jaffe
- 5/15 1 Weir Hill Res, N Andover MBC
- (H. Hoople+R. Hopping)
- 6/6 2 Crane WMA, Falmouth Alison Robb

#### **Hoary Elfin**

- 4/12 1 Long Point, W Tisbury Russ Hopping
- 4/14 1 MSSF, Plymouth Bo Zaremba
- 4/21 3 W Tisbury SF Matt Pelikan
- 4/22 5 Wellfleet Bay Ws, Wellfleet Mark Faherty
- 4/24 1 MV SF Matt Pelikan
- 4/24 13 MSSF, Plymouth Erik Nielsen
- 5/23 9 MSSF, Plymouth MBC (E.Nielsen)

#### Frosted Elfin

- 4/8 1 Weir Hill Res, N Andover H.Hoople+R.Hopping
- 4/14 28 Westfield Tom Gagnon
- 4/21 2 HPM, Woburn Howard Hoople+Steve Moore
- 4/21 1 Montague Ron+Sue Cloutier
- 4/24 3 MSSF, Plymouth Bo Zaremba

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- 4/24 35 Westfield Tom Gagnon#
- 5/1 15 Acton Tom Whelan
- 5/5 14 Lamson Rd, Foxborough Madeline Champagne
- 5/23 5 MSSF, Plymouth MBC (E.Nielsen)
- 5/24 39 Lamson Rd, Foxborough Madeline Champagne
- 5/31 8 Crane WMA, Falmouth Alison Robb
- 6/3 2 Sherborn PL Bob Bowker
- 6/4 11 Lamson Rd, Foxborough Madeline Champagne

#### **Henry's Elfin**

- 4/4 1 Plum Island Erik Nielsen
- 4/11 2 Acton Erik Nielsen
- 4/12 1 Sherborn PL Bob Bowker
- 4/21 5 Great Meadow, Arlington Tom Whelan
- 4/24 2 Juniper Hill, Lexington Mark Rainey
- 4/30 1 Fowl Meadows, Milton Sam Jaffe
- 5/2 1 Oxbow NWR, Harvard S. Moore+B. Volkle
- 5/21 2 Crane WMA, Falmouth Alison Robb
- 5/22 4 Tom Swamp, Petersham T. Gagnon+B. Ripley
- 5/23 1 Tom Swamp, Petersham MBC (Tom Gagnon)

#### Eastern Pine Elfin

- 4/5 1 Sherborn PL Bob Bowker
- 4/11 1 GBH, Canton Sam Jaffe
- 4/13 1 Florence Tom Gagnon
- 4/14 1 Ward Res, Andover Howard Hoople
- 4/14 1 MSSF, Plymouth Steve Moore+Tom Prince
- 4/24 3 MV SF Matt Pelikan
- 4/24 4 MSSF. Plymouth Bo Zaremba
- 4/24 6 Westfield Tom Gagnon#
- 5/1 2 Acton Tom Whelan
- 5/2 13 S Quabbin Mark Lynch+Sheila Carroll
- 5/2 4 Dauphinais Park, Grafton Dolores Price
- 5/23 3 Tom Swamp, Petersham MBC (Tom Gagnon)
- 5/25 1 Brentwood CA, Holliston Bob Bowker
- 5/28 1 E Longmeadow Karen Parker
- 5/30 1 Whately Bill Benner
- 5/30 1 Muddy Brook, Ware Brian Klassanos

5/5 3 Juniper Hill, Lexington - Tom Whelan

5/20 1 Juniper Hill, Lexington - Steve Moore

6/26 1 MHF. Sharon - Madeline Champagne

9/19 1 Montserrat, Beverly - Karen Haley 9/21 1 Montserrat, Beverly - Karen Haley

9/11 1 AP Allens Neck, Dartmouth - D.Price+W.Miller

4/8 1 Weir Hill Res, N Andover - H.Hoople+R.Hopping

5/11 3 Weir Hill Res, N Andover - S.Stichter + H.Hoople 7/3 12 GBH, Canton - MBC (S.Moore+B.Volkle)

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9/11 6 AP, Dartmouth - Dolores Price+Wendy Miller

10/17 1 Millennium Park, Roxbury - Bob Bowker

4/21 1 Wellfleet Bay Ws, Wellfleet - Mark Faherty

9/14 1 Gooseberry Neck, Westport - M. Champagne

#### **Juniper Hairstreak**

White M Hairstreak

4/23 1 Palmer - Chris Buelow

9/21 1 Chilmark - Matt Pelikan

4/11 1 GBH, Canton - Sam Jaffe

9/18 2 HPM, Woburn - Howard Hoople

10/1 1 Vinevard Haven - Matt Pelikan

5/1 1 Acton - Tom Whelan

10/11 2 NP - Bo Zaremba

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**Gray Hairstreak** 

5/7 1 W Tisbury SF - Matt Pelikan

- 4/21 1 HPM, Woburn Howard Hoople+Steve Moore
- 4/24 1 Oak Bluffs Matt Pelikan 4/24 2 HPM, Woburn - Howard Hoople 5/2 1 Northampton - Joshua Rose

10/26 1 Beverly - Karen Haley

#### Early Hairstreak

5/30 3 Mount Greylock - Tom Gagnon#

#### Eastern Tailed-Blue

- 4/15 1 Weir Hill Res, N Andover Howard Hoople
- 4/21 1 HPM, Woburn Howard Hoople+Steve Moore
- 4/21 6 W Tisbury SF Matt Pelikan 5/1 20+ HPM, Woburn - Mark Rainey
- 5/7 14 Caratunk WR, Seekonk Michael Kieron
- 5/16 6 MHF, Sharon Madeline Champagne
- 6/27 8 Muddy Brook, Ware Brian Klassanos
- 7/17 10 Leicester Dolores Price#
- 7/25 20+ Wendell Carl Kamp#
- 9/6 15 Crane WMA, Falmouth Alison Robb
- 9/12 21 MSSF, Plymouth Bo Zaremba
- 9/18 18 HPM, Woburn Howard Hoople
- 9/21 6 Chilmark Matt Pelikan
- 9/24 11 Chelmsford PL Bob Bowker
- 10/2 1 Wayland CG Mark Rainey
- 10/8 2 World's End, Hingham Bob Bowker
- 10/11 2 Dauphinais Park, Grafton Dolores Price
- 10/11 2 SF, Edgartown Matt Pelikan
- 10/11 3 AP, Dartmouth Bob Bowker

#### Spring Azure

- 3/20 1 E Longmeadow Karen Parker
- 3/20 1 Muddy Brook, Ware Brian Klassanos
- 4/1 2 AP, Dartmouth Lauren Miller-Donnelly
- 4/1 1 S Amherst Harvey Allen
- 4/1 9 Sherborn PL Bob Bowker
- 4/2 7 Boxford Russ Hopping
- 4/3 68 Noanet Woodlands Res., Dover Erik Nielsen
- 4/4 21 Lamson Rd, Foxborough Madeline Champagne
- 4/5 13 Hoft Farm, W Tisbury Matt Pelikan
- 4/8 37 Sherborn PL Bob Bowker
- 4/14 851 MSSF, Plymouth Steve Moore+Tom Prince
- 4/24 250+ MSSF, Plymouth Bo Zaremba
- 4/24 45 MV SF Matt Pelikan
- 5/1 40 Ware River Watershed, Barre M.Lynch+S.Carroll
- 5/2 54 S Quabbin Mark Lynch+Sheila Carroll
- 5/7 45 W Tisbury SF Matt Pelikan
- 5/15 13 New Marlborough Mark Lynch+Sheila Carroll
- 5/21 2 Crane WMA, Falmouth Alison Robb
- 5/25 3 AP, Dartmouth Lauren Miller-Donnelly
- 5/27 8 Wellfleet Bay Ws, Wellfleet Mark Faherty
- 5/30 1 Royalston Carl Kamp
- 5/30 2 Rowden Yard, Leicester Mark Rowden

#### Cherry Gall Azure

- 5/2 1 Juniper Hill, Lexington Mark Rainey
- 5/7 2 Barry Yard, Paxton Elise Barry
- 5/10 8 Sherborn PL Bob Bowker
- 5/15 ~20 Woods Preserve, W Tisbury Matt Pelikan
- 5/17 16 Dunback Meadows, Lexington -
- B.Bowker+F.Bouchard
- 5/21 1 CST, Westborough Steve Moore+Barbara Volke

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- 5/23 1 MSSF, Plymouth MBC (E.Nielsen)
- 5/25 3 Tom Swamp, Petersham Frank Model
- 5/25 9 Brentwood CA, Holliston Bob Bowker
- 6/7 1 Weir Hill Res, N Andover Howard Hoople

#### Summer Azure

- 5/26 1 S-C TTOR, N Andover Russ Hopping
- 5/30 1 Boxford Russ Hopping
- 6/15 2 GBH, Canton Steve Moore #
- 6/15 1 Barry Yard, Paxton Elise Barry

- 6/20 1 Muddy Brook, Ware Brian Klassanos
- 6/23 3 CST, N/W.borough Steve Moore#
- 6/26 4 GBH, Canton E.Nielsen+R.Hamburger
- 6/29 1 Graves Farm, Williamsburg Tom Gagnon#
- 6/30 3 Moore SP, Paxton Elise Barry
- 7/3 9 Old Town Hill, Newbury Erik Nielsen
- 7/6 7 Moore SP, Paxton Elise Barry
- 7/11 3 MMP, Williamstown Pam Weatherbee
- 7/21 3 October Mountain SF Tom Gagnon #
- 9/11 1 AP, Dartmouth Dolores Price+Wendy Miller
- 9/16 2 Mount Tom State Res.- Tom Gagnon
- 9/19 1 Whately Bill Benner

#### Azure Sp.

- 4/20 5 Ward Res. Andover Howard Hoople
- 4/30 10 Lamson Rd, Foxborough Madeline Champagne
- 5/1 21 Acton Tom Whelan

#### Silvery Blue

- 4/15 1 Westfield Erin Gillen
- 5/1 1 Muddy Brook, Ware Brian Klassanos
- 5/14 2 South End Pond, Millis Brian Cassie
- 5/15 40 Delaney WMA, Stow MBC (Tom Murray)
- 5/17 4 Cherry Hill Res, W Newbury S. and J. Stichter
- 5/28 1 Windsor Bo Zaremba
- 5/30 2 Cherry Hill Res, W Newbury Erik Nielsen
- 5/31 1 Muddy Brook, Ware Brian Klassanos
- 6/4 6+ New Lenox Rd, Lenox Tom Fiore

#### American Snout

- 5/20 1 Windsor Tom Gagnon
- 9/6 1 Gay Head Matt Pelikan

#### Variegated Fritillary

- 6/18 1 Chatham Mark Faherty
- 7/10 1 Muddy Brook, Ware Brian Klassanos
- 7/17 1 Brewster NABA Alison Robb
- 8/31 1 Northampton CG Madeline Champagne
- 9/3 1 Northampton CG Bill Benner
- 10/9 1 AP, Dartmouth Lauren Miller-Donnelly

6/9 5 MBWMA, Newbury - Sharon and Joe Stichter

6/10 1 MCRT - Mushopauge, Rutland - Elise Barry

6/18 1 Old Manse TTOR, Concord - Russ Hopping

6/25 3 MCP, Burlington/Woburn - Sharon Stichter

6/27 30 Graves Farm, Williamsburg - Bill Benner

7/11 5 MMP, Williamstown - Pam Weatherbee

7/31 8 Monterey - Mark Lynch+Sheila Carroll

10/3 2 Muddy Brook, Ware - Brian Klassanos

7/4 1 Muddy Brook, Ware - Brian Klassanos

7/6 1 W Soumi Field, Paxton - Elise Barry

7/11 25 New Marlborough - Mark Lynch+Sheila Carroll

8/21 19 Cheshire-Savoy - Mark Lynch+Sheila Carroll

9/19 5 Northampton CG - MBC (Benner+Gagnon)

6/15 2 F&G Fields, Westborough - Steve Moore

6/20 25 Muddy Brook, Ware - Brian Klassanos

6/26 12 MHF, Sharon - Madeline Champagne

7/5 23 MHF, Sharon - Erik Nielsen

7/17 3 Leicester - Dolores Price#

**Aphrodite Fritillary** 

7/6 11 Moore SP, Paxton - Elise Barry

9/25 2 E Longmeadow - Karen Parker

6/18 1 World's End, Hingham - Bob Bowker

#### Great Spangled Fritillary

6/8 1 Athol - Dave Small

6/19 1 Gill - Carl Kamp

6/1 1 Muddy Brook, Ware - Brian Klassanos6/5 1 Broadmoor WS, Natick - Greg Dysart

- 7/8 2 Tully Dam, Royalston MBC (Frank Model)
- 7/8 8 Holden Carl Kamp
- 7/11 2 Graves Farm, Williamsburg MBC (Bill Benner)
- 7/11 1 New Marlborough Mark Lynch+Sheila Carroll
- 7/15 1 DCR Sterling Rd, Holden Elise Barry
- 7/21 1 October Mountain SF Tom Gagnon #
- 7/28 1 Haley Yard, Marblehead Karen Haley
- 8/14 1 Muddy Brook, Ware Brian Klassanos
- 8/28 1 Williamstown Bo Zaremba

#### **Atlantis Fritillary**

- 6/18 2 West Cummington Barbara Spencer
- 7/11 1 New Marlborough Mark Lynch+Sheila Carroll
- 7/16 5 Mount Greylock Tom Gagnon
- 7/21 6 October Mountain SF Tom Gagnon #
- 7/31 1 Monterey Mark Lynch+Sheila Carroll

#### Silver-bordered Fritillary

- 5/16 1 Muddy Brook, Ware Brian Klassanos
- 5/17 1 Mount Tom State Res.- Carl Kamp
- 5/23 6 Tully Dam, Athol/Royalston C. Kamp+A. Mayo
- 5/26 6 Umass Campus, Amherst Frank Model
- 5/28 1 Windsor Bo Zaremba
- 5/30 1 Whately Bill Benner
- 6/27 3 Tully Dam, Royalston S. Moore+B. Volkle
- 7/3 14 Muddy Brook, Ware Brian Klassanos
- 7/24 4 Westport Brian Cassie
- 7/25 10 Wendell Carl Kamp# 9/6 16 Muddy Brook, Ware - Brian Klassanos
- 9/6 16 Muddy Brook, Ware Brian Klassano
- 9/11 2 Topsfield Sharon Stichter
- 9/11 5 AF, Hamilton/Ipswich Russ Hopping et al
- 9/22 1 Savoy Tom Gagnon

#### Meadow Fritillary

- 5/25 1 E Longmeadow Karen Parker
- 5/28 1 Williamstown Bo Zaremba
- 6/16 1 Savoy Barbara Spencer
- 6/29 3 Graves Farm, Williamsburg Tom Gagnon#
- 7/11 2 New Marlborough Mark Lynch+Sheila Carroll
- 8/2 1 Royalston Carl Kamp
- 8/7 3 Tyringham Mark Lynch+Sheila Carroll
- 8/28 2 Williamstown Bo Zaremba
- 10/11 1 Williamstown Pam Weatherbee

#### Harris' Checkerspot

- 5/25 2 Weir Hill Res, N Andover Howard Hoople
- 6/5 3 Royalston Carl Kamp+Alyce Mayo
- 6/8 6 NCM, Petersham Bo Zaremba
- 6/18 1 MBWMA, Newbury Sharon Stichter
- 6/19 1 Royalston Carl Kamp
- 7/4 3 Weir Hill Res, N Andover Howard Hoople

#### Pearl Crescent

- 5/1 1 Muddy Brook, Ware Brian Klassanos
- 5/1 1 So.Main St.PL, Millbury W. Miller+D. Price
- 5/1 2 Dauphinais Park, Grafton W. Miller+D. Price
- 5/3 3 Rte2&128 Office Park, Lexington Tom Whelan
- 5/5 1 Quabbin Park, Belchertown Ron+Sue Cloutier
- 5/6 16 W Bridgewater Don Adams
- 5/11 27 Baseball Field, Rowley Bo Zaremba
- 5/13 75 World's End, Hingham Bob Bowker
- 5/15 12 Delaney WMA, Stow MBC (Tom Murray)
- 5/16 35 Muddy Brook, Ware Brian Klassanos
- 5/17 200 Cherry Hill Res, W Newbury S. and J. Stichter

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- 5/21 50+ Crane WMA, Falmouth Alison Robb
- 6/4 ~200 Nat's Farm, W Tisbury Matt Pelikan
- 7/8 200 Maudslay SP, NP S. Stichter + Bo Zaremba
- 7/11 20+ MMP, Williamstown Pam Weatherbee
- 7/15 200 Fruitlands, Harvard Sharon Stichter

- 7/17 274 Leicester Dolores Price#
- 7/18 250-300 Muddy Brook, Ware Brian Klassanos
- 7/31 135+ Monterey Mark Lynch+Sheila Carroll
- 8/1 110 World's End, Hingham Bob Bowker
- 8/28 50+ Williamstown Bo Zaremba
- 9/6 51 Muddy Brook, Ware Brian Klassanos
- 9/14 80 Waring Field, Rockport S.Stichter and H.Hoople
- 10/11 1 Williamstown Pam Weatherbee
- 10/11 2 NP Bo Zaremba
- 10/11 2 Dauphinais Park, Grafton Dolores Price 10/18 1 MCP, Burlington/Woburn - Bob Bowker

### **Baltimore Checkerspot**

- 6/5 10 W Bridgewater Don Adams
- 6/11 200 Marston Mills Airport Tor Hansen
- 6/14 14 S-C TTOR, N Andover Russ Hopping
- 6/18 26 World's End, Hingham Bob Bowker
- 6/19 50-60 W Bridgewater Don Adams
- 6/26 17 Weir Hill Res, N Andover Howard Hoople
- 6/28 20 AP Field Station, Dartmouth L. Miller-Donnelly
- 7/3 6 AF, Hamilton/Ipswich Sharon Stichter#
- 7/3 12 MPRA, W Newbury Erik Nielsen
- 7/3 1 Maudslay SP, NP Bo Zaremba
- 7/4 10 Weir Hill Res, N Andover Howard Hoople
- 7/11 1 Muddy Brook, Ware Brian Klassanos
- 7/11 2 MMP, Williamstown Pam Weatherbee
- 7/21 1 George L Darey WMA, Lenox Tom Gagnon #

#### **Question Mark**

- 3/20 1 Oak Hill Cem., NP Bo Zaremba
- 3/20 1 Sheffield Mark Lynch+Sheila Carroll
- 4/19 1 AP Allens Neck, Dartmouth Erik Nielsen
- 4/20 2 Pilgrim Heights, Truro Don Manchester
- 5/13 1 World's End, Hingham Bob Bowker
- 6/25 1 Quabbin Park, Belchertown Sue+Ron Cloutier

10/9 1 AP, Dartmouth - Steve Moore+Barbara Volkle

6/27 2 Muddy Brook, Ware - Brian Klassanos

10/11 1 Katama, Edgartown - Matt Pelikan

3/8 2 Ward Res, Andover - Howard Hoople

3/17 1 CST, N/W.borough - Steve Moore

3/17 1 BMB WS, Worcester - Martha Gach

3/16 7 Mount Tom State Res.- Tom Gagnon #

3/19 10 Bradley Palmer SP, Hamilton - Jim Berry

3/20 15 Broadmoor WS, Natick - Bob Bowker

4/4 2 Mumford Forest, Natick - Greg Dysart4/8 2 Muddy Brook, Ware - Brian Klassanos

9/17 3 Larkin RA, Northbridge - Bob Bowker

10/9 1 Tyringham - Mark Lynch+Sheila Carroll

10/26 1 Rowden Yard, Leicester - Mark Rowden

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10/28 1 World's End, Hingham - Bob Bowker

11/13 1 Wrentham - Madeline Champagne

7/24 1 Hyde Park - Paula Chasan

10/11 1 Grafton - Dolores Price

11/13 1 Amherst - Joshua Rose

9/22 1 Windsor - Tom Gagnon

8/28 1 Williamstown - Bo Zaremba

Green Comma

**Gray Comma** 

8/7 3 E Longmeadow - Karen Parker

- 7/5 2 E Longmeadow Karen Parker
- 8/21 1 FS WMA, Longmeadow Bo Zaremba
- 9/22 1 Windsor Tom Gagnon 10/8 1 Hyde Park - fide Mark Faherty

Eastern Comma

#### Compton Tortoiseshell

- 3/20 5 Mumford Forest, Natick Bob Bowker
- 4/2 1 Boxford Russ Hopping
- 4/4 1 Mumford Forest, Natick Greg Dysart
- 4/11 1 Boxford Russ Hopping
- 6/4 5 Mount Greylock Tom Fiore
- 6/22 1 GBH, Canton Sam Jaffe

#### Mourning Cloak

- 3/9 1 Winchendon Keith Parker
- 3/16 2 Ward Res, Andover Howard Hoople
- 3/16 9 Mount Tom State Res.- Tom Gagnon #
- 3/16 1 Muddy Brook, Ware Brian Klassanos 3/20 1 Ellisville Harbor SP, Plymouth - Mark Faherty
- 3/20 8 Mumford Forest, Natick Bob Bowker
- 4/3 15 Mount Tom State Res.- MBC (Tom Gagnon)
- 4/5 2 Paloma Park, Holliston Bob Bowker
- 4/11 1 Ravenswoods Park, Gloucester Susan Hedman
- 4/21 2 Great Meadow, Arlington Tom Whelan
- 5/4 2 Roberts Rd., Sandisfield Mark Rowden
- 9/19 1 E Longmeadow Karen Parker
- 9/21 2 Chilmark Matt Pelikan
- 10/11 1 Katama, Edgartown Matt Pelikan
- 10/17 1 Westport Mark Lynch+Sheila Carroll
- 11/13 1 Royalston Carl Kamp

### **Milbert's Tortoiseshell**

- 4/8 1 Williamstown Pam Weatherbee
- 5/30 4 Whately Bill Benner
- 5/30 2 Muddy Brook, Ware Brian Klassanos
- 6/4 5 Muddy Brook, Ware Brian Klassanos
- 7/7 1 Fairgrounds, Cummington Barbara Spencer
- 7/11 1 Whately Bill Benner
- 7/15 1 Rowden Yard, Leicester Mark Rowden
- 10/13 1 Shelburne Falls Jeff Boettner

#### American Lady

- 4/8 1 W Tisbury SF Matt Pelikan
- 4/10 1 Manchester Susan Hedman
- 4/14 1 Chatham Mark Faherty
- 5/2 1 Montague Joshua Rose
- 5/2 3 Lamson Rd, Foxborough M.Champagne+B.Cassie
- 5/2 1 Muddy Brook, Ware Brian Klassanos
- 5/5 2 Comm.Gardens, Falmouth Alison Robb
- 5/13 11 Tisbury Matt Pelikan
- 5/20 4 Mount Greylock Tom Gagnon+Bruce Ripley
- 5/21 15 HPM, Woburn Bob Bowker
- 6/30 1 Mt A, Cambridge George McLean
- 7/11 1 New Marlborough Mark Lynch+Sheila Carroll
- 7/16 6 Mount Greylock Tom Gagnon 9/3 2 Northampton CG Bill Benner
- 9/4 12 Sylvan Nursery, Westport Madeline Champagne
- 9/15 8 Milford PL Bob Bowker
- 10/8 42 World's End, Hingham Bob Bowker
- 10/9 2 Harwich Larry Barry
- 10/10 1 Rowden Yard, Leicester Mark Rowden
- 10/11 24 AP, Dartmouth Bob Bowker
- 10/28 7 World's End, Hingham Bob Bowker
- 10/30 1 AP Allens Neck, Dartmouth Erik Nielsen
- 11/13 1 BMB WS, Worcester Howard Hoople

#### Painted Lady

- 5/9 2 W Bridgewater Don Adams
- 5/10 1 Chickatawbut Hill, Milton Sam Jaffe
- 5/13 2 World's End, Hingham Bob Bowker
- 5/16 1 Katama, Edgartown Matt Pelikan
- 5/20 2 W Bridgewater Don Adams
- 5/21 1 BMB WS, Worcester Dolores Price

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- 6/25 1 HPM, Woburn Sharon Stichter
- 8/26 1 Barry Yard, Paxton Elise Barry
- 8/27 4 Wayland CG Steve Moore+Barbara Volkle
- 10/10 2 Beverly Karen Haley
- 10/12 1 NP Bo Zaremba 10/28 5 World's End, Hingham Bob Bowker
- 10/30 2 AP Allens Neck, Dartmouth Erik Nielsen
- 11/12 1 Nahant Linda Piyacek

#### Red Admiral

- 5/2 1 Muddy Brook, Ware Brian Klassanos
- 5/2 1 Stichter Yard, Newbury Sharon and Joe Stichter
- 5/2 1 MSSF, Plymouth Bo Zaremba
- 5/2 1 Dauphinais Park, Grafton Dolores Price
- 5/2 1 AP. Dartmouth Lauren Miller-Donnelly
- 5/10 15+ Chickatawbut Hill, Milton Sam Jaffe
- 5/15 17 Quabbin Park, Belchertown Greg Dysart
- 5/15 21 New Marlborough Mark Lynch+Sheila Carroll
- 5/16 105+ Buck Hill, Spencer Dolores Price
- 5/16 26 Stichter Yard, Newbury Sharon Stichter
- 5/17 35 Dunback Meadows, Lexington -
  - B.Bowker+F.Bouchard
- 5/20 12 Sherborn Madeline Champagne
- 5/20 60 Park School, Brookline Brian Cassie
- 5/20 16 Muddy Brook, Ware Brian Klassanos
- 5/20 13 Mount Greylock Tom Gagnon+Bruce Ripley
- 5/21 23 BMB WS, Worcester Dolores Price
- 6/25 200 Katama, Edgartown Matt Pelikan
- 10/8 54 World's End, Hingham Bob Bowker
- 10/9 50+ AP, Dartmouth Steve Moore+Barbara Volkle
- 10/11 22 AP. Dartmouth Bob Bowker
- 10/18 1 Woods Hole Alison Robb
- 10/30 1 AP Allens Neck, Dartmouth Erik Nielsen
- 10/31 1 Nahant Linda Piyacek

#### **Common Buckeye**

5/13 1 Lamson Rd, Foxborough - Madeline Champagne

7/31 1 Cape Cod Organic Farm, Barnstable - A. Robb#

9/18 9 AP, Dartmouth - MBC (Lauren Miller-Donnelly)

6/27 1 Roslindale, Boston - Paula Chasan

7/23 1 Cummington - Barbara Spencer

8/26 1 Gloucester - Susan Hedman

10/10 1 Wayland CG - Greg Dysart #

10/28 1 Millis - Madeline Champagne

5/24 1 Sunderland - Carl Kamp 5/28 1 Skinner SP, Holyoke - Greg Dysart

5/29 1 Boxford - Russ Hopping

6/16 9 Savoy - Barbara Spencer

White Admiral

10/11 11 Katama, Edgartown - Matt Pelikan

7/21 1 October Mountain SF - Tom Gagnon #

7/31 2 Monterey - Mark Lynch+Sheila Carroll

8/21 4 Cheshire-Savoy - Mark Lynch+Sheila Carroll

5/20 1 Lamson Rd, Foxborough - Madeline Champagne

5/21 2 CST, Westborough - Steve Moore+Barbara Volke

8/7 1 Cummington - Barbara Spencer

8/8 1 E Longmeadow - Karen Parker

8/8 1 W Bridgewater - Don Adams

8/28 1 Williamstown - Bo Zaremba

5/17 1 Mount Tom State Res.- Carl Kamp

5/18 1 MPRA, W Newbury - Bo Zaremba

5/25 7 MBWMA, Newbury - Joe Stichter

5/26 2 Muddy Brook, Ware - Brian Klassanos

**Red-spotted Purple** 

6/27 2 Muddy Brook, Ware - Brian Klassanos 7/11 1 Graves Farm, Williamsburg - MBC (Bill Benner) 7/19 1 Stichter Yard, Newbury - Joe Stichter

- 5/30 3 Cherry Hill Res, W Newbury Erik Nielsen
- 5/30 4 Muddy Brook, Ware Brian Klassanos
- 5/30 6 MBWMA, Newbury Sharon and Joe Stichter
- 6/2 2 Hatchville Woods, Falmouth Alison Robb
- 6/16 12 Savoy Barbara Spencer
- 7/21 8 October Mountain SF Tom Gagnon #
- 7/21 1 George L Darey WMA, Lenox Tom Gagnon #
- 7/26 1 Harwich Larry Barry
- 7/31 16 Monterey Mark Lynch+Sheila Carroll
- 8/8 1 Whately Bill Benner
- 8/28 1 Stichter Yard, Newbury Sharon Stichter
- 9/6 2 E Bridgewater Eddie Giles
- 9/10 1 Sylvan Nursery, Westport Madeline Champagne
- 9/11 1 AP, Dartmouth Dolores Price+Wendy Miller

#### Vicerov

- 5/16 1 Sherborn PL Bob Bowker
- 5/20 1 MCP, Burlington/Woburn Bob Bowker
- 5/21 1 CST, Northborough Steve Moore+Barbara Volke
- 5/21 2 Muddy Brook, Ware Brian Klassanos
- 5/22 2 W Bridgewater Don Adams
- 5/30 12 Muddy Brook, Ware Brian Klassanos
- 6/12 5 Rehoboth MBC (Lauren Miller-Donnelly)
- 7/11 1 MMP, Williamstown Pam Weatherbee
- 7/11 2 Graves Farm, Williamsburg MBC (Bill Benner)
- 7/17 4 Leicester Dolores Price#
- 7/27 9 MBWMA, Newbury Joe Stichter
- 8/26 7 MBWMA, Newbury Joe Stichter
- 9/6 8 Muddy Brook, Ware Brian Klassanos
- 9/15 5 Milford PL Bob Bowker
- 9/19 1 W Meadows, Northampton MBC
- (B. Benner+ T. Gagnon) 9/19 1 Northampton CG - MBC (Benner+Gagnon)
- 10/2 1 Wayland CG Bo Zaremba

10/2 1 Dartmouth/Westport - Bob Bowker+Ron Hamburger

### Hackberry Emperor

- 7/25 1 Longmeadow Bob Tynan
- 8/9 1 Forest Park, Springfield Tom Gagnon#
- 8/21 2 Forest Park, Springfield Bo Zaremba

#### **Tawny Emperor**

- 7/9 1 Bart's Cobble, Sheffield Tom Gagnon+Bill Benner
- 7/15 3 Mount Holyoke SP, Holyoke Tom Gagnon #
- 7/26 1 Springfield Bob Bowker+Bob Tynan

#### Northern Pearly-Eye

- 6/22 1 Wales Carl Kamp
- 6/25 3 Quabbin Park, Belchertown Sue+Ron Cloutier
- 6/29 1 Fuitlands, Harvard Sharon Stichter
- 6/29 1 Barry Yard, Paxton Elise Barry
- 7/1 1 Champagne yard, Foxborough Madeline
- Champagne
- 7/2 1 Ward Res, Andover Howard Hoople
- 7/4 4 Muddy Brook, Ware Brian Klassanos
- 7/11 1 New Marlborough Mark Lynch+Sheila Carroll
- 7/11 1 Whately Bill Benner
- 7/15 1 DCR Sterling Rd, Holden Elise Barry
- 7/18 1 CST, Marlborough MBC (S.Moore+B.Volkle)

#### Eved Brown

- 6/5 2 CST, Northborough Steve Moore+Barbara Volkle
- 6/8 2 Sherborn PL Bob Bowker
- 6/15 1 Weir Hill Res, N Andover Howard Hoople
- 6/18 1 MBWMA, Newbury Sharon Stichter
- 6/18 1 Hinsdale Frank Model 6/19 3 Gill - Carl Kamp
- 7/4 10 Weir Hill Res, N Andover Howard Hoople

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- 7/8 5 Branch Bridge, New Salem MBC (Frank Model)
- 7/17 1 CST, Northborough Steve Moore+Barbara Volkle
- 8/2 4 Royalston Carl Kamp

#### **Appalachian Brown**

- 6/11 7 Sherborn PL Bob Bowker
- 6/15 1 Weir Hill Res, N Andover Howard Hoople
- 6/23 3 CST, N/W.borough Steve Moore#
- 7/3 8 Maudslay SP, NP Bo Zaremba
- 7/4 1 Muddy Brook, Ware Brian Klassanos
- 7/5 6 Sherborn Gas Line Bob Bowker
- 7/16 1 Mount Greylock Tom Gagnon
- 8/21 13 FS WMA, Longmeadow Bo Zaremba
- 9/5 2 CST, Westborough Steve Moore+Barbara Volkle
- 9/11 1 Ouabbin Park, Belchertown Joshua Rose
- 9/15 1 AF, Hamilton/Ipswich Russ Hopping

#### Little Wood-Satvr

- 5/13 4 World's End, Hingham Bob Bowker
- 5/15 3 S-C TTOR, N Andover Howard Hoople #
- 5/16 2 MHF, Sharon Madeline Champagne
- 5/17 1 W Bridgewater Don Adams
- 5/17 3 Lamson Rd, Foxborough Madeline Champagne
- 5/20 20 MCP, Burlington/Woburn Bob Bowker
- 5/24 85 Lamson Rd, Foxborough Madeline Champagne
- 5/27 400 MCP, Burlington/Woburn Sharon+Joe Stichter
- 6/4 40 Nat's Farm, W Tisbury Matt Pelikan
- 6/26 20+ Water Tower Field, NP Bo Zaremba
- 6/27 21 Graves Farm, Williamsburg Bill Benner
- 6/30 9 Muddy Brook, Ware Brian Klassanos
- 7/5 17 E Longmeadow Karen Parker
- 7/11 4 Graves Farm, Williamsburg MBC (Bill Benner)
- 7/17 3 Carney Res., Northborough S.Moore+B.Volkle
- 7/18 1 CST, Northborough/Westborough MBC
- 7/25 1 E Longmeadow Karen Parker
- 7/31 1 Rowden Yard, Leicester Mark Rowden

#### Common Ringlet

5/13 1 Florence - Tom Gagnon

- 4/4 1 MPRA, W Newbury Bo Zaremba
- 5/5 1 Ward Res. Andover Howard Hoople
- 5/13 85 World's End, Hingham Bob Bowker 5/13 1 Tisbury - Matt Pelikan 5/14 200+ South End Pond, Millis - Brian Cassie

5/21 100+ Pump House, Athol - Bo Zaremba 5/23 MSSF, Plymouth - MBC (E.Nielsen)

5/25 200+ Maudslay SP, NP - Bo Zaremba5/30 150 Muddy Brook, Ware - Brian Klassanos

5/31 36 Crane WMA, Falmouth - Alison Robb

5/31 100 Muddy Brook, Ware - Brian Klassanos

6/5 50+ Royalston - Carl Kamp+Alyce Mayo

7/31 68 Marston Mills Airport - Alison Robb#

8/1 95 World's End, Hingham - Bob Bowker

9/24 5 Chelmsford PL - Bob Bowker

Common Wood-Nymph

6/22 1 HPM, Woburn - Bo Zaremba

6/29 3 Sherborn PL - Bob Bowker

8/14 25 Muddy Brook, Ware - Brian Klassanos

5/16 45 Carney Res., Northborough - S.Moore+B.Volkle

5/31 41 Sprague St., Foxborough - Madeline Champagne

7/20 40 Adams Farm, Walpole - Madeline Champagne

9/25 1 Sedge Meadow, Wayland - MBC (Erik Nielsen)

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10/2 1 Weir Hill Res, N Andover - Howard Hoople 10/8 1 Muddy Brook, Ware - Brian Klassanos

10/11 1 Dauphinais Park, Grafton - Dolores Price

6/26 2 MHF, Sharon - Madeline Champagne

6/26 3 Pittsfield - Tom Gagnon+Harvey Allen

6/26 1 Water Tower Field, NP - Bo Zaremba

- 6/30 1 Williams Land, Harvard Steve Moore
- 7/3 12+ E Longmeadow Karen Parker
- 7/5 82 MHF, Sharon Erik Nielsen
- 7/8 100 Maudslay SP, NP S. Stichter + Bo Zaremba
- 7/11 103 New Marlborough Mark Lynch+Sheila Carroll
- 7/11 35+ Graves Farm, Williamsburg MBC (B. Benner)
- 7/17 65+ Leicester Dolores Price#
- 8/1 18 World's End, Hingham Bob Bowker
- 8/14 16 Muddy Brook, Ware Brian Klassanos
- 8/28 5 Williamstown Bo Zaremba
- 9/1 2 Maudslay SP, NP Bo Zaremba
- 9/6 1 E Longmeadow Karen Parker
- 9/17 1 Larkin RA, Northbridge Bob Bowker

#### Monarch

- 5/15 1 Ffolliott's Farm, Ipswich Sissy Ffolliott
- 5/17 1 Cherry Hill Res, W Newbury S. and J. Stichter
- 5/25 1 E Longmeadow Karen Parker
- 5/25 1 AP, Dartmouth Lauren Miller-Donnelly
- 5/30 1 Winchendon Carl Kamp
- 6/26 2 Florence Tom Gagnon
- 6/27 18 Graves Farm, Williamsburg Bill Benner
- 7/2 4 MBWMA, Newbury Sharon and Joe Stichter
- 7/3 3 GBH, Canton MBC (S.Moore+B.Volkle)
- 7/11 10 Graves Farm, Williamsburg MBC (Bill Benner)
- 7/31 20 LPWS, Barnstable Alison Robb#
- 8/8 6 Muddy Brook, Ware Brian Klassanos
- 8/21 47 Cheshire-Savoy Mark Lynch+Sheila Carroll
- 9/11 120 Gooseberry Neck, Westport Brian Cassie 9/17 8 Mount Tom State Res.- Tom Gagnon
- 9/19 12 G35 Quabbin Mark Lynch+Sheila Carroll
- 9/21 147 Gooseberry Neck, Westport M. Champagne
- 9/25 24 NAC, Concord MBC (Erik Nielsen)
- 10/8 60 World's End, Hingham Bob Bowker
- 10/11 45 Katama, Edgartown Matt Pelikan
- 10/14 1 Deerfield Jeff Boettner
- 10/26 1 Baldwinville Earle Baldwin
- 10/28 3 World's End, Hingham Bob Bowker
- 10/30 17 AP Allens Neck, Dartmouth Erik Nielsen
- 10/31 1 Nahant Linda Pivacek

#### Silver-spotted Skipper

- 5/14 1 Dinosaur Footprints TTOR, Holyoke -MBC (Tom Gagnon)
- 5/15 2 Weir Hill Res, N Andover MBC
- (H. Hoople+ R. Hopping)
- 5/27 1 Wellfleet Bay Ws, Wellfleet Mark Faherty
- 5/30 5 Muddy Brook, Ware Brian Klassanos
- 5/30 1 Whately Bill Benner
- 6/16 7 MBWMA, Newbury Joe Stichter
- 6/18 5 Little River Nature Trail, NP Sharon Stichter
- 6/30 7 CST, N/W.borough Steve Moore+Barbara Volkle
- 7/2 2 Cummington Barbara Spencer
- 7/3 102 Old Town Hill, Newbury Erik Nielsen
- 7/3 8 Cummington Barbara Spencer
- 7/3 34 Cherry Hill Res, W Newbury Erik Nielsen
- 7/11 20+ Graves Farm, Williamsburg MBC (B. Benner)
- 7/17 40 Leicester Dolores Price#
- 7/18 5 Royalston Carl Kamp
- 7/22 1 Chicopee Moe O'Connor
- 8/13 6 Sherborn PL Bob Bowker+Leslie Stillwell
- 8/21 5 FS WMA, Longmeadow Bo Zaremba
- 8/21 2 Sylvan Nursery, Westport Madeline Champagne9/3 1 Northampton CG Bill Benner

#### Hoary Edge

- 4/21 3 Wellfleet Bay Ws, Wellfleet Mark Faherty
- 6/6 1 Robinson Sp, Agawam Carl Kamp+Alyce Mayo

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- 6/21 2 HPM, Woburn Sue+Ron Cloutier
- 6/27 2 HPM, Woburn Erik Nielsen #

#### Southern Cloudywing

- 5/25 1 Pump House, Athol Frank Model
- 6/24 1 Hatchville Woods, Falmouth Alison Robb
- 6/25 1 HPM, Woburn Sharon Stichter
- 6/26 2 Water Tower Field, NP Bo Zaremba 6/29 1 MBWMA, Newbury - Sharon Stichter

#### Northern Cloudywing

- 5/1 2 Ware River Watershed, Barre M.Lynch+S.Carroll
- 5/15 2 Weir Hill Res, N Andover MBC (H. Hoople+ R. Hopping)
- 5/21 1 BMB WS, Worcester Dolores Price
- 5/21 2 HPM, Woburn Bob Bowker
- 5/23 1 MSSF, Plymouth MBC (E.Nielsen)
- 5/30 4 Dauphinais Park, Grafton Dolores Price
- 5/30 3 MBWMA, Newbury Sharon and Joe Stichter
- 6/2 10 Doyle Res.TTOR, Leominster Russ Hopping
- 6/18 2 World's End, Hingham Bob Bowker
- 6/19 1 Royalston Carl Kamp
- 6/19 1 Muddy Brook, Ware Brian Klassanos
- 6/26 1 HPM, Woburn MBC (Steve Moore)
- 6/30 2 Millennium Park, Roxbury Bob Bowker
- Dreamy Duskywing
- 4/30 1 Sherborn PL Bob Bowker
- 5/1 1 Muddy Brook, Ware Brian Klassanos
- 5/2 1 Lamson Rd, Foxborough M.Champagne+B.Cassie
- 5/4 2 NCM, Petersham Ron+Sue Cloutier
- 5/7 3 Baseball Field, Rowley Sharon Stichter
- 5/10 9 Sherborn PL Bob Bowker

4/21 9 W Tisbury SF - Matt Pelikan

4/24 18 MSSF, Plymouth - Erik Nielsen

5/7 23 W Tisbury SF - Matt Pelikan

5/21 1 HPM, Woburn - Bob Bowker

5/23 1 Holden - Carl Kamp

Juvenal's Duskywing

5/1 7 Acton - Tom Whelan

4/20 5 Sherborn PL - Bob Bowker

4/23 1 Wellfleet - Mark Faherty

4/24 18 MV SF - Matt Pelikan

4/24 3 Westfield - Tom Gagnon#

- 5/14 3 Dinosaur Footprints TTOR, Holyoke -MBC (T. Gagnon)
- 5/21 5 BMB WS, Worcester Dolores Price
- 5/23 2 MSSF, Plymouth MBC (E.Nielsen)
- 5/26 1 Lamson Rd, Foxborough Madeline Champagne
- 5/30 2 Dauphinais Park, Grafton Dolores Price
- 5/30 1 Muddy Brook, Ware Brian Klassanos
- 5/30 6 MBWMA, Newbury Sharon and Joe Stichter

4/24 3 CST, Westborough - Steve Moore+Barbara Volkle

5/11 1 Lamson Rd, Foxborough - Madeline Champagne

5/16 3 Carney Res., Northborough - S.Moore+B.Volkle

5/11 3 Brentwood CA, Holliston - Bob Bowker

5/16 2 Delaney WMA, Stow - Steve Moore

5/23 4 MSSF, Plymouth - MBC (E.Nielsen)

4/15 1 Weir Hill Res, N Andover - Howard Hoople 4/20 1 Little River Nature Trail, NP - Bo Zaremba

4/20 3 Weir Hill Res, N Andover - Russ Hopping

4/21 4 Great Meadow, Arlington - Tom Whelan 4/21 17 W Tisbury SF - Matt Pelikan 4/24 43 MV SF - Matt Pelikan

5/1 13 Ware River Watershed, Barre -M.Lynch+S.Carroll

5/2 22 MBWMA, Newbury - Sharon and Joe Stichter

#### Sleepy Duskywing

- 5/2 20 Dauphinais Park, Grafton Dolores Price
- 5/2 36 S Quabbin Mark Lynch+Sheila Carroll5/6 25 Appleton Farms, Ipswich Sharon Stichter #
- 5/6 30+ Met State, Waltham Jason Forbes
- 5/10 29 Sherborn PL Bob Bowker
- 5/13 25 World's End, Hingham Bob Bowker
- 5/15 20 Weir Hill Res, N Andover MBC
- (H. Hoople+R. Hopping) 5/17 14 Dunback Meadows, Lexington -B.Bowker+F.Bouchard
- 5/21 15 Tom Swamp, Petersham Bo Zaremba
- 5/25 12 Tom Swamp, Petersham Frank Model
- 5/30 10 Muddy Brook, Ware Brian Klassanos
- 6/3 3 Sherborn PL Bob Bowker
- 6/4 2 Nat's Farm, W Tisbury Matt Pelikan
- 6/5 1 Royalston Carl Kamp+Alyce Mayo
- 6/6 3 Crane WMA, Falmouth Alison Robb
- 6/7 1 MCRT Muddy Pond, Rutland Elise Barry

#### Horace's Duskywing

- 4/20 1 Weir Hill Res, N Andover Russ Hopping
- 4/24 1 MSSF, Plymouth Erik Nielsen
- 5/7 1 W Tisbury SF Matt Pelikan
- 5/20 1 MCP, Burlington/Woburn Bob Bowker
- 5/21 1 HPM, Woburn Bob Bowker
- 6/3 3 Sherborn PL Bob Bowker
- 6/26 5 GBH, Canton E.Nielsen+R.Hamburger
- 7/3 2 GBH, Canton MBC (S.Moore+B.Volkle)
- 7/5 1 MHF, Sharon Erik Nielsen
- 7/10 5 Blackstone Valley NABA Tom Dodd
- 7/15 1 DCR Sterling Rd, Holden Elise Barry
- 7/20 1 S-C TTOR, N Andover Russ Hopping
- 7/24 15 Bristol NABA Mark Mello
- 9/16 1 Northampton CG Tom Gagnon
- 9/24 1 Chelmsford PL Bob Bowker
- 9/24 1 Dunback Meadows, Lexington Bob Bowker

#### Wild Indigo Duskywing

- 5/7 1 GBH, Canton Sam Jaffe
- 5/15 16 Delaney WMA, Stow MBC (Tom Murray)
- 5/15 1 Weir Hill Res, N Andover MBC (H. Hoople+R. Hopping)
- 5/17 1 Cherry Hill Res, W Newbury S. and J. Stichter
- 5/20 1 Muddy Brook, Ware Brian Klassanos
- 5/21 2 HPM, Woburn Bob Bowker
- 5/23 1 Rowden Yard, Leicester Mark Rowden
- 5/23 4 MSSF, Plymouth MBC (E.Nielsen)
- 5/30 10 Boxford Russ Hopping
- 7/3 11 GBH, Canton MBC (S.Moore+B.Volkle)
- 7/15 12 Weir Hill Res, N Andover Russ Hopping
- 7/17 20 Carney Res., Northborough S.Moore+B.Volkle
- 7/31 12 Marston Mills Airport Alison Robb#
- 8/28 12 Robin Hill Road, Milford Steve Moore #
- 9/19 4 Northampton CG MBC (Benner+Gagnon)
- 9/19 1 W Bridgewater Don Adams
- 9/20 9 Delaney WMA, Stow Steve Moore
- 10/2 2 Robin Hill Rd, Marlborough Steve Moore
- 10/10 2 Beverly Karen Haley

- Common Sootywing
- 5/1 1 Muddy Brook, Ware Brian Klassanos
- 5/2 1 Northampton Joshua Rose
- 5/20 2 MCP, Burlington/Woburn Bob Bowker
- 5/23 1 Rowden Yard, Leicester Mark Rowden 5/30 5 Dauphinais Park, Grafton - Dolores Price
- 7/5 2 Fresh Pond, Cambridge Fred Bouchard
- 7/11 7 Muddy Brook, Ware Brian Klassanos

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7/17 1 Cranberry Wetland, Foxborough - M. Champagne

- 8/15 2 Tangerinis, Millis Madeline Champagne
- 8/26 1 Muddy Brook, Ware Brian Klassanos
- 9/3 2 Northampton CG Bill Benner
- 9/20 1 Delaney WMA, Stow Steve Moore

#### Arctic Skipper

- 5/28 9 Windsor Bo Zaremba
- 5/30 1 Royalston Carl Kamp
- 5/30 10 Moran WMA, Windsor Tom Gagnon#

#### Least Skipper

- 5/29 8 AF, Hamilton/Ipswich Sharon and Joe Stichter
- 5/30 4 Muddy Brook, Ware Brian Klassanos
- 5/31 31 MHF, Sharon Erik Nielsen
- 6/4 11 Nat's Farm, W Tisbury Matt Pelikan
- 6/11 11 AF, Hamilton/Ipswich Sharon Stichter#
- 6/19 3 Gill Carl Kamp
- 6/20 5 Town Farm TTOR, Westport Russ Hopping #
- 6/30 6 Cooper N.Pasture, NP Sharon Stichter
- 8/13 18 AP, Dartmouth Madeline Champagne
- 8/14 11 Muddy Brook, Ware Brian Klassanos
- 8/15 9 Fowl Meadows, Milton Bo Zaremba
- 8/21 43 FS WMA, Longmeadow Bo Zaremba
- 9/19 1 Northampton CG MBC (Benner+Gagnon)
- 9/21 1 AP Field Station, Dartmouth M. Champagne
- 9/26 1 Wayland CG Jason Forbes

#### **European Skipper**

- 5/27 1 Sutton Dolores Price
- 6/4 3 Nat's Farm, W Tisbury Matt Pelikan
- 6/5 8 Broadmoor WS, Natick Bob Bowker
- 6/6 6 Robinson Sp, Agawam Carl Kamp+Alyce Mayo
- 6/14 25+ S-C TTOR, N Andover Russ Hopping
- 6/15 40+ GBH, Canton Steve Moore #
- 6/18 24+ Hinsdale Frank Model
- 6/18 200+ Graves Farm, Williamsburg Frank Model
- 6/21 20 Maudslay SP, NP Sharon Stichter
- 6/27 52 Graves Farm, Williamsburg Bill Benner
- 7/6 5 Moore SP, Paxton Elise Barry

10/2 1 NAC, Concord - Barbara Volkle #

10/17 1 Stump Dump, Nahant - Erik Nielsen

8/14 2 BMB WS, Worcester - Steve Moore# 8/15 1 MCRT - River St.P-Garden, Holden - Elise Barry

8/21 1 Muddy Brook, Ware - Brian Klassanos

9/14 10 Wasque, Edgartown - Russ Hopping

9/14 3 Long Point, W Tisbury - Russ Hopping

9/16 1 Wellfleet Bay Ws, Wellfleet - Mark Faherty

9/18 1 AP, Dartmouth - MBC (Lauren Miller-Donnelly)

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10/11 2 AP, Dartmouth - Bob Bowker

7/8 2 Maudslav SP, NP - S, Stichter + Bo Zaremba 7/31 16 Monterey - Mark Lynch+Sheila Carroll

9/4 1 Sylvan Nursery, Westport - Madeline Champagne

10/8 1 AP, Dartmouth - M. Champagne+F. Model

8/19 1 Rauscher Farm, Clinton - Madeline Champagne

7/16 5 Mount Greylock - Tom Gagnon

9/29 1 Barnstable - Mark Faherty

10/10 1 Beverly - Karen Haley

8/20 1 Florence - Tom Gagnon

8/27 3 Milford PL - Bob Bowker 8/28 1 Williamstown - Bo Zaremba

8/28 2 Sherborn PL - Steve Moore #

9/6 1 E Longmeadow - Karen Parker

Leonard's Skipper

Cobweb Skipper

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5/4 1 Oak Bluffs - Tom Chase

Fiery Skipper

- 5/6 5 Florence Tom Gagnon
- 5/10 1 Chickatawbut Hill, Milton Sam Jaffe
- 5/14 16 Florence MBC (Tom Gagnon)
- 5/15 2 SF, Edgartown Matt Pelikan
- 5/23 1 MSSF, Plymouth MBC (E.Nielsen)
- 5/25 1 Pump House, Athol Frank Model
- 6/3 2 Sherborn PL Bob Bowker

#### Indian Skipper

- 5/15 1 Weir Hill Res, N Andover MBC (H. Hoople+R. Hopping)
- 5/16 1 MHF, Sharon Madeline Champagne
- 5/20 2 Juniper Hill, Lexington Steve Moore
- 5/21 6 HPM, Woburn Bob Bowker
- 5/21 1 Muddy Brook, Ware Brian Klassanos
- 5/22 29 Florence Tom Gagnon+Bruce Ripley
- 5/25 6 Brentwood CA, Holliston Bob Bowker
- 5/31 3 Crane WMA, Falmouth Alison Robb
- 5/31 4 MHF, Sharon Erik Nielsen
- 6/4 18 Nat's Farm, W Tisbury Matt Pelikan
- 6/8 1 MCRT Mounton Pond, Rutland Elise Barry

#### Peck's Skipper

- 5/15 3 E Longmeadow Karen Parker
- 5/15 2 Natick Greg Dysart
- 5/15 2 Delaney WMA, Stow MBC (Tom Murray)
- 5/16 2 Carney Res., Northborough S.Moore+B.Volkle
- 5/16 3 Westborough WMA Wendy Miller
- 5/23 1 Tom Swamp, Petersham MBC (Tom Gagnon)
- 5/31 31 Sprague St., Foxborough Madeline Champagne
- 6/2 10 Doyle Res.TTOR, Leominster Russ Hopping
- 6/5 6 Royalston Carl Kamp+Alyce Mayo
- 7/26 10 Springfield Bob Bowker+Bob Tynan
- 7/30 200 Stichter Yard, Newbury Sharon Stichter
- 7/31 35+ E Longmeadow Karen Parker
- 8/11 32 MPRA, W Newbury Bo Zaremba
- 9/21 33 Feely Park, Sudbury B. Bowker+L. Stillwell 10/8 3 AP, Dartmouth - M. Champagne+F. Model
- 10/10 2 Beverly Karen Haley
- 10/10 1 NP Bo Zaremba
- 10/11 1 Amherst Joshua Rose

#### Tawny-edged Skipper

- 5/14 1 E Longmeadow Karen Parker
- 5/16 1 Oak Bluffs Matt Pelikan
- 5/20 1 Muddy Brook, Ware Brian Klassanos
- 5/21 2 Rochester Russ Hopping
- 5/22 4 Florence Tom Gagnon+Bruce Ripley
- 5/25 6 Maudslay SP, NP Bo Zaremba
- 5/30 6 Boxford Russ Hopping
- 5/31 14 MHF, Sharon Erik Nielsen
- 7/31 10+ E Longmeadow Karen Parker
- 7/31 15 Marston Mills Airport Alison Robb#
- 8/27 3 Milford PL Bob Bowker
- 8/28 1 Williamstown Bo Zaremba
- 9/19 1 Northampton CG MBC (Benner+Gagnon)
- 10/2 1 Oak Bluffs Matt Pelikan
- 10/11 1 AP. Dartmouth Bob Bowker
- 10/11 1 Katama, Edgartown Matt Pelikan

#### Crossline Skipper

- 6/25 2 Quabbin Park, Belchertown Sue+Ron Cloutier
- 6/26 1 GBH, Canton E.Nielsen+R.Hamburger
- 6/26 4 HPM, Woburn MBC (Steve Moore)
- 6/27 1 Graves Farm, Williamsburg Bill Benner
- 6/29 1 Tower Hill, Boylston Wendy Miller
- 6/30 2 Water Tower PL, NP Sharon Stichter
- 7/1 7 MV SF Matt Pelikan
- 7/17 2 MBWMA, Newbury Sharon and Joe Stichter

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- 7/18 1 CST, Marlborough MBC (S.Moore+B.Volkle)
- 7/25 3 Wendell Carl Kamp#

#### Long Dash

- 5/25 5 Maudslay SP, NP Bo Zaremba
- 5/25 3 Brentwood CA, Holliston Bob Bowker
- 5/26 6 S-C TTOR, N Andover Russ Hopping
- 5/30 3 Dauphinais Park, Grafton Dolores Price
- 5/30 1 Winchendon Carl Kamp
- 5/31 3 Crane WMA, Falmouth Alison Robb
- 6/4 22 Nat's Farm, W Tisbury Matt Pelikan
- 6/5 5 Royalston Carl Kamp+Alyce Mayo
- 6/18 4 Hinsdale Frank Model
- 6/19 2 Royalston Carl Kamp
- 7/3 3 GBH. Canton MBC (S.Moore+B.Volkle)
- 8/2 1 Royalston Carl Kamp
- 8/17 2 MPRA, W Newbury Bo Zaremba
- 8/20 1 AF, Hamilton/Ipswich Howard Hoople

#### Northern Broken-Dash

- 6/21 1 GBH, Canton Sue+Ron Cloutier
- 6/27 1 Muddy Brook, Ware Brian Klassanos
- 6/27 11 HPM, Woburn Erik Nielsen #
- 6/29 1 Barry Yard, Paxton Elise Barry
- 6/29 1 Graves Farm, Williamsburg Tom Gagnon#
- 7/2 24 MBWMA, Newbury Sharon and Joe Stichter
- 7/8 200 Maudslay SP, NP S. Stichter + Bo Zaremba
- 7/11 12 Whately Bill Benner
- 7/15 22 Fruitlands, Harvard Sharon Stichter
- 7/17 15 MBWMA, Newbury Sharon and Joe Stichter
- 7/18 8 F&G Fields, Westborough MBC (S.Moore+B.Volkle)
- 7/26 6 Springfield Bob Bowker+Bob Tynan
- 7/30 1 Stichter Yard, Newbury Sharon Stichter
- 7/31 4 LPWS, Barnstable Alison Robb#
- 7/31 2 Marston Mills Airport Alison Robb#
- 8/28 1 Milford PL Steve Moore #

6/19 1 E Longmeadow - Karen Parker

#### Little Glassywing

6/19 1 Athol - Carl Kamp

7/11 1 Whately - Bill Benner

7/25 1 Wendell - Carl Kamp#

**Delaware Skipper** 

6/23 2 Medfield - Sam Jaffe

Sachem

6/17 1 Muddy Brook, Ware - Brian Klassanos 6/18 1 MBWMA, Newbury - Sharon Stichter

6/26 25+ Water Tower Field, NP - Bo Zaremba

6/29 9 Graves Farm, Williamsburg - Tom Gagnon# 7/6 8 Moore SP, Paxton - Elise Barry

7/11 1 Graves Farm, Williamsburg - MBC (Bill Benner)

8/21 1 Sylvan Nursery, Westport - Madeline Champagne

8/27 1 AP Field Station, Dartmouth - M. Champagne

6/20 1 Town Farm TTOR, Westport - Russ Hopping #

6/28 2 Barneys Joy, Dartmouth - Lauren Miller-Donnelly

6/25 6 MCP, Burlington/Woburn - Sharon Stichter

6/29 2 Graves Farm, Williamsburg - Tom Gagnon#

6/29 1 Fuitlands, Harvard - Sharon Stichter

7/1 1 Westborough - Barbara Volkle

10/8 2 AP, Dartmouth - M. Champagne+F. Model

10/11 2 AP, Dartmouth - Bob Bowker

6/26 11 HPM, Woburn - MBC (Steve Moore) 6/29 14 MBWMA, Newbury - Sharon Stichter

7/15 2 Fuitlands, Harvard - Sharon Stichter

7/19 1 Muddy Brook, Ware - Brian Klassanos

7/24 2 Rowden Yard, Leicester - Mark Rowden

- 7/2 4 MBWMA, Newbury Sharon Stichter
- 7/8 2 Tully Dam, Royalston MBC (Frank Model)
- 7/16 1 Mount Greylock Tom Gagnon
- 7/21 2 October Mountain SF Tom Gagnon #
- 7/25 1 Wendell Carl Kamp#
- 7/25 1 Muddy Brook, Ware Brian Klassanos
- 9/23 1 Sherborn PL Bob Bowker+Lesley Stillwell

#### Mulberry Wing

- 6/30 23 CST, N/W.borough S.Moore+B.Volkle
- 7/1 5 AF, Hamilton/Ipswich Sharon and Joe Stichter
- 7/5 26 Sherborn Gas Line Bob Bowker
- 7/5 9 MHF, Sharon Erik Nielsen
- 7/8 20 Branch Bridge, New Salem MBC (Frank Model)
- 7/12 1 E Longmeadow Karen Parker
- 7/12 6 Cummington Barbara Spencer
- 7/17 5 CST, Northborough Steve Moore+Barbara Volkle
- 7/18 5 Muddy Brook, Ware Brian Klassanos

#### Hobomok Skipper

- 5/6 1 Met State, Waltham Jason Forbes
- 5/6 2 Barry Yard, Paxton Elise Barry
- 5/10 3 Sherborn PL Bob Bowker
- 5/11 1 Weir Hill Res, N Andover Howard Hoople
- 5/13 2 World's End, Hingham Bob Bowker
- 5/16 5 S-C TTOR, N Andover Bob Bowker #
- 5/17 2 Mount Tom State Res.- Carl Kamp
- 5/21 3 CST, Westborough Steve Moore+Barbara Volke
- 5/27 14 Little River Nature Trail, NP Bo Zaremba
- 5/30 5 Whately Bill Benner
- 6/6 8 Robinson Sp, Agawam Carl Kamp+Alyce Mayo
- 6/9 7 MBWMA, Newbury Sharon and Joe Stichter
- 6/12 3 Rehoboth MBC (Lauren Miller-Donnelly)
- 6/18 5 Little River Nature Trail, NP Sharon Stichter
- 6/19 2 E Longmeadow Karen Parker
- 6/20 1 Muddy Brook, Ware Brian Klassanos
- 6/29 1 Barry Yard, Paxton Elise Barry

#### Zabulon Skipper

- 5/8 1 E Longmeadow Karen Parker
- 5/22 2 E Longmeadow Karen Parker
- 5/28 1 AP Allens Neck, Dartmouth L. Miller-Donnelly
- 6/3 2 AP Allens Neck, Dartmouth L. Miller-Donnelly
- 6/15 2 Fowl Meadows, Milton Sam Jaffe
- 8/7 3 E Longmeadow Karen Parker
- 8/13 3m Fowl Meadows, Milton Sam Jaffe
- 8/13 1 Westport Mark Lynch+Sheila Carroll
- 8/21 4m FS WMA, Longmeadow Bo Zaremba
- 8/28 3m E Longmeadow Karen Parker

#### **Broad-winged Skipper**

- 7/2 1 Stichter Yard, Newbury Sharon Stichter
- 7/7 5 Stichter Yard, Newbury sharon Stichter
- 7/10 1 Haley Yard, Marblehead Karen Haley
- 7/11 3 G35 Quabbin Cloutier#
- 7/11 1 Boxford Russ Hopping
- 7/17 2 Oak Bluffs Matt Pelikan
- 7/18 25 CST, Marlborough MBC (S.Moore+B.Volkle) 7/18 2 E Longmeadow - Karen Parker
- 7/20 2 S-C TTOR, N Andover Russ Hopping
- 7/31 8 Westport Madeline Champagne 8/1 7 World's End, Hingham - Bob Bowker
- 8/27 1 AP Field Station, Dartmouth M. Champagne
- 10/8 2 World's End, Hingham Bob Bowker

#### **Dion Skipper**

- 6/27 1 Graves Farm, Williamsburg Bill Benner
- 7/4 1 Fitzgerald Lake, Florence Frank Model

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7/5 1 Hinsdale - Frank Model

- 7/7 3 Fitzgerald Lake, Florence Frank Model
- 7/11 2 Cummington Barbara Spencer
- 7/11 1 Graves Farm, Williamsburg MBC (Bill Benner)
- 7/11 1 Fitzgerald Lake, Florence MBC (Bill Benner)
- 7/12 1 Cummington Barbara Spencer
- 7/16 1 Fitzgerald Lake, Florence Frank Model
- 7/17 1 C Berkshire NABA Tom Tyning

#### **Black Dash**

- 6/28 1 Sherborn PL Bob Bowker
- 6/29 9 Sherborn Gas Line Bob Bowker
- 7/1 4 AF, Hamilton/Ipswich Sharon and Joe Stichter
- 7/3 7 Muddy Brook, Ware Brian Klassanos
- 7/5 6 MHF, Sharon Erik Nielsen
- 7/5 29 Sherborn Gas Line Bob Bowker
- 7/8 24 Branch Bridge, New Salem MBC (Frank Model)
- 7/11 16 Muddy Brook, Ware Brian Klassanos
- 7/15 1 Fruitlands, Harvard Sharon Stichter
- 7/18 3 Muddy Brook, Ware Brian Klassanos

#### Dun Skipper

- 6/3 1 Sherborn PL Bob Bowker
- 6/26 2 HPM, Woburn MBC (Steve Moore)
- 6/27 1 Hyde Park Paula Chasan
- 6/27 6 Graves Farm, Williamsburg Bill Benner
- 6/27 1 Stackyard Rd, Rowley Bo Zaremba
- 7/1 75+ MV SF Matt Pelikan
- 7/6 10 Moore SP, Paxton Elise Barry
- 7/11 30+ Graves Farm, Williamsburg MBC (B. Benner)
- 7/11 8 Boxford Russ Hopping
- 7/16 4 S-C TTOR, N Andover Russ Hopping
- 7/18 6 Muddy Brook, Ware Brian Klassanos
- 8/1 5 World's End, Hingham Bob Bowker
- 8/8 1 Muddy Brook, Ware Brian Klassanos
- 8/8 1 E Longmeadow Karen Parker
- 8/8 1 MCP, Burlington/Woburn Sharon Stichter#

5/14 4 Dinosaur Footprints TTOR, Holyoke - MBC (T.

5/24 24 Lamson Rd, Foxborough - Madeline Champagne

5/26 11 Lamson Rd, Foxborough - Madeline Champagne

6/4 6 Lamson Rd, Foxborough - Madeline Champagne

6/9 1 MBWMA, Newbury - Sharon and Joe Stichter

6/12 1 Rehoboth - MBC (Lauren Miller-Donnelly)

5/15 2 Delaney WMA, Stow - MBC (Tom Murray)

5/21 4 CST, Westborough - Steve Moore+Barbara Volke

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5/23 1 Tom Swamp, Petersham - MBC (Tom Gagnon)

5/27 2 Delaney WMA, Stow - Madeline Champagne

5/20 3 MCP, Burlington/Woburn - Bob Bowker

- 8/13 4 Sherborn PL Bob Bowker+Leslie Stillwell
- 9/25 1 Wayland CG MBC (Erik Nielsen)

#### **Dusted Skipper**

5/13 1 Florence - Tom Gagnon

Gagnon)

5/15 2 SF, Edgartown - Matt Pelikan

5/31 3 MHF, Sharon - Erik Nielsen

Pepper and Salt Skipper

5/28 5 Windsor - Bo Zaremba

5/30 7 Mount Greylock - Tom Gagnon#

5/31 1 E Longmeadow - Karen Parker 6/11 1 AF, Hamilton/Ipswich - Howard Hoople

**Common Roadside-Skipper** 

6/4 1 Mount Greylock - Tom Fiore

5/21 12 Pump House, Athol - Bo Zaremba

5/22 110 Florence - Tom Gagnon+Bruce Ripley

5/27 9 Little River Nature Trail, NP - Bo Zaremba 5/31 1 Muddy Brook, Ware - Brian Klassanos

### 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.



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# **Egg Stories**

The Black Swallowtail egg below was freshly-laid on September 11, 2010. That tells us that Black Swallowtail is trying for three broods, even at Appleton Farms, in Ipswich, north of Boston.

The egg was found in a well-used cow pasture, between piles of cow manure. The Queen Anne's Lace was still green and sprouting in September, with young, tender foliage which butterfly larvae prefer. The plant did not have a central fruiting stalk, indicating either that it had been grazed by cattle or was a first-year plant just putting out new shoots.

If agricultural fields are not too heavily grazed or plowed, they provide excellent habitat for Black Swallowtails. Appleton Farms is always a good spot to see this species.



Black Swallowtail egg, Appleton Farms 9-11-2010, H. Hoople

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Indian Skipper egg, Juniper Hill Lexington 5-31-2010 M. Rainey

While swallowtail eggs are smooth and round, many skipper eggs are dome-shaped. Anglewing eggs are ribbed, and often stacked. Both this Indian Skipper egg, and these Question Mark eggs found by Russ Hopping, were identified by watching them being laid.



Question Mark eggs, Appleton Farms 6-11-2010 H. Hoople

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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 <u>http://www.massbutterflies.org/clubpublications.asp</u> or from <u>http://www.massbutterflies.org/downloads/massbutterflies.xls</u>

# Contributions

As a chapter of the North American Butterfly Association, the Massachusetts Butterfly Club is a non-profit, tax-exempt organization under section 501(c)(3) of the Internal Revenue Code. Gifts to the Massachusetts Butterfly Club are tax deductible and are greatly appreciated.

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*Massachusetts Butterflies* has been published continuously since 1993. Previous issues are viewable at <u>www.massbutterflies.org/club-publications.asp</u> after a three-year time lag. Print copies may be ordered for \$6 each. Send a check made out to Massachusetts Butterfly Club to Sharon Stichter at the address on the inside front cover.

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