

Massachusetts Butterflies



Spring 2015, No. 44

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* and *Butterfly Gardener*. If you live in the state of Massachusetts, you also receive *Massachusetts Butterflies*, and our mailings of field trips, meetings, and NABA Counts in Massachusetts. Out-of-state members of NABA-MBC who wish to receive *Massachusetts Butterflies* may order it from our secretary for \$7 per issue, including postage. Regular NABA dues are \$35 for an individual, \$45 for a family, and \$70 outside the United States. Send a check made out to NABA to: NABA, 4 Delaware Road, Morristown, NJ 07960.

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Tawny Emperor
(*Asterocampa clyton*) and
Wendy Miller, 8/16/14,
Forest Park, Springfield,
MA, Sue Cloutier.



Cover photo: Gray Comma (*Polygonia progne*),
7/18/14, Whately, MA, Bill Benner

From the President:

In this issue of *Massachusetts Butterflies*, we are privileged to have an article by Harry Pavulaan, in which he shares his insights about butterfly populations as well as his views on some of the difficult issues we all face when considering observing vs. collecting butterflies. Shortly after I joined the Mass Butterfly Club, I received my introduction to Harry, an email from him when I posted a photograph on MassLep that I identified as a Spring Azure. “That’s not a Spring Azure,” his note read. “It’s a Cherry Gall Azure.” He went on to explain to me how I could tell the difference. I looked up Cherry Gall Azure in Jeffery Glassberg’s *Butterflies through Binoculars—The East* (which acknowledges Cherry Galls as perhaps a Spring Azure subspecies), and realized that I’d inadvertently wandered into the middle of an ongoing, spirited discussion of the taxonomy of Azures. In that discussion and subsequent ones Harry and I have had about other butterflies I’ve photographed over the years, Harry has been enthusiastic, thoughtful, engaging, and helpful. He is an original thinker, and often reaches conclusions about taxonomy that aren’t always shared by members of the NABA community.

His own rapidly evolving sense of the diversity of species of Azures, Swallowtails, and many other butterfly groups challenges us to reconsider our own assumptions. I personally find comfort in the more cautious approach that NABA takes in sorting through whether a particular butterfly population constitutes a new species or not. But I do know that my understanding of the complexity of these issues has been enormously enriched by Harry’s irrepressibly cheerful contributions to the discussion.

That’s why it’s so important that we listen to Harry’s narrative, and why I was delighted when he offered to write an article for *Massachusetts Butterflies*. We need to acknowledge that very talented people can come at the problem of understanding butterfly populations from very different perspectives. We can all learn from each other, and, following Harry’s example, celebrate what we share, even if we have some profound disagreements.

—Howard Hoople



Book Review -

Butterflies of Massachusetts: Their History and Future, by Sharon Stichter

In this age of internet browsing, when so much of our information comes from clicking from one screen to the next, it is sometimes not so apparent just how much information there can be in a well-maintained and densely packed website. This was brought home to me in force when I received my copy of club member Sharon Stichter's new book, *Butterflies of Massachusetts: Their History and Future*. The book is a big, thick volume of extremely detailed yet readable information about each of the regularly recorded butterfly species of our fair Commonwealth. It is printed directly from Sharon's website, www.butterfliesofmassachusetts.net, which she has meticulously cared for and updated since 2009. Although the website is clearly thorough and inclusive, it was still quite surprising to see what a large book it makes, printed and bound, with a sturdy, durable life of its own. The website is quite portable and easily navigable; the book is to be savored, and studied, and pored over, over and over again, to soak in new details about our favorite butterflies every time we open it.

The book begins with a short but important introduction about the methods used in tallying and reporting butterfly numbers and distributions, and then moves on to individual species accounts, which make up the bulk of the text. Each account includes six sections, beginning with history and abundance in the 1800's and 1900's, and ending with conservation concerns. It is difficult to say enough about just how important this work is for those who care about Massachusetts butterflies. Sharon's unique role, first as NABA-MBC member and prior editor of *Massachusetts Butterflies* for ten years, which gave her many MBC club connections and easy access to the club's sightings database, as well as her ties to Harvard and Boston University and therefore to the scientific community and its collections, have allowed her to continue to amass and collate butterfly records across the amateur and professional spectrum. The amount of effort involved is tremendous, and we and future generations of Massachusetts butterflyers are in her debt.

And finally, despite this being a technical work of great importance, Sharon has made it very comprehensible. Her narratives for each species are clear and flowing, and she accompanies her prose with a photo, graph, and map for each species. This is a book that any serious student of New England butterflies should own for many reasons, not least of which is the fact that, according to Sharon, the website will not be around forever. I'm certain her book will be—a treasured part of any MA butterflyer's library. The book is available online through www.amazon.com and other retailers, currently selling for \$58. It is also possible to buy a digital version on CD. For this, the cost is US \$14.00, which includes US postage. To order the CD only, send name, mailing address, and a check made out to Sharon Stichter, to: Butterflies of Massachusetts, 108 Walden St., Cambridge, MA 02140. Allow at least 3 weeks for delivery.



Barbara J. Spencer
May 4, 1930 -
September 19, 2014

Barbara passed away peacefully at home after a lengthy battle with cancer. Her two sons Jonathan and Guy, and her daughter-in-law Larissa, who was her primary care giver for the past 16 months, were with her at the time of her death.

Remembering Barbara

It is easy to find words to describe Barbara. She was someone full of life, vital, active, spirited, interesting, intellectually curious, artistic, kind-hearted, humble in her way, and significant to those who came to know her. Barbara had a quick wit and was ever ready for a chuckle. She was very intelligent and a fount of knowledge for a huge variety of things in the natural and scientific worlds, as well as the political/human ones. She knew herself and was honest and frank, but unpretentious, never striving to impress, even self-effacing.

Though folks who knew Barbara realized what a terrific photographer she was, I think that there are many who did not know that she was an artist and sculptress – and that her work is as magnificent as the masters. It is astonishing in creativity, intrigue and beauty. It becomes more amazing when you learn this story. Barbara retired at age 64 and started living in Cummington full time. There she continued to work on the house she designed. She also constructed it herself, with some help from others. It is set on a woodland slope, without invading it, and, like Barbara, it has an open earthiness and heady spirit. It was at that time that she STARTED to learn about bronze castings...



Barbara was always very willing to help anyone and share her knowledge. And she was gracious and dear when complimented, and open with her affection. I wrote her after a visit when she was sick to tell her how nice it was to see her. I had to add, because I felt it: 'You are one special person.' Barbara wrote back,

‘Gee. Thanks!’ That simple sweetness is an example of the many aspects of Barbara that I, and I’m sure many others, will miss.

- Elise Barry

A Special Friend

Barbara Spencer had a wide ranging and deep interest in birds, butterflies, moths, dragonflies, and mushrooms that is reflected in the photographic images that she shared on her website: www.pbase.com/barbaraspencer. When you visited Barbara at her home in the hills of Cummington, it was like visiting a museum. Her home grew up naturally from the hillside and her sculptures graced her woods, home, and gardens. See: www.owlspleasure.com.

An active field naturalist, for the second Massachusetts Breeding Bird Atlas, Barbara covered multiple sections of the Berkshires. She created detailed notes on the survey maps that were helpful for others who were looking for colonies of unusual butterflies. She discovered a new site for the Atlantis Fritillary that is reliable for that species.

In the 2011 Spring Issue of Massachusetts Butterflies, Barbara recounted her discovery of a Canola field full of thousands of Cabbage White butterflies and many Club members had a chance to view this spectacular flight. The article reflects Barbara’s attention to detail, collaborative approach to learning, and her willingness to share.

Barbara went on many of the Club’s local field trips and also traveled with Club members on special trips: California, High Sierras for a workshop with Paul and Evi Opler; Virginia, Great Dismal Swamp with Rick Cech; and to northern New England... we are glad we could share those times in the field with her.

Barbara’s lack of mobility for the past months prevented her from studying butterflies in the field, yet she remained actively involved with the study of Lepidoptera. Identification of moths attracted to the porch lights of her house kept her mind engaged up to the last few days of her life. Friends and family helped her in her survey of moths. Since 2012, over 830 species were photographed there. We collaborated with Barbara on species identification from photographs posted on her website: http://www.pbase.com/barbaraspencer/moths_2012



Barbara had a special gift for making people around her feel valued and appreciated. She was deeply loved and will be missed.

- Sue Cloutier and Betsy Higgins

A fresh take on the issue concerning butterfly watching, avocational lepidopterology, and hobby collecting.

by Harry Pavulaan

Collecting can be beneficial for butterflies. OK, now that I have your attention; I will venture to touch upon the rather contentious subject of net-based field research in a more reasoned light, but please keep that opening remark way over on the side for now. The term to keep in mind here is “AVOCATIONAL LEPIDOPTEROLOGY,” not to be confused with HOBBY COLLECTING. I will begin with a brief overview of historical lepidopterology in North America.

In the 18th century, in the pioneering days of American discovery, the natural history of the New World was unknown to European naturalists. Natural history objects were generally collected and sent to Europe for analysis, illustration, and ultimately description. That was the Golden Age of naming the biota of North America. When you look at the Latin names of butterflies in many of today’s popular books, you might not have noticed that there is something missing to the right side of the name of each species. If you haven’t guessed it by now, it’s the name of the person who first penned a scientific name to a particular species, followed by the publication date. The name and date are an essential part of conveying information on the precise taxon being represented in communications. This information is taken to the highest standard in the landmark *A Catalogue of the Butterflies of the United States and Canada* by Jonathan Pelham (2008). The current online edition can be found at <http://butterfliesofamerica.com>.

So why is this pertinent to the discussion? Contrary to popular belief, many of our familiar North American (and European) butterflies were not named by degreed entomologists, but rather by people who had little or no education in, or initially no background in entomology other than being avid collectors or having a lifelong interest in butterflies. Many of them developed a strong interest in natural sciences, and some managed to move into full time entomology or related pursuits at some point in their lives. A favorite book of mine is *Butterfly People* by William Leach (2013), rich with the history of people who named many of our butterflies. Below is a listing of individuals (pertaining only to Massachusetts), followed by their initial primary livelihoods and the species of butterflies they named (excluded here, mainly due to space limitations, are the many people who subsequently described individual subspecies):

- Jean Baptiste Alphonse Dechauffour de Boisduval (1799-1879); physician; Sleepy Duskywing, Zabulon Skipper, Checkered White, Little Yellow, Bog Copper, White-M Hairstreak, Hackberry Emperor, Tawny Emperor (all with Le Conte); Sachem, Dun Skipper, Orange Sulphur.
- Pieter Cramer (1721-1776); linen and wool merchant; Silver-spotted Skipper, Giant Swallowtail; Sleepy Orange, Bronze Copper, Spring Azure,

American Snout, Variegated Fritillary, Gray Comma, Viceroy, Little Wood Satyr, Queen.

- Dru Drury (1725-1803); silversmith; Fiery Skipper, Regal Fritillary, Pearl Crescent, Baltimore Checkerspot, American Lady, White Admiral.
- William Henry Edwards (1822-1909); real estate lawyer and coal mine owner; Long Dash, Little Glassywing, Delaware Skipper, Broad-winged Skipper, Dion Skipper, Black Dash, Dotted Skipper, Common Roadside Skipper, Ocola Skipper, West Virginia White, Acadian Hairstreak, Early Hairstreak, Summer Azure, Atlantis Fritillary, Green Comma.
- Carl Geyer (1796-1841); artist; Hoary Edge.
- Augustus Radcliffe Grote (1841-1903); cotton merchant, piano player, writer; Two-spotted Skipper, Edwards' Hairstreak, Henry's Elfin (all with Robinson); Common Checkered-Skipper.
- Jacob Hübner (1761-1826); artist, engraver and fabric designer; Falcate Orange-tip, Banded Hairstreak, Eastern Pine Elfin, Juniper Hairstreak, Gray Hairstreak, Common Buckeye.
- Pierre André Latreille (1762-1833); priest and museum curator; Tawny-edged Skipper.
- John Eatton Le Conte (1784-1860); topographical engineer; Sleepy Duskywing, Zabulon Skipper, Checkered White, Little Yellow, White-M Hairstreak (all with Boisduval); Bog Copper, Striped Hairstreak.
- Otto Friedrich Müller (1730-1784); educated in religion and became a private tutor; Common Ringlet.
- Ferdinand Ochsenheimer (1767-1822); teacher and actor; European Skipper.
- Harry Pavulaan (1955-present); cartographer; "Cherry Gall Azure" (Pavulaan and Wright [2005]. Recognized by NABA as 'Cherry Gall' Spring Azure) (with Wright).
- Coleman Townsend Robinson (1838-1872); stockbroker; Two-spotted Skipper, Edwards' Hairstreak, Henry's Elfin (all with Grote).
- Caspar Stoll (c.1730-1795); was believed to be a municipal clerk; Brazilian Skipper.
- David Manfred Wright (1947-present); physician; "Cherry Gall Azure" (Pavulaan and Wright [2005]. Recognized by NABA as 'Cherry Gall' Spring Azure) (with Pavulaan).

Now, to the present - In recent decades, with new methods of scientific investigation, and the near instant exchange of information and collaboration via the World Wide Web, we are advancing our knowledge of the world's biota faster and more thoroughly than ever before. Professional biologists are uncovering evolutionary details and relationships of organisms using various methods, especially by analyzing and comparing their DNA. Nonetheless, new discoveries in natural history are being made on a continued basis by avocational naturalists with a serious interest in nature.

As a result of many years of communicating with, and collaborating with professional biologists (those proverbial butterfly “experts”) I have come to learn that these experts are essentially tied to their institutional labs, devoted to the teaching of their students, and in many cases bound by the conditions of their grants. They are very much dependent upon specimens and reports from avocational lepidopterologists - ordinary regular folks like you and me, who hold various non-biological day jobs and otherwise lead busy family lives with all the associated demands on our energies, time and resources. And yet we have a profound interest in butterflies that transcends daily life. We don’t work in labs, nor depend on grants to pay our bills and advance our careers. We study butterflies in our precious spare time over many years for the love of discovery. We freely share data, observations and specimens, not only with lab experts with whom we collaborate, but also with other avocational lepidopterologists with similar interests. Many of the specimens needed for DNA analysis come from avocational lepidopterologists who collaborate with institutional lepidopterologists. A great example of such collaboration is the recent discovery of “*Heracles rumiko*”, the “Western Giant Swallowtail” (Shiraiwa, Cong & Grishin, 2014) (not recognized by NABA [2001], but subsumed under Giant Swallowtail, *Papilio cresphontes*). The fact is, the lab experts simply cannot devote endless years of their own time to collect needed series of specimens across the continent, as most avocational lepidopterologists (and hobby collectors) in places far and wide are capable of doing for them; whereas avocational lepidopterologists generally do not have access to lab facilities of their own to complete certain aspects of their studies.

In regard to collaborating and providing specimens for studies, I offer myself as an example. Many years ago, while conducting field research in the central Appalachian Mountains, I noticed something odd about the Tiger Swallowtails in the mountains. Interestingly, the small spring forms that were found a full month earlier on the Coastal Plain and Piedmont were not appearing at the appropriate time at higher elevations. Yet weeks later, huge Tiger Swallowtails, the first of the season at higher elevations, exploded in numbers along forest roads, making quite a show. After noticing peculiar differences from the lowland spring forms, and besides being dramatically larger (which one would not expect in a colder environment), I took it upon myself to collect a sampling of these magnificent creatures and began making comparisons. In answer to those of you who may be asking, “Why didn’t you look at museum specimens?” I can say with confidence that there were virtually NO available specimens of this unique taxon in the institutional collections that my coauthor, David Wright, and I were able to access. [I have a theory for this but won’t delve into it here]. When comparing specimens to the lowland Eastern Tiger Swallowtail varieties, patterns soon became apparent. In short order, it was concluded that we had an undescribed species staring us in the face, literally at our doorsteps. A specimen was sent to Stockholm University for preliminary DNA analysis, the results of which confirmed our suspicion. We thus described the species as “*Pterourus ap-*

palachiensis”, the “Appalachian Tiger Swallowtail” (Pavulaan & Wright, 2002) (not yet recognized by NABA [2001]). Shortly thereafter, several researchers asked us for specimens to conduct DNA analyses, thus resulting in a number of recent studies on this unique case of “speciation through hybrid introgression” – a rare case in the animal world, though this process of species formation may be more common than previously known.

My point here is very important. Had we not sampled specimens to make our comparisons, we may have not known of this unique species for a very long time! Not knowing of the existence of a butterfly could result in its very extinction. This has actually happened. For example, there is the textbook case of *Philotes sonorensis extinctis* (Mattoni, 1991), appropriately named because it was not described until after it had become extinct. The butterfly occurred in only one tiny site destroyed by the U.S. Army Corps. of Engineers during construction of a ground water recharge basin in the small valley where the colony lived. Specimens collected prior to extinction were the only record of the butterfly’s existence; earlier collectors had not recognized this local butterfly as uniquely different from an otherwise common species (Sonoran Blue, *Philotes sonorensis*). It was only later that examination of older specimens identified the unique phenotype. Had the butterfly been identified and described years earlier, it might have been protected and saved.

Right here in Massachusetts, a unique coastal salt marsh-associated population of the Common Wood-Nymph was recently described as a new subspecies, *Cercyonis pegala agawamensis* (Arey & Grkovich, 2014). Being confined as such to coastal habitats immediately brings to mind aerial mosquito spraying and the deadly effect it reportedly has on all insect life, not just mosquitoes. Knowing that a unique population of a butterfly exists in precisely the same habitats where mosquitoes thrive, should give pesticide planners pause before possibly initiating yet another man-caused (but preventable) extinction event. Another recent discovery, *Cercyonis pegala australosierra* (Emmel, Emmel & Davenport, 2008), exists in one tiny colony on a California ranch, now off limits to visitors.

Despite assertions by some, we really don’t know everything there is to know about our region’s butterflies. One of my favorite passages comes from Robert Pyle’s *Handbook for Butterfly Watchers* (1984; rev. 1992): “Entomology is, in some ways, still in the Dark Ages compared to vertebrate science. To stop collecting now would be to keep it there, since many aspects of the study—including taxonomy, morphology, physiology, and genetics—can be elucidated only through the examination of specimens.”

Yet a paradigm change in American butterfly study happened when Robert Pyle introduced North Americans to the art of observing and studying butterflies without necessarily collecting them. The British had already been watching butterflies long before, and there is an excellent book by Paul Whalley enti-

tled *Butterfly Watching* (1980), which I recommend for the butterfly watcher's bookshelf, though it illustrates European butterflies. Pyle was a cofounder of the Xerces Society, in 1971. The story of Xerces' founding can be found at: <http://www.xerces.org/story/>. The society conducted the first 4th of July Butterfly Counts in 1975, which introduced butterfly observation as an alternative to netting as a way to identify butterflies. Some of us recall Pyle's *Watching Washington Butterflies* (1974), which was in some respects a field guide, but wanting for consistent photographic portrayal of living butterflies for comparative purposes. Pyle's *The Audubon Society Field Guide to North American Butterflies* (1981) is actually the first North American "field guide" illustrating photos of LIVE butterflies. The author is best known for his *Handbook for Butterfly Watchers* first published in 1984 (reissued in 1992), which I consider mandatory reading for anyone with an interest in butterflies (parts of the book can be previewed free via <https://books.google.com>). If you do not have a copy of this landmark work, I urge you to obtain a copy and read it front to back. I cite Pyle because his vision always encouraged both professional and avocational lepidopterologists (including butterfly watchers) to work together toward the common goal of furthering our knowledge of butterflies – and ultimately their conservation.

With the founding of the North American Butterfly Association in 1992, and subsequent publication of Jeffrey Glassberg's *Butterflies Through Binoculars* series of field guides beginning in 1993, butterfly watching rapidly rose in popularity among non-lepidopterologists. The growing number of 4th of July Butterfly Counts (transferred entirely to NABA by the Xerces Society in 1996) was a testament to the growing popularity of butterfly watching among the general public. People who love to just view butterflies in natural settings no longer felt they had to catch them to understand them. The phrase "non-consumptive" butterflying is frequently used to describe NABA activities, though I would like to point out that Pyle introduced this concept in *Watching Washington Butterflies*: "It is extremely important that non-consumptive uses of the land be stressed wherever possible." Quoting J. Alan Wagar, Pyle added that this includes "(1) use of the land to provide people with experiences rather than products and (2) land use in which one person's activities do not detract from the experiences available to the next person on the same area." Pyle concluded that butterfly watching "satisfies these conditions entirely if done considerately."

Sadly, with the growing popularity of butterfly watching, many lepidopterologists have come to perceive a growing disdain among butterfly watchers for anyone carrying a butterfly net, regardless of purpose. The gap of understanding between "watchers and collectors" has grown in recent years, as reflected in endless online debates in which there is great misunderstanding over the role of avocational lepidopterology and its confusion with hobby collecting. I'd like to move on to my point here: ***Butterfly watchers have much more in common with avocational lepidopterologists than most people realize.*** The two activities actually complement each other. It's not a simple "us vs. them" issue, and there

is a good deal of misinformation that needs to be addressed. One has to first dispense with the idea that all avocational lepidopterologists = hobby collectors. Several related myths are:

Observation – Myth #1: ***Only butterfly watchers observe butterflies, while anyone with a net does not.***

Fact: Observation, along with sampling, has been a cornerstone of lepidopterology for centuries, and it was not invented in the 1990's. It also needs to be realized that observation is not the sole domain of butterfly watchers. One only needs to delve into the literature to fully grasp this. Centuries before the popularization of butterfly watching, observation of natural behavior established much of what we currently know about our butterflies. Butterfly watchers today focus solely on observation of butterflies in their natural habitat. The information that is reported helps further our knowledge of butterflies. Lepidopterologists continue to engage in exactly the same activity, while also employing necessary scientific methodology such as taking specimens for morphological research or to confirm difficult identities. Anyone, regardless of their level of interest, has something to contribute and can share his or her observations for the benefit of everyone.

Identification – Myth #2: ***All species should be identifiable and separable by consistent field marks.***

Fact: Unfortunately, there are limitations to identifying butterflies by sight alone, and photographs may be insufficient. This is where the lepidopterologist has the advantage. In the case of the Common Checkered-Skipper / White Checkered-Skipper species pair, most lepidopterologists concur that it is not possible to separate these species by wing marks, and the only way to distinguish them is by examining the genitalia. Another example is the distinctness of wing scales on butterfly wings. On page 19 are two examples of the classic Azure form known as form “marginata” which is found in several Azure species. In the images at the top of page 19, can you identify the species? [These were found at exactly the same site during early spring, near Winchester, in northern Virginia]

ANSWER: The left image is a Spring Azure (*Celastrina ladon*); the right image is a different species, listed in the Pelham (2008) catalogue as “*Celastrina lucia*” (not yet recognized by NABA [2001], but subsumed under *C. ladon*). Sight identification would only be able to identify these individuals to genus (*Celastrina*). A photograph of the underside of similar live individuals would fare no better.

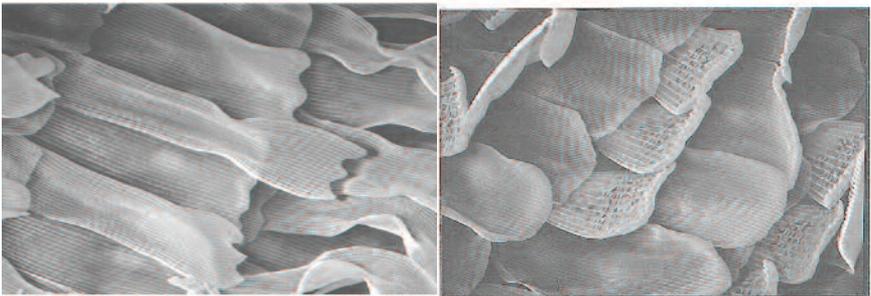
Let's look at the uppersides of two different specimens, in the bottom images on page 19. Which species do we have here? [Both are again from the same site as

the above.]

ANSWER: The left image is a Spring Azure (*Celastrina ladon*); the right image is the spring form of a different species, referred to in the Pelham (2008) catalogue as “*Celastrina neglecta*” (recognized as ‘Summer’ Spring Azure, *C. ladon neglecta*, by NABA [2001]). Unless a living butterfly rests long enough with wings open (rarely observed in Azures) to see the scales with magnified vision, it would be nearly impossible to differentiate the species. Live photographs of uppersides may be able to show enough detail to help narrow a determination; especially with a very good camera that may allow one to zoom into the image enough to see individual scales - if one had the patience to wait hours or days to get a shot of a male opening his wings.

To better understand the differences in scales, we often need even greater magnification from collected specimens.

The left image below (scanning electron microscope SEM 640X) shows the wing scale structure that is unique to male *Celastrina ladon*. Note the elongated scales and absence of androconial scales. The right image (scanning electron microscope SEM 640X) shows typical wing scale structure of male *Celastrina* species which have androconial scales, in this case *neglecta*. [Photos courtesy of David M. Wright] One can actually see these scales with a powerful pocket scope or magnifying glass – but you have to catch the specimen first.



This exercise demonstrates why lepidopterological methodology has an advantage over sight, camera, or binocular-based identification. Had specimens not been available, we may never know that three species of *Celastrina* all fly together at one site in northern Virginia (Pavulaan, 2014). Knowing that “*lucia*” occurs in small localized colonies in northern Virginia, we may now be able to protect such localities from mass aerial spraying for Gypsy Moths. Knowing the identity of these butterflies, I am now able to take my butterfly watcher friends out to this site to help me observe their behavior and take live photographs. I have already observed some flight characteristics that may help differentiate

these species. With enough experience, anyone can become quite adept at identifying most butterflies by wing marks and some behavioral characteristics (flight pattern, etc.) alone.

Butterfly photography has become an indispensable tool to help in the identification of butterflies, and it is now more accessible to the average person. Cameras have come down in price in recent years and the quality of digital images has improved considerably. Internet websites such as butterfliesandmoths.org, butterfliesofamerica.com, bugguide.net and the mothphotographersgroup.msstate.edu are excellent places to share images and to get confirmation of identifications, including on the state level, sites such as butterfliesofmassachusetts.net. The rapid ability to post images to the World Wide Web makes it possible to get immediate feedback from knowledgeable people. Facebook groups are a fast growing trend for posting images and getting feedback. Lepidopterologists will frequently be called upon to resolve problem photos. However, regardless of advances in the Digital Age, I encourage people to maintain a small reference library, rather than rely solely on just one field guide. One's best source of information is often a knowledgeable local lepidopterologist with a lifetime of experience.

Documentation – Myth #3: ***Butterflies can only be documented with specimens.***

Fact: How one interprets this statement depends very much on what purpose the documentation serves. Many old-school lepidopterologists refuse to accept sight-based data, mostly because sight-based reporting lacks the ability for scientific confirmation. Use of sight-based data often requires extensive scrutiny and editing to “clean up” or eliminate potential misidentifications. This is becoming more critical now that our knowledge of cryptic sibling species complexes is growing. In the scientific world, the physical specimen is the bedrock of butterfly documentation. With the use of DNA analysis, different species are being identified from specimens, most of which were collected by avocational lepidopterologists, that are nearly impossible to differentiate by sight, photo, or even genitalia. However, the vast majority of our common butterflies can be identified and documented to a fairly high degree of accuracy with photography. Lepidopterologists doing distributional studies now generally accept photographic documentation for most species, though some species groups, like the Common Checkered Skipper / White Checkered Skipper complex, essentially still require genitalic dissection to determine the species. Just keep in mind the story of the big fish that got away.

Netting or collecting specimens – Myth #4: ***Anyone who carries a net is automatically collecting everything in sight, amassing huge “postage stamp” butterfly collections, and targeting only rare species; at the same time not contributing anything to science.***

Fact: Nothing could be further from the truth! That person carrying a net may primarily be observing butterflies and taking counts just as most butterfly watchers do, but are trying to accurately identify those species which cannot be determined by sight or photo. While netting serves to capture butterflies, the purpose is not necessarily to keep specimens. How else would someone catch a female to obtain eggs for raising caterpillars, tag a Monarch, or identify an unusual butterfly? When conducting fieldwork, I voucher about 0.01% (one out of a thousand) of the butterflies that I see. Such specimens serve to compare specimens from different areas or habitats, and to determine if they fit an existing species or subspecies. In my opinion, shunning lepidopterologists for no reason other than that they use a net, is self-defeating. A frequent argument against collecting is that ***one cannot observe behavior when netting butterflies***. Perhaps the field lepidopterologist was not looking to observe the behavior of that netted specimen!

Hobbyist collectors, on the other hand, are typically characterized as being only interested in building collections much in the way that a stamp or coin collector would, and have little or no interest in natural history. The very few hobbyists that I have known did not record or report their findings, and were reluctant to share information with anyone. They are much more likely to buy, sell and trade butterflies to fulfill their collection needs. I would like to point out, though, that many of the larger institutional collections, such as the Smithsonian, or Harvard's Museum of Comparative Zoology, receive a considerable portion of their holdings through donations from hobby collectors. These specimens are often needed by lepidopterologists to fulfill certain types of research. It is the advanced "game hog" or commercial collector that has given a bad reputation to our beloved net. Now, it is important to remember that lepidopterologists also maintain collections. But these serve as reference collections for avocational research and typically consist only of certain groups of butterflies under study.

Permits and poaching – Myth #5: ***Anyone collecting butterflies on public lands is poaching.***

Fact: People sometimes report seeing someone with a net and get upset over this. However, few of these people ever ask questions of the person with the net! It is actually fairly easy to obtain a collecting permit for virtually any public land in the eastern United States, including holdings of organizations such as The Nature Conservancy and Audubon Society. These permits are usually for specific studies or purposes, and come with reporting and specimen-disposition requirements. If you are on public lands and see someone with a net, (1) be aware of the general rules that may allow collecting, (2) if it concerns you, check with the park authority or land steward about their policies and if there are any ongoing field studies in progress, and (3) don't hesitate to ask the net-wielding person what they are doing. You may be surprised at the response.

Watching vs. collecting, and the role of education – Myth #6: ***Watching is replacing collecting.***

Fact: This view is overly simplistic and simply does not reflect the true picture of ongoing butterfly study and appreciation. It would be helpful for organizations and book authors to acknowledge the value and benefits of ongoing avocational research and not confuse this with hobby collecting. Watching butterflies is certainly gaining in popularity - but unless outlawed by legislation, collecting will still have utility for generations to come. My point here is that it is certainly beneficial to teach children and the general public how to observe, photograph and raise butterflies. Not everyone wishes to collect. Public education and awareness of butterflies in the wild is essential for future preservation of not only butterflies but also all organisms and their habitats. Much can certainly be learned through observation of living organisms. However, children learn best through “hands-on” natural science that includes catching or collecting organisms to examine them in detail. Preserved specimens might serve as better models than images in a book. It is important for adults and educators to give youngsters guidance in channeling their energies primarily toward learning about the natural history of their subjects. It is my opinion that children should not be discouraged from including other aspects of scientific method in their interests. That kid down the block with a net and a box of “dead butterflies” might eventually develop a serious interest in biology, then go on to study medicine, and then who knows – develop a new method for analyzing the genetic code or find a cure for a disease. Bottom line: There is so much more work to be done that cannot be accomplished by simply watching butterflies. Professional and avocational lepidopterologists fill that role. If their work is diminished, or worse – denigrated – then we all lose. Lepidopterology and watching may have different objectives, yet are totally complementary.

Counting – Butterfly watchers have demonstrated their greatest contribution to our knowledge by their diligent counting and reporting. Counting butterflies gives us a snapshot of butterfly abundance at a particular location on a certain date and also help us identify trends. Butterfly species are being reported from places where they have not previously been reported. Thus, our knowledge of butterfly distributions has grown exponentially with the popularization of butterfly watching and online discussion groups. Simply put: the more eyes that are looking, the more butterflies that are seen. The combined efforts of both butterfly watchers and lepidopterologists have a synergistic effect on furthering our knowledge.

Gardening and raising caterpillars – Many gardeners have now realized the benefits of planting butterfly gardens to attract butterflies, and some have gone beyond simply planting attractive nectar sources, and have introduced hostplants and baiting stations into their gardens, to great effect. This combination creates

miniature backyard refuges to help maintain a breeding presence and to help bolster local populations. Both lepidopterologists and butterfly enthusiasts of all levels of interest benefit by raising caterpillars. Lepidopterologists have documented, in great detail, the immature life stages of butterflies, as well as which hosts are acceptable and which are toxic to certain species. This information, found in the literature, provides a foundation for further study. An excellent text is James Scott's *Butterflies of North America* (1986), which contains a concise listing of published hostplants. Anyone with a sincere love of butterflies should try raising a few caterpillars to learn about their food requirements and metamorphosis, at the same time possibly making new discoveries.

In closing, the point that I have tried to emphasize is that there is huge difference between the avocational lepidopterologist and the hobby collector. It is misleading to refer to anyone who uses a net as a "collector" without understanding his or her goals. Unfortunately, some folks believe that when it comes to collection-based activity, there are only molecular biologists and hobby collectors – nothing in between. This limited view says that institutionally sanctioned PhD level research is the only legitimate reason to collect and everyone else should use binoculars. This notion has helped to foster a large gap of misunderstanding between those who consider themselves "non-consumptional" butterfly enthusiasts, and avocational lepidopterologists. When one takes a big picture view, avocational lepidopterologists, photographers, gardeners and butterfly watchers are a natural grouping for learning, sharing information and furthering our knowledge of butterflies through mutual understanding, cooperation and respect. We have a lot more in common than you realize, and we can share information and work together for a common goal: the ultimate conservation of butterflies.

Now, about that opening statement. Considering the mass-mortality of our winged friends and their immature stages at the hands of predators, parasites, disease, weather, herbicides, pesticides, mowing, trampling, automobile grills, land practices, etc., the avocational lepidopterologist is not going to cause the extinction of butterflies. To the contrary, our activities have exactly the opposite goal: SAVING butterflies. Citing Robert Pyle (1984) one more time: "*Ironically, butterfly collecting (when properly carried out and applied) can even serve conservation.*"

I would like to thank the following people for their helpful comments, encouragement and corrections: John Calhoun, Ken Davenport and David Wright.

Literature cited:

Arey, M. & A. Grkovich. 2014. *Cercyonis pegala agawamensis* (Satyridae): A new butterfly subspecies from the coastal salt marshes of the northeastern United States of America. The Taxonomic Report, 7(8): 1-16.

Emmel, J. F., T. C. Emmel & K. Davenport. 2008. A new subspecies of *Cercyonis pegala* (Fabricius) (Lepidoptera: Satyridae) from the southern Sierra Nevada of California. *Bulletin of the Allyn Museum* 157: 1-5.

Glassberg, J. 1993. *Butterflies Through Binoculars. A Field Guide to Butterflies in the Boston-New York-Washington Region.* Oxford University Press, New York. 160 pp + 40 plates

Howe, W. H. 1975. *The Butterflies of North America.* Doubleday & Company, Inc., Garden City, New York: xiii + 633 pp. + 97 plates.

Klots, A. B. 1951. *A Field Guide to the Butterflies of Eastern North America.* Peterson Field Guide Series, Houghton Mifflin Company, Boston. 349 pp.

Leach, W. 2013. *Butterfly People: An American Encounter with the Beauty of the World.* Pantheon Books, New York. 388 pp.

Mattoni, R. H. T. 1991. An unrecognized, now extinct, Los Angeles area butterfly (Lycaenidae). *Journal of Research on the Lepidoptera* 28(4): 297-309.

NABA. 2001. *Checklist & English Names of North American Butterflies.* Second Edition. Brian Cassie, Jeffrey Glassberg, Ann Swengel & Guy Tudor eds. North American Butterfly Association. Morristown, New Jersey: iv + 60 pp.

Pavulaan, H. 2014. A case of sympatric *Celastrina ladon* (Cramer), *Celastrina lucia* (W. Kirby) and *Celastrina neglecta* (Edwards) (Lycaenidae: Polyommatainae) in Northern Virginia, with additional records of *C. lucia* in Virginia. *The Taxonomic Report*, 7(7): 1-10.

Pavulaan, H. & D. M. Wright. 2002. *Pterourus appalachiensis* (Papilionidae: Papilioninae), a new Swallowtail butterfly from the Appalachian region of the United States. *The Taxonomic Report*, 3(7): 1-20.

Pavulaan, H. & D. M. Wright. 2005. *Celastrina serotina* (Lycaenidae: Polyommatainae), a new butterfly species from the northeastern United States and Canada. *The Taxonomic Report*, 6(6): 1-19.

Pelham, J. P. 2008. *A Catalogue of the Butterflies of the United States and Canada.* *The Journal of Research on the Lepidoptera* 40: XIII + 652 pp.

Pyle, R. M. 1974. *Watching Washington Butterflies.* Seattle Audubon Society, Seattle. 109 pp.

Pyle, R. M. 1981. *National Audubon Society Field Guide to North American*

Butterflies. Alfred A. Knopf, Inc., New York: 916 pp.

Pyle, R. M. 1984. The Audubon Society Handbook for Butterfly Watchers. Charles Scribner's Sons, New York: 274 pp.

Pyle, R. M. 1992. Handbook for Butterfly Watchers. Houghton Mifflin Company, Boston/New York/London: 280 pp.

Scott, J. A. 1986. The Butterflies of North America. A Natural History and Field Guide. Stanford University Press, Stanford: xv + 583 pp. + 64 plates.

Shiraiwa, K., Q. Cong & N. V. Grishin. 2014. A new *Heraclides* swallowtail (Lepidoptera, Papilionidae) from North America is recognized by the pattern on its neck. *Zookeys* 468: 85-135.

Whalley, P. 1980. Butterfly Watching. Hamlyn Paperbacks. Severn House Publishers Ltd., Middlesex, England. 160 pp.

'Cherry Gall' Spring
Azure (*Celastrina*
ladon serotina),
5/20/11,
Barbara Spencer



Blue-Butterfly Day

It is blue-butterfly day here in spring,
And with these sky-flakes down in flurry on flurry
There is more unmixed color on the wing
Than flowers will show for days unless they hurry.

But these are flowers that fly and all but sing:
And now from having ridden out desire
They lie closed over in the wind and cling
Where wheels have freshly sliced the April mire.

—Robert Frost



The left image is a Spring Azure (*Celastrina ladon*); the right image is a different taxon, listed in the Pelham (2008) catalogue as "*Celastrina lucia*" (not yet recognized by NABA [2001], but subsumed under *C. ladon*). Sight identification would only be able to identify these individuals to genus (*Celastrina*). A photograph of the underside of similar live individuals would fare no better. (see pg. 11)



The left image is a Spring Azure (*Celastrina ladon*); the right image is the spring form of a different taxon, referred to in the Pelham (2008) catalogue as "*Celastrina neglecta*" (recognized as 'Summer' Spring Azure, *C. ladon neglecta*, by NABA [2001]). (see pg. 12)



Eastern Pine Elfin (*Callophrys niphon*), 5/10/14, Sherborne, MA, Dawn Puliafico



Common Checkered-Skipper (*Pyrgus communis*), 9/12/14, Whately, MA, Bill Benner



Hoary Edge (*Achalarus lyciades*) (above) and Silver-spotted Skipper (*Epargyreus clarus*) (below), 6/22/14, Broad Meadow Brook, Worcester, MA, Marjorie Watson





Eastern Comma
(*Polygonia comma*),
8/25/14,
Adams, MA,
Bo Zaremba

Acadian Hairstreak
(*Satyrium acadica*),
7/1/14,
Berkshire Co., MA,
Garry Kessler



Harvester (*Feniseca tarquinius*), 8/18/14,
Medford, MA,
Garry Kessler

Great Spangled
Fritillary (*Speyeria cybele*), 7/2/14,
Breakneck Hill,
Southboro, MA,
Dawn Puliafco





Gray Comma (*Polygonia progne*),
7/5/14, West Newbury, MA,
Erik Nielsen



Black Swallowtail (*Papilio polyxenes*),
6/15/14, Oxford, MA,
Debi Verseckes-Ammenheuser



Little Glasswing (*Pompeius verna*),
7/5/14, Newburyport, Bo Zarembo



Eastern Tiger (*Papilio glaucus*) and
Spicebush (*P. troilus*) Swallowtails,
7/6/14, West Newbury, MA,
Bo Zarembo



American Copper (*Lycaena phlaeas*), 5/11/14,
World's End, Hingham, Ma, Bruce deGraaf

2014 Season Summary and Records

Mark Fairbrother

Even though it was generally a good year for butterflies in Massachusetts in 2014, the year didn't seem to produce the level of excitement we have come to expect in recent years. Giant Swallowtails, Red-banded Hairstreak, White-M Hairstreak, and Gray Comma were once again found, but generally in lower numbers. The 'new' may have worn off those species a bit. There were no major flights into or through the state in 2014, as compared to recent years. Monarch numbers were again very low even in the Fall, the Ladies apparently left their friends at home, and Admirals largely took shore leave elsewhere. There was no real late summer push by species such as Little Yellow, Fiery and Ocola Skipper, and the tortoiseshells just weren't in 2014.

About 7,000 records were received for the 2014 season. Thank-you to the many observers submitting records either directly to me or posting their sightings on the MassLep butterfly list server. For the sake of a compiler's sanity I would like to request assistance from submitters. Records, sometimes in bulk, were received from various reporters throughout December and into the first week of January. Sooner would be better, especially if you'd like them included in the summary. Also, if you post sightings on-line during the season and then send in a group of records post-season, it would be very helpful to indicate which records, if any, were posted earlier and which were not. Unfortunately it's not possible to fit more than a fraction of the total records in the available space. This does not mean that they aren't important; all reported butterflies are logged in the database and help to give a picture of the health of the various butterfly populations in Massachusetts [and, increasingly, have been used in important published scientific studies over the past few years -ed.] In deciding which records to include I tried to balance a combination of early and late dates, location, high numbers, and observer, generally in that order.

Following the NABA checklist the number of species reported for 2014 was 108.

SWALLOWTAILS

Giant Swallowtail was again widespread across the state in 2014, but did not approach the numbers of the previous two years. Only one adult Pipevine Swallowtail was reported (Sherborn). Black, Eastern Tiger, Canadian, and Spicebush Swallowtail were again reported in about normal numbers. Appalachian Tiger Swallowtail was reported from Newbury in June.

WHITES AND SULPHURS

Mustard White was only reported in July from two locations in the Housatonic watershed, while West Virginia White was again reported mostly

from Berkshire Co. with a sprinkling of reports into the CRV from mostly annual locations. Cabbage White maintained healthy populations throughout the season. Clouded and Orange Sulphur reports were about average, with Cloudless Sulphur reported from Newbury in August. Single Little Yellows were reported from Ware and Mattapoisett.

GOSSAMER-WINGS

The probably widespread but very hard to find Harvester was again in its stronghold in the Mystic Lakes area, with isolated reports as far west as Hawley. American Copper numbers were about average except for this reporter, who saw very few all season long. Bog Copper turned up in a number of locations, while Bronze Coppers were reported almost exclusively east of Rte. 495. Hairstreak species didn't seem to provide the same excitement in 2014. Coral Hairstreak was reported from a number of locations, almost all east of Worcester Co. Banded Hairstreak was well reported, with numbers about average. Edwards Hairstreak was again well reported from the Woburn-Canton area, the Cape and Islands. Frosted Elfin were reported from the usual locations except Montague, where the population may have succumbed to construction and bad management. Bog Elfin was reported from the two expected locations. Henry's Elfin again turned up from late April through early May, with most records from the eastern half of the state. Hoary Elfin was again reported only from Plymouth Co. and the Islands in 2014. Red-banded Hairstreak put in appearances in five locations in the eastern part of the state, and didn't seem to generate the excitement it did in 2013. The few reports of Hickory Hairstreak were scattered across the State. White M Hairstreak appeared at a number of locations, mostly in the East but also in Sheffield, with most sightings in August and September. Hessel's Hairstreak was reported from two locations, while the relatively more common Juniper Hairstreak was also found mostly in the Eastern coastal areas. Gray Hairstreaks were widely reported, mostly from Worcester Co. eastward. Early Hairstreak was reported only from the Mt. Greylock area in late May and early June. Spring Azure appeared in mid-April, while Summer Azure started flying in early-June. The few Cherry Gall Azure reports were scattered from North Adams to Barnstable. Silvery Blue also had a scattering of reports across the state except the southeast.

BRUSHFOOTED BUTTERFLIES

Variiegated Fritillary was reported only from Raynham and Newburyport, both in mid-July. Both Great Spangled and Aphrodite had good years, while Atlantis Fritillary was reported from only a very few sites in the Berkshires. Harris' Checkerspot reports were again few, while Baltimore Checkerspot was again reported in relatively small numbers. Your compiler was surprised by the few reports of Question Mark in 2014, while Eastern Comma was well reported across most of the state. Gray Comma continued to surprise, being reported not just from the now expectable Berkshires, but also from What-

ely and Newbury, of all places. Mourning Cloak was the first species out of the gate in 2014 and had good numbers all season, while the only Tortoiseshell reported was a Compton in West Bridgewater in October. Both American and Painted Lady numbers were perhaps normal, with neither species reported in any real numbers.

Viceroy numbers were perhaps down a bit, while both Hackberry and Tawny Emperor were again reported from the usual scattered locations in the CRV and southern Berkshires. No. Pearly-eye was reported from numerous Worcester Co. sites, with additional reports scattered across the Berkshires. Eyed Brown reports were low while Appalachian Brown reports were up, including a second brood. Little Wood-Satyr, Com. Ringlet and Com. Wood-Nymph numbers and reports were about as would be expected. Monarch numbers rebounded only modestly in 2014, with low numbers everywhere all season except briefly in the Dartmouth area in the Fall.

SKIPPERS

There was no pronounced influx of southern species this year, although there were three records of Fiery Skipper and four of Ocola Skipper. Sachem was again found over much of coastal southeastern Mass., sometimes in numbers. Zabulon Skipper was again widespread in the eastern counties, southern Worcester Co., and the lower CRV.

Silver-spotted Skipper had a more or less average year. Hoary Edge reports away from Worcester at Broad Meadow were very low. Sleepy Duskywing was reported from Plymouth Co. and the Vineyard, and Horace's Duskywing reports included more sightings from Ware and the CRV. Common Checkered Skipper had solo reports from Whately and Gardner, of all places. Common Sootywing numbers were for the most part quite low.

Arctic Skipper was again reported only from the Moran WMA in Windsor and in Royalston. European Skipper reports were often in double or triple digits. Very few Leonard's Skippers were received, all from the eastern half of the state. Cobweb Skipper interestingly was reported from MV and Carver in the east, and from the C.R.V. and Indian Skipper reports were all from the eastern half of the state except for Northampton and Montague. Broad-winged Skipper reports were scattered across the state, with the highest number surprisingly from southern Berkshire County. Dion Skipper was reported only from Northampton and upper Berkshire County. Two-spotted Skipper was found on the Central Berkshire 4J count, while Pepper and Salt Skipper was reported from North Adams to northern Worcester Co. Single Ocola Skippers appeared in Concord, Westwood, Hubbardston and Northampton.



Abbreviations: AP-Allen's Pond; BFD-Barre Falls Dam; BMB-Broad Meadow Brook, CG-Community Gardens; CRP-Charles River Peninsula; CRV-Connecticut River Valley; CST-Crane Swamp Trail; EQLT-East Quabbin Land Trust; F&G-Fish & Game; FPB-Fort Pond Brook; FS-Fannie Stebbins Wildlife Sanctuary; GBH-Great Blue Hill; GM-Great Meadows NWR; GITW-Garden in the Woods; HPM-Horn Pond Mountain; IBA-Important Bird Area; IRP-Ipswich River Park; IRWS-Ipswich River Wildlife Sanctuary; LA-Larz Anderson Park; LPWS-Long Pasture Wildlife Sanctuary; MAS-Mass Audubon Sanctuary; MCRT-Massachusetts Central Rail Trail; MBWMA-Martin Burns WMA; MHF-Moose Hill Farm; ML-Mystic Lakes; MMP-Mountain Meadow Preserve; MPRA-Mill Pond Recreational Area; MSSF-Myles Standish State Forest; MV-Martha's Vineyard; NABA 4JC-North American Butterfly Association 4th of July Count; NAC-Nine Acre Corner; NCG-Northampton Community Gardens; NCM-North Common Meadows TTOR; NP-Newburyport; NRI-Norwottuck Rail Trail; NWR-National Wildlife Refuge; PL-Power Line; PRNWR-Parker River NWR; Res.-Reservoir or Reservation; RM-Rumney Marsh; S-C - Stevens-Coolidge TTOR; SF-State Forest; SP-State Park; TTOR-The Trustees of Reservations; WMA-Wildlife Management Area; WMWS-Wachusett Meadow Wildlife Sanctuary; WRR-Waskosim Rock Res.



Pipeline Swallowtail

6/15 1 Sherborn PL - Dawn Puliafico
8/5 3 Belmont - Will Freedberg

Black Swallowtail

5/3 1 GBH, Canton - Matt Arey
5/5 1 Northampton - Tom Gagnon
5/11 1 Norfolk - Madeline Champagne
5/11 1 Falmouth - Matt Pelikan
5/11 1 Old Town Hill, Newbury - Bo Zaremba
5/15 1 Katama, Edgartown - Liz Loucks
5/17 6 Sheffield - Matt Arey
5/21 1 Halibut Point SP, Rockport - Jim Berry
5/25 1 Moran WMA, Windsor - MBC trip
5/25 3 Williamsburg - Carol Duke
5/30 1 W Bridgewater - Don Adams
6/1 1 Adams Farm, Walpole - Madeline Champagne
6/3 2 MBWMA, Newbury - Fred Bouchard
6/7 1 Charlemont - Matt Arey
6/7 1 Rough Meadows WS, Rowley - Joe & Sharon Stichter
6/8 1 Harwich - Larry Barry
6/15 2 Sherborn PL - Dawn Puliafico
6/24 1 Stichter Yard, Newbury - Sharon Stichter
6/25 1 E Longmeadow - Karen Parker
6/29 1 GBH, Canton - MBC trip
7/11 12 S Berkshire NABA - Rene Labauch, *et al.*
7/13 4 WMWS, Princeton - Fred Bouchard
7/17 4 Lake Wampanoag WS, Gardner - MBC trip
7/20 30 Northampton NABA - Mark Fairbrother, *et al.*
7/22 1 Leicester - Mark Rowden
7/26 14 Barnstable NABA - Ian Ives, *et al.*
8/12 7 Hubbardston, Mt. Jefferson Cons. Area - Wendy Howes, *et al.*
8/26 2 Mount Sugarloaf, Deerfield - Josh Rose
9/1 1 Crane WMA, Falmouth - Joe Dwelly
9/13 14 AP Allens Neck, Dartmouth - Lauren Miller-Donnelly
9/14 6 NAC, Concord - MBC Trip
9/28 1 PRNWR Hq, NP - Matt Arey
10/10 2 Allens Pond Wildlife Sanctuary, Dartmouth - Steve Moore & Barbara Volkle

Giant Swallowtail

5/17 1 Sheffield - Matt Arey
5/29 1 Westborough - Nick Block
6/17 1 Shrewsbury - Martha Gach, *et al.*
8/2 1 Williamstown - Pam Weatherbee
8/3 1 Whately - Bill Benner
8/5 1 Northampton CG - Tom Gagnon
8/5 1 Florence - Tom Gagnon
8/7 2 Falmouth - Alison Robb
8/7 4 Northampton CG - Tom Gagnon
8/8 1 W Tisbury - Susan Silva
8/10 1 Milton - Elizabeth McKenzie

8/10 2 North Adams, Mt. Greylock State Res. - Paul Cavalante
8/10 1 Whately - Bill Benner
8/11 1 Medfield - Walt Webb
8/12 1 Williamstown - Pam Weatherbee
8/14 1 Lancaster - Ruth Anderson
8/16 1 Dartmouth - Brian Cassie
8/16 1 Athol - Dave Small
8/17 3 Wellfleet Bay Ws, Wellfleet - Mark Faherty
8/17 1 Arnold Arboretum, Boston - Bob Mayer
8/17 1 W Bridgewater - Don Adams
8/17 1 Champagne yard, Foxborough - Madeline Champagne
8/18 1 Eastham - Jerry Hequembourg
8/18 1 Williamsburg - Carol Duke
8/20 1 Springfield - Janis LaPointe
8/23 1 Danvers - Matt Arey
8/24 1 E Longmeadow - Karen Parker
8/26 1 Mount Sugarloaf, Deerfield - Josh Rose
8/26 1 Shelburne - Jeff Boettner
8/26 1 Princeton - Barry van Dusen
8/27 1 Monson - Matt Tassinari
8/27 3 Florence - Tom Gagnon
8/28 1 Marblehead - Karen Haley
8/29 1 Northampton - Shelley Parker
8/29 3 Whately - Bill Benner
9/2 1 Leverett - Jeff Boettner
9/2 1 Uxbridge - Ann Hanscom
9/4 1 Ayer - Greg Dysart
9/5 1 Amherst - Josh Rose
9/6 1 Sylvan Nursery, Dartmouth - Lauren Miller-Donnelly
9/7 1 Williamstown - Pam Weatherbee
9/7 1 Common Pastures, Newbury - Brian Cassie
9/9 1 Westfield Farm, Hubbardston - Wendy Howes
9/10 1 Boston - Tea Kesting-Handly
9/12 1 Athol - Dave Small
9/17 1 Malden - Lorene Melvin

Tiger Swallowtail (spp)

5/17 3 Tully Dam, Royalston - Carl Kamp & Alyce Mayo
5/20 1 E Longmeadow - Karen Parker
5/29 3 Montague Plains - Elise & Karl Barry
6/1 28 Warwick - Mark Lynch & Sheila Carroll
6/7 2 Mount Wachusett, Princeton - Matt Arey
6/15 4 Choate Island, Essex - Jim Berry
6/17 1 E Longmeadow - Karen Parker
7/5 1 Mt. Tom State Reservation, Easthampton - Bruce King
7/8 1 Ashburnham - Josh Rose
7/17 13 Lake Wampanoag WS, Gardner - MBC trip
7/26 1 World's End, Hingham - Bruce deGraaf & Greg Dysart
8/3 2 Bernardston - Wendy Howes
8/17 1 Athol - Dave Small
8/30 2 MPRA, W Newbury - Bo Zaremba

9/14 1 Ward Res, Andover - Elizabeth Crone, *et al.*

Eastern Tiger Swallowtail

5/6 1 Natick - Greg Dysart
5/7 1 E Longmeadow - Karen Parker
5/8 1 S Amherst - Harvey Allen
5/10 3 GBH, Canton - Matt Arey
5/11 1 Dauphinais Park, Grafton - Dolores Price & Martin St. Onge
5/14 2 Mt. Auburn, Watertown - Steve Moore
5/15 1 Vineyard Haven - Matt Pelikan
5/16 3 Crane Beach, Ipswich - Jim Berry
5/17 12 Sheffield - Matt Arey
5/17 2 Holliston - Richard Hildreth
5/20 4 Williamsburg - Carol Duke
5/24 1 Leicester - Mark Rowden
5/30 3 Holliston - Richard Hildreth
6/1 3 Newbury - Bo Zaremba
6/2 12 Williamsburg - Carol Duke
6/6 1 Champagne yard, Foxborough - Madeline Champagne
6/7 2 Southborough - Dawn Puliafico
6/8 1 E Longmeadow - Karen Parker
6/16 3 Holliston - Richard Hildreth
6/17 1 Shrewsbury - Martha Gach, *et al.*
6/23 3 Barry Yard, Paxton - Elise & Karl Barry
7/5 4 Cherry Hill Res, W Newbury - Erik Nielsen
7/10 8 Hardwick, Mandell Hill EQLT - Wendy Howes
7/10 8 EQLT Mandell Hill, Hardwick - Wendy Howes
7/12 11 Truro NABA - Alison Robb, *et al.*
7/13 11 WMWS, Princeton - Fred Bouchard
7/21 1 CST, Westborough - Steve Moore
7/22 2 Borden Colony, Raynham - Joe Dwelly
8/3 3 Whately - Bill Benner
8/16 3 W Newbury - Bo Zaremba
8/18 2 Arlington - Lisa Wolfe
8/20 1 EQLT Mandell Hill, Hardwick - Wendy Howes
9/4 1 Holliston - Richard Hildreth
9/6 1 Arlington - Lisa Wolfe
9/8 1 Hubbardston - Wendy Howes
9/20 1 NAC, Concord - Matt Arey
9/28 1 Whately - Bill Benner

Canadian Tiger Swallowtail

5/11 1 Hanson - Brian Cassie
5/17 4 Tully Dam, Royalston - Carl Kamp & Alyce Mayo
5/17 1 Shrewsbury - Bruce deGraaf
5/25 5 North Adams, Mt. Greylock State Res. - MBC trip
5/30 3 North Adams, Mt. Greylock State Res. - Terri Armata
6/2 13 Hawley - Mark Lynch & Sheila Carroll
6/7 20 Charlemont - Matt Arey
6/8 2 Greylock Glen, Adams - Terri Armata
6/28 1 N Worcester NABA - Carl Kamp, *et al.*

Appalachian Tiger Swallowtail

6/14 5 MBWMA, Newbury - Matt Arey

Spicebush Swallowtail

5/10 1 GBH, Canton - Matt Arey
5/12 1 World's End, Hingham - Howard Hoople
5/25 2 Beartown SF, Great Barrington - Mark Lynch & Sheila Carroll
5/30 1 Holliston - Richard Hildreth
6/2 3 Borden Colony, Raynham - Joe Dwelly
6/6 1 Marston Mills Airport - Matt Pelikan
6/6 1 Stichter Yard, Newbury - Joe & Sharon Stichter
6/15 1 Champagne yard, Foxborough - Madeline Champagne
6/19 2 Norcross Wildlife Sanctuary, Wales - Elise Barry, *et al.*
6/21 2 MHF, Sharon - Madeline Champagne
7/5 6 W Bridgewater - Don Adams
7/6 5 GBH, Canton - Erik Nielson
7/8 3 E Longmeadow - Karen Parker
7/12 8 Truro NABA - Alison Robb, *et al.*
7/12 8 Blackstone Valley NABA - Tom Dodd, *et al.*
7/13 1 Leicester - Mark Rowden
7/18 3 World's End, Hingham - Greg Dysart
7/19 6 Falmouth NABA - Alison Robb, *et al.*
7/25 1 E Longmeadow - Karen Parker
7/26 4 Wellfleet Bay Ws, Wellfleet - Joe Dwelly

8/3 2 Whately - Bill Benner
8/7 1 Northampton CG - Tom Gagnon
8/17 10 Nasketucket Bay Reserve, Mattapoisett - Matt Arey
8/24 2 W Bridgewater - Don Adams
9/6 1 Arlington - Lisa Wolfe
9/17 1 Ware - Wendy Howes, *et al.*
10/3 1 Lexington - Matt Arey

Mustard White

7/19 3 C Berkshire NABA - Tom Tynning, *et al.*
7/20 1 Sheffield - Matt Arey
7/21 8 Berkshire County - Tom Gagnon

West Virginia White

5/2 1 Holyoke - Bill Benner & Joe Wicinski
5/6 4 Williamstown - Pam Weatherbee
5/8 4 Sunderland - Ron & Sue Cloutier
5/10 8 Williamstown - Pam Weatherbee
5/12 4 Ashfield - Julie Richburg
5/14 4 Cummington - Julie Richburg
5/18 12 Williamstown - Bo Zaremba
5/21 1 Williamsburg - Carol Duke
5/25 5 Beartown SF, Great Barrington - Mark Lynch & Sheila Carroll
5/25 22 North Adams, Mt. Greylock State Res. - MBC trip
5/30 5 North Adams, Mt. Greylock State Res. - Terri Armata
6/2 14 North Adams, Mt. Greylock State Res. - Tom Gagnon, Harvey Allen, & Betsy Higgins

Cabbage White

4/4 1 Wellfleet Bay Ws, Wellfleet - Mark Faherty
4/6 1 Revere - Steve Moore & Barbara Volkle
4/11 1 Springfield - Karen Parker
4/12 1 Amherst - Josh Rose
4/14 1 Oak Bluffs - Lori Shaller
4/19 2 Tower Hill, Boylston - Dawn Puliafico
4/21 1 Leicester - Mark Rowden
4/22 10 Holliston - Richard Hildreth
5/1 65 Chestnut Hill Farm, Southborough - Dawn Puliafico
5/10 11 Ipswich - Jim Berry
5/10 1 Leicester - Mark Rowden
5/17 24 Delaney WMA, Stow - MBC trip
5/30 4 Hoft Farm, W Tisbury - Matt Pelikan
6/1 36 Delaney WMA, Stow - Garry & Anne Kessler
6/1 1 Warwick - Mark Lynch & Sheila Carroll
6/8 1 Leicester - Mark Rowden
6/28 799 N Worcester NABA - Carl Kamp, *et al.*
6/30 2 Leicester - Mark Rowden
7/5 265 Appleton Farms, Ipswich - Russ Hopping
7/5 267 C Franklin NABA - Mark Fairbrother, *et al.*
7/8 1 Leicester - Mark Rowden
7/10 5 Greylock Glen, Adams - Pam Weatherbee
7/11 93 S Berkshire NABA - Rene Labauch, *et al.*
7/12 96 Concord NABA - Richard Walton, *et al.*
7/14 60 Williamstown - Terri Armata
7/17 24 LPWS, Barnstable - Joe Dwelly
7/24 3 E Longmeadow - Karen Parker
7/26 7 Oak Bluffs - Matt Pelikan
7/26 173 Eastham - Joe Dwelly
8/3 2 Leicester - Mark Rowden
8/10 5 Lexington - Tom Whelan
8/16 11 W Newbury - Bo Zaremba
8/17 3 Athol - Dave Small
8/20 5 EQLT Mandell Hill, Hardwick - Wendy Howes
8/20 5 Hardwick, Mandell Hill EQLT - Wendy Howes
8/20 10 Ashland - Dawn Puliafico
8/24 17 Buckland - Wendy Howes & Alan Rawle
8/27 3 Williamsburg - Carol Duke
8/28 1 Leicester Rod & Gun Club - Mark Rowden
8/30 20 Northampton CG - MBC Trip
9/1 5 Saffarewich Yard, Newbury - dorothy saffarewich
9/2 5 Holliston - Richard Hildreth
9/18 20 Tower Hill, Boylston - Wendy Miller
9/29 6 Easthampton - Bruce King
10/1 1 Hadley - Sue Cloutier
10/8 16 Wayland CG - Lesley Stillwell & Bob Bowker
10/9 1 Shelburne - Karen Parker

10/12 25 Cumberland Farm Fields, Halifax - Wendy Howes & Alan Rawle
10/17 1 Holliston - Richard Hildreth
10/17 25 Carlisle - Fred Bouchard
10/18 7 Nasketucket Bay Reserve, Mattapoisett - Mark Lynch & Sheila Carroll

Clouded Sulphur

5/3 1 GBH, Canton - Matt Arey
5/7 1 Holliston - Richard Hildreth
5/10 2 Ipswich - Jim Berry
5/10 1 Amherst - Josh Rose
5/15 35 Borden Colony, Raynham - Joe Dwelly
5/17 12 Sheffield - Matt Arey
5/17 24 Delaney WMA, Stow - MBC trip
5/22 2 Crane WMA, Falmouth - George Gove
5/25 2 Beartown SF, Great Barrington - Mark Lynch & Sheila Carroll
5/29 8 Tower Hill, Boylston - Wendy Miller
5/30 1 Springfield - Karen Parker
6/1 1 Leicester - Mark Rowden
6/3 9 Nasketucket Bay Reserve, Mattapoisett - Joe Dwelly
6/21 1 Cass Meadows, Athol - Josh Rose
6/27 2 MHF, Sharon - Madeline Champagne
6/28 12 N Worcester NABA - Carl Kamp, *et al.*
7/3 4 Oak Grove Farm, Millis - Madeline Champagne
7/8 50 Borden Colony, Raynham - Joe Dwelly
7/11 161 S Berkshire NABA - Rene Labauch, *et al.*
7/12 21 Wendmuth Meadow, N. Brookfield - Wendy Howes & Alan Rawle
7/20 193 Northampton NABA - Mark Fairbrother, *et al.*
7/22 5 Moore SP, Paxton - Elise Barry
8/3 1 Whately - Bill Benner
8/12 5 Hubbardston, Mt. Jefferson Cons. Area - Wendy Howes, *et al.*
8/19 10 Allens Pond Wildlife Sanctuary, Dartmouth - Lauren Miller-Donnelly
8/24 35 Buckland - Wendy Howes & Alan Rawle
8/26 30 MMP, Williamstown - Bo Zarembo
8/30 10 MPRA, W Newbury - Bo Zarembo
9/12 56 BFD, Hubbardston - Wendy Howes
9/13 49 AP Allens Neck, Dartmouth - Lauren Miller-Donnelly
9/14 40 Ward Res, Andover - Elizabeth Crone, *et al.*
9/28 3 Prospect Hill, Topsfield - Matt Arey
10/3 4 Paxton - Elise Barry
10/6 2 Hillcrest CC, Leicester - Mark Rowden
10/12 62 Cumberland Farm Fields, Halifax - Wendy Howes & Alan Rawle
10/22 1 Sheffield - Matt Pelikan
10/28 1 E Longmeadow - Karen Parker
11/12 3 Moore SP, Paxton - Elise & Karl Barry
11/23 1 Moore SP, Paxton - Elise & Karl Barry
11/23 10 AP, Dartmouth - Mark Lynch

Orange Sulphur

5/10 1 GBH, Canton - Matt Arey
5/12 10 Delaney WMA, Stow - Steve Moore
5/15 3 Borden Colony, Raynham - Joe Dwelly
5/17 1 Montague Plains - Mark Fairbrother
5/18 1 Correll State Forest, West Tusbury - Matt Pelikan
6/2 18 Borden Colony, Raynham - Joe Dwelly
7/10 2 EQLT Mandell Hill, Hardwick - Wendy Howes
7/10 2 Hardwick, Mandell Hill EQLT - Wendy Howes
7/12 12 Blackstone Valley NABA - Tom Dodd, *et al.*
7/17 1 Norfolk, Miller Street field - Madeline Champagne
7/22 13 Borden Colony, Raynham - Joe Dwelly
8/1 10 LPWS, Barnstable - Joe Dwelly
8/24 15 Barre - Ruth Anderson
9/1 2 Crane WMA, Falmouth - Joe Dwelly
9/13 28 AP Allens Neck, Dartmouth - Lauren Miller-Donnelly
9/23 25 Nasketucket Bay Reserve, Mattapoisett - Matt Pelikan
9/28 36 Crane Beach, Ipswich - Matt Arey
10/6 2 E Longmeadow - Karen Parker
10/9 2 Stichter Yard, Newbury - Joe Stichter
10/14 1 Hubbardston, Mt. Jefferson Cons. Area - Wendy Howes
10/17 10 Carlisle - Fred Bouchard
10/30 20 AP Field Station, Dartmouth - Lauren Miller-Donnelly

Cloudless Sulphur

8/20 1 Saffarewich Yard, Newbury - dorothy saffarewich
Little Yellow
8/9 1 Ware - Brian Klassanos
8/17 1 Nasketucket Bay Reserve, Mattapoisett - Matt Arey

Harvester

6/2 1 Hawley - Mark Lynch & Sheila Carroll
6/3 4 Mystic Lakes, Medford - Renee LaFontaine
6/15 2 Mystic Lakes, Arlington - Renee LaFontaine
7/12 3 Blackstone Valley NABA - Tom Dodd, *et al.*
7/20 2 Upton - Cathy & Tom Dodd
8/10 3 FS WMA, Longmeadow - Tom Gagnon
8/15 19 Mystic Lakes, Medford - Renee LaFontaine
8/16 22 Mystic Lakes, Medford - Renee LaFontaine
8/23 1 Ashland - Dawn Puliafico

American Copper

5/2 1 W Tusbury - Liz Loucks
5/10 5 Ward Res, Andover - Howard Hoople
5/17 3 Tully Dam, Royalston - Carl Kamp & Alyce Mayo
5/18 3 Williamsburg - Carol Duke
5/20 12 Sherborn PL - Dawn Puliafico
5/30 20 Hoft Farm, W Tusbury - Matt Pelikan
6/2 2 Hawley - Mark Lynch & Sheila Carroll
6/6 14 Stichter Yard, Newbury - Joe & Sharon Stichter
6/7 10 Ward Res, Andover - MBC Trip
6/8 1 Greylock Glen, Adams - Terri Armata
6/19 2 Norcross Wildlife Sanctuary, Wales - Elise Barry, *et al.*
6/29 2 Williamsburg - Carol Duke
7/12 44 Blackstone Valley NABA - Tom Dodd, *et al.*
7/19 2 Muir Meadow, Paxton - Elise Barry
7/29 3 Oak Bluffs - Matt Pelikan
7/30 3 Maudslay SP, NP - Bo Zarembo
8/2 1 Hadley - Josh Rose
8/28 1 E Longmeadow - Karen Parker
9/6 7 AP Allens Neck, Dartmouth - Lauren Miller-Donnelly
9/17 1 Stafford Hill WMA, Cheshire - Gael Hurley
9/18 10 Appleton Farms, Ipswich - Howard Hoople
9/20 2 Sedge Meadow, Wayland - Matt Arey
10/5 2 Crane WMA, Falmouth - Joe Dwelly
10/12 2 Cumberland Farm Fields, Halifax - Wendy Howes & Alan Rawle
10/20 1 NP - Bo Zarembo

Bronze Copper

6/29 1 Williamsburg - Carol Duke
7/5 2 Appleton Farms, Ipswich - Russ Hopping
7/11 3 S Berkshire NABA - Rene Labauch, *et al.*
7/12 2 Concord NABA - Richard Walton, *et al.*
7/19 1 Plum Island Airport, NP - Matt Arey
9/1 4 NAC, Concord - Tom Whelan
9/14 4 Wayland CG - MBC Trip
9/14 8 Sedge Meadow, Wayland - MBC Trip
9/18 1 Appleton Farms, Ipswich - Howard Hoople
9/28 1 Prospect Hill, Topsfield - Matt Arey
10/5 3 Appleton Farms, Ipswich - MBC trip
10/5 2 Wayland CG - Steve Moore & Barbara Volkle

Bog Copper

6/27 3 Holden - Garry Kessler
6/29 9 Aquinnah - Matt Pelikan
7/5 1041 C Franklin NABA - Mark Fairbrother, *et al.*
7/7 1 Bank Street bog, Harwich - Joe Dwelly
7/8 150 Ashburnham - Josh Rose
7/9 10 Hubbardston, Williamsville Road - Wendy Howes
7/10 3 EQLT Price River Reservation, Barre - Wendy Howes
7/11 100 Ashburnham - Greg Dysart
7/12 16 Truro NABA - Alison Robb, *et al.*
7/12 2 Concord NABA - Richard Walton, *et al.*

Coral Hairstreak

7/5 3 HPM, Woburn - Garry Kessler
7/5 3 C Franklin NABA - Mark Fairbrother, *et al.*
7/6 3 GBH, Canton - Erik Nielson
7/12 27 Truro NABA - Alison Robb, *et al.*
7/19 16 C Berkshire NABA - Tom Tynning, *et al.*
7/22 3 Westport - Lauren Miller-Donnelly
7/25 3 Correll State Forest, West Tusbury - Matt Pelikan

7/26 20 Brewster NABA - Joe Dwelly, *et al.*
7/29 1 Wellfleet - Cathy & Tom Dodd

Acadian Hairstreak

6/28 31 Berkshire County - Tom Gagnon
7/19 18 Berkshire County - Tom Gagnon & Harvey Allen

Edwards' Hairstreak

6/28 4 HPM, Woburn - MBC trip
6/29 4 W Tisbury - Matt Pelikan
7/5 20 HPM, Woburn - Garry Kessler
7/6 5 GBH, Canton - Erik Nielsen
7/6 3 Edgartown - Matt Pelikan
7/6 19 Old County, W Tisbury - Matt Pelikan
7/12 22 Truro NABA - Alison Robb, *et al.*
7/25 1 Correllus State Forest, West Tisbury - Matt Pelikan
7/29 52 Wellfleet - Cathy & Tom Dodd

Banded Hairstreak

6/22 1 BMB WS, Worcester - MBC Trip
6/25 1 E Longmeadow - Karen Parker
6/27 3 MHF, Sharon - Madeline Champagne
6/28 2 Leicester - Mark Rowden
6/29 1 E Longmeadow - Karen Parker
7/3 1 Champagne yard, Foxborough - Madeline Champagne
7/5 15 Williamsburg - Carol Duke
7/5 94 Montague - Tom Gagnon & Betsy Higgins
7/6 12 GBH, Canton - Erik Nielson
7/7 2 Fitzgerald Lake, Florence - Tom Gagnon & Betsy Higgins
7/7 7 Thompson Fields, Harwich - Joe Dwelly
7/8 13 Leicester - Mark Rowden
7/10 2 Greylock Glen, Adams - Pam Weatherbee
7/12 18 Blackstone Valley NABA - Tom Dodd, *et al.*
7/20 3 Sheffield - Matt Arey
7/20 21 Upton - Cathy & Tom Dodd
7/22 2 Moore SP, Paxton - Elise Barry
7/30 3 Hubbardston - Wendy Howes
8/3 7 Leicester - Mark Rowden
8/9 4 Leicester - Mark Rowden
8/14 2 Leicester - Mark Rowden
8/19 1 Hubbardston old landfill - Wendy Howes

Hickory Hairstreak

7/5 3 Montague - Tom Gagnon & Betsy Higgins
7/5 1 Cherry Hill Res, W Newbury - Erik Nielsen
7/7 2 W Newbury - Bo Zaremba
7/12 2 Blackstone Valley NABA - Tom Dodd, *et al.*
7/18 1 Whately - Tom Gagnon
7/21 1 Berkshire County - Tom Gagnon
7/22 1 Mount Holyoke, Hadley - Tom Gagnon
8/5 1 World's End, Hingham - Garry Kessler
8/9 1 Holliston - Richard Hildreth
8/11 1 Florence - Tom Gagnon

Striped Hairstreak

6/28 1 HPM, Woburn - MBC trip
6/29 1 Breakneck Hill Conservation Land, Southborough - Dawn Puliafico
6/29 1 Chilmark - Matt Pelikan
7/5 5 Montague - Tom Gagnon & Betsy Higgins
7/12 6 Blackstone Valley NABA - Tom Dodd, *et al.*
7/14 1 Williamstown - Terri Armata
7/17 7 Lake Wampanoag WS, Gardner - MBC trip
7/19 1 Berkshire County - Tom Gagnon & Harvey Allen
7/26 1 Thompson Fields, Harwich - Joe Dwelly
7/29 1 Phillipston - Wendy Howes
8/9 1 Whately - Bill Benner
8/17 2 Nasketucket Bay Reserve, Mattapoisett - Matt Arey

Oak Hairstreak

7/6 1 Old County, W Tisbury - Matt Pelikan
7/12 3 GBH, Canton - Ben Gagliardi
7/19 1 C Berkshire NABA - Tom Tynning, *et al.*
7/19 1 Pleasant Valley MAS, Lenox - Rene Laubach

Brown Elfin

4/19 2 HPM, Woburn - Tom Whelan
4/21 1 Flat Rock Wildlife Sanc., Fitchburg - Rosemary Mosco
4/21 1 Lamson Rd, Foxborough - Madeline Champagne
4/28 1 Montague Plains - Ron & Sue Cloutier
5/3 22 Correllus State Forest, West Tisbury - Matt Pelikan

5/3 40 MSSF, Plymouth - Greg Dysart
5/5 1 Westfield - Tom Gagnon
5/7 21 Pilgrim Heights, Truro - Joe Dwelly
5/11 2 Otter River SF, Winchendon - Mark Lynch & Sheila Carroll

5/17 5 Montague Plains - Mark Fairbrother
5/18 21 Myles Standish State For. Carver - MBC trip
6/3 1 MBWMA, Newbury - Fred Bouchard
6/3 2 Nasketucket Bay Reserve, Mattapoisett - Joe Dwelly

Hoary Elfin

5/3 9 Correllus State Forest, West Tisbury - Matt Pelikan
5/3 10 MSSF, Plymouth - Greg Dysart
5/3 25 Myles Standish State For. Carver - Matt Arey
5/18 20 Myles Standish State For. Carver - MBC trip
5/18 3 Correllus State Forest, West Tisbury - Matt Pelikan

Frosted Elfin

5/3 2 Myles Standish State For. Carver - Matt Arey
5/4 1 Lamson Rd, Foxborough - Madeline Champagne
5/5 6 Westfield - Tom Gagnon
5/6 1 Weir Hill Res, N Andover - Russ Hopping
5/7 4 Lamson Rd, Foxborough - Madeline Champagne
5/8 1 Foxborough - Gary Kessler
5/11 5 Weir Hill Res, N Andover - Howard Hoople
5/11 1 Florence - Tom Gagnon
5/11 14 Lamson Rd, Foxborough - Madeline Champagne
5/12 16 Lamson Rd, Foxborough - Madeline Champagne
5/12 4 Weir Hill Res, N Andover - Russ Hopping
5/17 3 Weir Hill Res, N Andover - Howard Hoople
5/18 1 Myles Standish State For. Carver - MBC trip
5/21 65 Lamson Rd, Foxborough - Madeline Champagne
5/27 76 Lamson Rd, Foxborough - Madeline Champagne
5/29 9 Crane WMA, Falmouth - Joe Dwelly
6/1 72 Lamson Rd, Foxborough - Madeline Champagne
6/1 2 Weir Hill Res, N Andover - Howard Hoople
6/6 3 Crane WMA, Falmouth - Matt Pelikan
6/7 6 Weir Hill Res, N Andover - MBC Trip
6/7 59 Lamson Rd, Foxborough - Madeline Champagne

Henry's Elfin

4/25 5 Great Meadow, Arlington - Greg Dysart
5/2 5 Fowl Meadows, Milton - Greg Dysart
5/3 1 Great Meadow, Arlington - Howard Hoople
5/3 1 GBH, Canton - Matt Arey
5/5 3 Milton - Gary Kessler
5/7 3 Great Meadows, Lexington - Ron Hamburger
5/11 1 Otter River SF, Winchendon - Mark Lynch & Sheila Carroll

5/11 3 Great Meadow, Arlington - Matt Pelikan

5/14 1 Natick - Greg Dysart

Bog Elfin

5/17 2 Ashburnham - Garry Kessler
5/26 1 Tom Swamp, Petersham - Bo Zaremba
5/29 2 Ashburnham - Nicholas Block

Eastern Pine Elfin

4/22 1 E Longmeadow - Karen Parker
4/25 2 Lamson Rd, Foxborough - Madeline Champagne
5/2 1 Hoft Farm, W Tisbury - Liz Loucks
5/3 40 Myles Standish State For. Carver - Matt Arey
5/5 1 Westfield - Tom Gagnon
5/7 7 GBH, Canton - Brian Sullivan
5/7 5 Lamson Rd, Foxborough - Madeline Champagne
5/9 20 Montague Plains - Josh Rose
5/10 7 Ward Res, Andover - Howard Hoople
5/11 3 Holliston - Richard Hildreth
5/11 9 Leverett - Josh Rose
5/11 10 Otter River SF, Winchendon - Mark Lynch & Sheila Carroll

5/12 12 Quabbin Res, New Salem - Ron & Sue Cloutier

5/12 7 Lamson Rd, Foxborough - Madeline Champagne

5/17 82 Montague Plains - Mark Fairbrother

5/17 30 Sheffield - Matt Arey

5/18 28 Myles Standish State For. Carver - MBC trip

5/21 8 Lamson Rd, Foxborough - Madeline Champagne

5/25 1 Beartown SF, Great Barrington - Mark Lynch & Sheila Carroll

6/1 21 Warwick - Mark Lynch & Sheila Carroll
6/2 1 Ponkopaug Bog, Canton - Greg Dysart
6/10 4 Holliston - Richard Hildreth
6/16 1 Crane WMA, Falmouth - Joe Dwelly
6/21 1 Athol - Josh Rose

Juniper Hairstreak

4/28 1 HPM, Woburn - Bruce deGraaf
5/2 5 World's End, Hingham - Greg Dysart & Howard Hoople
5/3 2 GBH, Canton - Matt Arey
5/8 21 World's End, Hingham - Greg Dysart
5/11 222 World's End, Hingham - Bruce deGraaf & Greg Dysart
5/17 10 Sheffield - Matt Arey
6/9 1 MBWMA, Newbury - Sharon Stichter
6/16 1 Crane WMA, Falmouth - Joe Dwelly
7/26 70 World's End, Hingham - Greg Dysart
7/29 1 Oak Bluffs - Matt Pelikan
8/5 12 World's End, Hingham - Garry Kessler

Hessel's Hairstreak

5/18 3 Ponkopaug Bog, Canton - Garry Kessler
6/2 7 Ponkopaug Bog, Canton - Greg Dysart

White M Hairstreak

5/10 1 GBH, Canton - Matt Arey
5/17 2 Sheffield - Matt Arey
7/26 1 Barnstable NABA - Ian Ives, *et al.*
7/28 1 Tidmarsh Farms, Plymouth - Mark Faherty
7/29 1 Foxborough - Madeline Champagne
8/4 1 Foxborough - Brian Cassie
8/14 1 Breakneck Hill Conservation Land, Southborough - Dawn Puliafico
8/15 1 Upton - Brian Cassie
8/17 10 Nasketucket Bay Reserve, Mattapoisett - Matt Arey
8/21 1 Ponkopaug Bog, Canton - Brian Cassie
8/23 1 Lake Wampanoag WS, Gardner - MBC Trip
8/23 1 PRNWR Hq, NP - Matt Arey
8/23 1 Easton - Brian Cassie
8/24 1 Foxborough - Brian Cassie
8/30 1 Rowley - Rosemary Mosco
9/20 1 Nasketucket Bay Reserve, Mattapoisett - Joe Dwelly

Gray Hairstreak

4/25 1 Stoneham - Renee LaFontaine
4/28 1 HPM, Woburn - Greg Dysart
5/3 1 Correllus State Forest, West Tisbury - Matt Pelikan
5/3 2 Myles Standish State For. Carver - Matt Arey
5/5 1 Sherborn PL - Dawn Puliafico
5/10 5 GBH, Canton - Matt Arey
5/11 1 Florence - Tom Gagnon
5/27 1 Lamson Rd, Foxborough - Madeline Champagne
5/30 2 Holliston - Richard Hildreth
6/7 1 Weir Hill Res, N Andover - MBC Trip
6/6 1 Edgartown - Matt Pelikan
7/12 13 Blackstone Valley NABA - Tom Dodd, *et al.*
7/19 7 Falmouth NABA - Alison Robb, *et al.*
7/22 10 Borden Colony, Raynham - Joe Dwelly
7/25 4 Correllus State Forest, West Tisbury - Matt Pelikan
7/31 1 Wellfleet - Cathy & Tom Dodd
8/17 1 E Longmeadow - Karen Parker
8/23 2 Plum Bush, Newbury - Matt Arey
9/2 3 Borden Colony, Raynham - Joe Dwelly
9/10 1 Waseeka Wildlife Sanc., Hopkinton - Dawn Puliafico
9/17 1 Moore SP, Paxton - Elise & Karl Barry
9/20 1 Sedge Meadow, Wayland - Matt Arey
10/5 1 Myles Standish State For. Carver - Matt Arey
10/12 1 NP - Bo Zarembo
10/18 1 Nasketucket Bay Reserve, Mattapoisett - Mark Lynch & Sheila Carroll

Red-banded Hairstreak

8/19 1 Foxborough - Madeline Champagne
9/6 1 Somerset - Don Gagnon
9/6 1 AP Allens Neck, Dartmouth - Lauren Miller-Donnelly
9/20 1 Sedge Meadow, Wayland - Matt Arey
9/20 1 Nasketucket Bay Reserve, Mattapoisett - Joe Dwelly

Early Hairstreak

5/30 4 North Adams, Mt. Greylock State Res. - Terri Armata

6/2 15 North Adams, Mt. Greylock State Res. - Tom Gagnon, Harvey Allen, & Betsy Higgins

6/7 2 Lanesborough - Greg Dysart

Eastern Tailed-Blue

4/20 1 Royalston - Carl & Alyce Kamp
5/3 3 Myles Standish State For. Carver - Matt Arey
5/3 2 Correllus State Forest, West Tisbury - Matt Pelikan
5/5 1 Westfield - Tom Gagnon
5/6 1 Weir Hill Res, N Andover - Russ Hopping
5/12 10 World's End, Hingham - Howard Hoople
5/17 43 Sherborn PL - Lesley Stillwell & Bob Bowker
5/17 5 Sheffield - Matt Arey
5/18 50 Correllus State Forest, West Tisbury - Matt Pelikan
5/21 15 Norfolk, Miller Street field - Madeline Champagne
5/29 1 Florence - Tom Gagnon
6/2 7 Borden Colony, Raynham - Joe Dwelly
6/2 1 Hawley - Mark Lynch & Sheila Carroll
6/14 1 Breakneck Hill Conservation Land, Southborough - Dawn Puliafico
6/17 1 Moore SP, Paxton - Karl & Elise Barry
7/1 2 CST, Westborough - Steve Moore, R & S Cloutier
7/6 3 Edgartown - Matt Pelikan
7/12 299 Blackstone Valley NABA - Tom Dodd, *et al.*
7/17 3 Norfolk, Miller Street field - Madeline Champagne
7/17 6 Lancaster, Eagle Ridge CA - Ruth Anderson
7/25 3 Correllus State Forest, West Tisbury - Matt Pelikan
7/28 1 Tidmarsh Farms, Plymouth - Mark Faherty
8/3 1 Whately - Bill Benner
8/10 6 Lexington - Tom Whelan
8/12 10 Hubbardston, Mt. Jefferson Cons. Area - Wendy Howes, *et al.*
8/23 23 Lake Wampanoag WS, Gardner - MBC Trip
8/30 16 HPM, Woburn - Lorene Melvin
9/1 24 Princeton - Wendy Howes & Alan Rawle
9/1 4 Sunderland - Mark Fairbrother
9/6 23 AP Allens Neck, Dartmouth - Lauren Miller-Donnelly
9/9 3 Callahan SP, Framingham - Michael Newton
9/18 3 Appleton Farms, Ipswich - Howard Hoople
9/20 11 Nasketucket Bay Reserve, Mattapoisett - Joe Dwelly
9/24 2 Bolton Flats, Lancaster - Tom Murray
10/5 3 Groton - Tom Murray
10/12 3 Cumberland Farm Fields, Halifax - Wendy Howes & Alan Rawle
10/17 1 AP Allens Neck, Dartmouth - Lauren Miller-Donnelly
12/1 1 Peabody - Alex Grkovich

Spring Azure

4/12 2 Crane WMA, Falmouth - Lauren Griffith
4/14 3 Oxbow NWR, Harvard - Steve Moore & Barbara Volkle
4/19 2 E Longmeadow - Karen Parker
4/19 1 Tower Hill, Boylston - Dawn Puliafico
4/20 1 Sherborn PL - Dawn Puliafico
4/22 3 TTOR Bird Park, Walpole - Madeline Champagne
4/22 1 Stichter Yard, Newbury - Joe Stichter
4/22 3 Beebe Woods, Falmouth - Alison Robb
4/22 8 Tweedy & Barnes CA, Wareham - Lauren Griffith
4/24 17 Natick - Greg Dysart
4/25 2 Holliston - Richard Hildreth
4/28 34 Oxbow NWR, Harvard - Steve Moore & Barbara Volkle
5/2 30 World's End, Hingham - Greg Dysart & Howard Hoople
5/2 2 Holyoke - Bill Benner & Joe Wicinski
5/3 40 Correllus State Forest, West Tisbury - Matt Pelikan
5/7 5 Lamson Rd, Foxborough - Madeline Champagne
5/10 8 Holliston - Richard Hildreth
5/11 6 Dauphinis Park, Grafton - Dolores Price & Marvin St. Onge
5/11 29 Otter River SF, Winchendon - Mark Lynch & Sheila Carroll
5/11 300 World's End, Hingham - Bruce deGraaf & Greg Dysart
5/11 40 Great Meadows, Lexington - Dawn Puliafico
5/12 3 Quabbin Res, New Salem - Ron & Sue Cloutier
5/13 1 Bart's Cobble, Sheffield - Julie Richburg
5/17 11 Sherborn PL - Lesley Stillwell & Bob Bowker

5/18 6 Correllus State Forest, West Tusbury - Matt Pelikan
 5/18 41 Myles Standish State For. Carver - MBC trip
 5/20 5 Williamsburg - Carol Duke
 5/22 22 Marston Mills Airport - Joe Dwelley
 5/25 2 Beartown SF, Great Barrington - Mark Lynch & Sheila Carroll
 5/29 6 Crane WMA, Falmouth - Joe Dwelley
 5/30 2 North Adams, Mt. Greylock State Res. - Terri Armata
 5/30 5 W Bridgewater - Don Adams
 5/31 3 Norfolk, Miller Street field - Madeline Champagne
 6/1 2 Holliston - Richard Hildreth
 6/2 1 Hawley - Mark Lynch & Sheila Carroll
 6/7 3 Dennis-Greenough Ponds, Yarmouth - Joe Dwelley
 6/8 1 E Longmeadow - Karen Parker
 6/15 2 HPM, Woburn - Fred Bouchard
 6/28 2 N Worcester NABA - Carl Kamp, *et al.*

***Cherry Gall* Spring Azure**

5/10 2 GBH, Canton - Matt Arey
 5/17 3 Delaney WMA, Stow - MBC trip
 5/17 1 Groton - Tom Murray
 5/18 12 Katama, Edgartown - Matt Pelikan
 5/18 25 Correllus State Forest, West Tusbury - Matt Pelikan
 5/25 3 North Adams, Mt. Greylock State Res. - MBC trip
 5/25 1 Moran WMA, Windsor - MBC trip
 6/6 12 Marston Mills Airport - Matt Pelikan

***Summer* Spring Azure**

6/1 1 Delaney WMA, Stow - Garry & Anne Kessler
 6/14 5 MBWMA, Newbury - Matt Arey
 6/15 2 E Longmeadow - Karen Parker
 6/21 2 BMB WS, Worcester - Joan Hill
 6/28 2 Williamsburg - Carol Duke
 6/29 4 GBH, Canton - MBC trip
 7/1 2 Norfolk, Miller Street field - Madeline Champagne
 7/5 28 Old Town Hill, Newbury - Erik Nielsen
 7/6 12 MHF, Sharon - Brian Sullivan
 7/8 4 Borden Colony, Raynham - Joe Dwelley
 7/12 10 Ashburnham - Nicholas Block
 7/13 4 WMWS, Princeton - Fred Bouchard
 7/13 1 Clarksburg - Bo Zaremba
 7/14 7 Williamstown - Terri Armata
 7/19 1 Topsfield - Josh Rose
 7/20 28 Northampton NABA - Mark Fairbrother, *et al.*
 7/22 6 Moore SP, Paxton - Elise Barry
 8/3 4 Whately - Bill Benner
 8/17 10 Nasketucket Bay Reserve, Mattapoissett - Matt Arey
 8/20 1 EQLT Mandell Hill, Hardwick - Wendy Howes
 8/20 1 Hardwick, Mandell Hill EQLT - Wendy Howes
 8/24 1 Amherst - Greg Dysart
 8/31 1 E Longmeadow - Karen Parker
 9/13 1 AP Allens Neck, Dartmouth - Lauren Miller-Donnelly
 9/20 1 Nasketucket Bay Reserve, Mattapoissett - Joe Dwelley
 10/9 1 Nasketucket Bay Reserve, Mattapoissett - Joe Dwelley

Silvery Blue

5/17 5 Sheffield - Matt Arey
 5/19 8 Delaney WMA, Stow - Steve Moore
 5/29 3 Breakneck Hill Conservation Land, Southborough - Dawn Puliafico

6/1 30 Delaney WMA, Stow - Garry & Anne Kessler
 6/2 1 Moran WMA, Windsor - Gagnon, Allen, Higgins
 6/7 20 Charlemont - Matt Arey
 6/7 3 Montague - Mark Fairbrother
 6/8 2 Greylock Glen, Adams - Terri Armata
 6/8 6 Delaney WMA, Stow - Steve Moore

Variegated Frillitary

7/19 2 Plum Island Airport, NP - Matt Arey
 7/22 1 Borden Colony, Raynham - Joe Dwelley

Great Spangled Frillitary

6/14 1 MBWMA, Newbury - Matt Arey
 6/16 1 Northborough - Steve Moore
 6/21 1 Borden Colony, Raynham - Joe Dwelley
 6/23 10 Mt. Tom State Reservation, Easthampton - Bruce King
 6/27 16 MHF, Sharon - Madeline Champagne
 7/1 17 Williams Land, Harvard - Steve Moore & Ron Hamburger

7/1 11 Williamsburg - Carol Duke
 7/5 12 Mt. Tom State Reservation, Easthampton - Bruce King
 7/5 17 BMB WS, Worcester - Steve Moore
 7/5 12 MPRA, W Newbury - Erik Nielsen
 7/6 20 Williamsburg - Carol Duke
 7/8 5 Borden Colony, Raynham - Joe Dwelley
 7/10 3 Greylock Glen, Adams - Pam Weatherbee
 7/17 18 Lake Wampanoag WS, Gardner - MBC trip
 7/19 5 Muir Meadow, Paxton - Elise Barry
 7/20 30 Sheffield - Matt Arey
 7/26 5 MBWMA, Newbury - Bo Zaremba
 7/28 1 E Longmeadow - Karen Parker
 7/29 5 Phillipston - Wendy Howes
 8/2 3 Pelham - Josh Rose
 8/4 3 Breakneck Hill Conservation Land, Southborough - Dawn Puliafico
 8/10 5 Whately - Bill Benner
 8/17 12 Athol - Dave Small
 8/19 10 Hubbardston old landfill - Wendy Howes
 8/24 16 Buckland - Wendy Howes & Alan Rawle
 8/26 7 MMP, Williamstown - Bo Zaremba
 8/31 10 Sherborn PL - MBC Trip
 9/1 2 Holliston - Richard Hildreth
 9/4 11 Pelham - Wendy Howes & Elise Barry
 9/7 1 Groton - Tom Murray
 9/9 5 Callahan SP, Framingham - Michael Newton
 9/18 1 E Longmeadow - Karen Parker
 9/21 2 MBWMA, Newbury - Marjorie Watson
 9/27 1 Montague - Mark Fairbrother
 10/3 1 Northampton CG - Tom Gagnon
 10/5 1 Groton - Tom Murray

Aphrodite Frillitary

6/19 3 Holliston - Richard Hildreth
 6/28 15 N Worcester NABA - Carl Kamp, *et al.*
 7/5 2 Montague - Tom Gagnon & Betsy Higgins
 7/11 2 S Berkshire NABA - Rene Labauch, *et al.*
 7/19 1 Leicester - Dolores Price & Marvin St. Onge
 7/26 4 Williamsburg - Carol Duke
 8/9 1 Whately - Bill Benner
 8/18 1 E Longmeadow - Karen Parker
 8/28 4 Williamsburg - Carol Duke
 9/8 1 Hubbardston old landfill - Wendy Howes
 9/17 1 Ware - Wendy Howes, *et al.*

Atlantis Frillitary

6/27 6 Berkshire County - Tom Gagnon
 7/11 16 S Berkshire NABA - Rene Labauch, *et al.*
 7/21 14 Berkshire County - Tom Gagnon
 8/20 1 Windsor - Sue Cloutier

Silver-bordered Frillitary

5/17 10 Sheffield - Matt Arey
 5/17 1 Tully Dam, Royalston - Carl Kamp & Alyce Mayo
 5/30 1 Hardwick - Russ Hopping
 6/7 6 Morris Reservation, Newbury - Joe & Sharon Stichter
 6/7 1 Maudslay SP, NP - Bo Zaremba
 6/21 3 Tully Dam, Royalston - Josh Rose
 6/28 4 N Worcester NABA - Carl Kamp, *et al.*
 7/18 1 Breakneck Hill Conservation Land, Southborough - Dawn Puliafico

8/12 4 Hubbardston, Williamsville Road - Wendy Howes, *et al.*
 9/17 2 Ware - Wendy Howes, *et al.*
 9/27 9 Appleton Farms, Ipswich - Howard Hoople
 10/5 6 Appleton Farms, Ipswich - MBC trip

Meadow Frillitary

5/12 2 Williamstown - Pam Weatherbee
 5/17 10 Williamstown - Bo Zaremba
 5/18 1 Stafford Hill WMA, Cheshire - Terri Armata
 7/2 7 Bullit TTOR, Ashfield - MBC trip
 7/14 10 Williamstown - Terri Armata
 7/20 2 Sheffield - Matt Arey
 8/26 8 MMP, Williamstown - Bo Zaremba

Harris' Checkerspot

6/9 2 Weir Hill Res, N Andover - Howard Hoople
 6/22 2 BMB WS, Worcester - MBC Trip
 6/27 5 Berkshire County - Tom Gagnon

6/28 2 N Worcester NABA - Carl Kamp, *et al.*
7/4 1 MBWMA, Newbury - Matt Arey

Pearl Crescent

5/17 30 Tully Dam, Royalston - Carl Kamp & Alyce Mayo
5/17 15 Sheffield - Matt Arey
5/18 2 Middleton - Jim Berry
5/20 15 Williamsburg - Carol Duke
5/21 15 Norfolk, Miller Street field - Madeline Champagne
5/21 10 Dennis-Greenough Ponds, Yarmouth - Joe Dwelly
5/29 50 Crane WMA, Falmouth - Joe Dwelly
5/30 2 Hoft Farm, W Tisbury - Matt Pelikan
6/1 24 Warwick - Mark Lynch & Sheila Carroll
6/2 62 Moore SP, Paxton - Elise & Karl Barry
6/6 220 Crane WMA, Falmouth - Matt Pelikan
6/7 15 Charlemont - Matt Arey
6/7 30 Rough Meadows WS, Rowley - Joe & Sharon Stichter
6/8 1 Leicester - Mark Rowden
6/9 18 MBWMA, Newbury - Sharon Stichter
6/14 8 W Bridgewater - Don Adams
6/17 57 Moore SP, Paxton - Karl & Elise Barry
7/20 285 Northampton NABA - Mark Fairbrother, *et al.*
7/20 15 Sheffield - Matt Arey
7/26 206 Barnstable NABA - Ian Ives, *et al.*
7/30 350 Maudslay SP, NP - Bo Zarembo
7/31 30 Williamsburg - Carol Duke
8/1 52 LPWS, Barnstable - Joe Dwelly
8/3 24 Bernardston - Wendy Howes
8/3 27 MBWMA, Newbury - Joe & Sharon Stichter
8/8 10 Whately - Bill Benner
8/10 45 Nasketucket Bay Reserve, Mattapoisett - MBC Trip
8/16 25 W Newbury - Bo Zarembo
8/17 8 Athol - Dave Small
8/18 10 Hubbardston, Mt. Jefferson Cons. Area - Wendy Howes
8/18 12 Williamsburg - Carol Duke
8/23 22 High Ridge WMA, Gardner - MBC Trip
8/26 30 MMP, Williamstown - Bo Zarembo
8/31 7 Sherborn PL - MBC Trip
9/1 34 Princeton - Wendy Howes & Alan Rawle
9/2 19 Borden Colony, Raynham - Joe Dwelly
9/6 20 AP Allens Neck, Dartmouth - Lauren Miller-Donnelly
9/12 2 Whately - Bill Benner
9/14 6 Wayland CG - MBC Trip
9/17 12 Moore SP, Paxton - Elise & Karl Barry
9/26 1 Newbury - Bo Zarembo
9/28 2 West Whately - Bill Benner
10/5 1 Amherst - Josh Rose
10/12 2 Cumberland Farm Fields, Halifax - Wendy Howes & Alan Rawle
10/18 1 Nasketucket Bay Reserve, Mattapoisett - Mark Lynch & Sheila Carroll

Baltimore Checkerspot

6/8 1 Marston Mills Airport - Joe Dwelly
6/11 1 MPRA, W Newbury - Joe & Sharon Stichter
6/26 1 Marblehead - Karen Haley
6/27 12 Williams Land, Harvard - Steve Moore
6/27 2 MHF, Sharon - Madeline Champagne
6/29 50 DWWS, Marshfield - Walt Webb
7/1 47 Williams Land, Harvard - Steve Moore & Ron Hamburger
7/2 7 Bullit TTOR, Ashfield - MBC trip
7/5 40 N Essex NABA - Howard Hoople, *et al.*
7/5 39 C Franklin NABA - Mark Fairbrother, *et al.*
7/7 7 Norfolk, Miller Street field - Madeline Champagne
7/7 4 W Newbury - Bo Zarembo
7/11 55 S Berkshire NABA - Rene Labauch, *et al.*
7/12 100 Wendmuth Meadow, N. Brookfield - Wendy Howes & Allan Rawle
7/14 3 Williamstown - Terri Armata
7/18 4 E Longmeadow - Karen Parker
7/19 34 C Berkshire NABA - Tom Tynning, *et al.*
7/19 2 Falmouth NABA - Alison Robb, *et al.*
7/20 32 Northampton NABA - Mark Fairbrother, *et al.*
10/17 1 AP, Dartmouth - Lauren Miller-Donnelly

Question Mark

4/20 2 Northfield - Wendy Howes
5/10 1 GBH, Canton - Matt Arey
5/17 2 Sheffield - Matt Arey
6/14 1 Breakneck Hill Conservation Land, Southborough - Dawn Puliafico
6/26 1 Wachusets Res, Boylston - Wendy Miller
7/13 1 WMWS, Princeton - Fred Bouchard
7/20 3 Sheffield - Matt Arey
7/22 1 Holliston - Richard Hildreth
7/26 1 Wellfleet Bay Ws, Wellfleet - Joe Dwelly
8/17 2 Nasketucket Bay Reserve, Mattapoisett - Matt Arey
9/23 1 Holliston - Richard Hildreth
10/30 1 AP Allens Neck, Dartmouth - Lauren Miller-Donnelly

Eastern Comma

4/1 1 Medfield - Walt Webb
4/6 1 Tower Hill, Boylston - Dawn Puliafico
4/10 5 Ward Res, Andover - Howard Hoople
4/12 19 Mt. Tom State Reservation, Holyoke - MBC trip - Tom Gagnon
4/21 1 Holliston - Richard Hildreth
5/7 12 Oxbow NWR, Harvard - Wendy Miller
5/14 1 Holliston - Richard Hildreth
5/31 1 Norfolk, Miller Street field - Madeline Champagne
6/1 1 Oxbow NWR, Harvard - Ron Hamburger
6/30 4 MBWMA, Newbury - Joe & Sharon Stichter
7/1 1 Williamsburg - Carol Duke
7/4 10 MBWMA, Newbury - Matt Arey
7/5 32 C Franklin NABA - Mark Fairbrother, *et al.*
7/6 3 E Longmeadow - Karen Parker
7/10 8 EQLT Mandell Hill, Hardwick - Wendy Howes
7/10 8 Hardwick, Mandell Hill EQLT - Wendy Howes
7/10 2 Greylock Glen, Adams - Pam Weatherbee
7/20 10 Sheffield - Matt Arey
7/21 1 CST, Northborough - Steve Moore
8/2 1 Amherst - Josh Rose
8/5 1 World's End, Hingham - Garry Kessler
8/16 4 FS WMA, Longmeadow - MBC Trip
9/14 1 E Longmeadow - Karen Parker
10/3 2 Bolton Flats, Lancaster - Tom Murray
10/12 1 Holliston - Richard Hildreth

Gray Comma

5/25 2 Moran WMA, Windsor - MBC trip
5/30 1 North Adams, Mt. Greylock State Res. - Terri Armata
6/2 1 North Adams, Mt. Greylock State Res. - Tom Gagnon, Harvey Allen, & Betsy Higgins
7/4 1 MBWMA, Newbury - Matt Arey
7/5 1 Pike's Bridge Rd, W Newbury - Erik Nielsen
7/5 2 C Franklin NABA - Mark Fairbrother, *et al.*
7/11 2 S Berkshire NABA - Rene Labauch, *et al.*
7/18 1 Whately - Bill Benner
7/20 2 Sheffield - Matt Arey
7/21 3 Berkshire County - Tom Gagnon
10/9 1 Berkshire County - Tom Gagnon & Harvey Allen

Compton Tortoiseshell

10/8 1 W Bridgewater - Don Adams

Mourning Cloak

3/15 1 Upton - Tom & Kathy Dodd
4/1 4 Stoneham - Renee LaFontaine
4/1 1 Ashland - Dawn Puliafico
4/1 2 Ward Res, Andover - Howard Hoople
4/1 3 Mt. Tom State Reservation, Holyoke - Tom Gagnon & Betsy Higgins
4/3 3 Williamsburg - Tom Gagnon
4/3 3 BMB WS, Worcester - Martha Gach
4/4 2 Tisbury - Matt Pelikan
4/6 1 Chicopee - Moe O'Connor
4/6 1 N Andover - Jim Berry
4/6 6 Rutland Prison Camps - Wendy Howes & Alan Rawle
4/9 1 Oxbow NWR, Harvard - Steve Moore & Barbara Volkle
4/10 4 Cedar Hill, Northborough - Steve Moore
4/12 2 E Longmeadow - Karen Parker
4/12 1 Williamstown - Pam Weatherbee

4/12 26 Mt. Tom State Reservation, Holyoke - MBC trip - Tom Gagnon
 4/12 8 Petersham - Mark Lynch
 4/13 1 Leicester - Mark Rowden
 4/14 4 Maynard - Wendy Miller
 4/14 2 Breakneck Hill Conservation Land, Southborough - Dawn Puliafico
 4/20 1 Royalston - Carl & Alyce Kamp
 4/22 5 Tweedy & Barnes CA, Wareham - Lauren Griffith
 4/28 2 Montague Plains - Ron & Sue Cloutier
 4/28 11 Oxbow NWR, Harvard - Steve Moore & Barbara Volkle
 5/3 3 GBH, Canton - Matt Arey
 5/6 1 Weir Hill Res, N Andover - Russ Hopping
 5/10 1 Whately - Bill Benner & Joe Wicinski
 5/12 4 MBWMA, Newbury - Joe Stichter
 5/17 2 E Longmeadow - Karen Parker
 5/25 6 Moran WMA, Windsor - MBC trip
 5/25 2 Beartown SF, Great Barrington - Mark Lynch & Sheila Carroll
 6/1 1 Ipswich - Jim Berry
 6/7 1 Barry Yard, Paxton - Elise Barry
 6/8 1 Greylock Glen, Adams - Terri Armata
 7/5 23 C Franklin NABA - Mark Fairbrother, *et al.*
 7/6 3 GBH, Canton - Erik Nielson
 7/7 1 Fitzgerald Lake, Florence - Tom Gagnon & Betsy Higgins
 7/11 23 S Berkshire NABA - Rene Labauch, *et al.*
 7/18 4 Whately - Tom Gagnon
 7/21 5 Berkshire County - Tom Gagnon
 7/26 1 Wellfleet Bay Ws, Wellfleet - Joe Dwelly
 8/6 1 E Longmeadow - Karen Parker
 9/18 1 Wrentham - Maureen Osolnik
 10/3 1 Northampton CG - Tom Gagnon
 10/17 1 Williamsburg - Carol Duke
 10/20 1 Holliston - Richard Hildreth

American Lady

4/20 2 North Oxford - Eleanor Solberg
 5/3 1 Myles Standish State For. Carver - Matt Arey
 5/10 1 Sherborn PL - Dawn Puliafico
 5/12 6 Stichter Yard, Newbury - Sharon Stichter
 5/17 10 Sheffield - Matt Arey
 5/25 3 NP - Bo Zaremba
 6/15 2 HPM, Woburn - Fred Bouchard
 6/24 1 Stichter Yard, Newbury - Sharon Stichter
 7/6 3 GBH, Canton - Erik Nielson
 7/12 5 Blackstone Valley NABA - Tom Dodd, *et al.*
 7/20 1 Northampton NABA - Mark Fairbrother, *et al.*
 7/28 2 Tidmarsh Farms, Plymouth - Mark Faherty
 8/3 2 Whately - Bill Benner
 8/18 1 Hubbardston, Mt. Jefferson Cons. Area - Wendy Howes
 8/24 3 Lancaster - Ruth Anderson
 8/28 12 Horseneck Beach, Westport - Michael Newton
 9/13 15 Sylvan Nursery, Dartmouth - Lauren Miller-Donnelly
 9/20 2 Nasketucket Bay Reserve, Mattapoisett - Joe Dwelly
 9/28 1 NAC, Concord - Bruce deGraaf
 10/3 5 Northampton CG - Tom Gagnon
 10/5 5 Gooseberry Neck, Westport - Brian Cassie
 10/17 10 Sylvan Nursery, Dartmouth - Lauren Miller-Donnelly
 10/20 1 NP - Bo Zaremba
 11/30 1 Falmouth - Steven Whitebread

Painted Lady

5/17 1 Sheffield - Matt Arey
 5/31 2 Holliston - Richard Hildreth
 6/6 1 Adams Farm, Walpole - Madeline Champagne
 6/14 2 MBWMA, Newbury - Matt Arey
 6/27 1 MHF, Sharon - Madeline Champagne
 7/19 1 Leicester - Dolores Price & Marvin St. Onge
 7/20 1 Leverett - Elise Barry, *et al.*
 8/17 2 Saffarewich Yard, Newbury - dorothy saffarewich
 8/19 1 Stichter Yard, Newbury - Sharon Stichter
 8/28 1 Florence - Tom Gagnon
 8/28 8 Horseneck Beach, Westport - Michael Newton
 9/13 15 Sylvan Nursery, Dartmouth - Lauren Miller-Donnelly
 9/17 5 Moore SP, Paxton - Elise & Karl Barry

9/18 1 Roslindale, Boston - Lucy Merrill-Hills
 9/27 2 Montague - Mark Fairbrother
 10/5 14 Gooseberry Neck, Westport - Brian Cassie
 10/8 1 Arlington - Lorene Melvin
 10/27 1 Oak Bluffs - Matt Pelikan
 10/30 2 AP Field Station, Dartmouth - Lauren Miller-Donnelly
 11/11 1 Nahant Thicket - Linda Pivacek

Red Admiral

6/7 1 Rough Meadows WS, Rowley - Joe & Sharon Stichter
 6/17 1 E Longmeadow - Karen Parker
 6/18 1 Hubbardston - Wendy Howes
 6/21 2 BMB WS, Worcester - Joan Hill
 6/26 1 Williamsburg - Carol Duke
 7/5 2 Old Town Hill, Newbury - Erik Nielsen
 7/6 2 GBH, Canton - Erik Nielson
 7/11 16 S Berkshire NABA - Rene Labauch, *et al.*
 7/12 8 Blackstone Valley NABA - Tom Dodd, *et al.*
 7/26 1 NP - Bo Zaremba
 8/5 1 Eastham - Peter Fenn
 8/6 2 Arlington - Lorene Melvin
 8/17 1 Arnold Arboretum, Boston - Bob Mayer
 8/19 15 Sylvan Nursery, Dartmouth - Lauren Miller-Donnelly
 8/25 1 Adams - Bo Zaremba
 8/30 12 Sylvan Nursery, Dartmouth - Brian Cassie
 9/13 17 Sylvan Nursery, Dartmouth - Lauren Miller-Donnelly
 10/3 1 Northampton CG - Tom Gagnon
 10/5 3 Myles Standish State For. Carver - Matt Arey
 10/6 1 NP - Bo Zaremba
 10/30 2 AP Allens Neck, Dartmouth - Lauren Miller-Donnelly
 11/4 1 Oak Bluffs - Matt Pelikan
 11/11 1 Foxborough - Claire & Dennis Naughton

Common Buckeye

7/11 1 S Berkshire NABA - Rene Labauch, *et al.*
 7/19 1 Plum Island Airport, NP - Matt Arey
 7/24 1 Helfand Community Gardens, Dartmouth - Lauren Miller-Donnelly
 8/23 1 Plum Bush, Newbury - Matt Arey
 8/27 1 Foxborough - Madeline Champagne
 8/28 2 Horseneck Beach, Westport - Michael Newton
 9/20 2 W Island, Fairhaven - Brian Cassie
 10/25 2 Hadley - Dave Small

Red-spotted Admiral

7/13 1 CST, Westborough - MBC trip
 8/17 2 Williamsburg - Carol Duke

White Admiral

6/8 1 E Longmeadow - Karen Parker
 6/9 1 MBWMA, Newbury - Sharon Stichter
 6/16 1 Crane WMA, Falmouth - Joe Dwelly
 6/24 1 Hubbardston - Wendy Howes
 7/5 1 Williamsburg - Carol Duke
 8/8 1 Whately - Bill Benner
 8/15 4 Holliston - Richard Hildreth
 8/24 1 Buckland - Wendy Howes & Alan Rawle

Red-spotted Purple

6/1 1 Weir Hill Res, N Andover - Howard Hoople
 6/5 1 Greenfield - Mark Fairbrother
 6/7 1 E Longmeadow - Karen Parker
 6/8 2 Dauphinias Park, Grafton - Dolores Price
 6/9 6 MBWMA, Newbury - Sharon Stichter
 6/14 1 Lancaster - Ruth Anderson
 6/19 2 Norcross Wildlife Sanctuary, Wales - Elise Barry, *et al.*
 6/21 1 MHF, Sharon - Madeline Champagne
 6/28 9 N Worcester NABA - Carl Kamp, *et al.*
 7/2 1 Harwich - Larry Barry
 7/6 1 GBH, Canton - Erik Nielson
 7/17 2 Lake Wampanoag WS, Gardner - MBC trip
 7/26 2 World's End, Hingham - Bruce deGraaf & Greg Dysart
 8/2 1 Hadley - Josh Rose
 8/10 1 E Longmeadow - Karen Parker
 8/17 3 W Bridgewater - Don Adams
 8/19 2 Ashland - Dawn Puliafico
 8/23 2 Lake Wampanoag WS, Gardner - MBC Trip
 8/24 2 Buckland - Wendy Howes & Alan Rawle
 8/27 3 Foxborough - Madeline Champagne

8/30 1 Northampton CG - MBC Trip
9/4 2 Holliston - Richard Hildreth
9/14 1 Rutland - Elise & Karl Barry
9/18 1 Sylvan Nursery, Dartmouth - Lauren Miller-Donnelly

Viceroxy

5/29 1 Breakneck Hill Conservation Land, Southborough - Dawn Puliatico
5/31 1 Norfolk, Miller Street field - Madeline Champagne
6/1 1 Delaney WMA, Stow - Garry & Anne Kessler
6/2 3 Borden Colony, Raynham - Joe Dwelly
6/6 1 E Longmeadow - Karen Parker
6/7 3 Charlemont - Matt Arey
6/9 6 MBWMA, Newbury - Sharon Stichter
6/14 10 MBWMA, Newbury - Matt Arey
6/16 1 Williamsburg - Carol Duke
6/16 3 MBWMA, Newbury - Joe & Sharon Stichter
6/17 1 Shrewsbury - Martha Gach et al
6/28 5 N Worcester NABA - Carl Kamp, *et al.*
7/1 1 Williamsburg - Carol Duke
7/5 1 BMB WS, Worcester - Steve Moore
7/12 6 Blackstone Valley NABA - Tom Dodd, *et al.*
7/20 14 Northampton NABA - Mark Fairbrother, *et al.*
7/28 6 Tidmarsh Farms, Plymouth - Mark Faherty
8/2 1 Hadley - Josh Rose
8/3 1 W Bridgewater - Don Adams
8/8 6 Hubbardston, Williamsville Road - Wendy Howes
8/14 2 Boston - Brian Cassie
8/18 5 Borden Colony, Raynham - Joe Dwelly
8/24 6 Burrage WMA, Halifax - Brian Cassie
8/26 1 MMP, Williamstown - Bo Zaremba
9/1 2 Crane WMA, Falmouth - Joe Dwelly
9/7 2 Rowley - Bo Zaremba
9/24 1 Bolton Flats, Lancaster - Tom Murray
9/28 1 MBWMA, Newbury - Matt Arey

Hackberry Emperor

7/11 4 Berkshire County - Tom Gagnon
7/20 4 Sheffield - Matt Arey
8/16 3 Forest Park, Springfield - MBC Trip
8/30 2 Forest Park, Springfield - Steve Moore

Tawny Emperor

7/11 1 S Berkshire NABA - Rene Labauch, *et al.*
7/12 3 Mount Holyoke, Hadley - Tom Gagnon
7/20 15 Sheffield - Matt Arey
7/20 9 Northampton NABA - Mark Fairbrother, *et al.*
7/22 13 Mount Holyoke, Hadley - Tom Gagnon
8/16 4 Forest Park, Springfield - MBC Trip
8/30 2 Forest Park, Springfield - Steve Moore

Northern Pearly-Eye

6/27 1 Oxbow NWR, Harvard - Garry Kessler
7/1 2 CST, Northborough - Steve Moore, R & S Cloutier
7/2 4 Rutland - Elise & Karl Barry
7/7 1 Fitzgerald Lake, Florence - Tom Gagnon & Betsy Higgins

7/11 4 S Berkshire NABA - Rene Labauch, *et al.*
7/14 5 Williamstown - Terri Armata
7/20 1 Sheffield - Matt Arey
7/26 1 Williamsburg - Carol Duke
8/10 1 Holliston - Richard Hildreth
8/26 2 MMP, Williamstown - Bo Zaremba
9/7 1 Royalston - Carl Kamp

Eyed Brown

6/28 1 N Worcester NABA - Carl Kamp, *et al.*
7/5 8 C Franklin NABA - Mark Fairbrother, *et al.*
7/5 1 CST, Northborough - Steve Moore
7/10 1 Greylock Glen, Adams - Pam Weatherbee
7/10 1 CST, Westborough - Steve Moore
7/11 9 S Berkshire NABA - Rene Labauch, *et al.*
7/12 6 Blackstone Valley NABA - Tom Dodd, *et al.*
7/19 2 C Berkshire NABA - Tom Tynning, *et al.*
7/20 4 Northampton NABA - Mark Fairbrother, *et al.*
7/21 1 CST, Westborough - Steve Moore
7/26 1 Sharon - Brian Cassie

Appalachian Brown

6/14 2 MBWMA, Newbury - Matt Arey

7/1 2 CST, Westborough - Steve Moore, R & S Cloutier
7/5 22 C Franklin NABA - Mark Fairbrother, *et al.*
7/5 5 Pike's Bridge Rd, W Newbury - Erik Nielsen
7/7 1 Norfolk, Miller Street field - Madeline Champagne
7/9 1 Hubbardston, Williamsville Road - Wendy Howes
7/11 22 S Berkshire NABA - Rene Labauch, *et al.*
7/19 11 C Berkshire NABA - Tom Tynning, *et al.*
7/20 26 Northampton NABA - Mark Fairbrother, *et al.*
7/21 15 CST, Westborough - Steve Moore
8/3 7 Bernardston - Wendy Howes
8/16 3 FS WMA, Longmeadow - MBC Trip
8/24 1 Norfolk - Keith Shaw
8/31 5 Fowl Meadows, Milton - Brian Cassie

Little Wood-Satyr

5/26 28 Breakneck Hill Conservation Land, Southborough - Dawn Puliatico

5/29 10 Tower Hill, Boylston - Wendy Miller
5/29 12 Breakneck Hill Conservation Land, Southborough - Dawn Puliatico

5/30 25 Hoft Farm, W Tisbury - Matt Pelikan

6/1 2 Newbury - Bo Zaremba
6/1 24 Lamson Rd, Foxborough - Madeline Champagne
6/3 41 Tower Hill, Boylston - Wendy Miller
6/3 26 Breakneck Hill Conservation Land, Southborough - Dawn Puliatico

6/3 27 Nasketucket Bay Reserve, Mattapoisett - Joe Dwelly
6/7 83 Lamson Rd, Foxborough - Madeline Champagne

6/8 30 HPM, Woburn - Howard Hoople
6/9 13 MBWMA, Newbury - Sharon Stichter
6/14 1 Manchester - Jim Berry
6/16 24 Crane WMA, Falmouth - Joe Dwelly
6/17 1 E Longmeadow - Karen Parker
6/19 7 Norcross Wildlife Sanctuary, Wales - Elise Barry, *et al.*

6/28 1 MBWMA, Newbury - Joe Stichter
6/29 4 Williamsburg - Carol Duke
6/30 2 MPRA, W Newbury - Joe & Sharon Stichter
7/1 3 CST, Westborough - Steve Moore, R & S Cloutier
7/1 20 Williamsburg - Carol Duke

7/5 5 CST, Westborough - Steve Moore
7/5 6 CST, Northborough - Steve Moore
7/5 60 Old Town Hill, Newbury - Erik Nielsen
7/6 25 Williamsburg - Carol Duke

7/7 12 Norfolk, Miller Street field - Madeline Champagne
7/8 1 Leicester - Mark Rowden

7/12 11 Truro NABA - Alison Robb, *et al.*
7/12 8 Norfolk, Miller Street field - Madeline Champagne
7/12 25 Concord NABA - Richard Walton, *et al.*
7/12 24 Wendmuth Meadow, N. Brookfield - Wendy Howes & Allan Hawle

7/12 135 Blackstone Valley NABA - Tom Dodd, *et al.*
7/17 3 Norfolk, Miller Street field - Madeline Champagne
7/20 41 Northampton NABA - Mark Fairbrother, *et al.*

7/21 4 E Longmeadow - Karen Parker
7/22 4 Moore SP, Paxton - Elise Barry
7/26 8 Williamsburg - Carol Duke
7/26 4 Wellfleet Bay Ws, Wellfleet - Joe Dwelly
7/29 1 Holliston - Richard Hildreth
7/31 2 Williamsburg - Carol Duke
8/3 8 MBWMA, Newbury - Joe & Sharon Stichter
8/9 1 Whately - Bill Benner
8/10 1 Nasketucket Bay Reserve, Mattapoisett - MBC Trip

Common Ringlet

5/17 5 Sheffield - Matt Arey
5/17 6 Tully Dam, Royalston - Carl Kamp & Alyce Mayo
5/17 2 Sherborn PL - Lesley Stillwell & Bob Bowker
5/22 6 Marston Mills Airport - Joe Dwelly
5/25 2 Williamsburg - Carol Duke
5/29 10 Florence - Tom Gagnon
5/29 26 Breakneck Hill Conservation Land, Southborough - Dawn Puliatico

6/2 100 Maudslay SP, NP - Bo Zaremba
6/2 24 Hadley - Janis LaPointe
6/7 10 Montague - Mark Fairbrother
6/7 250 Maudslay SP, NP - Bo Zaremba
6/7 6 Lamson Rd, Foxborough - Madeline Champagne

6/8 40 Marston Mills Airport - Joe Dwelly
 6/8 125 Sheeps Hill, Williamstown - Terri Armata
 6/17 135 Moore SP, Paxton - Karl & Elise Barry
 6/19 45 Norcross Wildlife Sanctuary, Wales - Elise Barry, *et al.*
 7/2 10 Bullit TTOR, Ashfield - MBC trip
 7/10 3 Greylock Glen, Adams - Pam Weatherbee
 8/3 13 Bernardston - Wendy Howes
 8/17 23 Phillipston - Wendy Howes
 8/19 184 Hubbardston old landfill - Wendy Howes
 8/23 124 Lake Wampanoag WS, Gardner - MBC Trip
 8/27 1 E Longmeadow - Karen Parker
 8/30 3 Rough Meadows WS, Rowley - Bo Zaremba
 9/1 40 Princeton - Wendy Howes & Alan Rawle
 9/17 4 Moore SP, Paxton - Elise & Karl Barry

Common Wood-Nymph

7/1 3 Williamsburg - Carol Duke
 7/7 18 Cherry Hill Res, W Newbury - Bo Zaremba
 7/8 14 Borden Colony, Raynham - Joe Dwelly
 7/10 5 Greylock Glen, Adams - Pam Weatherbee
 7/11 769 S Berkshire NABA - Rene Labauch, *et al.*
 7/12 381 Blackstone Valley NABA - Tom Dodd, *et al.*
 7/14 457 Williamstown - Terri Armata
 7/17 15 Norfolk, Miller Street field - Madeline Champagne
 7/19 554 C Berkshire NABA - Tom Tynning, *et al.*
 7/20 210 Northampton NABA - Mark Fairbrother, *et al.*
 7/26 100 World's End, Hingham - Bruce deGraaf & Greg Dysart

8/1 4 LPWS, Barnstable - Joe Dwelly
 8/3 8 Breakneck Hill Conservation Land, Southborough - Dawn Puliafico

8/9 1 Holliston - Richard Hildreth
 8/17 10 Phillipston - Wendy Howes
 8/23 61 Lake Wampanoag WS, Gardner - MBC Trip
 8/26 2 MMP, Williamstown - Bo Zaremba
 8/30 3 Lancaster, Eagle Ridge CA - Ruth Anderson
 9/1 2 Crane WMA, Falmouth - Joe Dwelly
 9/12 3 BFD, Hubbardston - Wendy Howes
 9/18 1 Appleton Farms, Ipswich - Howard Hoople

Monarch

6/15 1 CRP TTOR, Needham - Brian Sullivan
 6/25 1 Stony Brook Res, Norfolk - Michelle McMenamin
 6/27 1 Holliston - Richard Hildreth
 7/10 4 Greylock Glen, Adams - Pam Weatherbee
 7/13 3 WMWS, Princeton - Fred Bouchard
 7/14 2 Williamstown - Terri Armata
 7/26 10 Eastham - Joe Dwelly
 7/29 1 Marblehead - Karen Haley
 8/1 1 Amherst - Josh Rose
 8/3 3 Medway - Keith Shaw
 8/5 1 Walpole - Madeline Champagne
 8/17 1 Arlington - Lisa Wolfe
 8/19 6 Sylvan Nursery, Dartmouth - Lauren Miller-Donnelly
 8/20 1 Paxton - Elise Barry
 8/24 1 Hadley - Jeff Boettner
 8/28 30 Horseneck Beach, Westport - Michael Newton
 8/29 3 Whately - Bill Benner
 9/3 1 Hopkinton - Dawn Puliafico
 9/6 214 AP Allens Neck, Dartmouth - Lauren Miller-Donnelly
 9/7 2 Williamstown - Pam Weatherbee
 9/13 92 AP Allens Neck, Dartmouth - Lauren Miller-Donnelly
 9/18 15 Topsfield - Josh Rose
 9/18 15 Sylvan Nursery, Dartmouth - Lauren Miller-Donnelly
 9/18 1 Williamstown - Pam Weatherbee
 9/21 5 Williamsburg - Carol Duke
 9/22 4 Fenway Victory Gardens, Boston - Fred Bouchard
 9/23 5 Marblehead - Karen Haley
 9/24 2 Bolton Flats, Lancaster - Tom Murray
 9/28 10 NAC, Concord - Bruce deGraaf
 9/28 4 Williamstown - Pam Weatherbee
 10/5 40 Gooseberry Neck, Westport - Brian Cassie
 10/5 5 Appleton Farms, Ipswich - MBC trip
 10/8 16 Arlington - Lorene Melvin
 10/10 13 Allens Pond Wildlife Sanctuary, Dartmouth - Steve Moore & Barbara Volkie
 10/17 13 Sylvan Nursery, Dartmouth - Lauren Miller-Donnelly

10/18 18 Nasketucket Bay Reserve, Mattapoisett - Mark Lynch & Sheila Carroll
 10/27 6 Woods Hole - Matt Pelikan
 10/30 3 AP Allens Neck, Dartmouth - Lauren Miller-Donnelly
 11/11 1 Chatham - Sharon Riley
 11/11 1 Nahant - Linda Pivacek

Silver-spotted Skipper

5/25 1 Deerfield - Josh Rose
 5/29 1 Holliston - Richard Hildreth
 6/1 1 NP - Bo Zaremba
 6/3 1 Nasketucket Bay Reserve, Mattapoisett - Joe Dwelly
 6/7 1 Charlemont - Matt Arey
 6/15 3 Holliston - Richard Hildreth
 6/15 1 E Longmeadow - Karen Parker
 6/19 10 Norcross Wildlife Sanctuary, Wales - Elise Barry, *et al.*
 6/22 10 BMB WS, Worcester - MBC Trip
 6/28 50 N Worcester NABA - Carl Kamp, *et al.*
 6/28 5 Sandwich Old Game Farm - Joe Dwelly
 6/29 7 GBH, Canton - MBC trip
 7/1 2 Williamsburg - Carol Duke
 7/5 115 C Franklin NABA - Mark Fairbrother, *et al.*
 7/5 7 BMB WS, Worcester - Steve Moore
 7/6 2 Old County, W Tisbury - Matt Pelikan
 7/11 30 S Berkshire NABA - Rene Labauch, *et al.*
 7/12 63 Blackstone Valley NABA - Tom Dodd, *et al.*
 7/12 15 Truro NABA - Alison Robb, *et al.*
 7/12 29 Concord NABA - Richard Walton, *et al.*
 7/17 5 Lake Wampanoag WS, Gardner - MBC trip
 7/19 50 Leicester - Dolores Price & Marvin St. Onge
 7/19 45 C Berkshire NABA - Tom Tynning, *et al.*
 7/22 4 Borden Colony, Raynham - Joe Dwelly
 7/26 24 Wellfleet Bay Ws, Wellfleet - Joe Dwelly
 7/26 1 Oak Bluffs - Matt Pelikan
 7/28 14 Tidmarsh Farms, Plymouth - Mark Faherty
 7/31 7 Williamsburg - Carol Duke
 8/3 3 MBWMA, Newbury - Joe & Sharon Stichter
 8/3 5 Bernardston - Wendy Howes
 8/8 4 Whately - Bill Benner
 8/10 7 Rowley - Bo Zaremba
 8/10 4 Nasketucket Bay Reserve, Mattapoisett - MBC Trip
 8/17 3 Arnold Arboretum, Boston - Bob Mayer
 8/18 2 Williamsburg - Carol Duke
 8/18 1 Hubbardston, Mt. Jefferson Cons. Area - Wendy Howes
 8/26 1 MMP, Williamstown - Bo Zaremba
 9/2 1 Holliston - Richard Hildreth
 9/14 1 Ward Res, Andover - Elizabeth Crone, *et al.*
 10/3 1 Northampton CG - Tom Gagnon

Hoary Edge

6/21 1 BMB WS, Worcester - Joan Hill
 6/22 4 BMB WS, Worcester - MBC Trip
 7/5 3 BMB WS, Worcester - Steve Moore
 7/5 5 C Franklin NABA - Mark Fairbrother, *et al.*
 7/12 2 Blackstone Valley NABA - Tom Dodd, *et al.*
 7/20 4 Northampton NABA - Mark Fairbrother, *et al.*

Southern Cloudwings

6/8 4 Marston Mills Airport - Joe Dwelly
 6/15 2 Norfolk, Miller Street field - Madeline Champagne
 6/19 1 Norcross Wildlife Sanctuary, Wales - Elise Barry, *et al.*
 6/21 1 BMB WS, Worcester - Joan Hill
 6/29 8 GBH, Canton - MBC trip
 7/6 2 Old County, W Tisbury - Matt Pelikan
 7/6 6 GBH, Canton - Erik Nielson
 7/12 1 Blackstone Valley NABA - Tom Dodd, *et al.*

Northern Cloudwings

5/26 1 Breakneck Hill Conservation Land, Southborough - Dawn Puliafico
 5/27 1 Needham - Brian Sullivan
 6/4 1 Greenfield - Mark Fairbrother
 6/7 2 Weir Hill Res, N Andover - MBC Trip
 6/8 7 Sheeps Hill, Williamstown - Terri Armata
 6/16 4 MBWMA, Newbury - Joe & Sharon Stichter
 6/16 1 Crane WMA, Falmouth - Joe Dwelly
 6/21 3 BMB WS, Worcester - Joan Hill
 6/29 2 Tower Hill, Boylston - Fred Bouchard

- 7/5 2 Montague - Tom Gagnon & Betsy Higgins
 7/6 1 Edgartown - Matt Pelikan
 7/17 1 Lake Wampanoag WS, Gardner - MBC trip

Dreamy Duskywing

- 5/2 1 Holliston - Richard Hildreth
 5/10 1 Belchertown - Sue Cloutier
 5/11 3 Dauphinis Park, Grafton - Dolores Price & Martin St. Onge
 5/12 4 Quabbin Res, New Salem - Ron & Sue Cloutier
 5/17 5 Sheffield - Matt Arey
 5/31 3 Norfolk, Miller Street field - Madeline Champagne
 6/1 1 Warwick - Mark Lynch & Sheila Carroll
 6/6 2 MBWMA, Newbury - Joe & Sharon Stichter
 6/19 3 Norcross Wildlife Sanctuary, Wales - Elise Barry, *et al.*
 6/21 1 BMB WS, Worcester - Joan Hill

Sleepy Duskywing

- 5/3 15 Myles Standish State For. Carver - Matt Arey
 5/18 14 Correllus State Forest, West Tusbury - Matt Pelikan
 5/18 3 Myles Standish State For. Carver - MBC trip
 5/31 2 Correllus State Forest, West Tusbury - Matt Pelikan

Juvenal's Duskywing

- 4/22 1 W Tisbury - Liz Loucks
 5/3 20 Myles Standish State For. Carver - Matt Arey
 5/6 5 Sherborn PL - Dawn Puliafico
 5/6 4 Weir Hill Res, N Andover - Russ Hopping
 5/9 3 Montague Plains - Josh Rose
 5/10 15 GBH, Canton - Matt Arey
 5/11 5 HPM, Woburn - Dawn Puliafico
 5/11 12 Great Meadow, Arlington - Matt Pelikan
 5/12 4 Juniper Hill, Lexington - Steve Moore
 5/12 20 MBWMA, Newbury - Joe Stichter
 5/17 75 Montague Plains - Mark Fairbrother
 5/17 2 Mount Wachusets, Princeton - Elise Barry
 5/18 1 Stafford Hill WMA, Cheshire - Terri Armata
 5/21 2 Williamsburg - Carol Duke
 5/21 12 Dennis-Greenough Ponds, Yarmouth - Joe Dwelly
 5/24 7 Willowdale SF, Ipswich - Jim Berry
 5/25 14 Beartown SF, Great Barrington - Mark Lynch & Sheila Carroll

- 5/26 4 Dauphinis Park, Grafton - Dolores Price & Martin St. Onge

- 5/29 31 Montague Plains - Elise & Karl Barry
 5/30 1 Leicester - Mark Rowden
 5/30 1 Hoft Farm, W Tisbury - Matt Pelikan
 5/30 1 North Adams, Mt. Greylock State Res. - Terri Armata
 6/1 4 Lamson Rd, Foxborough - Madeline Champagne
 6/1 6 Holliston - Richard Hildreth
 6/1 6 NP - Bo Zaremba

- 6/2 4 North Adams, Mt. Greylock State Res. - Tom Gagnon, Harvey Allen, & Betsy Higgins

- 6/2 1 Hawley - Mark Lynch & Sheila Carroll
 6/3 8 Nasketucket Bay Reserve, Mattapoisset - Joe Dwelly
 6/6 2 MBWMA, Newbury - Joe & Sharon Stichter
 6/6 8 Thompson Fields, Harwich - Joe Dwelly
 6/7 8 Dennis-Greenough Ponds, Yarmouth - Joe Dwelly
 6/8 1 Greylock Glen, Adams - Terri Armata
 6/15 4 Sherborn PL - Dawn Puliafico
 6/16 1 Crane WMA, Falmouth - Joe Dwelly
 6/21 1 Borden Colony, Raynham - Joe Dwelly
 6/22 1 BMB WS, Worcester - MBC Trip
 6/28 2 N Worcester NABA - Carl Kamp, *et al.*

Horace's Duskywing

- 5/10 3 GBH, Canton - Matt Arey
 5/29 1 Dauphinis Park, Grafton - Steve Moore
 7/6 3 GBH, Canton - Erik Nielson
 7/12 5 Blackstone Valley NABA - Tom Dodd, *et al.*
 7/20 2 Leverett - Elise Barry, *et al.*
 7/22 13 Borden Colony, Raynham - Joe Dwelly
 7/28 1 Tidmarsh Farms, Plymouth - Mark Faherty
 8/5 1 Northampton CG - Tom Gagnon
 8/24 1 Muddy Brook, Ware - Brian Klassonson
 8/30 1 HPM, Woburn - Lorene Melvin
 8/30 3 Sylvan Nursery, Dartmouth - Brian Cassie
 9/9 3 Callahan SP, Framingham - Michael Newton

Wild Indigo Duskywing

- 5/10 5 GBH, Canton - Matt Arey
 5/11 1 Lamson Rd, Foxborough - Madeline Champagne
 5/12 4 MBWMA, Newbury - Joe Stichter
 5/17 17 Delaney WMA, Stow - MBC trip
 5/21 2 Dennis-Greenough Ponds, Yarmouth - Joe Dwelly
 5/29 9 Montague Plains - Elise & Karl Barry
 6/1 4 Lamson Rd, Foxborough - Madeline Champagne
 6/3 3 Nasketucket Bay Reserve, Mattapoisset - Joe Dwelly
 6/8 4 Delaney WMA, Stow - Steve Moore
 6/28 1 HPM, Woburn - MBC trip
 7/10 1 CST, Westborough - Steve Moore
 7/12 4 Concord NABA - Richard Walton, *et al.*
 7/12 6 Blackstone Valley NABA - Tom Dodd, *et al.*
 7/19 1 C Berkshire NABA - Tom Tynning, *et al.*
 7/29 20 Tower Hill, Boylston - Ruth Anderson
 8/3 2 Bernardston - Wendy Howes
 8/3 1 Whately - Bill Benner
 8/9 2 Northampton CG - Brian Cassie
 8/10 1 Nasketucket Bay Reserve, Mattapoisset - MBC Trip
 8/17 1 Lancaster - Ruth Anderson
 8/19 1 AP Allens Neck, Dartmouth - Lauren Miller-Donnelly
 8/31 1 Sherborn PL - MBC Trip
 9/9 4 Callahan SP, Framingham - Michael Newton

Common Checkered-Skipper

- 7/17 1 Lake Wampanoag WS, Gardner - MBC trip
 9/12 1 Whately - Bill Benner

Common Sootywing

- 5/26 1 Breakneck Hill Conservation Land, Southborough - Dawn Puliafico
 5/29 1 Dauphinis Park, Grafton - Steve Moore
 6/1 3 Delaney WMA, Stow - Garry & Anne Kessler
 6/8 2 Dauphinis Park, Grafton - Dolores Price
 7/12 7 Blackstone Valley NABA - Tom Dodd, *et al.*
 7/18 2 Breakneck Hill Conservation Land, Southborough - Dawn Puliafico
 7/20 150 Northampton NABA - Mark Fairbrother, *et al.*
 8/11 1 Alewife Brook Reservation, Arlington - Rosemary Mosco
 8/23 1 Drumlin Farm, Lincoln - Dawn Puliafico
 8/30 3 Northampton CG - MBC Trip
 9/20 2 Sedge Meadow, Wayland - Matt Arey

Arctic Skipper

- 6/2 2 Moran WMA, Windsor - Tom Gagnon, Harvey Allen, & Betsy Higgins
 6/7 2 Charlemont - Matt Arey
 6/7 2 Royalston - Carl Kamp & Alyce Mayo

Least Skipper

- 6/7 2 Morris Reservation, Newbury - Joe & Sharon Stichter
 6/15 2 LPWS, Barnstable - Joe Dwelly
 6/17 2 Holliston - Richard Hildreth
 6/27 3 Williams Land, Harvard - Steve Moore
 6/29 2 Allens Pond Wildlife Sanctuary, Dartmouth - Lauren Miller-Donnelly
 6/29 3 Tower Hill, Boylston - Fred Bouchard
 7/5 9 Montague - Wendy Howes & Alan Rawle
 7/12 5 CST, Westborough - Nicholas Block
 8/3 3 Bernardston - Wendy Howes
 8/18 4 Hubbardston, Mt. Jefferson Cons. Area - Wendy Howes
 8/23 10 Plum Bush, Newbury - Matt Arey
 9/13 8 AP Allens Neck, Dartmouth - Lauren Miller-Donnelly
 9/17 6 Borden Colony, Raynham - Joe Dwelly
 9/20 1 Appleton Farms, Ipswich - MBC trip

European Skipper

- 6/5 1 Breakneck Hill Conservation Land, Southborough - Dawn Puliafico
 6/11 2 MPRA, W Newbury - Joe & Sharon Stichter
 6/11 50 Southborough - Dawn Puliafico
 6/15 70 Breakneck Hill Conservation Land, Southborough - Dawn Puliafico
 6/19 48 Norcross Wildlife Sanctuary, Wales - Elise Barry, *et al.*
 6/21 12 Cass Meadows, Athol - Josh Rose
 6/22 160 Thompson Fields, Harwich - Joe Dwelly
 6/27 6 Williams Land, Harvard - Steve Moore

6/28 747 N Worcester NABA - Carl Kamp, *et al.*
6/28 15 Rowley - Bo Zaremba
6/29 4 Williamsburg - Carol Duke
6/29 54 GBH, Canton - MBC trip
7/2 120 Bullitt TTOR, Ashfield - MBC trip
7/5 78 N Essex NABA - Howard Hoople, *et al.*
7/14 9 Williamstown - Terri Armata
7/17 1 LPWS, Barnstable - Joe Dwelly
7/21 4 Berkshire County - Tom Gagnon

Fiery Skipper

7/20 1 Sheffield - Matt Arey
9/14 1 NAC, Concord - MBC Trip
9/23 1 Wayland - Greg Dysart

Leonard's Skipper

8/23 1 Royalston - Ron & Sue Cloutier
8/24 1 Muddy Brook, Ware - Brian Klasonson
8/29 5 BMB WS, Worcester - Steve Moore
8/31 3 Sherborn PL - MBC Trip
9/6 1 Hubbardston - Wendy Howes & Alan Rawle
9/18 3 Crane WMA, Falmouth - Joe Dwelly
9/20 2 Sedge Meadow, Wayland - Matt Arey

Cobweb Skipper

5/3 1 Myles Standish State For. Carver - Matt Arey
5/18 1 E Longmeadow - Karen Parker
5/24 1 Florence - Tom Gagnon
5/29 3 Montague Plains - Elise & Karl Barry
5/31 4 Correllus State Forest, West Tisbury - Matt Pelikan
6/8 1 E Longmeadow - Karen Parker

Indian Skipper

5/25 1 Florence - MBC trip
5/29 1 Dauphinais Park, Grafton - Steve Moore
5/29 92 Florence - Tom Gagnon
5/29 1 Montague Plains - Elise & Karl Barry
5/31 7 Tisbury Meadow - Matt Pelikan
6/7 6 Maudslay SP, NP - Bo Zaremba
6/14 10 MBWMA, Newbury - Matt Arey
6/19 1 Norcross Wildlife Sanctuary, Wales - Elise Barry, *et al.*

Peck's Skipper

5/17 1 Sheffield - Matt Arey
5/21 1 Southborough - Dawn Puliafico
5/29 1 Dauphinais Park, Grafton - Steve Moore
5/30 2 Hoft Farm, W Tisbury - Matt Pelikan
5/31 9 Tisbury Meadow - Matt Pelikan
6/1 2 NP - Bo Zaremba
6/1 16 Dodd Residence, Upton - Tom Dodd
6/2 5 Moore SP, Paxton - Elise & Karl Barry
6/3 4 Nasketucket Bay Reserve, Mattapoissett - Joe Dwelly
6/4 6 Greenfield - Mark Fairbrother
6/6 2 Crane WMA, Falmouth - Matt Pelikan
6/6 11 Stichter Yard, Newbury - Joe & Sharon Stichter
6/7 25 Maudslay SP, NP - Bo Zaremba
6/7 4 E Longmeadow - Karen Parker
6/8 34 Upton - Cathy & Tom Dodd
6/8 6 E Longmeadow - Karen Parker
6/17 21 Moore SP, Paxton - Karl & Elise Barry
6/19 23 Norcross Wildlife Sanctuary, Wales - Elise Barry, *et al.*
6/27 6 Stichter Yard, Newbury - Sharon Stichter
6/29 1 Tower Hill, Boylston - Fred Bouchard
7/14 2 Williamstown - Terri Armata
7/21 11 Berkshire County - Tom Gagnon
7/25 3 Correllus State Forest, West Tisbury - Matt Pelikan
7/30 4 E Longmeadow - Karen Parker
8/3 22 Bernardston - Wendy Howes
8/3 5 Belmont - Fred Bouchard
8/6 2 NP - Bo Zaremba
8/10 17 Nasketucket Bay Reserve, Mattapoissett - MBC Trip
8/14 1 Leicester - Mark Rowden
8/17 4 NP - Bo Zaremba
8/18 15 Lancaster, Eagle Ridge CA - Ruth Anderson
8/19 6 Saffarewich Yard, Newbury - dorothy saffarewich
8/23 6 High Ridge WMA, Gardner - MBC Trip
8/26 2 Blair Road, Williamstown - Bo Zaremba
8/29 4 E Longmeadow - Karen Parker
9/1 2 NAC, Concord - Tom Whelan

9/2 10 Borden Colony, Raynham - Joe Dwelly
9/6 6 AP Allens Neck, Dartmouth - Lauren Miller-Donnelly
9/12 11 BFD, Hubbardston - Wendy Howes
9/17 2 Moore SP, Paxton - Elise & Karl Barry
9/20 7 Appleton Farms, Ipswich - MBC trip
10/3 1 Bolton Flats, Lancaster - Tom Murray

Tawny-edged Skipper

5/30 1 Hoft Farm, W Tisbury - Matt Pelikan
6/1 1 E Longmeadow - Karen Parker
6/1 2 NP - Bo Zaremba
6/2 2 Moore SP, Paxton - Elise & Karl Barry
6/3 3 Nasketucket Bay Reserve, Mattapoissett - Joe Dwelly
6/7 2 Ward Res, Andover - MBC Trip
6/7 50 Maudslay SP, NP - Bo Zaremba
6/8 2 GITW, Framingham - Dawn Puliafico
6/16 1 MBWMA, Newbury - Joe & Sharon Stichter
6/19 6 Norcross Wildlife Sanctuary, Wales - Elise Barry, *et al.*
7/5 1 Old Town Hill, Newbury - Erik Nielsen
7/6 3 Edgartown - Matt Pelikan
7/12 9 Truro NABA - Alison Robb, *et al.*
7/14 5 Williamstown - Terri Armata
7/26 2 E Longmeadow - Karen Parker
8/2 2 E Longmeadow - Karen Parker
8/3 1 Whately - Bill Benner
8/3 8 Holliston - Richard Hildreth
8/5 1 Lancaster, Eagle Ridge CA - Ruth Anderson
8/9 10 Holliston - Richard Hildreth
8/16 1 W Newbury - Bo Zaremba
8/16 1 NCM, Petersham - Wendy Howes
8/19 2 Sylvan Nursery, Dartmouth - Lauren Miller-Donnelly
8/20 1 Polly Hill, W Tisbury - Ron Murdock
8/24 9 Buckland - Wendy Howes & Alan Rawle
9/1 1 Holliston - Richard Hildreth
9/1 1 Sunderland - Mark Fairbrother
9/6 1 AP Allens Neck, Dartmouth - Lauren Miller-Donnelly
9/14 1 Whately - Bill Benner

Crossline Skipper

6/29 3 GBH, Canton - MBC trip
7/5 3 C Franklin NABA - Mark Fairbrother, *et al.*
7/6 15 Edgartown - Matt Pelikan
7/11 3 S Berkshire NABA - Rene Labauch, *et al.*
7/11 1 E Longmeadow - Karen Parker
7/12 13 Blackstone Valley NABA - Tom Dodd, *et al.*
7/12 3 Truro NABA - Alison Robb, *et al.*
7/19 6 C Berkshire NABA - Tom Tynning, *et al.*
7/28 3 E Longmeadow - Karen Parker
8/10 3 Holliston - Richard Hildreth
8/31 1 Holliston - Richard Hildreth

Long Dash

6/7 3 Maudslay SP, NP - Bo Zaremba
6/7 6 Weir Hill Res, N Andover - MBC Trip
6/8 1 Marston Mills Airport - Joe Dwelly
6/16 10 MBWMA, Newbury - Joe & Sharon Stichter
6/19 27 Norcross Wildlife Sanctuary, Wales - Elise Barry, *et al.*
6/21 1 Tully Dam, Royalston - Josh Rose
6/22 6 Thompson Fields, Harwich - Joe Dwelly
6/28 8 N Worcester NABA - Carl Kamp, *et al.*
7/5 1 Montague - Tom Gagnon & Betsy Higgins
7/8 1 CST, Northborough - Elise Barry & Wendy Miller

Northern Broken-Dash

6/28 1 N Worcester NABA - Carl Kamp, *et al.*
7/1 2 Williamsburg - Carol Duke
7/5 1 HPM, Woburn - Garry Kessler
7/5 7 Old Town Hill, Newbury - Erik Nielsen
7/6 2 Edgartown - Matt Pelikan
7/12 45 Truro NABA - Alison Robb, *et al.*
7/12 1 Wendmeth Meadow, N. Brookfield - Wendy Howes & Allan Rawle
7/13 3 E Longmeadow - Karen Parker
7/14 15 Williamstown - Terri Armata
7/19 4 E Longmeadow - Karen Parker
7/19 43 C Berkshire NABA - Tom Tynning, *et al.*
7/20 31 Northampton NABA - Mark Fairbrother, *et al.*
7/21 1 Berkshire County - Tom Gagnon

7/26 35 Wellfleet Bay Ws, Wellfleet - Joe Dwelly
8/3 12 Whately - Bill Benner
8/4 6 Meetinghouse Farm, Barnstable - Joe Dwelly
8/10 9 Whately - Bill Benner
8/16 1 Holliston - Richard Hildreth
8/19 1 Sylvan Nursery, Dartmouth - Lauren Miller-Donnelly

Little Glassywing

6/28 14 N Worcester NABA - Carl Kamp, *et al.*
6/30 3 MPRA, W Newbury - Joe & Sharon Stichter
7/1 20 Williamsburg - Carol Duke
7/5 40 N Essex NABA - Howard Hoople, *et al.*
7/5 39 C Franklin NABA - Mark Fairbrother, *et al.*
7/6 6 MPRA, W Newbury - Bo Zaremba
7/12 53 Blackstone Valley NABA - Tom Dodd, *et al.*
7/14 3 Williamstown - Terri Armata
7/17 20 Lake Wampanoag WS, Gardner - MBC trip
7/19 15 C Berkshire NABA - Tom Tynning, *et al.*
7/21 2 CST, Northborough - Steve Moore
7/21 5 CST, Westborough - Steve Moore
7/30 2 Holliston - Richard Hildreth
8/3 5 Bernardston - Wendy Howes
8/18 1 Holliston - Richard Hildreth
8/18 2 Borden Colony, Raynham - Joe Dwelly

Sachem

5/31 1 Oak Bluffs - Matt Pelikan
7/22 4 Westport - Lauren Miller-Donnelly
7/26 1 Sharon - Brian Cassie
7/26 1 Eastham - Joe Dwelly
7/26 12 Oak Bluffs - Judy Holland
7/28 5 White Horse Beach, Plymouth - Mark Faherty
7/29 1 Wellfleet - Cathy & Tom Dodd
8/1 1 LPWS, Barnstable - Joe Dwelly
8/17 2 Nasketucket Bay Reserve, Mattapoisett - Matt Arey
8/28 150 Horseneck Beach, Westport - Michael Newton
8/28 23 Sylvan Nursery, Dartmouth - Michael Newton
9/13 5 AP Allens Neck, Dartmouth - Lauren Miller-Donnelly
9/18 30 Sylvan Nursery, Dartmouth - Lauren Miller-Donnelly
9/18 13 Crane WMA, Falmouth - Joe Dwelly
9/23 14 Nasketucket Bay Reserve, Mattapoisett - Matt Pelikan
9/28 1 PRNWR Hq, NP - Matt Arey
10/5 7 Oak Bluffs - Matt Pelikan
10/10 25 Allens Pond Wildlife Sanctuary, Dartmouth - Steve Moore & Barbara Volke
10/17 17 Sylvan Nursery, Dartmouth - Lauren Miller-Donnelly
10/27 5 Oak Bluffs - Matt Pelikan
10/30 5 AP Field Station, Dartmouth - Lauren Miller-Donnelly

Delaware Skipper

6/28 226 N Worcester NABA - Carl Kamp, *et al.*
7/4 5 MBWMA, Newbury - Matt Arey
7/5 16 C Franklin NABA - Mark Fairbrother, *et al.*
7/9 2 Hubbardston, Williamsville Road - Wendy Howes
7/17 5 Lake Wampanoag WS, Gardner - MBC trip
7/19 12 C Berkshire NABA - Tom Tynning, *et al.*
7/20 5 Sheffield - Matt Arey

Mulberry Wing

7/8 6 CST, Westborough - Elise Barry & Wendy Miller
7/11 6 S Berkshire NABA - Rene Labauch, *et al.*
7/12 2 Norfolk, Miller Street field - Madeline Champagne
7/12 41 Blackstone Valley NABA - Tom Dodd, *et al.*
7/13 13 CST, Westborough - MBC trip
7/19 10 Tower Hill, Boylston - Wendy Miller, *et al.*
7/19 6 Berkshire County - Tom Gagnon & Harvey Allen
7/20 22 Northampton NABA - Mark Fairbrother, *et al.*
7/21 14 CST, Westborough - Steve Moore
7/26 1 Sharon - Brian Cassie

Hobomok Skipper

5/26 1 Dauphinis Park, Grafton - Dolores Price & Martin St. Onge
5/29 1 Montague Plains - Elise & Karl Barry
5/29 1 Belchertown - Ron & Sue Cloutier
5/31 3 Breakneck Hill Conservation Land, Southborough - Dawn Puliafico
5/31 3 Holliston - Richard Hildreth
6/2 2 Williamsburg - Carol Duke

6/6 4 MBWMA, Newbury - Joe & Sharon Stichter
6/7 10 Charlemont - Matt Arey
6/7 5 Royalston - Carl Kamp & Alyce Mayo
6/8 1 Sheeps Hill, Williamstown - Terri Armata
6/9 1 MBWMA, Newbury - Sharon Stichter
6/17 5 Moore SP, Paxton - Karl & Elise Barry
6/22 12 BMB WS, Worcester - MBC Trip
7/1 3 E Longmeadow - Karen Parker
7/14 1 Williamstown - Terri Armata
7/19 3 C Berkshire NABA - Tom Tynning, *et al.*

Zabulon Skipper

5/15 1 Borden Colony, Raynham - Joe Dwelly
6/1 3 AP Quansett, Dartmouth - Wendy Miller & Elise Barry
6/3 5 Nasketucket Bay Reserve, Mattapoisett - Joe Dwelly
6/7 1 Champagne yard, Foxborough - Madeline Champagne
6/16 2 CST, Northborough - Steve Moore
6/25 1 Holliston - Richard Hildreth
6/30 1 E Longmeadow - Karen Parker
8/3 2 E Longmeadow - Karen Parker
8/10 1 Whately - Bill Benner
8/10 2 FS WMA, Longmeadow - Tom Gagnon
8/17 12 Nasketucket Bay Reserve, Mattapoisett - Matt Arey
8/19 1 White Horse Beach, Plymouth - Mark Faherty
8/23 2 Plum Bush, Newbury - Matt Arey
8/26 3 Champagne yard, Foxborough - Madeline Champagne
8/30 1 IRWS, Topsfield - Marjorie Felton
9/1 2 E Longmeadow - Karen Parker
9/2 3 Borden Colony, Raynham - Joe Dwelly
9/6 9 AP Allens Neck, Dartmouth - Lauren Miller-Donnelly
9/8 1 E Longmeadow - Karen Parker
9/14 1 Petersham, Rutland Brook Sanc. - Wendy Howes
9/14 1 Whately - Bill Benner
9/17 1 Champagne yard, Foxborough - Madeline Champagne
9/20 1 Sedge Meadow, Wayland - Matt Arey
9/26 1 Holliston - Richard Hildreth
10/10 1 Allens Pond Wildlife Sanctuary, Dartmouth - Steve Moore & Barbara Volke

Broad-winged Skipper

7/5 2 CST, Northborough - Steve Moore
7/11 23 Berkshire County - Tom Gagnon
7/12 1 Blackstone Valley NABA - Tom Dodd, *et al.*
7/19 1 C Berkshire NABA - Tom Tynning, *et al.*
7/19 3 SBSR - Matt Arey
7/20 2 Northampton NABA - Mark Fairbrother, *et al.*
7/21 15 CST, Northborough - Steve Moore
7/22 1 Reading - Ron Hamburger
7/26 15 Barnstable NABA - Ian Ives, *et al.*
7/29 1 E Longmeadow - Karen Parker
8/6 22 Arlington - Lorene Melvin
8/11 10 Alewife Brook Reservation, Arlington - Rosemary Mosco
8/23 5 Plum Bush, Newbury - Matt Arey
9/6 2 AP Field Station, Dartmouth - Lauren Miller-Donnelly

Dion Skipper

7/7 4 Fitzgerald Lake, Florence - Tom Gagnon & Betsy Higgins
7/19 4 C Berkshire NABA - Tom Tynning, *et al.*

Black Dash

7/5 2 Montague - Wendy Howes & Alan Rawle
7/12 10 Blackstone Valley NABA - Tom Dodd, *et al.*
7/12 10 Concord NABA - Richard Walton, *et al.*
7/17 1 Lake Wampanoag WS, Gardner - MBC trip
7/21 3 CST, Westborough - Steve Moore
7/31 1 E Longmeadow - Karen Parker

Two-spotted Skipper

7/19 1 Berkshire County - Tom Gagnon & Harvey Allen

Dun Skipper

6/28 1 N Worcester NABA - Carl Kamp, *et al.*
7/5 22 C Franklin NABA - Mark Fairbrother, *et al.*
7/5 2 MPRA, W Newbury - Erik Nielsen
7/6 17 Edgartown - Matt Pelikan
7/12 18 Blackstone Valley NABA - Tom Dodd, *et al.*
7/12 35 Truro NABA - Alison Robb, *et al.*
7/15 1 E Longmeadow - Karen Parker
7/17 13 Lake Wampanoag WS, Gardner - MBC trip

7/19 71 C Berkshire NABA - Tom Tynning, *et al.*
 7/20 30 Sheffield - Matt Arey
 7/29 7 Oak Bluffs - Matt Pelikan
 7/30 21 Maudslay SP, NP - Bo Zaremba
 8/8 2 Paxton - Elise Barry
 8/10 1 Whately - Bill Benner
 8/23 3 Lake Wampanoag WS, Gardner - MBC Trip
 8/24 1 Buckland - Wendy Howes & Alan Rawle
 9/13 1 Sylvan Nursery, Dartmouth - Lauren Miller-Donnelly

Dusted Skipper
 5/21 2 Lamson Rd, Foxborough - Madeline Champagne
 5/24 5 Florence - Tom Gagnon
 5/27 7 Lamson Rd, Foxborough - Madeline Champagne
 5/29 4 Florence - Tom Gagnon
 5/29 1 Crane WMA, Falmouth - Joe Dwelly
 5/29 1 Belchertown - Ron & Sue Cloutier
 5/31 3 Correllus State Forest, West Tusbury - Matt Pelikan
 6/6 6 Crane WMA, Falmouth - Matt Pelikan
 6/7 44 Lamson Rd, Foxborough - Madeline Champagne
 6/8 2 Dauphinis Park, Grafton - Dolores Price

6/22 1 Thompson Fields, Harwich - Joe Dwelly
 6/22 1 BMB WS, Worcester - MBC Trip

Pepper and Salt Skipper
 5/17 3 Sheffield - Matt Arey
 5/26 1 Dauphinis Park, Grafton - Dolores Price & Martin St. Onge
 5/26 1 Shrewsbury - Bruce deGraaf
 5/29 1 Pelham - Ron & Sue Cloutier
 6/1 8 Oxbow NWR, Harvard - Ron Hamburger
 6/2 1 North Adams, Mt. Greylock State Res. - Tom Gagnon, Harvey Allen, & Betsy Higgins
 6/7 5 Charlemont - Matt Arey
 6/7 1 Barry Yard, Paxton - Elise Barry
 6/22 1 BMB WS, Worcester - MBC Trip

Ocola Skipper
 8/30 1 Northampton CG - MBC Trip
 9/5 1 Westwood - Seth Sweet
 9/5 1 Hubbardston - Wendy Howes
 9/14 1 NAC, Concord - MBC Trip



One-eyed Sphinx (*Smerinthus cerisyi*), 7/31/14, Great Barrington, MA, Dylan Cleary



Polyphemus (*Antheraea polyphemus*), 6/7/14, Whately, MA, Bill Benner



Cecropia (*Hyalophora cecropia*), 6/14/14, Whately, MA, Bill Benner

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Monetary and in-kind contributions include donating money; donating goods to be sold, auctioned, or used for the club's benefit; donating the cost of a good or service; other donations.

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Submission of Articles, Illustrations, and Season Records

We encourage all members to contribute to *Massachusetts Butterflies*. Articles, illustrations, photographs, butterfly field trip reports, garden reports, and book reviews are all welcome, and should be sent to the Editor by August 31 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 Mark Fairbrother mark@massbutterflies.org by **December 31** (or earlier if possible!) for inclusion in the Spring issue. Records may now be submitted via the online checklist and reporting form, which is available for download from our website at: <http://www.massbutterflies.org/club-publications.asp>

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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 (in excess of dues) to the Massachusetts Butterfly Club are gifts to NABA, and are fully tax deductible.

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Pearl Crescent (*Phyciodes tharos*), 8/26/14,
Shrewsbury, MA, Bruce deGraaf



Barbara J. Spencer
May 4, 1930 - September 19, 2014