

Massachusetts Butterflies



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CONTENTS

2 Massachusetts Rarities

Bill Benner

20 Butterfly “Highs” through an Artist’s Eye:
Observations on Raising Two Gregarious Species

Nan Wilson

29 2009 Season Summary and Records

Erik Nielsen

*Cover Photo: Silver-spotted Skipper (Epargyreus clarus), by Frank Model
Northampton Community Gardens, September 23, 2005*

Massachusetts Rarities

Bill Benner

One of the most exciting parts of butterflying for many of us is finding an unusual butterfly, whether it be something that we haven't seen before, or something that we see only rarely. There are some species that we eagerly scout for every year. Knowing that they are unlikely on any given day seems to make that occasional sighting so much sweeter. But beyond the butterflies which are simply uncommon, there are others that are on another plane, the "rarest of the rare", if you will. These are wish-list butterflies, dream butterflies, species that are so unlikely in Massachusetts that they are either represented by only a handful of records, or, in some cases, have never been convincingly documented in the state at all.

Based on some advice from Mike Nelson, our invertebrate zoologist with the MA state Natural Heritage program, I'm going to divide these species into two general categories. First, there are those species for which there are few MA records, but which might possibly be somewhat overlooked; some of these would be a big deal if found, since they have not been recorded in recent times. Secondly, there are a few species of butterflies for which there are no MA records, but which might be possible, since their known ranges bring them quite close to Massachusetts. Needless to say, finding one of these second category species in our state would be a big deal as well!

The first category of butterflies we will consider is those which we don't see very regularly, but which are known to occur or to have occurred in the state. For some of these, we have sight and/or

photographic records in the recent Massachusetts Butterfly Club (MBC) database; others are recorded only from specimens collected twenty years ago during the MA Butterfly Atlas. A few are known only from historical records.

The first of these, taxonomically, is the Giant Swallowtail, *Papilio cresphontes*. There are only three recent records for this spectacular butterfly, all from the western half of the state. One is from Amherst (*Hampshire* county; 9/5/2003). (Counties are italicized here and below). The other two are from southern *Berkshire* county in the far southwest, one from 7/17/1999, and the other seen and beautifully photographed just last year at Bartholomew's Cobble (Sheffield; *Berkshire*; 8/15/2009). (See photo on p. 30 of this issue). There are several old records from the 19th century as well, most notably from 1882/1883, when the species may have gained a temporary foothold and records appeared in multiple sites in central and eastern MA. In Rhode Island there are also a few historical records, but the most recent records are from Exeter (*Washington*; early 1980's), where it was recorded over several years, and so was potentially a temporary colonist. Connecticut did not record it during their atlas period (1995-1999) but had 20 previous records.

The Giant Swallowtail is a southerly species that probably occurs as an immigrant in MA. However, it occurs in Wisconsin as far north as Milwaukee and Madison, is seen regularly along the Palisades of the Hudson River in northern New Jersey, and while a citrus specialist, also uses Prickly-Ash and Hercules-Club (*Zanthoxylum* spp.) as host plants in more northerly areas (Cech & Tudor, 2005). Perhaps it is to be looked for in areas where these plants and other potential Rutaceae hosts occur, particularly in the southern Berkshires, but the southern Connecticut Valley and Bristol County could be good areas to watch as well. It is a boldly

marked swallowtail, and while superficially similar to the tiger swallowtails, a good look should quickly establish its identity.

The Falcate Orange-tip, *Anthocharis midea*, is a butterfly with only two records in MA, as far as I can determine: one from the 19th century (location unknown), and one from 5/23/1992 (Savoy, *Berkshire*). Yet it is a locally “common” species just south of our area in the trap-rock ridges of Connecticut (O’Donnell *et al.*, 2007). There are no confirmed Rhode Island records, though there is one possible specimen from the Hope Valley (*Washington*) area in a school collection there. This butterfly’s ecology seems to vary throughout its range, and while it occurs in a wider variety of habitats further south and west, it seems to be limited to the trap-rock ridge systems in CT, so this is perhaps the most promising habitat for it in MA. Occurrence is unlikely; the MA Butterfly Atlas participants conducted careful, focused searches in the late 1980’s and were unable to locate any. However, it is still possible that somewhere along the higher elevations of the western counties there might be a small and isolated population or two. Late April through May would be the time to search for this single-brooded spring sprite. My experience with this species suggests that they tend to patrol along sunny ridges or other south-facing exposures on warm spring days.

The Checkered White, *Pontia protodice*, is another rarely reported species in MA. There are eight recent records, somewhat scattered around the state, though this is a bit misleading. All of the records save three are in *Bristol*, *Barnstable*, or *Dukes* (July through October), and it is near the coast that we might expect this species anyway; there are also two *Bristol* records from the 1940’s. Rhode Island has two records, one from the 1960’s (Charlestown; *Washington*), the other from the 1990’s (Quonset; *Washington*), and while CT has numerous historical records, they failed to record

it during their atlas period. The three recent MA *Berkshire* records are all from July 2006 (7/9 and 7/16) and may even represent the same individual, but there is an additional record of multiple individuals over several days in Hinsdale (*Berkshire*) in 1898. It seems to be a butterfly of dry, open weedy areas, and while it uses some widespread mustards as host plants, these tend to be cresses that might be more likely in beach, dune, or waste habitats. This is another more southerly species that is probably most likely to occur as a vagrant northward along the coast, perhaps more commonly in the late summer and fall. Certainly this has been my experience with this species on Long and Staten Islands in NY, where it is rare but regular along the immediate coast in the latter half of the season.

Another species that has a somewhat similar phenology and pattern of south-to-north vagrancy is the Little Yellow, *Eurema lisa*. This species has only rarely been recently recorded in MA, however, with one notable exception. There are 31 or so recent records—but 26 of them are from what must have been the Great Little Yellow Invasion Year of 1999. Perhaps fearing Y2K, numbers of Little Yellows moved northward that year, and records began in July (*Dukes*) and continued into October (*Hampden*, *Hampshire*, and *Franklin*). The other MA records are from August/September 1973 (*Norfolk*), September 1990 (location not available), September 1991 (*Barnstable*), October 1993 (*Dukes*) and October 2003 (*Hampshire*). There are also several historical RI records, mainly from Block Island (*Washington*), and a more recent sighting (late 2000's) from Woonsocket (*Providence*), and CT recorded it 17 times during their atlas period. I would suggest that late summer and fall would be the ideal time to look, and that the coastal counties and the Connecticut Valley would be the most likely places, though strays could conceivably be anywhere. Little Yellow uses *Senna* and *Chamaechrista* species for hosts, and the

Wild Sensitive-Plant (*C. nictitans*) and Partridge-Pea (*C. fasciculata*) are sometimes found growing in our area. I have observed Little Yellows over several years on Long Island closely associated with stands of the latter.

Another *Senna*-associated species is the Sleepy Orange, *Eurema nicippe*. No records exist in the recent database for this species in the state. However, Vladimir Nabokov apparently recorded one in Cambridge (*Middlesex*) in October 1946, and there are two even older (and more questionable) records from *Plymouth* (1877) and *Norfolk* (October 1890). There is also one RI record from the early 1980's (Westerly; *Washington*), and in CT it was reported breeding in 1955 (Woodbury, *Litchfield*). The Sleepy Orange is well-known to be a vagrant outside of, and often north of, its usual range, and it could be watched for along the coast in late summer and fall.

The final species in the rare MA sulphur group is one with a very different ecology—the Pink-edged Sulphur, *Colias interior*. Unlike its southern relatives, this sulphur is a member of a northern and western assemblage characterized by more specialized habits and often limited distributions compared to our widespread Orange (*C. eurytheme*) and Clouded (*C. philodice*) Sulphurs. Some of these specialists are high Arctic butterflies rarely observed by butterflyers due to the inaccessible nature of their ranges and habitat. The Pink-edged is the most southerly of this group, however, at least in the East. It is regular in northern New England, and there is one MA record from 7/19/1955 (Rockport, *Essex*). This species uses blueberries (*Vaccinium*) and other heaths as host plants—plants which certainly occur in MA. It is possible that this butterfly could occur in MA, especially in the northern higher elevations, and be overlooked. It is quite similar in appearance to the common Clouded Sulphur. Identifying it in flight would be very difficult; you really need a good perched

ventral look—ideally, a photo—to confirm its single (not double) central hindwing spot and lack of marginal ventral wing spotting.

Another species with only a few MA records is the American Snout, *Libytheana carinenta*. This is one of several butterfly species that specialize on Hackberries (*Celtis* spp.), of which the American Hackberry tree (*C. occidentalis*) is an uncommon but widespread native MA representative. Some Hackberry specialists, such as Tawny and Hackberry Emperors (also uncommon butterflies in MA, but regular in some locations) seem very closely tied to their host plant, and are rarely seen without a Hackberry tree in sight. Snouts are sometimes found resting on Hackberry leaves, but they also turn up nectaring in fields and edges seemingly at some distance from known host trees. This southern immigrant could occasionally breed ephemerally in the state, but they cannot survive the winter here, and most reports seem to be of stray individuals. There are a few 19th century reports, and 13 more recent records, from October 1972 (Chatham, *Barnstable*) through October 2008 (Westport, *Bristol*). All but one are from eastern MA; the exception is a report from Hadley (*Hampshire*) on 7/8/2007. The earliest record in this recent series is from June 28, and most records are from the late summer and fall, as would be expected with a southern stray. However, the earliest overall record is the most recent one, an astonishing outlier of a sighting of an individual in Petersham (*Worcester*) on 4/20/2009—a full two months earlier than any other sighting in the state. Connecticut has 20 historical records and recorded it four times during their atlas. Rhode Island also has a handful of recent records, mostly from around Narragansett Bay. This is a butterfly worth looking for in gardens, especially near Hackberry trees, along the coast, and perhaps in the Connecticut and Blackstone Valleys, particularly during the latter half of the season.

The Gray Comma, *Polygonia progne*, is a butterfly with a very different life history from these southern waifs, and it is rare in MA for different reasons. This is a boreal species, which barely enters our state along its northern borders and in the western mountains. There are only a few eastern MA records, and none from the coast. The current MBC database contains 9 records, every one of them from the month of July, and all from *Hampshire, Franklin, and Berkshire*, including the most recent—a beautifully photographed individual seen in Williamstown (*Berkshire*) on July 15, 2009. (See photo on p. 34 of this issue.) Connecticut has 9 historical records as well, though none during the atlas period. Like its congeners, the Gray Comma overwinters as an adult, dies out in the late spring, and re-emerges as a new brood in midsummer. It seems to be this new generation that is occasionally sighted in MA, but it's not clear whether this is because of immigration or increased observer activity at this time. In any event, those out butterflying in the higher terrain of the northern and western counties should carefully observe each anglewing and obtain a photo if possible. Compared to the Eastern Comma (*P. comma*), the Gray has a frosted outer half of the forewing below, with a finely striated pattern overall, while the dorsal surface has a dark hindwing margin containing a row of yellow spots, unlike the uniformly dark or dark-spotted dorsal hindwing of the Eastern.

Even rarer than the Gray, and represented in MA by only a few historical records, including one from the 1940's from the Mt. Greylock area (*Berkshire*), is the Green Comma, *P. faunus*. This species has a similar life history to its congener, but is even more restricted to boreal habitat, and therefore even less likely to be recorded in southern New England. However, it is also quite similar to the other *Polygonia* anglewings in appearance—meaning that it is probably worthwhile to try to get a careful look at every

comma seen in mid- to late summer in the higher elevations of northern and western MA.

The skippers are a large family of sometimes confusing and difficult-to-identify species. The first two entries on my list certainly fit the bill, since they are duskywings, and so among the most confusing butterflies of all. The first of the two is perhaps slightly less difficult than some other duskywings to identify, but is also quite unlikely to appear again in Massachusetts—the Mottled Duskywing, *Erynnis martialis*. This butterfly was historically part of our fauna, but the historical records end after the 19th century, and as this species is extirpated from CT and RI as well, a reappearance in MA seems quite unlikely. However, it is, or recently was, found in the Albany (*Albany*), NY, Pine Bush, not too far west of us, where it apparently uses New Jersey Tea (*Ceanothus americanus*) as a host. Searches in similar sand plain habitat in MA (e.g. Montague, *Franklin*) have come up empty.

The other duskywing species which is known only from historical records has a more tantalizing story—the Columbine Duskywing, *Erynnis lucilius*. Here we have a species that would be a prize beyond prizes for two reasons. First, all of the records for MA, as well as the two or three for RI, appear to be historical, and recent searches for the butterfly in the 1970's and '80's have been unrewarding. However, the species occurs in Canaan (*Litchfield*), CT, scarcely ten miles south of the MA border, in limestone habitat. (Or at least, it did until recently; it is unclear whether that colony is extant, following the re-activation of the limestone quarry where the colony occurs.) Its host plant is a common Massachusetts wildflower, the Wild Columbine, *Aquilegia canadensis*. And the trap-rock ridge habitat where it occurs in CT also extends into MA, particularly in the Holyoke Range.

Secondly, this will be a difficult species for many modern butterflyers—shunning nets and relying on photos alone—to confirm, even if they suspect a valid sighting. It is extremely similar in size and appearance to the very slightly larger and paler Wild Indigo Duskywing, *E. baptisiae*, a congener which apparently has also been known to use columbines as hosts. Even a small, dark, Columbine-type duskywing photographed ovipositing on Wild Columbine on a trap-rock ridge would possibly not constitute iron-clad proof that one had seen *E. lucilius*.

There are other things to consider about the Columbine Duskywing/Wild Indigo Duskywing situation. Wild Indigo Duskywing was only described as a valid species in 1936. Prior to that, any sightings would likely have been ascribed to Columbine or Persius (*E. persius*) Duskywings, casting doubt on the historical records mentioned above for *E. lucilius*. However, Wild Indigo Duskywings were originally uncommon, since they were associated only with stands of Wild Indigo (*Baptisia tinctoria*) or Wild Lupine (*Lupinus perennis*), host plants that are themselves quite exacting in terms of habitat requirements and occurring only locally. In the past several decades, Wild Indigo Duskywings have famously jumped to a new host plant, the introduced Crown Vetch (*Coronilla varia*). This widely planted legume is used to stabilize slopes and other disturbed sites, notably along the interstate highway system, allowing this former specialist to radiate widely into new areas. I have also seen them ovipositing on cultivated *Baptisia* species in the Northampton (*Hampshire*) Community Gardens, as well as in my own Whately (*Franklin*) garden.

The MA Butterfly Atlas has records of Wild Indigo Duskywing that concentrate mainly in the southeast, and extend westward only as far as *Worcester*. However, the MBC database contains multiple records for the species from every county in the state. We

know that both Wild Indigo Duskywings and butterflyers have become more widespread in the years since the butterfly atlas. This then begs the question of whether all of the MBC records for the past decade or two for Wild Indigo Duskywing, particularly the northern, western, and higher-elevation records, are truly of that species—and they very well might be—or whether Columbine Duskywing could be occurring as isolated populations that were not previously noted but are now being “lumped” as presumed Wild Indigo Duskywings. This is a complex situation, possibly in MA but certainly in other places where the two species are known to occur together. Careful observation, documentation, and attention to the details and circumstances of any western MA Wild Indigo Duskywing sightings away from *Coronilla*, *Lupinus*, or *Baptisia* may yet be rewarding.

The final group in this category is the grass skippers, and the first of these is the Sachem, *Atalopedes campestris*. Here we have yet another southern stray, represented by a handful of MA records, most from the latter part of the season and from the south and east of the state. While this stray is rarely recorded, there are two things in the hunter’s favor. First, sightings have been increasing in the past decade to our south, perhaps indicating a range shift northward, or at least a trend toward increased northward wandering. In CT, there had been only three records (10/14/1985, Branford, *New Haven*, and 9/9/1999 and 10/1/1999, Stamford, *Fairfield*), but multiple individuals have since been reported in the summer and fall of 2002 and 2005. There are also 16 recent RI records.

Secondly, this is a common backyard butterfly where it normally occurs. Its host grasses include some popular and widely planted lawn grasses. In the late summer, it can become one of the most abundant butterflies, even in heavily managed lawns in truly urban

settings. I recorded 100+ individuals in a Staten Island (*Richmond*), NY, public garden in September 2002. This means that there is a large pool of potential strays to draw upon, and in those years with favorable warm southerly breezes, a careful search of gardens, open lawns and late-blooming flowers could conceivably turn up one or more of these good-sized dull orange skippers. Look for the male's big square stigma; the female looks much like a modestly patterned *Hesperia* skipper.

The Brazilian Skipper, *Calpododes ethlius*, is a southeastern species that, based solely on range maps, would seem extremely unlikely in MA. Indeed, there are only a very few records of this southern butterfly, all from the late summer/fall, when it might be expected to stray northward. There are apparently specimens from September 1937 from Nantucket (*Nantucket*) and New Bedford (*Bristol*), as well as a September 2003 photo record from Northampton (*Hampshire*). This butterfly's story is complicated by the fact that one of this skipper's host plants, *Canna*, is a common nursery plant. When Brazilian Skippers are sighted in New England, far from their natural range, it is an open question whether these individuals represent true strays, or are the result of immature stages being carried north on garden plants. The Brazilian Skipper is a very large skipper, however, and apparently capable of long-distance flights. It is documented regularly as a northward stray in the Southeast.

My final entry in this category of recorded-but-rare species is the enigmatic Common Roadside-Skipper, *Amblyscirtes vialis*, perhaps better categorized as recorded-but-poorly-understood. What exactly is up with this butterfly? We have 31 records in the MBC database, and there are another 10 or so records from the MA Butterfly Atlas. Of the 31 MBC records, almost one third are from a location in Sunderland (*Franklin*) where the species has

apparently been extirpated due to expansion of a quarry over the last few years. The remaining records are scattered in both space and time, occurring throughout the state except in the far southeast and directly along the coast, although there are also two recent (June 3 and 6, 1984, Warwick, *Kent*) and several historical RI records, and one recent and 17 historical CT records. But MA sightings are very scarce, and with the exception of the former Sunderland colony, the species does not seem to be reliable in any one location. This is a species that is perhaps declining in MA, but not enough is known about its ecology and life history here to know if that is truly the case. It is worth looking for, in any upland habitat, and careful description of habitat and habits might prove important. Could this be a candidate for state listing? MBC records range from May 2 through August 12, but the vast majority have occurred from mid-May through mid- to late June. The most recent is a record from Holliston (*Middlesex*) on June 2, 2009.

Now we come to the other category of species I would like to consider: those which might be possible, but for which we have no MA records. For listers, this is probably the really exciting group—how great would it be to find the first MA record for one of these fantastic butterflies?! Each of them occurs nearby, some so close that we can practically walk from MA to their closest colonies. Finding one of them in Massachusetts has to be considered unlikely, but all are tantalizing.

First we have the Northern Metalmark, *Calephelis borealis*. This is the northeasternmost U.S. representative of a very large, colorful, and wide-ranging family of mostly tropical butterflies. There are a number of confusingly similar *Calephelis* metalmarks further south, in TX for example, but in our area there is only one to consider...if we should consider it at all. The Northern Metalmark's range comes within a whisker of the MA border, with

a colony occurring in Canaan (*Litchfield*), CT, less than 10 miles south of the Sheffield (*Berkshire*) town line. It also occurs in NY State, just southwest of us. There are, however, no MA records for the species. It seems to have fairly exacting requirements in CT and NY—limestone areas where its primary northeastern host plant, Round-leaved Ragwort (*Senecio obovatus*) occurs. This is a woodland plant, but the butterflies also require adjacent open areas with nectar sources during their flight period, and they are particularly fond of Black-eyed Susans (*Rudbeckia*). There is at least one area just north of the CT border that would fulfill these requirements, namely Bartholomew's Cobble (*Berkshire*). However, there are apparently no records, even historical ones, for Northern Metalmark from the Cobble. The MA Trustees of Reservations own this property, and its fauna is monitored fairly carefully. Specific searches for the butterfly there have not been successful (*vide* Mike Nelson).

It is possible that Northern Metalmarks could occur in some other area of extreme southwestern MA, almost certainly on limestone soils. Northern Metalmarks are definitely at the edge of their range, if they occur here at all, so any colony would likely be isolated and fragile. The unlikelihood of discovering them is compounded by the fact that the butterfly is under pressure and likely declining in CT and NY as well (it is state listed as Endangered in CT). The Canaan, CT, colony is a good example of this. The main colony is located on private land that was, until the past five years or so, an abandoned quarry—the same location as mentioned above for Columbine Duskywing. Now, the quarry is once again very active, and the butterfly seems to be suffering for that. The quarry owners are cooperative and sympathetic, but the very nature of the work there is destructive to the habitat, and it remains to be seen whether or not the metalmarks will survive. They are univoltine, and fly from approximately late June through

mid-July, and any MA searching would need to be conducted during this period. They seem to be almost unknown as strays, although colonization must occasionally occur.

The next species to think about is the stunning Red-banded Hairstreak, *Calycopis cecrops*. This is another species that reaches its northern range limit just south of us in CT. There are also four RI records: two from August 23, 2002 (Trustom Pond NWR and Great Swamp NWR, South Kingston, *Washington*), one from September 24, 2006 (Block Island, *Washington*), and one from the mid-1990's (Pawtucket, *Providence*). Connecticut has 9 historical records and recorded it once during the atlas period. It is multi-brooded, and might be expected throughout the warmer months. However, it is also a species that seems to be most often recorded and perhaps most abundant in the late summer and fall, and so it is probably a butterfly that, like many others discussed above, tends to stray somewhat north of its recorded range later in the season. It also may locally establish breeding populations. Sumacs (*Rhus* spp.) are the host trees, and these are quite widespread. However, the butterfly itself, while sometimes locally common (I have recorded 40+ per visit at some favored Long Island sites), is also absent from many other areas where its hosts occur. Interestingly, the caterpillars can feed on young Sumac leaves, as would be expected, but eggs are also laid on detritus beneath the host, and the caterpillars then develop on the dead leaves, albeit more slowly. This is an unusual developmental strategy, and the Red-banded is the only northeastern butterfly that uses it.

It is not clear whether this species is limited at its northern extent by cold winter temperatures or by some other factors. If winter temperatures do become more moderate over time, it might be possible for the species to extend its breeding range northward. As far as recording the species for the state, however, it seems more

likely that a stray might be found in the later summer or fall, most likely in the southeast or the Connecticut Valley.

The next species in this category is another one that is quite unlikely but perhaps possible in southwestern MA—the Appalachian Azure, *Celastrina neglectamajor*. This butterfly looks very much like a large, pale Spring Azure (*C. ladon*), but flies a bit later, mainly in May and early June. Its closest colonies are in southeastern NY State, quite close to the western CT border, and in *Fairfield*, CT, where it was recorded twice during the atlas period. Its most significant identifying feature is its choice of host plant. It exclusively uses Bugbane or Black Cohosh, *Cimicifuga racemosa*. This is a rare, state-listed plant in MA, and as the plant is rare, so is the butterfly quite unlikely to occur. However, this plant is also sometimes included in garden plantings, *e.g.* at the Trustees of Reservations' Naumkeag Sanctuary in Stockbridge (*Berkshire*). The azure situation in MA is complex and evolving, as is our understanding of it. Appalachian Azures are large, pale azures that fly between the broods of Spring Azure (*C. ladon ladon*) and Summer Azure (*C. ladon neglecta*, following the NABA classification.) But this description would also fit well for the Cherry Gall Azure (*C. ladon serotina*), a butterfly reported increasingly often as observers become aware of and attempt to categorize the different forms of azures they are seeing. Most probably, then, a record of Appalachian Azure would need to include close association with the food plant as well as a definitive photograph or other documentation.

The next “wish list” species for MA is the Swarthy Skipper, *Nastra lherminier*. This too is a species that occurs regularly just to our south. Unlike the above three species, however, the Swarthy Skipper is well documented with almost 50 records at multiple sites in CT, and can be fairly easily and regularly found in some

parts of Long Island and coastal NY. Some of the CT records seem to be from the Connecticut River valley, not too far south of the MA border. There are also several RI records, including two broods in Warwick (*Providence*) in 1984, and individuals at Trustom Pond NWR, South Kingstown (*Washington*; 8/23/2002) and Durfee Hill WMA, Gloucester (*Providence*; 6/27/2006).

While this species is apparently not common at any one site where it occurs to our south, it is a generalist which uses fairly widespread host plants—bluestem (*Schizachyrium*) and other grasses. It probably has multiple broods, and therefore might be able to produce a small, if temporary, late-season local population following colonization earlier in the summer by a stray individual or two. Taken together, these life history details point to a species that might very well soon be found in MA given diligent searching, perhaps in the southern Connecticut Valley region, or in southern Worcester or Bristol. It might be best to look in June and then again later in the summer, perhaps from mid-August through early September, since these seem to be the flight times recorded in RI and CT. With care, identification is relatively straightforward, with the Dun Skipper (*Euphyes vestris*) perhaps being the only potentially confusing similar species. Swarthy Skippers are small skippers, all dark above, occasionally with a pair of small pale spots on the dorsal forewing. Males lack a stigma. Ventrally they are tan with a faintly olive cast, with paler hindwing veining. I have found the odd underwing color, once experienced, to be a distinctive shade that draws attention to the butterfly even from across a grassy field.

The final species I would like to consider is the Salt Marsh Skipper, *Panoquina panoquin*. This skipper's northernmost reports are currently from coastal NY (Oceanside, *Nassau*, has a well-known colony) and Rhode Island (one record, 7/9/2004,

Westerly, *Washington*), tantalizingly close to MA. Unlike the above butterflies, for this species we can narrow our search in MA to a much smaller area. This is because the Salt Marsh Skipper is a well-named obligate salt marsh dweller, apparently never found more than a few hundred yards from this habitat. It may occasionally fly a short distance from the marsh itself to use nectar sources immediately adjacent to the marsh. I have seen Salt Marsh Skippers in the gardens at the Cape May Bird Observatory in NJ and at the Oceanside Preserve visitor's center on Long Island, NY, both of which are a literal stone's throw from the marsh itself. More often, however, I have seen them nectaring in the marsh itself; Sea-Lavender (*Limonium*) seems to be a favored nectar source. This habitat preference means that searches for this butterfly should be concentrated in and adjacent to salt marshes in MA, and particularly those salt marsh areas that closely border CT and RI. Efforts to locate the species in Buzzard's Bay, *i.e.* *Bristol*, *Barnstable*, and *Plymouth*, and also in *Dukes*, would probably have the greatest chance of success. This butterfly has a very distinctive appearance. It is a very long-winged skipper, and it is likely to be confused in MA only with Ocola Skipper (*P. ocola*), another southern stray. However, Salt Marsh Skipper has noticeably pale wing veining ventrally, and a rectangular pale patch in the central ventral hindwing, features which the Ocola lacks.

As with all things rare, sightings of these butterflies are unlikely on any given field trip. In MA at least, it would probably be unrealistic to hear hoofbeats and immediately think, "Zebras!" But, I hope I have stimulated some thinking and pondering about rare MA butterflies. I also hope that this article generates two other things—discussion, and probably correction, of some of my points, as well as additional past records I have missed; and open eyes and open minds while searching for some of these beautiful insects. Happy hunting to all!

Sources, Literature Cited and Further Reading:

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Bill Benner is President of the Massachusetts Butterfly Club. He moved to Whately, Massachusetts from Long Island, NY, in 2004. He wishes to thank particularly Erik Nielsen, Harry Pavulaan, Mike Nelson, and Sharon Stichter for supplying information and assistance for this article.





1. Harris' Checkerspot female laying eggs Ph: N. Wilson



2. Harris' leaf bridges Ph: N. Wilson

Butterfly “Highs” Through an Artist’s Eye: Observations on raising two gregarious species

Nan Wilson

To enter the world of butterflies you stop, look closely around you from grasses to trees, earth to sky....watching for fleeting shadows and wings that catch the sunlight. Totally absorbed, all else on your mind falls away. You are there.

Seeing the butterfly or moth is just the start of it for me. I like to immerse myself in the whole cycle of each creature. A good year is when I’ve raised several species of lepidoptera and released them back into their habitats. With the greatest interest I follow them through the hard work of their daily existences.

Two of my more fascinating subjects are gregarious species: Harris’ Checkerspot (*Chlosyne harrisii*) and Io Moth (*Automeris io*). Their survival rates are enhanced due to their instinct to remain in groups. In my mind this is reminiscent of other animals. Sheep, cattle, antelope, elephants, lions and others survive by remaining in herds, prides, colonies etc. (And don’t overlook *Homo sapiens*, whose sanity may depend on like-minded colleagues in butterfly clubs!) It’s not surprising that there are some lepidoptera that have evolved to stick together as well.

The hardy northern Harris’ Checkerspot female lays her cluster of some 200 eggs on the underside of a flat-topped aster leaf (*Doellingeria umbellatus*) (Image 1). This aster is found in the eastern part of the country and is the only food plant she will choose. It takes her about 40 minutes to lay the eggs all in one batch, so she must be well hidden, hanging suspended beneath a

leaf. The caterpillars will emerge together and initially remain secreted under the leaf, feeding.

Throughout this species' early larval development there is an alert system that tells them danger is near. When I pass by them my motion or shadow causes them to bob their heads frantically, in unison, like fiddlers in an orchestra. Although they are fanned out across the plant in loose clusters, all seem to simultaneously bob. How quickly this is disseminated is a head scratcher. I tried to watch closely but couldn't catch one group starting before another.

As they grow they march out together along the plant in search of a fresh leaf. I've observed while in my kitchen "laboratory" that when traveling a new leaf, the Harris' leaders cross the leaf and attach it with silk to the closest stem or plant, creating a bridge (Image 2). Secured to the stem they all converge to devour the leaf, leaving the stem intact. As they feed they are continually spinning silk and can drop off the leaf still attached. They also spin silky cobwebby nests in which to gather and rest.

The short summer in northern climates doesn't allow Harris' caterpillars to fully develop in one season. The flat-topped aster is our earliest blooming aster but also the first to fade. In August these tough little caterpillars go into diapause, crawling to the base of their plant and burrowing into the earth. Snow covers and insulates them through the winter (Image 3).

They emerge in spring when the aster leafs out, to finish their growth. Crawling away to a protected place nearby they go through their last molt into a chrysalis. By early summer they eclose, flying off to start another cycle (Image 4).



Photo: Nan Wilson

3. Harris' winter "hotel-barrow" residence under eaves of roof



4. Harris' Checkerspot Life Cycle - Nan Wilson

The Io Moth, by comparison, has more formidable survival skills. The many spines of the caterpillar contain a poison that burns and stings anyone who touches them. My tools to deal with them are rubber gloves and chopsticks – a chef's hat would complete the picture. The female lays her clumps of eggs on a variety of tree and plant leaves. At first they are white (Image 5), then the micropyle on the eggs turns black when they are ready to hatch. The micropyle on my batch of eggs, laid in a paper bag, refused to turn black until I put a bit of moist tissue in with them. (Thanks for the tip from Prince Edward Island Moth Expert Bill Oehlke!)

As the caterpillars emerge from the eggs they all remain there waiting till the last one has hatched. A few do not ever hatch but all those who have will wait for a few days till hunger, or instinct, drives them to feed. This is amazing to observe. I feared there was



5. Io Moth eggs laid in paper bag

Photo: Nan Wilson

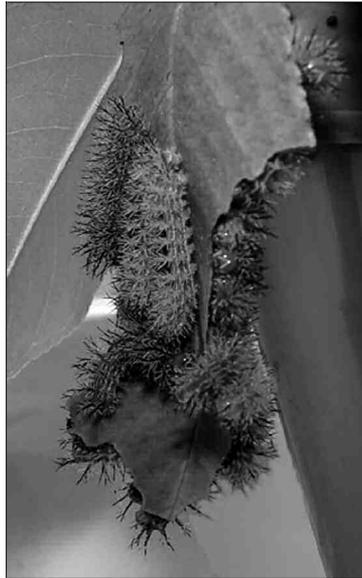
something wrong with the food plant and kept substituting other leaves, laying them enticingly next to the caterpillars. Not a single bite was taken till some mysterious “all clear” was given –then they started to crawl away from the eggs and eat.

While feeding they cling together and also parade out in “drill” fashion to fresh leaves. There are no nests, but while clumped together feeding, their stinging spines protect them. They are masters of judging how best an army of caterpillars can devour a leaf without them and it falling to the ground (Image 6). Our Army would do well to study some of these maneuvers.

Two full grown on the same leaf are still gregarious (Image 7). You have to wonder if there are ever any body parts found missing. As they are moths these Io caterpillars spin a coarse silk enclosing themselves into leaves, creating cocoons. The cocoons

are often found with the tiny male and large female cocoons strung together, gregarious to the end. They will emerge when the climate dictates it is optimal. In some cooler climates they may also go into diapause, as their food plants are deciduous.

Raising these creatures is wonderfully distracting. Observing their behavior can be mesmerizing—and releasing them to fly away has made for many a poignant moment. They have been mine and I must let them go. But I can revisit that time by gathering my photos, researching and starting to piece it all together for a life cycle painting (Image 8). It's only when I feel I am familiarized with a particular species that I bring out my paint and brushes. It could be pouring rain or a raging blizzard outside, but I won't know-- I'm in the zone. I try to suspend the viewer with me for a moment, in the tiny bit of universe inhabited by these amazing creatures.



6. Io cafeteria line Ph: N. Wilson



7. Io's leaf sharing technique

Photo: Nan Wilson



Thistle-down Studio

Io Moth (Automeris io)

Nan Wilson

8. Io Moth life cycle -- Nan Wilson

Always fascinated with brushes and paints, Nan trained for the business of art at Syracuse University. Her subjects took a turn toward nature when she started visiting the Adirondack Mountains some years ago. Studying wildflowers and then what landed on them drew her into the insect world. It seemed that painting just a pretty butterfly picture wasn't enough – it was about so much more. Trying to put a whole life cycle into a painting became the next challenge. The more she knew the more there was to learn and so it remains.

Nan's self-described job "chasing butterflies and dragonflies" leads her across the country and into Mexico. Her art can be found in private and public collections throughout the USA.

Nan is a Massachusetts Butterfly Club member who lives with her husband Dave in the Adirondacks.. She is not yet tweeting or twittering but her art can be found at: www.thistledownstudio.com

2009 Season Summary and Records

Erik Nielsen

Over 6700 records were received for the 2009 season. Thank-you to the many observers submitting records either directly to me or posting their sightings on the MA butterfly list server. Remarkably the number of species reported has remained constant for at least 6 years in a row at 103 (following the NABA checklist) or 105, if you count Cherry Gall and Summer Azure as species distinct from Spring Azure.

Unfortunately, even while using a very tiny font for listing the records, it is not possible to fit more than a fraction of the total records into the space allotted in the journal. This does not mean that they aren't important; all reported butterflies are logged in the database and add to the overall picture of the health of our various butterfly populations in the state. The tables in this summary are generated from this data. The first column gives the % change in the average number seen on a visit to a location on a specific day in 2009, compared to the average for the preceding years. The second column gives the % change in how frequently a species is reported, the third column lists the % change in the maximum count reported, and the last column the % change in how many localities it was reported from. The fields are "color coded" to make it easier to quickly see how many species saw large changes and for which the numbers were in the "normal" range. Black text on a white background indicates that the numbers for 2009 were twice the previous years' average. White text on a dark gray background indicates numbers half or less, and black text on light gray numbers somewhere between the two extremes.

SWALLOWTAILS

For the first time since 2001 no Pipevine Swallowtails were reported. Most years a few individuals are recorded - typically between mid-July and October. On August 15th a Giant Swallowtail was photographed at Bartholomew's Cobble in Sheffield. This represents the third record (in the database) for this southern species. The others were seen in 1999 and 2003.



Giant Swallowtail.

Photographed at Bartholomew's Cobble in Sheffield on Aug. 15th by Bill Roberts.

% Change in 2009 from the 1994-2008 average				
Species	Avg. No.	Frequency	Max. No.	Localities
Black Swallowtail	-14	18	-30	16
Eastern Tiger Swallowtail	14	66	-48	67
Canadian Tiger Swallowtail	215	154	31	111
Spicebush Swallowtail	4	14	19	15

From the above table it appears that Swallowtails fared relatively well in 2009. Black Swallowtail numbers were down somewhat;

but were seen more frequently and in more places than usual. Canadian Tiger Swallowtails were well reported with good counts especially from Berkshire County. The easternmost individual was found at Fort Pond Brook on the Acton/Concord town line on May 16th.

WHITES AND SULPHURS

% Change in 2009 from the 1994-2008 average				
Species	Avg. No.	Frequency	Max. No.	Localities
Mustard White	-58	-15	-51	-28
West Virginia White	-55	-32	-57	-11
Cabbage White	30	10	91	33
Clouded Sulphur	24	4	75	35
Orange Sulphur	-34	-23	-35	9
Cloudless Sulphur	-92	-74	-93	-72

The numbers for both Mustard White and West Virginia White continued their alarming downward trend again this year with their numbers in all 4 categories being significantly lower than the averages from the preceding 15 seasons. Only 4 Cloudless Sulphurs were reported and all from Westport/Dartmouth or the Cape late August to the first week of September.

GOSSAMER-WINGS

Harvesters continued to be found in large numbers at the Mystic Lakes on the Arlington/Medford town line, with the high count there being 44 on August 28. Bronze Copper broke the previous early flight date when Sam Jaffe found one at Great Meadows NWR in Concord on June 7. A Hickory Hairstreak in a field by the Dover Recycling facility on July 10 was the only one reported. Oak Hairstreaks were found on Great Blue Hill in Canton and Martha's Vineyard. Frosted Elfin numbers were way down at the

Lamson Road site in Foxborough, but overall they were found more frequently and in more areas than normal. Henry's Elfin had an especially good year and beat the previous high count when Sam Jaffe found 25+ at Fowl Meadows in Milton on April 24. The club trip led by Tom Gagnon to Tom Swamp in Petersham on May 25 was again successful in locating Bog Elfin. Reports of Juniper Hairstreaks were few and far between; but a count of 41 in Holyoke on May 25 lifted the average to just above normal. The species also got a new early flight date when Bob Bowker found an individual at the Sherborn Power Lines on April 18. A White M Hairstreak in Bill Benner's Whately yard was only a day off from tying the early flight day for the species. He found it during a "lull in the parade of visitors" coming to see the Painted Bunting that frequented the yard at the time. On June 7th a group from New

% Change in 2009 from the 1994-2008 average				
Species	Avg. No.	Frequency	Max. No.	Localities
American Copper	20	34	-47	32
Bronze Copper	-7	-2	100	17
Bog Copper	53	33	40	60
Coral Hairstreak	106	39	47	19
Acadian Hairstreak	-19	-4	-24	-47
Edwards' Hairstreak	-27	41	-55	-11
Banded Hairstreak	88	72	-8	41
Striped Hairstreak	67	18	-6	0
Brown Elfin	57	45	14	24
Hoary Elfin	78	-9	79	-42
Frosted Elfin	65	270	-52	88
Henry's Elfin	386	123	456	90
Eastern Pine Elfin	192	146	227	88
Juniper Hairstreak	6	-70	134	-58
Gray Hairstreak	-40	-23	-57	-25
Eastern Tailed-Blue	11	14	-37	19
Silvery Blue	40	20	-8	26

Jersey found the only Early Hairstreak for the year on Mount Greylock.

BRUSHFOOTED BUTTERFLIES

% Change in 2009 from the 1994-2008 average				
Species	Avg. No.	Frequency	Max. No.	Localities
Variegated Fritillary	-79	-76	-64	-58
Great Spangled Fritillary	125	71	59	52
Aphrodite Fritillary	-14	-14	-7	-11
Atlantis Fritillary	-70	-13	-75	-20
Silver-bordered Fritillary	-92	-10	-90	-24
Meadow Fritillary	26	-3	30	0
Harris' Checkerspot	-61	-41	-52	-35
Pearl Crescent	-4	7	-25	18
Baltimore Checkerspot	-42	87	-52	37
Question Mark	-35	-9	-81	-4
Eastern Comma	98	106	46	76
Compton Tortoiseshell	-49	-26	-74	-7
Mourning Cloak	10	22	-2	31
Milbert's Tortoiseshell	-55	-44	-6	-38
American Lady	2	14	-5	37
Painted Lady	-26	30	-66	69
Red Admiral	-94	-51	-100	-34
Common Buckeye	-89	-74	-90	-64
White Admiral	-77	-34	-72	-19
Red-spotted Purple	-51	-22	-73	-30
Viceroy	14	26	-3	11
Northern Pearly-Eye	41	85	-24	54
Eyed Brown	14	45	-27	32
Appalachian Brown	116	78	87	78
Little Wood-Satyr	33	38	-33	43
Common Ringlet	-27	-21	-47	9
Common Wood-Nymph	-19	14	-74	35
Monarch	-66	-12	-72	16

Several American Snouts were found in the Westport/Dartmouth area in September. This species is far from annual in the state so these records were quite unusual in their own right; but one at Gate 36 in Quabbin on April 20th was not only the earliest ever, but also the first record for Worcester County and only the second ever inland record. Aphrodite and Atlantis Fritillary numbers were higher than for the last couple of years; but still quite a bit lower than the 94-08 average. Great Spangled on the other hand appears to have done quite well. Both Silver-bordered Fritillary and Harris' Checkerspot numbers were down significantly this year. The overall counts, how often they were found, and in how many localities all were much lower than average. Baltimore counts were down as well; but they were found more frequently and in more places than normal.



On July 15th Bo Zarella came across this Gray Comma at the Mountain Meadow Preserve in Williamstown and got several diagnostic photographs of both ventral (shown here) and dorsal surfaces.

A Milbert's Tortoiseshell was found at the at park and ride parking lot at Exit 6 off the Mid Cape Highway in Barnstable just prior to

the Barnstable butterfly count on August 1. This represents only the second record for Barnstable County. The first record was of two individuals (photographed) in Chatham on October 9th, 2006.

SKIPPERs

% Change in 2009 from the 1994-2008 average				
Species	Avg. No.	Frequency	Max. No.	Localities
Silver-spotted Skipper	30	29	34	36
Hoary Edge	-82	-63	-79	-49
Southern Cloudywing	-5	71	-59	71
Northern Cloudywing	-47	-46	24	-38
Dreamy Duskywing	-27	-25	-46	-13
Sleepy Duskywing	243	125	86	100
Juvenal's Duskywing	44	27	73	19
Horace's Duskywing	-10	27	-21	9
Wild Indigo Duskywing	85	47	-9	28
Common Sootywing	-8	28	-51	17
Arctic Skipper	306	11	410	-39
Least Skipper	75	-21	179	-14
European Skipper	-72	-15	-70	0
Leonard's Skipper	-61	-44	-61	-63
Cobweb Skipper	78	-7	57	-17
Indian Skipper	14	7	72	-1
Peck's Skipper	-28	-1	-65	15
Tawny-edged Skipper	-5	16	-43	11
Crossline Skipper	143	96	44	47
Long Dash	-16	-23	-29	-10
Northern Broken-Dash	28	24	-32	26
Little Glassywing	179	133	49	84
Delaware Skipper	81	44	73	36
Mulberry Wing	82	105	91	67
Hobomok Skipper	-47	-31	-49	-38
Zabulon Skipper	76	279	-66	160
Broad-winged Skipper	-3	12	-28	21
Black Dash	-18	5	13	23
Dun Skipper	33	64	21	54
Dusted Skipper	123	54	62	5
Pepper and Salt Skipper	-20	-5	-8	3

Continuing the trend from last year, Dreamy Duskywing and especially Hoary Edge numbers were way below normal. Sleepy Duskywing on the other hand had a good year, with counts, frequency of occurrence, and number of localities higher than usual. A couple of Common Checkered-Skippers were found at Northampton Community Gardens for the 9th year in a row. Artic Skipper beat the old high count when participants on a MBC club trip found 130 at Moran WMA in Windsor on June 6th. A Fiery Skipper “hung out” in a Nahant yard from the 19th to the 22nd of September. Also in September several Sachems were found in the Westport/Dartmouth area. Zabulon Skippers set a new “early flight date” when Karen Parker found one in her East Longmeadow yard on May 25. She saw several individuals there until June 12 and then another individual in early September. Zabulons are now reported regularly from Rhode Island in the fall and are beginning to show up in the Westport/Dartmouth area of MA as well. A single Zabulon was found there the fall of 2008 and a few in 2009. Dion Skipper is listed as “threatened” in MA and until this year known only from a small number of calcareous wetland sites in Berkshire County. On July 13 a visiting butterflyer from Pennsylvania found a small colony at a lake in Florence and was able to get diagnostic photos of a couple individuals. (See article in *Massachusetts Butterflies* 33: Fall 2009.) Common Roadside-skipper was found for the first time in 4 years when Bob Bowker came across one at the Brentwood Conservation Area in Holliston on June 2nd.



Black Swallowtail

4/22 1 Weir Hill Res, N Andover - Howard Hoople
4/25 2 GBH, Canton - Erik Nielsen
4/27 1 Hunsley Hills CA, Rowley - Sharon+Joe Stichter
4/27 1 Andover - Jim Berry
4/28 1 Moore SP, Paxton - Elise Barry
4/28 1 Westfield - Tom Gagnon+Bruce Callahan
5/4 1 NCM, Petersham - Russ Hopping
5/10 2 W Bridgewater - Don Adams
5/13 1 HPM, Woburn - Renee LaFontaine
5/16 1 Katama Farm, Edgartown - Allan Keith
5/19 7 GBH, Canton - Frank Model
7/6 4 W Bridgewater - Don Adams
7/19 4 Bear Creek WS, Saugus - Jay Shetterly #
8/4 4 Millenium Park, Roxbury - Bob Bowker
8/23 20 Katama Farm, Edgartown - Matt Pelikan
9/6 1 Deerfield - Earle Baldwin
9/7 3 Cumberland Farms, Middleborough - Eddie Giles
9/18 1 Alewife Res., Cambridge - Fred Bouchard
9/19 2 APFS, Dartmouth - MBC (Lauren Miller-Donnelly)
9/26 1 Wayland CG - MBC (Moore+Volkle)
10/6 1 Haley Yard, Marblehead - Karen Haley
10/27 1 S-C TTOR, N Andover - Russ Hopping
10/12 1 Cumberland Farm Fields, Halifax - S. Moore+B. Volkle

Giant Swallowtail

8/15 1 Bart's Cobble, Sheffield - Bill Roberts

Eastern Tiger Swallowtail

4/25 2 GBH, Canton - Erik Nielsen
5/7 1 Holliston - Richard Hildreth
5/8 1 Lexington - Tom Whelan
5/8 1 Assabet River NWR - Sharon Stichter
5/8 4 Uxbridge - Richard Hildreth
5/21 4 MSSF, Plymouth - Frank Model+Erik Nielsen
7/5 4 BMB WS, Worcester - Dolores Price
7/14 5 Moore SP, Paxton - Elise Barry
7/19 7 Bear Creek WS, Saugus - Jay Shetterly #
7/19 6 Crane Swamp Trail, Northborough/Westborough - MBC
7/26 5 Phillipston - MBC (Carl Kamp)
8/1 4 MPRA, W Newbury - Dorothy Saffarewich
8/8 5 Muddy Brook, Ware - Brian Klassanos
8/23 1 FS WMA, Longmeadow - MBC (Tom Gagnon)
8/24 1 GBH, Canton - Sam Jaffe
8/28 3 Dunback Meadows, Lexington - Bob Bowker
9/2 1 Falmouth - Alison Robb
9/21 1 Muddy Brook, Ware - Brian Klassanos
9/24 1 Whately - Bill Benner
9/28 1 MMP, Williamstown - Pam Weatherbee

Canadian Tiger Swallowtail

5/15 1 Dinosaur Footprints, Holyoke - MBC (Tom Gagnon)
5/16 1 FPB, Acton/Concord - Tom Whelan
5/19 1 Delaney WMA, Stow - Steve Moore+Barbara Volkle
5/20 1 Royalston - Carl Kamp+Alyce Mayo
5/21 3 Florence - Tom Gagnon
5/21 3 Whately - Bill Benner
5/25 1 Barry Yard, Paxton - Elise Barry
5/25 3 Tom Swamp, Petersham - MBC (Tom Gagnon)
6/4 45 Pittsfield - Barbara Spencer
6/6 25+ Mount Greylock - MBC (Tom Gagnon)
6/12 38 Peru - Barbara Spencer
6/13 4-5 Cummington - Barbara Spencer
6/17 5 Peru - Barbara Spencer

6/17 2 Moore SP, Paxton - Elise Barry

Spicebush Swallowtail

5/13 1 S. Shore Ind. Park, Hingham - Erik Nielsen
5/15 1 Holliston - Richard Hildreth
5/19 1 Upton - Cathy Dodd
5/20 1 Brentwood CA, Holliston - Bob Bowker
5/22 4 MHF, Sharon - Madeline Champagne
5/24 4-5 MHWS, Sharon - Sam Jaffe
7/27 6 Wellfleet Bay WS, Wellfleet - Mark Faherty#
8/7 ~25 W Tisbury - Matt Pelikan
8/16 2 Whately - Bill Benner
8/16 2 Muddy Brook, Ware - Brian Klassanos
8/21 3 Stackyard Rd, Rowley - Joe Stichter
8/24 3 GBH, Canton - Sam Jaffe
8/24 1 Felix Neck, Edgartown - Allan Keith
8/25 1 MBWMA, Newbury - Sharon+Joe Stichter
9/2 1 Falmouth - Alison Robb
9/14 1 Muddy Brook, Ware - Brian Klassanos

Mustard White

4/25 11 New Lenox Rd, Lenox - Tom Gagnon+Frank Model
6/6 4 George L Darey WMA, Lenox - Erik Nielsen
7/5 ~24 George L Darey WMA, Lenox - Frank Model
7/18 3 C Berkshire NABA - Tom Tynning#

West Virginia White

4/25 2 Mount Greylock - Tom Gagnon+Frank Model
4/27 2 Chesterfield - Barbara Spencer
4/27 1 Cummington - Barbara Spencer
5/2 5 Sunderland - Steve Moore+Barbara Volkle
5/21 2 Whately - Bill Benner

Cabbage White

3/18 1 Easthampton - Tom Gagnon
3/28 1 E Longmeadow - Karen Parker
4/2 1 Doyle Res. TTOR, Leominster - Russ Hopping
4/9 1 Stichter Yard, Newbury - Joe Stichter
4/9 1 Hyde Park - Paula Chasan
4/10 1 Keith Farm, Chilmark - Allan Keith
4/14 1 Roxbury - Andrew Birch
4/14 1 CST, Northborough - Steve Moore+Barbara Volkle
4/26 24+ W Bridgewater - Don Adams
5/8 21 Moore SP, Paxton - Elise Barry
7/5 46 Appleton Farms, Ipswich - Jim Berry
7/5 600 MPRA, W Newbury - Erik Nielsen
7/15 65 World's End, Hingham - Bob Bowker
7/19 66 Bear Creek WS, Saugus - Jay Shetterly #
8/23 1000+ Katama Farm, Edgartown - Matt Pelikan
8/24 35 High Ridge WMA, Gardner - Carl Kamp
9/13 230 AP Allens Neck, Dartmouth - L. Miller-Donnelly #
9/22 104 Gooseberry Neck, Westport - Madeline Champagne
9/26 40 Wayland CG - MBC (Moore+Volkle)
9/28 67+ APFS, Dartmouth - Madeline Champagne
10/17 1 Muddy Brook, Ware - Brian Klassanos
11/1 1 Ipswich - Jim Berry
11/3 1 Fairhaven - George Gove+Judy Gordon
11/8 1 Ipswich - Jim Berry
11/8 4 AP Allens Neck, Dartmouth - Seth Sweet+Erik Nielsen
11/8 3 Cumberland Farm Fields, Halifax - Tom Murray
11/9 2 Gooseberry Neck, Westport - Madeline Champagne
11/16 1 Northborough - Steve Moore

Clouded Sulphur

4/24 1 Sherborn PL - Bob Bowker
4/26 1 Holliston - Richard Hildreth
4/26 1 Millenium Park, Roxbury - Bob Bowker
4/28 1 Topsfield - Jim Berry
4/29 1 Doyle Res. TTOR, Leominster - Russ Hopping
4/30 1 E Longmeadow - Karen Parker
5/2 12 Millis - Sam Jaffe
5/8 173 Moore SP, Paxton - Elise Barry
5/24 85+ Ipswich - Jim Berry
5/25 15 NCM, Petersham - MBC (Tom Gagnon)
7/12 15+ Williams Land, Harvard - Tom Whelan
7/15 24 World's End, Hingham - Bob Bowker
7/31 25 Moore SP, Paxton - Elise Barry
8/4 12 Windsor - Barbara Spencer
8/23 ~100 Katama Farm, Edgartown - Matt Pelikan
8/30 35 Muddy Brook, Ware - Brian Klassanos
9/7 38 Moore SP, Paxton - Elise Barry
9/8 15 MHF, Sharon - Vin Zollo
10/7 11 S-C TTOR, N Andover - Russ Hopping
10/11 120 AP Allens Neck, Dartmouth - Erik Nielsen #
11/8 4 Cumberland Farm Fields, Halifax - Tom Murray
11/8 60 AP Allens Neck, Dartmouth - Seth Sweet+Erik Nielsen
11/9 2 APFS, Dartmouth - Madeline Champagne
11/16 1 Amherst - Alison Robb

Orange Sulphur

4/29 1 Holliston - Richard Hildreth
4/30 1 Quabbin - Tom Gagnon
5/2 1 Plum Island - Erik Nielsen+Seth Sweet
5/8 1 Keith Farm, Chilmark - Allan Keith
5/16 150+ Katama Farm, Edgartown - Allan Keith
7/15 12 World's End, Hingham - Bob Bowker
7/19 40 Bear Creek WS, Saugus - Jay Shetterly #
7/25 6 Leicester - Dolores Price #
8/23 ~400 Katama Farm, Edgartown - Matt Pelikan
8/24 15 High Ridge WMA, Gardner - Carl Kamp
9/6 9 Northampton CG - MBC (Tom Gagnon)
9/26 15 NAC, Concord - MBC (Moore+Volkle)
9/28 105+ APFS, Dartmouth - Madeline Champagne
10/12 15 Cumberland Farm Fields, Halifax - S. Moore+B.Volkle
11/8 1 Cumberland Farm Fields, Halifax - Tom Murray
11/8 150 AP Allens Neck, Dartmouth S. Sweet+E. Nielsen
11/15 2 Barry Yard, Paxton - Steve Moore#
11/19 3 Katama, Edgartown - Allan Keith
11/21 1 Chilmark - Allan Keith
11/23 1 Plum Island - Brian Cassie
12/2 1 APFS, Dartmouth - Lauren Miller-Donnelly

Cloudless Sulphur

8/26 1 AP Quansett, Dartmouth - Lauren Miller-Donnelly
9/5 1 Westport - Erik Nielsen
9/5 1 Pochet Island, Orleans - Wayne Petersen
9/7 1 Pochet Island, Orleans - Wayne Petersen

Harvester

5/16 1 ML, Arlington/Medford - Renee LaFontaine
5/19 8 ML, Arlington/Medford - Renee LaFontaine
5/25 1 Tom Swamp, Petersham - Bo Zarembo
7/15 1 Oxbow NWR, Harvard - Ron Hamburger
7/22 1 Fowl Meadows, Milton - Bo Zarembo
7/26 17 ML, Arlington/Medford - R. LaFontaine+Marj Rines
8/23 1 FS WMA, Longmeadow - MBC (Tom Gagnon)
8/28 44 ML, Arlington/Medford - R. LaFontaine+Marj Rines
9/4 1 Larkin RA, Northbridge - Bob Bowker

American Copper

4/24 4 Oak Bluffs - Matt Pelikan
4/29 1 Water Tower Field, NP - Sharon Stichter
4/30 1 Weir Hill Res, N Andover - Howard Hoople
5/2 2 Millis - Sam Jaffe
5/4 1 Lamson Rd, Foxborough - Madeline Champagne
5/6 2 Sherborn PL - Bob Bowker
5/8 1 Uxbridge - Richard Hildreth
5/10 11 Chelmsford PL - Tom Whelan
5/11 10 Florence - Tom Gagnon
5/12 13 Boston Hill - Ward Res., N Andover - Russ Hopping
5/19 16 Lamson Rd, Foxborough - Madeline Champagne
5/20 35 Holliston - Bob Bowker
5/21 19 Florence - Tom Gagnon
7/15 42 World's End, Hingham - Bob Bowker
7/19 17 Chilmark - Allan Keith
7/27 98 Wellfleet Bay WS, Wellfleet - Mark Faherty#
9/8 20 MHF, Sharon - Vin Zollo
9/13 18 AP Allens Neck, Dartmouth - Lauren Miller-Donnelly #
10/4 2 Muddy Brook, Ware - Brian Klassanos
10/11 3 AP Allens Neck, Dartmouth - Bob Bowker
10/12 1 Springfield - Karen Parker
10/14 1 Gooseberry Neck, Westport - Madeline Champagne
10/25 1 Rosindale, Boston - Paula Chasan

Bronze Copper

6/7 1 GMNWR, Concord - Sam Jaffe
6/8 2 GMNWR, Concord - Steve Moore+Barbara Volkle
6/17 3 GMNWR, Concord - Bob Bowker
6/20 10 Sedge Meadow, Wayland - Erik Nielsen
9/4 1 Stichter Yard, Newbury - Sharon Stichter
9/24 1 Stichter Yard, Newbury - Sharon Stichter
9/26 4 NAC, Concord - MBC (Moore+Volkle)
9/26 1 Wayland CG - MBC (Moore+Volkle)

Bog Copper

6/28 5 Tully Dam, Athol/Royalston - Carl Kamp
7/5 591 C Franklin NABA - Mark Fairbrother#
7/6 13 Rockport - Doug Savich
7/6 39 Truro NABA - Alison Robb#
7/11 40 Tully Dam, Athol/Royalston - MBC (Frank Model)
7/17 2 Boxford - Russ Hopping
7/25 16 Brewster NABA - Alison Robb#
7/27 6 Gov. Prence Rd, Eastham - Mark Faherty#

Coral Hairstreak

6/27 1 HPM, Woburn - MBC (Erik Nielsen)
7/5 6 HPM, Woburn - Marj Rines#
7/5 2 MBWMA, Newbury - Sharon Stichter#
7/10 5 HPM, Woburn - Bo Zarembo
7/15 7 World's End, Hingham - Bob Bowker
7/15 1 Weir Hill Res, N Andover - Howard Hoople
7/18 21 C Berkshire NABA - Tom Tying#
7/19 8 GBH, Canton - Erik Nielsen
7/25 29 Brewster NABA - Alison Robb#
7/27 22 Wellfleet Bay WS, Wellfleet - Mark Faherty#
8/1 1 Barnstable NABA - Alison Robb#
8/5 2 GBH, Canton - Sam Jaffe

Acadian Hairstreak

7/3 2 HPM, Woburn - Steve Moore+Barbara Volkle
7/4 10 HPM, Woburn - Erik Nielsen
7/5 1 Pittsfield - Frank Model
7/18 24 C Berkshire NABA - Tom Tying#

Edwards' Hairstreak

6/27 3 HPM, Woburn - MBC (Erik Nielsen)
7/3 4 GBH, Canton - Steve Moore+Barbara Volkle
7/5 5 HPM, Woburn - Marj Rines#

7/12 12+ GBH, Canton - Sam Jaffe
7/16 2 E Longmeadow - Karen Parker
7/19 19 MV NABA - Matt Pelikan#
8/1 1 GBH, Canton - Erik Nielsen
8/6 1 Little River Nature Trail, NP - Bo Zaremba

Banded Hairstreak

6/25 2 Champagne yard, Foxborough - Madeline Champagne
6/27 5 HPM, Woburn - MBC (Erik Nielsen)
6/30 dozens GBH, Canton - Sam Jaffe
6/30 1 Sherborn PL - Bob Bowker
7/3 2 Tower Hill, Boylston - Wendy Miller
7/4 32 GBH, Canton - Erik Nielsen
7/5 3 BMB WS, Worcester - Dolores Price
7/5 2 MBWMA, Newbury - Sharon Stichter#
7/6 1 MBWMA, Newbury - Bo Zaremba
7/10 26 Rec. Ctr. field, Dover - Brian Cassie
7/10 2 LaSall Rd, Sutton - Elise Barry+Dolores Price
7/14 3 GITW, Framingham - Madeline Champagne
7/19 1 MV NABA - Matt Pelikan#
7/27 8 Wellfleet Bay WS, Wellfleet - Mark Faherty#
7/31 1 Power Line, Georgetown - Sharon+Joe Stichter
8/1 1 Stichter Yard, Newbury - Sharon Stichter
8/1 2 Stackyard Rd, Rowley - Bo Zaremba
8/1 1 GBH, Canton - Erik Nielsen

Hickory Hairstreak

7/10 1 Rec. Ctr. field, Dover - Brian Cassie

Striped Hairstreak

6/27 2 HPM, Woburn - MBC (Erik Nielsen)
6/30 10+ GBH, Canton - Sam Jaffe
7/9 5 Stackyard Rd, Rowley - Bo Zaremba
7/12 8 Rec. Ctr. field, Dover - Erik Nielsen
7/14 2 Moore SP, Paxton - Elise Barry
7/15 1 CRP TTOR, Needham - Bob Bowker
7/17 1 Fowl Meadows, Milton - Sam Jaffe
7/22 1 Cummington - Barbara Spencer
7/27 4 Wellfleet Bay WS, Wellfleet - Mark Faherty#
7/31 1 Power Line, Georgetown - Sharon+Joe Stichter
8/1 1 MPRA, W Newbury - Bo Zaremba
8/19 1 Stackyard Rd, Rowley - Bo Zaremba

Oak Hairstreak

6/27 1 GBH, Canton - MBC (Erik Nielsen)
6/30 3 GBH, Canton - Sam Jaffe
7/19 1 MV NABA - Matt Pelikan#

Brown Elfin

4/14 2 GBH, Canton - Madeline Champagne
4/15 1 Montague PL - Ron+Sue Cloutier
4/18 3 Sherborn PL - Bob Bowker
4/22 2 Weir Hill Res, N Andover - Howard Hoople
4/24 6 HPM, Woburn - Tom Whelan
4/24 8 Sherborn PL - Bob Bowker
4/26 45 MSSF, Plymouth - Erik Nielsen
4/29 5 G35 Quabbin - Frank Model
5/9 3 Sherborn PL - Bob Bowker
5/10 2 Chelmsford PL - Tom Whelan
5/11 2 MV SF - Matt Pelikan
5/16 5 Crane WMA, Falmouth - Alison Robb
5/23 16 MSSF, Plymouth - MBC (Murray+Nielsen)
5/25 1 NCM, Petersham - MBC (Tom Gagnon)
6/6 1 Wachussets Res, Boylston - Wendy Miller

Hoary Elfin

4/25 1 SF, Edgartown - Matt Pelikan
4/26 14 MSSF, Plymouth - Erik Nielsen

5/10 25 MSSF, Plymouth - Erik Nielsen
5/21 7 MSSF, Plymouth - Frank Model+Erik Nielsen
5/23 8 MSSF, Plymouth - MBC (Murray+Nielsen)

Frosted Elfin

4/24 2 Weir Hill Res, N Andover - H.Hoople+R.Hopping
4/26 2 MSSF, Plymouth - Erik Nielsen
4/27 1 Ward Res, Andover - Howard Hoople
4/28 3 Westfield - Tom Gagnon+Bruce Callahan
5/6 1 Sherborn PL - Bob Bowker
5/10 1 Chelmsford PL - Tom Whelan
5/10 17 Weir Hill Res, N Andover - Howard Hoople
5/11 17 Lamson Rd, Foxborough - Madeline Champagne
5/16 17 FPB, Acton/Concord - Tom Whelan
5/20 25 Weir Hill Res, N Andover - Sharon Stichter #
5/25 23 Lamson Rd, Foxborough - Madeline Champagne
5/25 6 Crane WMA, Falmouth - Alison Robb
6/21 1 Lamson Rd, Foxborough - Madeline Champagne

Henry's Elfin

4/24 25+ Fowl Meadows, Milton - Sam Jaffe
4/24 1 Sherborn PL - Bob Bowker
4/25 5 Great Meadow, Arlington - Tom Whelan
4/26 1 Oxbow NWR, Harvard - Wendy Miller
5/2 2 MBWMA, Newbury - Sharon Sharon+Joe Stichter
5/2 1 Plum Island - Erik Nielsen+Seth Sweet
5/6 5-6 Great Meadow, Arlington - Matt Pelikan
5/10 1 MSSF, Plymouth - Erik Nielsen
5/11 1 MV SF - Matt Pelikan
5/13 2 Tom Swamp, Petersham - Frank Model
5/25 1 Tom Swamp, Petersham - MBC (Tom Gagnon)
5/25 1 Crane WMA, Falmouth - Alison Robb
6/7 1 Brentwood CA, Holliston - Bob Bowker

Bog Elfin

5/25 1 Tom Swamp, Petersham - MBC (Tom Gagnon)

Eastern Pine Elfin

4/16 1 Sherborn PL - Bob Bowker
4/17 2 Oxbow NWR, Harvard - Steve Moore+Frank Model
4/17 1 Lamson Rd, Foxborough - Madeline Champagne
4/22 1 Lexington - Tom Whelan
4/24 2 Fowl Meadows, Milton - Sam Jaffe
4/24 1 MV SF - Matt Pelikan
4/26 2 Holliston - Richard Hildreth
4/29 19 Sherborn PL - Bob Bowker
4/29 5 Ward Res, Andover - Howard Hoople
4/30 69 Quabbin - Tom Gagnon
4/30 2 Chappaquidic, Edgartown - Allan Keith
5/2 4+ E Longmeadow - Karen Parker
5/8 9 Assabet River NWR - Sharon Stichter
5/8 7 Boxford - Russ Hopping
5/11 14 Lamson Rd, Foxborough - Madeline Champagne
5/12 6 Boston Hill - Ward Res., N Andover - Russ Hopping
5/13 12 Tom Swamp, Petersham - Frank Model
5/16 10 Delaney WMA, Stow - MBC (Tom Murray)
5/20 3 Buck Hill, Spencer - Elise Barry
6/1 11 Tully Dam, Royalston - Carl Kamp
6/3 1 Dauphinais Park, Grafton - Dolores Price + JoAnn Mullen
6/7 1 MHF, Sharon - Erik Nielsen
6/7 1 E Longmeadow - Karen Parker
6/7 7 Tully Dam, Athol/Royalston - Carl Kamp
6/8 1 Royalston - Carl Kamp
6/17 1 Sherborn PL - Bob Bowker

Juniper Hairstreak

4/18 1 Sherborn PL - Bob Bowker
5/15 41 Dinosaur Footprints, Holyoke - MBC (Tom Gagnon)
5/19 1 GBH, Canton - Frank Model

White M Hairstreak

- 5/2 1 Whately - Bill Benner
- 6/30 1 GBH, Canton - Sam Jaffe
- 7/12 1 Blackstone Valley NABA - Tom Dodd#
- 9/8 1 MHF, Sharon - Vin Zollo
- 9/13 1 Sylvan Nursery, Westport - Erik Nielsen#
- 9/13 2 AP Allens Neck, Dartmouth - Lauren Miller-Donnelly #

Gray Hairstreak

- 4/30 1 Weir Hill Res, N Andover - Russ Hopping
- 4/30 1 Lamson Rd, Foxborough - Madeline Champagne
- 5/8 1 Assabet River NWR - Sharon Stichter
- 5/11 2 MV SF - Matt Pelikan
- 5/13 1 Sherborn PL - Bob Bowker+Ron Hamburger
- 5/31 1 MV SF - Matt Pelikan
- 7/10 2 LaSell Rd, Sutton - Elise Barry+Dolores Price
- 7/19 1 Polly Hill, W Tisbury - Allan Keith
- 7/27 2 Wellfleet Bay WS, Wellfleet - Mark Faherty#
- 8/6 1 Little River Nature Trail, NP - Bo Zarella
- 8/24 4 GBH, Canton - Sam Jaffe
- 9/6 1 Ward Res, Andover - Howard Hoople
- 9/8 2 MHF, Sharon - Vin Zollo
- 10/11 2 AP Allens Neck, Dartmouth - Erik Nielsen #

Early Hairstreak

- 6/7 1 Mount Greylock - fide Tom Gagnon

Eastern Tailed-Blue

- 4/26 1 FS WMA, Longmeadow - Frank Model #
- 4/28 1 Upton - Cathy Dodd
- 4/29 1 Holliston - Richard Hildreth
- 5/2 1 Amherst - Alison Robb
- 5/2 2 Water Tower Field, NP - Sharon Stichter
- 5/6 2 Lamson Rd, Foxborough - Madeline Champagne
- 5/8 10 Assabet River NWR - Sharon Stichter
- 5/11 21 Florence - Tom Gagnon
- 5/13 23 HPM, Woburn - Renee LaFontaine
- 5/21 13 Lamson Rd, Foxborough - Madeline Champagne
- 5/31 19 MV SF - Matt Pelikan
- 7/10 38 LaSell Rd, Sutton - Elise Barry+Dolores Price
- 7/14 8 Dauphinais Park, Grafton - Wendy Miller+Elise Barry
- 7/19 12 Bear Creek WS, Saugus - Jay Shetterly #
- 8/4 10 Millenium Park, Roxbury - Bob Bowker
- 8/19 25 Holliston - Bob Bowker
- 9/2 12 Weir Hill Res, N Andover - Howard Hoople
- 9/8 17 MHF, Sharon - Vin Zollo
- 9/28 1 Northampton CG - Tom Gagnon
- 10/1 1 MV SF - Jeff Boettner
- 10/4 1 Muddy Brook, Ware - Brian Klassanos
- 10/4 5 HPM, Woburn - Marj Rines
- 10/6 1 Wellfleet Bay WS, Wellfleet - Mark Faherty
- 10/11 1 AP Allens Neck, Dartmouth - Erik Nielsen
- 10/14 1 Vineyard Haven - Matt Pelikan

Spring Azure

- 4/9 1 Delaney WMA, Stow - Madeline Champagne
- 4/9 2 Broadmoor WS, Natick - Bob Bowker+Elyssa Landry
- 4/10 5 Rocky Narrows, Sherborn - Bob Bowker
- 4/10 1 Holliston - Richard Hildreth
- 4/10 1 BMB WS, Worcester - Martha Gach
- 4/24 29 Sherborn PL - Bob Bowker
- 4/24 50++ Fowl Meadows, Milton - Sam Jaffe
- 4/25 50+ Ward Res, Andover - Russ Hopping
- 4/26 538 MSSF, Plymouth - Erik Nielsen
- 4/27 17 Hunsley Hills CA, Rowley - Sharon+Joe Stichter
- 4/27 20 Harwich Conservation Lands - Larry Barry
- 4/30 20 Lamson Rd, Foxborough - Madeline Champagne
- 4/30 46 Quabbin - Tom Gagnon

- 5/2 20+ Juniper Hill, Lexington - Tom Whelan
- 5/4 32 Wenham - Jim Berry
- 5/9 50 Sherborn PL - Bob Bowker
- 5/11 17 MV SF - Matt Pelikan
- 5/23 18 MSSF, Plymouth - MBC (Murray+Nielsen)
- 6/3 5+ Chappaquidic, Edgartown - Allan Keith

Cherry Gall Azure

- 5/10 1 Ward Res, Andover - Howard Hoople
- 5/12 1 W Tisbury - Matt Pelikan
- 5/19 2 GBH, Canton - Frank Model
- 5/25 3 Tom Swamp, Petersham - MBC (Tom Gagnon)
- 5/31 8 MV SF - Matt Pelikan
- 6/6 1 Moran WMA, Windsor - MBC (Tom Gagnon)

Summer Azure

- 6/27 5 HPM, Woburn - MBC (Erik Nielsen)
- 7/4 1 Stichter Yard, Newbury - Sharon Stichter
- 7/4 1 Ipswich - Jim Berry
- 7/4 8 N Worcester NABA - Carl Kamp#
- 7/9 8 Millenium Park, Roxbury - Bob Bowker
- 7/11 9 GNNWR, Sudbury - Sharon Stichter
- 7/18 14 MHF, Sharon - Erik Nielsen
- 7/20 8 W Bridgewater - Don Adams
- 7/22 7 Fowl Meadows, Milton - Bo Zarella
- 7/31 2 Moore SP, Paxton - Elise Barry
- 8/22 1 Muddy Brook, Ware - Brian Klassanos
- 8/24 1 GBH, Canton - Sam Jaffe
- 9/1 2 Windsor - Tom Gagnon+Harvey Allen
- 10/3 2 AP Allens Neck, Dartmouth - Lauren Miller-Donnelly

Silvery Blue

- 5/4 3 NCM, Petersham - Russ Hopping
- 5/16 65 Delaney WMA, Stow - MBC (Tom Murray)
- 5/19 3 Little River Nature Trail, NP - Sharon+Joe Stichter
- 5/20 2 Weir Hill Res, N Andover - H. Hoople+M Champagne
- 5/20 3 Brentwood CA, Holliston - Bob Bowker
- 5/24 4-5 MHWS, Sharon - Sam Jaffe
- 5/25 6 Pump House, Petersham - MBC (Tom Gagnon)
- 6/6 1 Pittsfield - Barbara Spencer
- 6/6 3 Moran WMA, Windsor - MBC (Tom Gagnon)
- 6/6 7 George L Darey WMA, Lenox - Erik Nielsen
- 6/8 5 Royalston - Carl Kamp
- 6/17 1 Moore SP, Paxton - Elise Barry

American Snout

- 4/20 1 G36, Quabbin - Bob Bowker
- 9/5 1 Sylvan Nursery, Westport - Bo Zarella
- 9/19 1 Sylvan Nursery, Westport - MBC (L. Miller-Donnelly)
- 9/19 1 APFS, Dartmouth - MBC (Lauren Miller-Donnelly)

Variegated Fritillary

- 6/1 1 Tully Dam, Royalston - Carl Kamp
- 7/19 1 Northampton - Tom Gagnon
- 7/23 3 Burrage Pond WMA, Halifax/Hanson - Jim Sweeney+Vin Zollo
- 9/2 2 Muddy Brook, Ware - Brian Klassanos

Great Spangled Fritillary

- 6/7 1 Dauphinais Park, Grafton - MBC (Dolores Price)
- 6/13 4 Muddy Brook, Ware - Brian Klassanos
- 6/13 1 E Longmeadow - Karen Parker
- 6/27 1 Weir Hill Res, N Andover - Howard Hoople
- 6/28 2 PL South of Rte. 21, Ludlow - Carl Kamp
- 6/30 5 Sherborn PL - Bob Bowker
- 7/5 21 MBWMA, Newbury - Sharon Stichter#
- 7/10 1 LaSell Rd, Sutton - Elise Barry+Dolores Price
- 7/11 12 MHF, Sharon - Madeline Champagne
- 7/12 32 MHF, Sharon - Erik Nielsen

7/15 24 MHF, Sharon - Madeline Champagne
 7/15 10 Williamstown - Bo Zaremba
 7/17 25+ Graves Farm, Williamsburg - MBC (Bill Benner)
 7/25 14 Leicester - Dolores Price #
 7/26 10 Phillipston - MBC (Carl Kamp)
 8/4 25 Appleton Farms, Ipswich - Sharon Stichter
 8/23 9 Muddy Brook, Ware - Brian Klassanos
 9/24 1 Stichter Yard, Newbury - Sharon Stichter
 9/28 3 Northampton CG - Tom Gagnon
 10/4 1 Horn Pond CG, Woburn - Marj Rines
 10/4 2 Whately - Bill Benner
 10/11 1 Muddy Brook, Ware - Brian Klassanos

Aphrodite Fritillary

6/19 1 E Longmeadow - Karen Parker
 7/11 1 Tully Dam, Athol/Royalston - MBC (Frank Model)
 7/17 1 Graves Farm, Williamsburg - MBC (Bill Benner)
 7/26 1 Phillipston - MBC (Carl Kamp)
 8/3 5 Tully Dam, Royalston - Carl Kamp
 8/16 1 Whately - Bill Benner
 8/30 3 Muddy Brook, Ware - Brian Klassanos
 9/28 1 Northampton CG - Tom Gagnon

Atlantis Fritillary

6/17 2 Peru - Barbara Spencer
 7/10 4 Mount Greylock - Frank Model
 7/11 11 N Berkshire NABA - Tom Tying#
 7/15 1 Peru - Barbara Spencer
 7/18 9 C Berkshire NABA - Tom Tying#
 9/1 1 Savoy - Tom Gagnon+Harvey Allen

Silver-bordered Fritillary

6/1 6 Tully Dam, Royalston - Carl Kamp
 6/1 4 MHF, Sharon - Madeline Champagne
 6/6 3 George L Darey WMA, Lenox - Erik Nielsen
 7/11 8 GNNWR, Sudbury - Sharon Stichter
 8/3 4 Appleton Farms, Ipswich - S And J Stichter
 8/28 2 Tully Dam, Athol/Royalston - Carl Kamp+Alyce Mayo
 9/5 1 Stichter Yard, Newbury - Sharon Stichter
 9/7 16 Muddy Brook, Ware - Brian Klassanos
 9/29 1 Muddy Brook, Ware - Brian Klassanos

Meadow Fritillary

5/7 1 Whately - Bill Benner
 5/26 2 Bullit TTOR, Ashfield - Russ Hopping#
 7/5 1 MMP, Williamstown - Pam Weatherbee
 7/10 19 S Berkshire NABA - Rene Laubach#
 7/11 9 N Berkshire NABA - Tom Tying#
 9/13 4 Williamstown - Bo Zaremba

Harris' Checkerspot

5/30 1 Weir Hill Res, N Andover - Howard Hoople
 6/6 21 Weir Hill Res, N Andover - Howard Hoople
 6/7 3 Milford PL - Bob Bowker
 6/17 2 West Cummington - Barbara Spencer
 6/17 4 MBWMA, Newbury - Sharon Stichter
 7/4 17 N Worcester NABA - Carl Kamp#

Pearl Crescent

5/4 10+ NCM, Petersham - Russ Hopping
 5/8 1 Assabet River NWR - Sharon Stichter
 5/10 1 Chelmsford PL - Tom Whelan
 5/10 1 Wompatuck SP, Hingham - Erik Nielsen
 5/10 5 W Bridgewater - Don Adams
 5/10 1 E Longmeadow - Karen Parker
 5/11 5 Weir Hill Res, N Andover - Russ Hopping
 5/24 30 F&G Fields, Westborough - Wendy Miller
 5/30 50 Weir Hill Res, N Andover - Howard Hoople

5/31 32 Brentwood CA, Holliston - Bob Bowker
 6/1 35 Tully Dam, Royalston - Carl Kamp
 6/2 34 Moore SP, Paxton - Elise Barry
 7/27 85 Sherborn - Bob Bowker
 7/27 37 Wellfleet Bay WS, Wellfleet - Mark Faherty#
 8/1 93 MHF, Sharon - Erik Nielsen
 8/1 172 MPRA, W Newbury - Dorothy Saffarewich
 8/4 40 Appleton Farms, Ipswich - Sharon Stichter
 8/8 100+ Muddy Brook, Ware - Brian Klassanos
 10/12 27 World's End, Hingham - Bob Bowker
 10/14 4 Waring Field, Rockport - Bob Bowker
 10/21 2 Stichter Yard, Newbury - Sharon Stichter
 10/26 2 AP Allens Neck, Dartmouth - Bob Bowker

Baltimore Checkerspot

6/29 6 S-C TTOR, N Andover - Russ Hopping
 6/29 dozens World's End, Hingham - Sam Jaffe
 7/5 2 Williams Land, Harvard - Steve Moore+Barbara Volkle
 7/11 4 W Bridgewater - Don Adams
 7/12 8 Ward Res, Andover - Sharon Stichter
 7/12 2 MPRA, W Newbury - Sharon Stichter
 7/12 1 Muddy Brook, Ware - Brian Klassanos
 7/13 1 Sharon - fide Madeline Champagne
 7/13 1 Stichter Yard, Newbury - Sharon Stichter
 7/17 13 Graves Farm, Williamsburg - MBC (Bill Benner)
 7/19 4 MPRA, W Newbury - Dorothy Saffarewich
 7/19 82 MV NABA - Matt Pelikan#
 7/20 2 Sherborn PL - Bob Bowker
 7/24 1 Muddy Brook, Ware - Brian Klassanos
 7/27 4 Weir Hill Res, N Andover - Howard Hoople
 8/1 1 Stichter Yard, Newbury - Sharon Stichter

Question Mark

5/6 1 Lamson Rd, Foxborough - Madeline Champagne
 6/7 1 Harwich - Larry Barry
 6/15 1 Stichter Yard, Newbury - Sharon Stichter
 7/5 1 Riverbend Farm, Uxbridge - Richard Hildreth
 7/17 2 Fowl Meadows, Milton - Sam Jaffe
 7/19 2 Muddy Brook, Ware - Brian Klassanos
 7/25 2 Leicester - Dolores Price #
 8/1 2 Stichter Yard, Newbury - Sharon Stichter
 9/4 2 Larkin RA, Northbridge - Bob Bowker
 9/19 2 APFS, Dartmouth - MBC (Lauren Miller-Donnelly)
 10/20 1 Oak Bluffs - Lori Shaller
 10/22 1 Sherborn PL - Bob Bowker

Eastern Comma

3/7 1 GBH, Canton - Brian Cassie
 3/8 1 MAS Visual Arts Center, Canton - Cathy Dodd #
 3/8 1 Juniper Hill, Lexington - Tom Whelan
 3/27 3 Mount Tom State Res. - T. Gagnon+B.Callahan
 3/27 4 Bald Hill Res., Foxford - Jeffery Offerman
 4/5 9 Mount Tom State Res. - MBC (Tom Gagnon)
 4/10 4 Rocky Narrows, Sherborn - Bob Bowker
 4/19 6 Oxbow NWR, Harvard - Erik Nielsen+Seth Sweet
 7/5 4 Riverbend Farm, Uxbridge - Richard Hildreth
 7/5 21 C Franklin NABA - Mark Fairbrother#
 7/5 8 N Essex NABA - Sharon Stichter#
 7/19 12 Northampton NABA - Dottie Case#
 10/19 2 AP Allens Neck, Dartmouth - Bob Bowker
 10/20 1 Springfield - Karen Parker
 10/25 2 Broadmoor WS, Natick - Bob Bowker
 10/31 1 Zaremba Yard, NP - Bo Zaremba
 11/8 2 Cumberland Farm Fields, Halifax - Tom Murray
 11/8 1 E Bridgewater - Eddie Giles

Gray Comma

7/15 1 Williamstown - Bo Zaremba

Compton Tortoiseshell

3/14 1 Ward Res, Andover - Howard Hoople
3/15 1 Hingham - Paul Fitzgerald
3/27 1 Sherborn PL - Bob Bowker
4/5 2 Mount Tom State Res. - MBC (Tom Gagnon)
4/9 1 Cummington - Barbara Spencer
4/9 1 Wenham - Chris Leahy
4/16 2 Mount Greylock - Tom Gagnon+Bruce Callahan
4/17 1 Boston Nature Center - Andrew Birch
4/17 1 Noon Hill Res, Medfield - Madeline Champagne
4/23 1 Ipswich - Jim Berry
5/2 1 Bald Hill Res., Boxford - Jim Berry#
7/10 1 Commerce Rd, Hingham - Erik Nielsen
7/13 1 Lamson Rd, Foxborough - Madeline Champagne
10/6 1 Cummington - Barbara Spencer

Mourning Cloak

3/8 1 Holliston - Richard Hildreth
3/14 1 Middlesex Fells, Medford - Lisa Larson
3/15 1 E Longmeadow - Karen Parker
3/15 1 Juniper Hill, Lexington - Tom Whelan
3/18 1 BMB WS, Worcester - Martha Gach
3/18 1 S Dartmouth - Ted Raymond
3/28 2 Marlborough - Betty Wright
4/2 3 Housatonic River Fld, Lenox - Roger Pease
4/14 22 Mount Tom State Res. - Tom Gagnon #
4/16 7 Ward Res, Andover - Howard Hoople
4/17 5 Noon Hill Res, Medfield - Madeline Champagne
4/17 6-8 GBH, Canton - Paula Chasan
4/17 8 Millenium Park, Roxbury - Bob Bowker
4/22 2 Ipswich - Jim Berry
4/24 8 Fowl Meadows, Milton - Sam Jaffe
4/25 5 Rocky Narrows, Sherborn - Bob Bowker
4/26 5 Pratt Hill, Upton - Cathy Dodd
4/28 3 Chilmark - Allan Keith
10/11 1 Windsor Dam, Ware - Josh Rose+Chris Ellison
10/11 1 Muddy Brook, Ware - Brian Klassanos
10/21 1 Cummington - Barbara Spencer
10/22 1 BMB WS, Worcester - Martha Gach
11/8 1 Cumberland Farm Fields, Halifax - Tom Murray
11/9 1 S Dartmouth - Ted Raymond

Milbert's Tortoiseshell

6/6 1 Ballard Hill RA, Lancaster - Tom Murray+Dick Walton
6/13 1 Muddy Brook, Ware - Brian Klassanos
7/19 17 Northampton NABA - Dottie Case#
7/22 1 Bolton Flats - Alan Marble
7/26 2 Phillipston - MBC (Carl Kamp)
8/1 1 Barnstable - Sean Williams
8/16 1 Cummington - Barbara Spencer
10/2 1 Natick - fide Steve Moore

American Lady

4/16 1 Tisbury - Matt Pelikan
4/26 4 MSSF, Plymouth - Erik Nielsen
4/26 1 Holliston - Richard Hildreth
4/27 2 Sagamore Hill, Hamilton - Sharon+Joe Stichter
4/27 1 Tully Dam, Athol - Carl Kamp
4/27 1 Foxborough - Madeline Champagne
5/10 13 MSSF, Plymouth - Erik Nielsen
5/19 10 Little River Nature Trail, NP - Sharon+Joe Stichter
7/5 18 Saffarewich Yard, Newbury - Dorothy Saffarewich
7/19 3 Bear Creek WS, Saugus - Jay Shetterly #
8/16 2 Muddy Brook, Ware - Brian Klassanos
8/24 15 GBH, Canton - Sam Jaffe
9/19 8 APFS, Dartmouth - MBC (Lauren Miller-Donnelly)
10/5 1 Mt A, Cambridge - George Mclean
10/8 1 Hyde Park - Paula Chasan

10/11 13 AP Allens Neck, Dartmouth - Erik Nielsen #
10/12 4 World's End, Hingham - Bob Bowker
11/3 1 Fairhaven - George Gove+Judy Gordon
11/8 1 Zaremba Yard, NP - Bo Zaremba
11/8 1 E Bridgewater - Eddie Giles
11/9 1 APFS, Dartmouth - Madeline Champagne

Painted Lady

4/14 1 W Tisbury - Allan Keith
4/16 1 Ward Res, Andover - Howard Hoople
4/18 1 MV SF - Matt Pelikan
4/26 1 W Bridgewater - Don Adams
4/27 1 S. Shore Ind. Park, Hingham - Erik Nielsen
4/28 1 Medford - Renee LaFontaine
5/10 3 W Bridgewater - Don Adams
7/5 6 Little's Farm, Newbury - Erik Nielsen
7/19 6 Bear Creek WS, Saugus - Jay Shetterly #
7/27 6 Edgartown - Matt Pelikan
9/26 8 Marblehead - Karen Haley
10/19 3 Gooseberry Neck, Westport - Bob Bowker
10/21 1 AP, Dartmouth - Lauren Miller-Donnelly
11/22 1 Edgartown - Allan Keith
12/3 1 Beverly - Diana Davis

Red Admiral

4/16 1 Ward Res, Andover - Howard Hoople
4/23 1 Gethsemany Cemetary, Newton - Bob Bowker
4/26 1 Holliston - Richard Hildreth
4/26 1 Oak Bluffs - Matt Pelikan
5/10 1 W Bridgewater - Don Adams
6/13 2 Stichter Yard, Newbury - Sharon Stichter
7/22 3 Fowl Meadows, Milton - Bo Zaremba
8/2 2 MBWMA, Newbury - Joe Stichter
8/4 2 Millenium Park, Roxbury - Bob Bowker
10/19 3 Gooseberry Neck, Westport - Bob Bowker
10/21 1 Stichter Yard, Newbury - Sharon Stichter
10/26 1 AP Allens Neck, Dartmouth - Bob Bowker
11/18 1 Chilmark - Allan Keith

Common Buckeye

7/12 2 Blackstone Valley NABA - Tom Dodd#
7/14 1 Stichter Yard, Newbury - Sharon Stichter
7/24 1 Lynn Point, Edgartown - Russ Hopping
8/15 1 Squibnocket, Chilmark - Allan Keith
9/13 1 AP Allens Neck, Dartmouth - Lauren Miller-Donnelly #
9/22 1 Gooseberry Neck, Westport - Madeline Champagne
10/10 1 Beach Road, Westport - Madeline Champagne
10/11 2 AP Allens Neck, Dartmouth - Erik Nielsen #

White Admiral

5/31 1 Whately - Bill Benner
6/5 1 Ffolliott's Farm, Ipswich - Sissy Ffolliott
6/6 2 Mount Greylock - MBC (Tom Gagnon)
6/7 1 Lynn Woods - Linda Pivacek
6/7 1 Tully Dam, Athol/Royalston - Carl Kamp
6/7 1 MHF, Sharon - Erik Nielsen
6/13 1 Cummington - Barbara Spencer
6/27 1 E Longmeadow - Karen Parker
7/3 1 Tower Hill, Boylston - Wendy Miller
7/14 1 Windsor - Barbara Spencer
8/14 1 Champagne yard, Foxborough - Madeline Champagne

Red-spotted Purple

5/22 1 MNWS, Marblehead - Erik Nielsen
5/22 1 Plum Island - Erik Nielsen
5/24 1 MBWMA, Newbury - Erik Nielsen
5/25 1 Muddy Brook, Ware - Brian Klassanos
5/26 1 MBWMA, Newbury - Bo Zaremba

5/30 3 Ward Res, Andover - Howard Hoople
 5/30 1 Whately - Bill Benner
 6/1 6 CST, Northborough - Steve Moore
 8/2 3 MBWMA, Newbury - Joe Stichter
 8/5 4-5 GBH, Canton - Sam Jaffe
 8/8 6 MBWMA, Newbury - Sam Jaffe
 8/21 1 Muddy Brook, Ware - Brian Klassanos
 8/21 1 MBWMA, Newbury - Joe Stichter
 8/21 6 Chickatawbut Hill, Milton - Sam Jaffe
 8/24 1 High Ridge WMA, Gardner - Carl Kamp
 8/24 1 GBH, Canton - Sam Jaffe
 8/25 1 MBWMA, Newbury - Sharon+Joe Stichter

Viceroy

5/4 2 NCM, Petersham - Russ Hopping
 5/24 2 MBWMA, Newbury - Erik Nielsen
 5/24 1 F&G Fields, Westborough - Wendy Miller
 5/24 1 Carney Res., Northborough - S.Moore+B.Volkle
 5/25 1 Muddy Brook, Ware - Brian Klassanos
 5/26 4 MBWMA, Newbury - Bo Zarembo
 6/6 3 Wachusett Res, Boylston - Wendy Miller
 6/7 5 Milford PL - Bob Bowker
 6/8 4 Sherborn PL - Bob Bowker
 8/1 3 Tower Hill, Boylston - Wendy Miller
 8/2 10 MBWMA, Newbury - Joe Stichter
 8/3 6 Cass Meadows, Athol - Carl Kamp
 8/4 6 Millenium Park, Roxbury - Bob Bowker
 8/8 6 MBWMA, Newbury - Sam Jaffe
 8/23 18 Muddy Brook, Ware - Brian Klassanos
 9/4 7 Larkin RA, Northbridge - Bob Bowker
 9/19 1 W Bridgewater - Don Adams
 10/4 1 Muddy Brook, Ware - Brian Klassanos
 10/11 1 AP Allens Neck, Dartmouth - Erik Nielsen #
 10/12 1 World's End, Hingham - Bob Bowker

Hackberry Emperor

8/23 6 Forest Park, Springfield - MBC (Tom Gagnon)

Tawny Emperor

7/10 1 S Berkshire NABA - Rene Laubach#

Northern Pearly-Eye

7/3 1 Oxbow NWR, Harvard - Bob Bowker
 7/5 2 Muddy Brook, Ware - Brian Klassanos
 7/11 1 Northborough - Steve Moore+Barbara Volkle
 7/11 1 MHF, Sharon - Madeline Champagne
 7/11 1 Branch Bridge, New Salem - MBC (Frank Model)
 7/18 1 Cumington - Barbara Spencer
 7/19 4 Muddy Brook, Ware - Brian Klassanos
 7/20 1 Windsor - Barbara Spencer
 7/28 2 Ward Res, Andover - Howard Hoople
 8/3 1 Cass Meadows, Athol - Carl Kamp
 8/8 1 Muddy Brook, Ware - Brian Klassanos
 8/16 1 Whately - Bill Benner
 8/20 1 E Longmeadow - Karen Parker

Eyed Brown

6/30 6 Sherborn PL - Bob Bowker
 7/4 8 N Worcester NABA - Carl Kamp#
 7/5 6 C Franklin NABA - Mark Fairbrother#
 7/5 2 Crane Swamp Trail, Northborough/Westborough - Steve
 7/6 1 MBWMA, Newbury - Bo Zarembo
 7/7 6 Branch Bridge, New Salem - Frank Model
 7/15 12-15 Oxbow NWR, Harvard - Ron Hamburger
 7/19 1 Crane Swamp Trail, Northborough/Westborough - MBC
 7/24 1 Muddy Brook, Ware - Brian Klassanos
 7/25 4 CST, Northborough - Steve Moore+Barbara Volkle
 8/20 1 Fowl Meadows, Milton - Sam Jaffe

Appalachian Brown

6/25 1 Lamson Rd, Foxborough - Madeline Champagne
 6/30 22 Sherborn PL - Bob Bowker
 7/3 1 Oxbow NWR, Harvard - Bob Bowker
 7/5 5 Crane Swamp Trail, Northborough/Westborough - Steve
 7/11 1 MHF, Sharon - Madeline Champagne
 7/20 30 Sherborn Gas Line - Bob Bowker
 7/22 5 Fowl Meadows, Milton - Bo Zarembo
 7/25 4 Rocky Narrows, Sherborn - Bob Bowker
 7/26 4 Turner Pond, Dartmouth - Mark Mello+Erik Nielsen
 7/26 1 E Bridgewater - Eddie Giles
 8/7 20 Sherborn PL - Bob Bowker
 8/20 1 Fowl Meadows, Milton - Sam Jaffe
 8/22 1 Muddy Brook, Ware - Brian Klassanos
 8/23 10 Springfield NABA Count - Roger Pease#

Little Wood-Satyr

5/4 10+ NCM, Petersham - Russ Hopping
 5/23 3 Weir Hill Res, N Andover - R.Hopping+H.Hoople
 5/24 2 Boxford - Russ Hopping
 5/30 48 Lamson Rd, Foxborough - Madeline Champagne
 5/31 18 MHF, Sharon - Steve Moore#
 5/31 1 MV SF - Matt Pelikan
 5/31 14 Little River Nature Trail, NP - Bo Zarembo
 6/1 5+ Vineyard Haven - Allan Keith
 6/3 22 Commerce Rd, Hingham - Erik Nielsen
 6/5 75 Lamson Rd, Foxborough - Madeline Champagne
 6/7 26 Little River Nature Trail, NP - Bo Zarembo
 6/7 35 Dauphinais Park, Grafton - MBC (Dolores Price)
 6/8 10 Royalston - Carl Kamp
 6/8 88 Lamson Rd, Foxborough - Madeline Champagne
 6/29 15+ S-C TTOR, N Andover - Russ Hopping
 7/5 34 E Longmeadow - Karen Parker
 7/15 75 World's End, Hingham - Bob Bowker
 7/20 10 W Bridgewater - Don Adams
 8/9 7 E Longmeadow - Karen Parker
 8/14 1 Old Manse TTOR, Concord - Russ Hopping
 8/24 10 GBH, Canton - Sam Jaffe

Common Ringlet

5/13 1 Sherborn PL - Bob Bowker+Ron Hamburger
 5/16 1 Concord - Erik Nielsen
 5/19 2 Delaney WMA, Stow - Steve Moore+Barbara Volkle
 5/20 15 Holliston - Bob Bowker
 5/21 2 Florence - Tom Gagnon
 5/22 6 MHF, Sharon - Madeline Champagne
 5/22 10+ Essex - Jim Berry
 5/24 100+ Carney Res., Northborough - S.Moore+B.Volkle
 6/2 88 Florence - Tom Gagnon
 6/8 150+ Royalston - Carl Kamp
 6/17 15 Peru - Barbara Spencer
 6/17 75 Moore SP, Paxton - Elise Barry
 8/16 75-100 Muddy Brook, Ware - Brian Klassanos
 8/23 50+ Royalston - Carl Kamp
 8/24 30 High Ridge WMA, Gardner - Carl Kamp
 8/28 7 Tully Dam, Athol/Royalston - Carl Kamp+Alyce Mayo
 8/30 2 Granville - Carl Kamp
 9/1 11 Windsor - Tom Gagnon+Harvey Allen
 9/4 2 Larkin RA, Northbridge - Bob Bowker
 9/7 2 Moore SP, Paxton - Elise Barry
 9/7 1 Muddy Brook, Ware - Brian Klassanos
 10/12 3 World's End, Hingham - Bob Bowker

Common Wood-Nymph

7/5 1 MMP, Williamstown - Pam Weatherbee
 7/8 1 E Longmeadow - Karen Parker
 7/10 108 S Berkshire NABA - Rene Laubach#

7/10 1 Rowley - Jim Berry
 7/10 3 W Tisbury - Matt Pelikan
 7/15 50 World's End, Hingham - Bob Bowker
 7/25 97 MHF, Sharon - Erik Nielsen
 7/27 47 Wellfleet Bay WS, Wellfleet - Mark Faherty#
 8/1 24 MPRA, W Newbury - Dorothy Saffarewich
 8/3 26 Tully Dam, Royalston - Carl Kamp
 8/4 36 Appleton Farms, Ipswich - Sharon Stichter
 8/4 35 Windsor - Barbara Spencer
 8/6 26 S-C TOTOR, N Andover - Russ Hopping
 8/11 25 APFS, Dartmouth - Bob Bowker
 8/19 56 Stackyard Rd, Rowley - Bo Zaremba
 8/23 50+ Royalston - Carl Kamp
 9/4 5 Larkin RA, Northbridge - Bob Bowker
 9/6 1 Northampton CG - MBC (Tom Gagnon)
 9/7 4 Moore SP, Paxton - Elise Barry
 9/8 3 MHF, Sharon - Vin Zollo
 9/9 5 Stackyard Rd, Rowley - Bo Zaremba
 9/13 2 AP Allens Neck, Dartmouth - Lauren Miller-Donnelly #
 9/13 6 Muddy Brook, Ware - Brian Klassanos
 9/26 1 Muddy Brook, Ware - Brian Klassanos

Monarch

5/11 1 Florence - Tom Gagnon
 5/13 1 Mt A, Cambridge - Matt Pelikan
 5/15 1 AP Allens Neck, Dartmouth - Lauren Miller
 5/22 1 MHF, Sharon - Madeline Champagne
 5/25 1 NCM, Petersham - MBC (Tom Gagnon)
 5/29 1 Northampton CG - Chris Gentes
 7/15 46 World's End, Hingham - Bob Bowker
 7/17 16 Graves Farm, Williamsburg - MBC (Bill Benner)
 7/19 70 MV NABA - Matt Pelikan#
 7/19 9 Bear Creek WS, Saugus - Jay Shetterly #
 8/1 12 Muddy Brook, Ware - Brian Klassanos
 8/23 ~60 Katama Farm, Edgartown - Matt Pelikan
 8/24 29 High Ridge WMA, Gardner - Carl Kamp
 9/15 15+ Gay Head - Allan Keith
 10/5 529 Gooseberry Neck, Westport - Madeline Champagne
 10/6 12 Marblehead - Karen Haley
 10/8 600+ Gooseberry Neck, Westport - Madeline Champagne
 10/10 200+ Gooseberry Neck, Westport - Madeline Champagne
 11/3 1 Fairhaven - George Gove+Judy Gordon
 11/8 3 Acoaxet - Seth Sweet+Erik Nielsen
 11/8 1 Cumberland Farm Fields, Halifax - Tom Murray
 11/9 1 S Dartmouth - Ted Raymond
 11/9 1 Gooseberry Neck, Westport - Madeline Champagne
 11/19 1 Katama, Edgartown - Allan Keith

Silver-spotted Skipper

5/20 1 Springfield - Carl Kamp+Alyce Mayo
 5/24 1 E Longmeadow - Karen Parker
 5/25 1 NCM, Petersham - MBC (Tom Gagnon)
 5/30 1 Muddy Brook, Ware - Brian Klassanos
 6/2 1 Marlborough - Steve Moore
 6/7 15 Tully Dam, Athol/Royalston - Carl Kamp
 7/5 13 Cherry Hill Res, W Newbury - Erik Nielsen
 7/7 8 Maudslay SP, NP - Bo Zaremba
 7/15 12 Williamstown - Bo Zaremba
 7/25 35 Leicester - Dolores Price #
 7/25 10+ Boxford - Russ Hopping
 7/26 13 New Plainville Rd, New Bedford - M.Mello+E.Nielsen
 7/26 5 Phillipston - MBC (Carl Kamp)
 7/27 8 Wellfleet Bay WS, Wellfleet - Mark Faherty#
 8/1 11 MPRA, W Newbury - Dorothy Saffarewich
 8/23 3 FS WMA, Longmeadow - MBC (Tom Gagnon)
 8/30 1 Muddy Brook, Ware - Brian Klassanos
 9/28 1 Northampton CG - Tom Gagnon

Hoary Edge

6/6 1 Westborough - Steve Moore+Barbara Volkle
 6/27 1 HPM, Woburn - MBC (Erik Nielsen)
 7/5 2 C Franklin NABA - Mark Fairbrother#
 7/5 1 BMB WS, Worcester - Dolores Price
 7/12 1 Blackstone Valley NABA - Tom Dodd#

Southern Cloudwying

6/6 1 GBH, Canton - Sam Jaffe
 6/17 1 MBWMA, Newbury - Sharon Stichter
 6/21 1 Lamson Rd, Foxborough - Madeline Champagne
 6/27 2 HPM, Woburn - MBC (Erik Nielsen)
 6/27 2 GBH, Canton - MBC (Erik Nielsen)
 6/28 1 PL South of Rte. 21, Ludlow - Carl Kamp
 6/30 1 Sherborn PL - Bob Bowker
 7/5 1 FPB, Acton/Concord - Marj Rines
 7/5 3 MHF, Sharon - Sam Jaffe
 7/10 2 LaSell Rd, Sutton - Elise Barry+Dolores Price
 7/14 1 Dauphinais Park, Grafton - Wendy Miller+Elise Barry
 7/18 1 Muddy Brook, Ware - Brian Klassanos
 7/19 1 Chicopee - Carl Kamp

Northern Cloudwying

5/16 1 Groton - Tom Murray
 5/20 2+ Weir Hill Res, N Andover - Sharon Stichter #
 5/24 1 Boxford - Russ Hopping
 5/26 1 Moore SP, Paxton - Elise Barry
 5/31 1 MHF, Sharon - Steve Moore#
 6/3 4 Dauphinais Park, Grafton - Dolores Price + JoAnn Mullen
 6/7 20 Dauphinais Park, Grafton - MBC (Dolores Price)
 6/27 2 HPM, Woburn - MBC (Erik Nielsen)
 7/4 1 N Worcester NABA - Carl Kamp#
 7/10 2 LaSell Rd, Sutton - Elise Barry+Dolores Price

Dreamy Duskywying

5/11 1 Weir Hill Res, N Andover - Russ Hopping
 5/13 2 Sherborn PL - Bob Bowker+Ron Hamburger
 5/15 3 Delaney WMA, Stow - Tom Murray
 5/15 2 Lamson Rd, Foxborough - Madeline Champagne
 5/15 4 Dinosaur Footprints, Holyoke - MBC (Tom Gagnon)
 5/16 6 BMB WS, Worcester - Dolores Price+Elise Barry
 5/16 1 FPB, Acton/Concord - Tom Whelan
 5/24 1 F&G Fields, Westborough - Wendy Miller
 5/25 6 NCM, Petersham - MBC (Tom Gagnon)
 6/6 1 Ballard Hill RA, Lancaster - Tom Murray+Dick Walton
 6/7 6 Dauphinais Park, Grafton - MBC (Dolores Price)
 6/7 2 Milford PL - Bob Bowker
 7/5 1 MBWMA, Newbury - Sharon Stichter#

Sleepy Duskywying

4/25 1 SF, Edgartown - Matt Pelikan
 4/26 27 MSSF, Plymouth - Erik Nielsen
 5/3 1 GBH, Canton - Sam Jaffe
 5/9 1 Sherborn PL - Bob Bowker
 5/11 1 Weir Hill Res, N Andover - S. Moore+B. Volkle
 5/11 11 MV SF - Matt Pelikan
 5/12 1 Marlborough - Steve Moore
 5/19 3 Delaney WMA, Stow - Steve Moore+Barbara Volkle
 5/24 2 Carney Res., Northborough - S.Moore+B.Volkle Volkle
 5/31 1 MV SF - Matt Pelikan
 5/31 1 Brentwood CA, Holliston - Bob Bowker
 6/7 1 Tully Dam, Athol/Royalston - Carl Kamp

Juvenal's Duskywying

4/17 3 Millenium Park, Roxbury - Bob Bowker
 4/24 1 Foxborough - Madeline Champagne
 4/24 2 Weir Hill Res, N Andover - H.Hoople+R.Hopping
 4/24 5 Crane WMA, Falmouth - Alison Robb
 4/24 4 MV SF - Matt Pelikan

4/24 3 Sherborn PL - Bob Bowker
 5/6 14 Great Meadow, Arlington - Matt Pelikan
 5/13 10 HPM, Woburn - Renee LaFontaine
 5/15 100+ Delaney WMA, Stow - Tom Murray
 5/16 17 Delaney WMA, Stow - MBC (Tom Murray)
 5/20 13 Buck Hill, Spencer - Elise Barry
 5/25 40 Tom Swamp, Petersham - MBC (Tom Gagnon)
 5/25 11 NCM, Petersham - MBC (Tom Gagnon)
 5/31 40+ MV SF - Matt Pelikan
 6/8 1 Lamson Rd, Foxborough - Madeline Champagne
 6/8 15 Sherborn PL - Bob Bowker
 6/12 1 E Longmeadow - Karen Parker
 6/17 3 Moore SP, Paxton - Elise Barry
 6/17 2 MBWMA, Newbury - Sharon Stichter

Horace's Duskywing

5/15 1 Natick - Bob Bowker
 5/23 1 MSSF, Plymouth - MBC (Murray+Nielsen)
 5/31 1 MV SF - Matt Pelikan
 7/26 1 New Plainville Rd, New Bedford - M.Mello+E.Nielsen
 8/1 1 Lamson Rd, Foxborough - Madeline Champagne
 8/1 6 GBH, Canton - Erik Nielsen
 8/19 1 Holliston - Bob Bowker
 8/24 2 GBH, Canton - Sam Jaffe

Wild Indigo Duskywing

5/8 3 Assabet River NWR - Sharon Stichter
 5/11 5 Lamson Rd, Foxborough - Madeline Champagne
 5/12 8 Marlborough - Steve Moore
 5/13 5 HPM, Woburn - Renee LaFontaine
 5/15 15 Delaney WMA, Stow - Tom Murray
 5/25 21 Lamson Rd, Foxborough - Madeline Champagne
 5/31 24 Brentwood CA, Holliston - Bob Bowker
 7/23 28 Delaney WMA, Stow - Madeline Champagne
 8/4 25 Millenium Park, Roxbury - Bob Bowker
 8/16 1 Muddy Brook, Ware - Brian Klassanos
 8/16 2 Milford PL - Bob Bowker
 8/19 1 Holliston - Bob Bowker
 8/24 1 GBH, Canton - Sam Jaffe
 8/25 1 MBWMA, Newbury - Sharon+Joe Stichter

Common Checkered-Skipper

9/28 1 Northampton CG - Tom Gagnon
 10/5 1 Northampton CG - Chris Gentes

Common Sootywing

5/9 1 Sherborn PL - Bob Bowker
 5/13 1 Holliston - Richard Hildreth
 5/14 2 Westborough - Steve Moore+Barbara Volkle
 5/16 19 Delaney WMA, Stow - MBC (Tom Murray)
 5/21 2 Florence - Tom Gagnon
 5/24 1 Stichter Yard, Newbury - Sharon Stichter
 5/24 1 Carney Res., Northborough - S.Moore+B.Volkle Volkle
 5/25 10 Buffumville Dam, Charlton - Elise Barry
 5/30 10 Millenium Park, Roxbury - Erik Nielsen
 6/7 6 Dauphinais Park, Grafton - MBC (Dolores Price)
 7/19 2 Bear Creek WS, Saugus - Jay Shetterly #
 8/1 7 Muddy Brook, Ware - Brian Klassanos
 8/9 2 Stichter Yard, Newbury - Sharon Stichter
 8/17 1 Sherborn PL - Bob Bowker
 8/22 1 Brookwood Farm, Canton - Sam Jaffe
 9/6 1 Northampton CG - MBC (Tom Gagnon)

Arctic Skipper

5/20 2 Royalston - Carl Kamp+Alyce Mayo
 5/25 1 Barry Yard, Paxton - Elise Barry
 6/3 12 Moran WMA, Windsor - Tom Gagnon #
 6/6 130 Moran WMA, Windsor - MBC (Tom Gagnon)
 6/8 1 Royalston - Carl Kamp

Least Skipper

6/6 1 Westborough - Steve Moore+Barbara Volkle
 6/7 1 Dauphinais Park, Grafton - MBC (Dolores Price)
 6/7 8 MHF, Sharon - Erik Nielsen
 6/7 1 Cross St., Millbury - Dolore Price+Wendy Miller
 6/8 1 Stichter Yard, Newbury - Sharon Stichter
 6/20 28 Sedge Meadow, Wayland - Erik Nielsen
 8/14 14 Stichter Yard, Newbury - Sharon Stichter
 8/20 12+ Fowl Meadows, Milton - Sam Jaffe
 8/23 110 FS WMA, Longmeadow - MBC (Tom Gagnon)
 8/23 25 Muddy Brook, Ware - Brian Klassanos
 8/24 9 Muddy Brook, Ware - Brian Klassanos
 8/26 12 AP Quansett, Dartmouth - Lauren Miller-Donnelly
 8/28 200 Dunback Meadows, Lexington - Bob Bowker
 9/26 1 NAC, Concord - MBC (Moore+Volkle)
 10/3 1 APFS, Dartmouth - Madeline Champagne

European Skipper

6/7 1 Cross St., Millbury - Dolore Price+Wendy Miller
 6/7 4 MHF, Sharon - Erik Nielsen
 6/7 3 Brentwood CA, Holliston - Bob Bowker
 6/8 2 S-C TTOR, N Andover - Russ Hopping
 6/14 1 Muddy Brook, Ware - Brian Klassanos
 6/17 178 Moore SP, Paxton - Elise Barry
 6/20 65 Sedge Meadow, Wayland - Erik Nielsen
 6/27 63 GBH, Canton - MBC (Erik Nielsen)
 6/29 50+ S-C TTOR, N Andover - Russ Hopping
 7/4 722 N Worcester NABA - Carl Kamp#
 7/7 364 Maudslay SP, NP - Bo Zaremba
 7/17 3 Graves Farm, Williamsburg - MBC (Bill Benner)
 7/19 1 Northampton NABA - Dottie Case#
 7/19 4 Bear Creek WS, Saugus - Jay Shetterly #
 7/22 1 Cummington - Barbara Spencer
 7/25 1 Leicester - Dolores Price #
 7/25 2 Brewster NABA - Alison Robb#

Fiery Skipper

9/19 1 Leblanc yard, Nahant - Janet Leblanc
 9/22 1 Leblanc yard, Nahant - Janet Leblanc

Leonard's Skipper

8/18 1 Florence - Tom Gagnon
 8/20 1 Muddy Brook, Ware - Brian Klassanos
 8/21 2 Muddy Brook, Ware - Brian Klassanos
 8/21 6 Sherborn PL - Bob Bowker
 9/4 5 Larkin RA, Northbridge - Bob Bowker
 9/8 1 Muddy Brook, Ware - Brian Klassanos
 9/8 1 MHF, Sharon - Vin Zollo

Cobweb Skipper

5/8 10+ Assabet River NWR - Sharon Stichter
 5/13 20+ Florence - Frank Model
 5/13 1 HPM, Woburn - Renee LaFontaine
 5/16 8 BMB WS, Worcester - Dolores Price+Elise Barry
 5/21 32 Florence - Tom Gagnon
 5/21 2 BMB WS, Worcester - Steve Moore
 5/23 5 MSSF, Plymouth - MBC (Murray+Nielsen)
 5/25 4 Pump House, Petersham - MBC (Tom Gagnon)
 5/31 1 MV SF - Matt Pelikan
 6/2 1 Florence - Tom Gagnon
 6/3 1 Dauphinais Park, Grafton - Dolores Price + JoAnn Mullen

Indian Skipper

5/21 1 Florence - Tom Gagnon
 5/23 9 MSSF, Plymouth - MBC (Murray+Nielsen)
 5/23 2 Weir Hill Res, N Andover - H.Hoople+R.Hopping
 5/25 3 Lamson Rd, Foxborough - Madeline Champagne
 5/25 1 Pump House, Petersham - MBC (Tom Gagnon)
 5/30 1 Ward Res, Andover - Howard Hoople

5/31 8 Brentwood CA, Holliston - Bob Bowker
6/2 41 Florence - Tom Gagnon
6/6 1 Wachusett Res, Boylston - Wendy Miller
6/7 1 MHF, Sharon - Erik Nielsen
6/8 1 Lamson Rd, Foxborough - Madeline Champagne

Peck's Skipper

5/13 1 Sherborn PL - Bob Bowker+Ron Hamburger
5/16 1 Marblehead - Karen Haley
5/19 1 Lamson Rd, Foxborough - Madeline Champagne
5/19 1 Westwood - Seth Sweet
5/20 1 Weir Hill Res, N Andover - Howard Hoople, Madeline C.
5/25 25+ Sprague St., Foxborough - Madeline Champagne
5/25 22 NCM, Petersham - MBC (Tom Gagnon)
6/2 14 Moore SP, Paxton - Elise Barry
6/7 18 MHF, Sharon - Erik Nielsen
6/7 16 Dauphinais Park, Grafton - MBC (Dolores Price)
6/8 10+ S-C TTOR, N Andover - Russ Hopping
6/8 16 Stichter Yard, Newbury - Sharon Stichter
8/22 10 Brookwood Farm, Canton - Sam Jaffe
9/8 2 Ffolliott's Farm, Ipswich - Sissy Ffolliott
9/8 8 MHF, Sharon - Vin Zollo
9/13 2 Muddy Brook, Ware - Brian Klassanos
9/13 7 AP Allens Neck, Dartmouth - Lauren Miller-Donnelly #
9/18 1 Alewife Res., Cambridge - Fred Bouchard

Tawny-edged Skipper

5/21 1 Westwood - Seth Sweet+Erik Nielsen
5/21 2 Florence - Tom Gagnon
5/24 1 Boxford - Russ Hopping
5/24 1 Oak Bluffs - Matt Pelikan
5/24 1 Carney Res., Northborough - S.Moore+B.Volkle Volkle
5/24 2 E Longmeadow - Karen Parker
6/7 4 Little River Nature Trail, NP - Bo Zaremba
6/7 9 MHF, Sharon - Erik Nielsen
7/5 2 HPM, Woburn - Marj Rines#
7/11 3 Tully Dam, Athol/Royalston - MBC (Frank Model)
8/7 3 Sherborn PL - Bob Bowker
8/22 5 Brookwood Farm, Canton - Sam Jaffe
8/24 4 GBH, Canton - Sam Jaffe
8/30 6 Muddy Brook, Ware - Brian Klassanos
9/6 2 Northampton CG - MBC (Tom Gagnon)
9/7 2 Muddy Brook, Ware - Brian Klassanos
9/7 1 AP Allens Neck, Dartmouth - Erik Nielsen
9/8 2 MHF, Sharon - Vin Zollo

Crossline Skipper

7/4 2 GBH, Canton - Erik Nielsen
7/4 4 N Worcester NABA - Carl Kamp#
7/5 2 C Franklin NABA - Mark Fairbrother#
7/5 1 BMB WS, Worcester - Dolores Price
7/7 1 Maudslay SP, NP - Bo Zaremba
7/12 6 Blackstone Valley NABA - Tom Dodd#
7/15 3 World's End, Hingham - Bob Bowker
7/19 21 MV NABA - Matt Pelikan#
7/25 15 Brewster NABA - Alison Robb#
7/27 15 Wellfleet Bay WS, Wellfleet - Mark Faherty#
8/1 10-11 E Longmeadow - Karen Parker
8/7 2 E Longmeadow - Karen Parker
8/9 2 E Longmeadow - Karen Parker
8/17 5 Sherborn PL - Bob Bowker
8/28 1 Dunback Meadows, Lexington - Bob Bowker

Long Dash

6/2 5 Florence - Tom Gagnon
6/6 9 Little River Nature Trail, NP - Bo Zaremba

6/6 5 George L Darey WMA, Lenox - Erik Nielsen
6/7 4 Dauphinais Park, Grafton - MBC (Dolores Price)
6/7 10 Cross St., Millbury - Dolores Price+Wendy Miller
6/8 2 Sherborn PL - Bob Bowker
7/4 27 N Worcester NABA - Carl Kamp#
7/6 2 MBWMA, Newbury - Bo Zaremba
7/7 4 Maudslay SP, NP - Bo Zaremba
7/12 1 Williams Land, Harvard - Tom Whelan
7/15 5 World's End, Hingham - Bob Bowker
7/19 1 Gay Head - Allan Keith

Northern Broken-Dash

7/3 2 HPM, Woburn - Steve Moore+Barbara Volkle
7/4 1 N Worcester NABA - Carl Kamp#
7/5 1 BMB WS, Worcester - Dolores Price
7/5 4 HPM, Woburn - Marj Rines#
7/5 5 C Franklin NABA - Mark Fairbrother#
7/15 9 World's End, Hingham - Bob Bowker
7/25 15 MHF, Sharon - Erik Nielsen
7/26 12 New Plainville Rd, New Bedford - M.Mello+E.Nielsen
7/27 12 Wellfleet Bay WS, Wellfleet - Mark Faherty#
7/31 12 Power Line, Georgetown - Sharon+Joe Stichter
8/23 9 MBWMA, Newbury - Bo Zaremba
8/25 3 Sherborn PL - Bo Zaremba
8/27 1 Assabet River NWR - Sharon+Joe Stichter
9/4 1 Larkin RA, Northbridge - Bob Bowker

Little Glasswing

6/27 1 HPM, Woburn - MBC (Erik Nielsen)
6/30 2 GBH, Canton - Sam Jaffe
7/3 2 Boxford - Russ Hopping
7/3 1 Tower Hill, Boylston - Wendy Miller
7/3 1 E Longmeadow - Karen Parker
7/5 5 HPM, Woburn - Marj Rines#
7/7 8 Maudslay SP, NP - Bo Zaremba
7/12 33 MHF, Sharon - Erik Nielsen
7/15 11 Williamstown - Bo Zaremba
7/15 5 The Ordway Property, W Newbury - D. Saffarewich
7/18 5 E Longmeadow - Karen Parker
8/5 2 GBH, Canton - Sam Jaffe
8/9 1 E Longmeadow - Karen Parker
8/25 4 Sherborn PL - Bo Zaremba

Sachem

9/13 1 AP Allens Neck, Dartmouth - Lauren Miller-Donnelly #
9/19 1 APFS, Dartmouth - MBC (Lauren Miller-Donnelly)
10/11 2 AP Allens Neck, Dartmouth - Erik Nielsen

Delaware Skipper

7/4 2 N Worcester NABA - Carl Kamp#
7/5 6 C Franklin NABA - Mark Fairbrother#
7/10 6 LaSell Rd, Sutton - Elise Barry+Dolores Price
7/11 52 Concord NABA - Dick Walton#
7/11 7 GNNWR, Sudbury - Sharon Stichter
7/17 3 MBWMA, Newbury - Sharon+Joe Stichter
7/17 2 Boxford - Russ Hopping
7/19 3 Bear Creek WS, Saugus - Jay Shetterly #
7/19 3 Stackyard Rd, Rowley - Bo Zaremba
7/20 2 Sherborn Gas Line - Bob Bowker
7/25 3 CST, Northborough - Steve Moore+Barbara Volkle
7/26 3 Smith Farm DNRT, Dartmouth - M.Mello+E.Nielsen
7/27 6 Wellfleet Bay WS, Wellfleet - Mark Faherty#
7/28 2 MBWMA, Newbury - Bo Zaremba
8/8 1 Muddy Brook, Ware - Brian Klassanos

Mulberry Wing

7/7 1 Branch Bridge, New Salem - Frank Model
7/11 2 Northborough - Steve Moore+Barbara Volkle
7/17 6+ Fowl Meadows, Milton - Sam Jaffe

7/20 15 Sherborn PL - Bob Bowker
7/20 50+ Sherborn Gas Line - Bob Bowker
7/25 15 Milford PL - Erik Nielsen
7/27 4 Sherborn - Bob Bowker
7/31 2 Rockport - Doug Savich
8/1 4 Muddy Brook, Ware - Brian Klassanos
8/1 1 E Longmeadow - Karen Parker
8/1 4 Sprague St., Foxborough - Madeline Champagne
8/3 4 Appleton Farms, Ipswich - S And J Stichter
8/7 5 Sherborn PL - Bob Bowker
8/8 1 Turkey Hill Rd, W Newbury - Sam Jaffe
8/16 1 Muddy Brook, Ware - Brian Klassanos

Hobomok Skipper

5/4 1 NCM, Petersham - Russ Hopping
5/20 2 Weir Hill Res, N Andover - Sharon Stichter #
5/22 2-3 E Longmeadow - Karen Parker
5/24 4 MBWMA, Newbury - Erik Nielsen
5/25 3 Barry Yard, Paxton - Elise Barry
5/25 2 NCM, Petersham - MBC (Tom Gagnon)
5/29 7 E Longmeadow - Karen Parker
5/30 2 Whately - Bill Benner
5/31 8 Little River Nature Trail, NP - Bo Zaremba
6/3 5 Dauphinis Park, Grafton - Dolores Price + JoAnn Mullen
6/7 2 Cross St., Millbury - Dolores Price+Wendy Miller
6/8 1 S-C TTOR, N Andover - Russ Hopping
6/17 2 Peru - Barbara Spencer
6/17 3 MBWMA, Newbury - Sharon Stichter
7/4 1 E Longmeadow - Karen Parker
7/5 1 MHF, Sharon - Sam Jaffe
7/11 2 N Berkshire NABA - Tom Tynning#

Zabulon Skipper

5/25 2 E Longmeadow - Karen Parker
6/6 3 E Longmeadow - Karen Parker
6/12 1 E Longmeadow - Karen Parker
8/15 2 E Longmeadow - Karen Parker
8/23 4 FS WMA, Longmeadow - MBC (Tom Gagnon)
9/5 1 Acoaxet - Mark Lynch+Sheila Carroll
9/5 2 E Longmeadow - Karen Parker
9/6 1 Northampton CG - MBC (Tom Gagnon)
9/7 1 AP Allens Neck, Dartmouth - Erik Nielsen
9/13 1 AP Allens Neck, Dartmouth - L. Miller-Donnelly #
9/13 1 E Longmeadow - Karen Parker
9/14 1 Mark's Meadow, Amherst - Deedee Minear
9/19 1 Sylvan Nursery, Westport - MBC (L.Miller-Donnelly)

Broad-winged Skipper

7/19 6 Bear Creek WS, Saugus - Jay Shetterly #
7/25 3+ CST, Northborough - Steve Moore+Barbara Volkle
7/25 14 Milford PL - Erik Nielsen
7/27 3 Wellfleet Bay WS, Wellfleet - Mark Faherty#
7/28 11 Salisbury - Bo Zaremba
8/4 18 Millenium Park, Roxbury - Bob Bowker
8/8 1 Stichter Yard, Newbury - Sharon Stichter
8/15 1 Oak Bluffs - Matt Pelikan
8/20 1 Fowl Meadows, Milton - Sam Jaffe
8/23 1 Springfield NABA Count - Roger Pease#
8/26 20 APFS, Dartmouth - Lauren Miller-Donnelly
8/28 1 Dunback Meadows, Lexington - Bob Bowker
9/13 2 AP Allens Neck, Dartmouth - Lauren Miller-Donnelly #

Dion Skipper

7/13 4+ Fitzgerald Lake, Florence - Karl Gardner
7/18 1 Hinsdale - Tom Gagnon+Betsy Higgins
7/19 3 Hinsdale - Ron+Sue Cloutier

Black Dash

7/10 1 LaSell Rd, Sutton - Elise Barry+Dolores Price

7/12 4 Muddy Brook, Ware - Brian Klassanos
7/19 1 Crane Swamp Trail, Northborough/Westborough - MBC
7/20 7 Sherborn PL - Bob Bowker
7/20 16 Sherborn Gas Line - Bob Bowker
7/22 1 Fowl Meadows, Milton - Bo Zaremba
7/25 2 Milford PL - Erik Nielsen
7/31 2 Rockport - Doug Savich
8/3 2 Appleton Farms, Ipswich - S And J Stichter

Two-spotted Skipper

7/8 1 worn Branch Bridge, New Salem - Sue+Ron Cloutier

Dun Skipper

5/25 1 E Longmeadow - Karen Parker
7/4 5 N Worcester NABA - Carl Kamp#
7/10 20 S Berkshire NABA - Rene Laubach#
7/12 4 Muddy Brook, Ware - Brian Klassanos
7/12 1 Williams Land, Harvard - Tom Whelan
7/17 7 Graves Farm, Williamsburg - MBC (Bill Benner)
7/19 7 Muddy Brook, Ware - Brian Klassanos
7/19 75 MV NABA - Matt Pelikan#
7/19 26 Northampton NABA - Dottie Case#
7/26 2 E Bridgewater - Eddie Giles
8/2 8 MBWMA, Newbury - Joe Stichter
8/25 2 Sherborn PL - Bo Zaremba
8/25 4 MBWMA, Newbury - Sharon+Joe Stichter
8/26 1 AP Quansett, Dartmouth - Lauren Miller-Donnelly
8/28 1 Tully Dam, Athol/Royalston - Carl Kamp+Alyce Mayo
8/30 2 Muddy Brook, Ware - Brian Klassanos
9/4 2 Larkin RA, Northbridge - Bob Bowker
9/20 1 Whately - Bill Benner

Dusted Skipper

5/21 2 Weir Hill Res, N Andover - Howard Hoople
5/21 3 Lamson Rd, Foxborough - Madeline Champagne
5/21 15 Florence - Tom Gagnon
5/30 19 Lamson Rd, Foxborough - Madeline Champagne
5/30 10 Weir Hill Res, N Andover - Howard Hoople
5/31 6 Little River Nature Trail, NP - Bo Zaremba
5/31 6 MV SF - Matt Pelikan
6/1 7 MHF, Sharon - Madeline Champagne
6/2 53 Florence - Tom Gagnon
6/5 18 Lamson Rd, Foxborough - Madeline Champagne
6/7 8 Dauphinis Park, Grafton - MBC (Dolores Price)
6/7 7 Brentwood CA, Holliston - Bob Bowker
6/8 7 Lamson Rd, Foxborough - Madeline Champagne
6/8 4 Sherborn PL - Bob Bowker
6/21 1 Lamson Rd, Foxborough - Madeline Champagne

Pepper and Salt Skipper

5/16 2 Delaney WMA, Stow - MBC (Tom Murray)
5/20 1 Brentwood CA, Holliston - Bob Bowker
5/22 1 Sprague St., Foxborough - Madeline Champagne
5/25 1 NCM, Petersham - MBC (Tom Gagnon)
5/25 2 Barry Yard, Paxton - Elise Barry
5/30 1 Ward Res, Andover - Howard Hoople
6/6 1 E Longmeadow - Karen Parker
6/6 5 Mount Greylock - MBC (Tom Gagnon)

Common Roadside-Skipper

6/2 1 Brentwood CA, Holliston - Bob Bowker

New early flight dates: Bronze Copper 6/7, Juniper Hairstreak 4/18, American Snout 4/20, Pearl Crescent 5/4, Viceroy 5/4, Little Wood-Satyr – 5/4, Common Ringlet 5/13, Hobomok Skipper 5/4, Zabulon Skipper 5/25

New late flight dates: Henry's Elfin 6/7, Pearl Crescent 10/26, Little Wood-Satyr 8/24, Dun Skipper 9/20

New high counts: Henry's Elfin 25+, Spring Azure 538, Arctic Skipper 130, Mulberry Wing 50+

Abbreviations:

- Various observers; AP - Allens Pond; APFS - Allens Pond Field Station; BMB WS - Broad Meadow Brook Wildlife Sanctuary; CA - Conservation Area; CG - Community Gardens; CST - Crane Swamp Trail; F&G - Fish and Game; FPB - Fort Pond Brook; FS WMA - Fannie Stebbins Wildlife Management Area; GBH - Great Blue Hill; GITW - Garden In the Woods; GMNWR - Great Meadows National Wildlife Refuge; HPM - Horn Pond Mountain; MAS - Massachusetts Audubon Society; MBC - Massachusetts Butterfly Club; MBWMA - Martin Burns Wildlife Management Area; MHF - Moose Hill Farms; MHWS - Moose Hill Wildlife Sanctuary; ML - Mystic Lakes; MPRA - Mill Pond Recreational Area; MSSF - Myles Standish State Forest; Mt A - Mount Auburn Cemetery; MV - Matha's Vineyard; NABA - Butterfly Count; NAC - Nine Acre Corner; NCM - North Common Meadows; NP - Newburyport; NWR - National Wildlife Refuge; PL - Power Lines; RA - Recreational Area; Rec. Ctr. Field - Recycling Center Field; Res - Reservation or Reservoir; S-C TTOR - Stevens-Coolidge Trustees of the Reservations; SF - State Forest; SP - State Park; WMA - Wildlife Management Area; WS - Wildlife Sanctuary.

Submission of Articles, Illustrations, and Season Records

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

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

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