

Massachusetts Butterflies



Spring 2023, No. 60

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NABA-MASSACHUSETTS BUTTERFLY CLUB

Officers:

President: Tom Tynning, 16 Taylor Street, Pittsfield, MA, 01201.

(413) 329-4918 tom@massbutterflies.org

Vice President-East: Martha Gach, 16 Rockwell Drive, Shrewsbury, MA, 01545.

(508) 981-8833 martha@massbutterflies.org

Vice President-West: Carol Ann Duke, Flower Hill Farm Retreat, P O Box 454, Williamsburg, MA, 01096. carol@caroldukeflowers.com

Treasurer: Elise Barry, 363 South Gulf Road, Belchertown, MA, 01007.

(413) 461-1205 elise@massbutterflies.org

Secretary: Barbara Volkle, 400 Hudson Street, Northboro, MA, 01532.

(508) 393-9251 barb620@theworld.com

Staff

Editor, Massachusetts Butterflies: Bill Benner, 53 Webber Road, West Whately, MA, 01039. (413) 320-4422 bill@massbutterflies.org

Records Compiler: Mark Fairbrother, 129 Meadow Road, Montague, MA, 01351-9512. mark@massbutterflies.org

Webmaster: Karl Barry, 363 South Gulf Road, Belchertown, MA, 01007.

(413) 461-1205 karl@massbutterflies.org

www.massbutterflies.org

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Great Spangled Fritillary (*Speyeria cybele*), 9/26/22,
Amherst, MA, © Brian C. Harvey

Cover photo: Sachem female (*Atalopedes campestris*),
8/28/22, Wareham, MA, Andrew Griffith

Wild Privet is Host to Surprising Lep Diversity

by Tor Hansen



In response to a great gardening effort to replenish butterfly diversity, the account in *Mass Butterflies* Fall Edition 2022 No. 59, by Lisa Wolfe and Peter Loshin, about resurgent life at Arlington Butterfly Garden, I offer an observation that is in contrast to what are essentially ornamental favorites. Another look at wild Privet (*Ligustrum* sp.) can redirect our values as to what species can provide nectar for the mobile denizens.

Replacing showy flora by planting butterfly attracting species expands a wide variety of critters that utilize nectar and larval leaf as well. Travel to North Truro and find Highland Road. Head east to the Atlantic Ocean, and continue south past Highland Lighthouse down the winding road to the rolling acres of former Horton's Camping Resort. Just beyond the once flourishing milkweed meadow threaded with perennial pea, cow vetch, Queen Anne's Lace, and of all things prickly pear cactus, is a real crowning oasis for skippers, Coral and Striped Hairstreaks. In yellow cactus blossoms find Dun Skippers and sweat bees! Strangely enough, after the property and trailer campground was transferred to new ownership the crowning milkweed knoll was cut; no more milkweed. Who in his right mind would devastate such an insect haven with round-up weed killer, or pull out the milkweed by hand? Gone was my best example of insect diversity on the entire outer Cape! Perhaps a lone privet will suffice. Can surviving milkweed root runners replenish what was a crown jewel of bio-diversity?

Search for a choice tall privet that is host to a surprising diversity of pollinators, namely: bee, wasp, fly, moth and butterfly. Pioneers who farmed sandy soils of Cape Cod planted Black Locust that grows quickly and replenishes nitrogen, to enrich the sweeping glacial sand plains by a process called nitrogen fixation. Hence Silver-spotted Skippers flourish here as their larvae feed on locust leaves. They ingeniously construct tents, by turning leaves anchored by silken lines, precautions to evade and escape the prowling ichneumon wasps. Across the globe and native to China, there are about 60 species of privet, brought to North America in the proverbial gardener's wheel barrow.

Moths inhabiting the headland meadows and sylvan edges by day go unnoticed. Surprising what nocturnal moths gather at night lights around the cantina, where tourists and campers go for snacks and beverages. Io moths (genus *Automeris*) dazzle us with their concentric circled bulls eyes, sexes dimorphic. In obvious decline today, their spiny urticating larvae follow the leader in single file, in search of choice beach plum leaves, and *Baptisia* weeds as well. Large Cecropia moths with their aposematic eye spots dramatize the need for survival skills. Their frosty blue/green puffy larvae are studded with colorful tubercles, as if on parade and indicative of armor needed to bluff predators at bay. Nocturnal hawk moths are hard to find with a flash light, but searching beach plum by day may reveal large opulent Laurel Sphinx larvae with a long red caudal thorn. Investigate scrub oak that prosper in the sandy dunes for Polyphemus larvae also teaming with decorative tubercles and entrancing emerald green luminosity.

Camper sites are surrounded by sassafras, ideal for Prometheus Moth larvae, and for Spicebush Swallowtail larvae. Some of the original hardwood woodland survived colonial expansion. Whether sassafras was included during F.D. Roosevelt's CCC New Deal reclamation programs is unclear, but the insect fauna testifies to what flora stabilized the barren dunes, integrating with original ground covers like hog cranberry and poverty grass. Sassafras

does well in the protective leeward side from raw winter winds off the Atlantic so near by, and from prevailing westerlies off Cape Cod Bay to the west. The Cape here at North Truro is a sandy peninsula only 2 miles thick, like the wrist of an outstretched arm, withstanding the gradual and sometimes spurious coastal erosion. What an amazing resurgence of life during the rainy pluvials between ice ages that shaped the Cape.

This single huge privet growing near a farmer's apple tree, is surrounded by bayberry, beach plum, grasses, black cherry, widespread milkweed, autumn olive, and now some rapacious tatarian honeysuckle. Reaching 15-18 feet tall in July, the time our group engages in the NABA annual butterfly count, with no tall trees nearby, it is sprawling with a myriad of outstretched creamy white blossoms. We pause here to identify its active bugs buzzing about from flower to flower. Occasional Spicebush Swallowtails hover with the more common Tigers, and maybe a black *polyxenes* quaffs in the day's azure heat. A raft of skippers include: Dun, Northern Broken-Dash, Little Glassywing, Pecks, and golden Delaware, flitting here and there, as honey and bumble bees gather pollen. Sweat bees are active as well as syrphid and green-bottle flies too, adding to the pollinators. Oh my....a Hummingbird Sphinx moth looking like a real hummingbird probes the small flowers.



Coral Hairstreak (*Satyrium titus*) on Privet, Truro, MA, Tor Hansen

We found near the campground a number of smaller privets left to grow wild, and host to much the same fauna. How often one wishes the gardeners elsewhere would stop clipping their privet hedges, so to enrich the pollinating insects that should be flourishing at large. Please connect the isolated habitat mosaics!



Butterflies of Massachusetts Richard W. Hildreth



Q: Where did you grow up?

A: I grew up in Holliston, on the family property. Although I have worked in several countries and visited many others, my official residence has always been Holliston, MA. I can never remember a time when I was not interested in natural history.

Q: What do you have and have had a natural history interest in, besides butterflies?

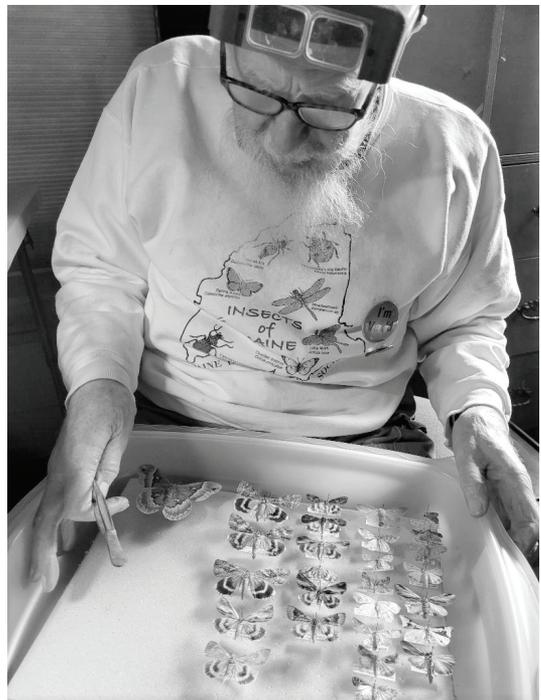
A: All my natural history interests and endeavors have occurred because of books that inspired and or aided me. My first major natural history interest was studying life in ponds and streams. The book involved was *Field Book of Ponds and Streams* by Dr Ann Haven Morgan, G.P. Putnam's Sons, 1930. Many people probably believe that Roger Peterson invented the field guide. What R. T. Peterson did was to produce the first truly useful bird field guide for NE USA - *The Field Guide to Birds*. The Putnam field books

were mostly small sized books, 4"x7" nicely bound, hard cover, manufactured in the USA. The dust jackets were bright yellow. In 1930 there were 21 titles offered. I never owned them all but many were very excellent books. These were the "other field guides". I wondered if the Putnam field books were still offered. 1966 *The New Field Book of Fresh Water Life* was produced by G.P. Putnam's Sons by Elsie B. Klots. By 1966 Putnam was offering 23 books, mostly new (not on the 1930 list). *The New Field Book of Ponds and Streams* deserves some good words to be spoken. The new book is a bit bigger than the old Morgan book (1"x5"x7 1/2). The hard cover is yellow, following tradition. 398 pages.

Q: When and how did you get started butterflying?

A: In 1951 Alexander Klots wrote *A Field Guide to the Butterflies*, one of the earlier Houghton Mifflin field guides. This is probably the most important book of my life. I quickly acquired a copy. Overnight my 3 buddies and I became butterfly fanatics. The Klots book is really amazing and well illustrated. The plates are very good.

Dick sorting through his moth collection specimens that he is donating to the University of Maine.



2022 Season Summary and Records

Mark Fairbrother

The summer of 2022 was again a very hot summer, with several days over 100°, and many in the 90's, and also a very dry one. Although some areas of the state experienced the occasional drenching thunderstorm, they were neither widespread nor sufficient. Almost all normally wet places that I visited on 4J counts were dry, some crunchingly so. Later in August some widespread rains came along to ease the situation somewhat.

The season kicked off on March 15 with Mourning Cloak and Eastern Comma in Andover and Wakefield, respectively, and these two species, along with the first Cabbage Whites, had the place to themselves until the second week in April when those true harbingers of spring – Spring Azures, finally started emerging. As usual, it was nearly Tax Day by the time some real variety started to appear. The first Berkshire Co. report (Mourning Cloak) didn't come in until April 21 from Williamstown. The last really inland reports were of heroic Clouded Sulphurs, one each in Whately (11.5), and Hardwick (11.10). Unsurprisingly, almost all other November sightings were from the east and southeast. The late record for 2022 was an Eastern Comma in Bolton on November 26. Inland, the hot spots were as usual the Fannie Stebbins refuge in Longmeadow, the Sheffield area, and the Montague Plains. In the east, the Worcester/Shrewsbury area, the Newbury area, Woburn, and Westport/Dartmouth attracted much attention, especially in the second half of the year.

Just under 5,200 records were submitted for 2022, continuing the downward trend of recent years: 2021 (5,600), 2020 (7,500), or 2019 (8,800). Several reporters said that this year was the worst they'd ever experienced. The same people said the same thing about last year (2021), and I believed them both times. Each year, observers in MA find the same 102 or so species, and in the end, it comes down to a handful of borderline species to determine our final total for the year. In 2022 we made it to 102 species, just by the scales on a Monarch's wing tips. In 2022, Mustard White, Hessel's Hairstreak, Gray Comma, Milbert's Tortoiseshell, and

Cobweb Skipper went unreported, while West Virginia White, Juniper and Early Hairstreaks, and Harris Checkerspot had only one report each. There was no pronounced influx of southern species into our region in the spring and summer, and no coastal pile up of south-bound migrants in the fall.

If you post sightings on-line (MassLep and Facebook) during the season and then send them to me in a group of records post-season, please indicate which records, if any, were posted earlier, especially on MassLep, and which were not. People submit reports one way or another; either by posting them on the MassLep butterfly list server, sending them directly to me, or posting their sightings on the Facebook page. I'd prefer receiving them in that order, but of course I'll take them anyway I can get them.

Regardless of how observers submit records, please remember to state clearly the date of the actual observation, how many (if more than one) and just where they were seen, keeping in mind I and other readers may not be as familiar with the locations given. Examples of what is submitted each year include "that I saw last Saturday...", there were "lots" of them, and locations given that I have to go to Google to figure out what town we're talking about. Please take a moment to think of these things before hitting the "Send" button. Thank you.

Unfortunately, it's not possible to fit more than a fraction of the total records in the available space. This does not mean that they aren't important; all reported butterflies are logged in the database and help to give a picture of the health of the various butterfly populations in Massachusetts or beyond. Every year we field requests from researchers to use our database of records, for any number of studies. In deciding which records to include in the report and keeping in mind the space restrictions we have, I take the earliest report and the latest, the highest number reported, then try to pick records based on location across the state and throughout the season, and finally by observer. I do give small preference to records from new contributors and/or new locations and after that spread credit around generally. After that I refer back to location and time.

Every year a number of very beautiful photos are posted to MassLep or the Mass Butterflies Facebook page. Working my way through these I was most struck by a late August photo Sarah Lambdin took that was supposed to be of an Eastern Tailed-Blue, but which was amazingly photo-bombed by a passing Least Skipper, whose wings were captured at just the right instant for easy identification.

SWALLOWTAILS

There were two early reports for Giant Swallowtail, then a general emergence starting in late July into early September. As has been the case for the past few years, most reports were of single individuals spread widely across the state, except for the specie's stronghold in the southern Berkshires. There were four reports of Pipevine Swallowtail, two from Wareham and one each from Hanson and Arlington. Black Swallowtail was around from the end of April through October 11th, but generally in ones and twos away from 4J counts. Eastern Tiger had another solid year, with the first reported April 22, and the last October 11. There were 9 reports of Canadian Swallowtail, mostly from May, but with stragglers to August 18. Spicebush Swallowtail was flying from May 5th in Ware until September 23rd in Holliston, and there were 176 reports overall, with the vast majority being of single individuals.

WHITES AND SULPHURS

Cabbage White reports fell back slightly in 2022, to 658. Only one report of West Virginia White was received, from North Adams on 26 June, while Mustard White went unreported. The first Clouded Sulphur appeared in West Tisbury on April 17, and the species remained in flight until the above-mentioned individual on November 11. Orange Sulphur had only scattered reports in May and June, and only from the east. Things got going after that and the species was out until mid-November. The high count was 203 on the Falmouth 4J count on July 9. Cloudless Sulphur reports

in 2022 again dipped from the previous year, with only 6, from the southeast and Martha's Vineyard and from mid-September to mid-October. Little Yellow was found four times, twice in the Newbury area, and once each in Foxboro and at Mt. Wachusett in Princeton!

GOSSAMER-WINGS

Fifteen Harvester records were scattered across the state from the CRV east. The Mystic Lakes remain the place to see multiple Harvesters, with all other locations save one posting lone individuals.

American Copper reports remained fairly common and widespread across the state from late April through late October, while Bog Copper was reported from five locations from Wendell to Truro. Nine Bronze Copper reports were mostly from the known locations in the eastern half of the state. There were only two reports of Acadian Hairstreak, one from a military base in Sandwich, and the other from Williamstown.

The ten Coral Hairstreak records reached from Southern Berkshire Co. to Truro on the Cape, except for an outlier report from Williamstown, Edwards Hairstreak was reported six times from Arlington to Truro. Striped Hairstreak was reported mostly from the western counties, but with the high count of 30 coming from Truro. The more eastern-occurring, baptisia-feeding Frosted Elfin emerged in mid-May and were seen into June, and reports were as usual relatively widespread in the east, while the lupine-feeders in the CRV went unreported. Bog Elfin was reported from Worcester Co. once in 2022. Brown Elfin were on the wing from mid-April through mid-May, with reports from the Montague Plains to Plymouth, and Plymouth posted the best numbers through the flight period. Henry's Elfin reports were centered on the Newbury, Milton and Arlington areas. Hoary Elfins reports (6) were, as usual, limited to Plymouth, Harwich, and MV. Red-banded Hairstreak reports were from the south east and Cape, but they were also found in North Andover, Westwood, and Wayland. There were three reports of Hickory Hairstreak, all from Berk-

shire Co. Two Southern “Oak” Hairstreaks were reported, from East Harwich on July 17 and 19. Three White-M Hairstreak were recorded one each in August, September and October, from the southeast and MV. Hessel’s Hairstreak was unreported and Juniper Hairstreak was only reported once, from Horn Pond Mountain in Woburn. Gray Hairstreaks started appearing in mid-May, and lasted until early October, with all but 1 of the 51 sightings occurring from Worcester Co. eastward. The species went unreported from the Berkshires, while 46 were found on the Falmouth 4J count.. Early Hairstreak had only one sighting in 2022, from North Adams.

Spring Azure seemed about normal, starting with at the end of March, and was well reported through April and May and into early June, with a high count of 117 from Plymouth in mid-April. Only one Cherry Gall Azure report came in, from Martha’s Vineyard. Silvery Blue reports plunged from 27 in 2021 to 7 in 2022, but they ranged from Sheffield to Harwich.

BRUSHFOOTED BUTTERFLIES

Variegated Fritillary was reported six times, from Pittsfield to Concord, with 5 in Lanesboro being the high count. Great Spangled Fritillary did reasonable well in the western two thirds of the state with 74 records, but was absent from the southeast and Cape. Aphrodite Fritillary reports were up this year, with 20, but all from Worcester Co. westward. Again this year there were only two reports of Atlantis Fritillary, both from the Berkshires. Only 8 reports of Silver-bordered Fritillary were received, from the CRV east to Sherborn, with a remarkable 79 from the Northampton 4J count. Reports of Meadow Fritillary doubled from 2 in 2021 to 4 in 2022, with all again from Berkshire Co. Only two reports of Meadow Fritillary were received in 2022, both from the Berkshires. Harris’ Checkerspot was reported only once, from Rutland in early June. The majority of the 29 Baltimore Checkerspot reports were from east of the CRV, with almost all of the western reports coming from 4J counts, and Question Mark also was abroad in ones and twos from Sheffield to Truro. There were

no reports for Gray Comma, while three Compton Tortoiseshell reports came in, all from the Berkshires. Mourning Cloak started flying on March 15 in Andover, and except for pauses in June and August, were reported until October 26 in Williamsburg. Once again in 2022 neither of the Ladies had large years. We had 135 reports of American Ladies from mid-April through November 7th, across the state but for the most part in small numbers, with no fall uptick for migration. Painted Ladies were only reported 10 times, in low numbers, mostly from the east, with no sign of the sometimes-amazing show of south-bound migrants. Of the 37 reports of Com. Buckeye received, all but three were from the eastern half of the state, where a high of 16 were in the Dartmouth area.

Viceroy was around in the usual places all across the state and in decent numbers from late May to early October, while Hackberry Emperor was again reported only once, from Springfield in late August. Tawny Emperor was also reported only once, but this year from the Northampton 4J count. Northern Pearly-eye was reported mostly from the northern half of the state, during a fairly short window (1-18) in July. Appalachian Brown was fairly well reported, across the state, from mid-June to mid-August. Eyed Brown had six reports, again from the Berkshires to the Blackstone Valley. Little Wood-Satyr flew from late May through the end of July, with no real gap, date-wise, between the two varieties, but were only reported three times from Berkshire Co. Com. Ringlet was well reported across the state from mid-May until early-October, and Common Wood-Nymph reports were about average starting at the end of June and continuing through August. Most counts of any size were from the various 4J counts. Monarchs reports started on April 22 in Wellfleet and continued to November 7 in Dartmouth. Although there were occasionally numbers of several hundred individuals, most reports were much lower and there were no large or sustained concentrations along the coast in the fall.

SKIPPERS

There were two Long-tailed Skipper reports in 2022, a slight drop from the previous few years. Both were in Sept., with

individuals in Boxford and Georgetown. Reports of Hoary Edge with seven in 2022 and 7 in 2021 were down slightly from 15 in 2020, and all of the reports came either from Broad Meadow Brook in Worcester or the CRV. Southern Cloudywing was again only reported four times, with reports from Worcester to Falmouth, and Northern Cloudywing were reported 12 times, from late May to mid-July, and from Williamstown to Falmouth. Juvenal's Duskywings were reported 32 times from mid-April through mid-June, from the CRV eastward. Dreamy Duskywing were only reported twice, both from Broad Meadow Brook in Worcester. , Sleepy Duskywing was reported only four times, from Plymouth to Worcester and the Montague Plains. Wild Indigo Duskywing was well reported from mid-May to early September, but all reports were from the CRV eastward. The eight reports of Common Sootywing were scattered from North Adams to Canton. Least Skipper reports were about normal, with the high count of 42 from the No. Essex Co. in late June.

Fiery Skipper reports rose to 19 in 2022, all from Worcester Co. east, with three reports of three each. In 2022, only two reports of Leonard's Skipper were received, and no reports were received for Cobweb Skipper. Six Indian Skipper reports ranged from Rockport to Plymouth to Gill, with the first report on May 22nd and the last on July 4. Peck's Skipper sightings were much tilted towards the eastern half of the state, but that is probably due to lower numbers of observers in the west rather than an actual lack of skippers. Long Dash was reported into mid-July, with two second brood records in late August in Groton. Zabulon Skipper was reported 158 times from across the state, whereas Hobomok Skipper, until a few years ago the fairly common and wide spread *Poanes*, was only seen 19 times. Of 26 Broad-winged Skipper reports, only one was from western Mass: Springfield on July 22. Dion Skipper was reported four times, three from the Berkshires and once from Northampton, Two-spotted Skipper had only one report, while Pepper and Salt Skipper reports were from Worcester Co. east to Raynham, except for one from Mt. Greylock. Sachus reports were from the southeast and Islands. Ocola Skipper was found mostly in the southeast, but also turned up as far afield as

Arlington and Holliston. A Common Roadside Skipper reported on the Central Franklin Co. 4J was unfortunately un-accompanied by a photograph.

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



Silver-spotted Skipper (*Epargyreus clarus*),
8/19/22, Amherst, MA, Bernie Rubenstein



Monarch (*Danaus plexippus*), 9/8/22,
Richmond, MA,
Clare Kelly



Frosted Elf
(*Callophrys irus*),
5/18/22,
Shrewsbury, MA,
Bruce deGraaf

Pipevine Swallowtail

- 7/26 1 Wareham - Andrew Griffith
8/29 1 Wareham - Andrew Griffith
9/1 1 Wareham - Andrew Griffith
9/3 1 Hanson - Deborah Swanson
9/7 1 Arlington Heights - Peter Loshin, Lisa Wolfe

Black Swallowtail

- 4/29 1 Ware - Brian Klassanos
5/11 1 Essex - Marjorie Watson
5/14 2 Crane WMA, Falmouth - Andrew Griffith
5/21 1 Hardwick - Mark Lynch, Sheila Carroll
5/22 2 Deerfield - Mark Fairbrother
5/23 2 Surrenden Farm, Groton - Tom Murray
5/30 1 W Meadows, Northampton - Karl & Elise Barry
6/4 1 Moran WMA, Windsor - Andrew Griffith
6/5 1 Bart's Cobble, Sheffield - Andrew Griffith
6/14 2 Pelham - Danielle Desmarais
6/29 1 Woodsom Farm, Amesbury - Marjorie Watson
7/3 4 N Berkshire NABA - Tom Tynning *et al.*
7/9 9 Concord NABA - Jay Shetterly *et al.*
7/15 15 N Worcester NABA - Wendy Howes *et al.*
7/18 13 Northampton NABA - Mark Fairbrother *et al.*
7/24 3 Rough Meadows WS, Rowley - Marjorie Watson
7/30 2 Bart's Cobble, Sheffield - MBC Trip
8/6 3 Drumlin Farm, Lincoln - Erin Ellingwood
8/14 3 Amherst - Elise & Karl Barry
8/20 1 Cape Cod Organic Farm, Barnstable - Peter Crosson
8/24 6 Middleton - Marjorie Watson
8/29 1 Wareham - Andrew Griffith
9/3 3 Surrenden Farm, Groton - Tom Murray
9/10 1 Arlington Heights - Lisa Wolfe
9/17 1 Chicopee - Peter Redfern
10/9 1 Mount Sugarloaf, Deerfield - Deborah Bentley
10/11 1 Woburn - Tom Murray

Giant Swallowtail

- 6/5 1 Lime Kiln, Sheffield - Andrew Griffith
6/5 1 Bart's Cobble, Sheffield - Andrew Griffith
7/1 1 MHF, Sharon - Brian Cassie
7/22 1 North Adams, Mt. Greylock State

Res. - Gael Hurley

- 7/28 1 West Whately - Bill Benner, Joe Wicinski
7/30 10 Bart's Cobble, Sheffield - MBC Trip
7/30 2 Lime Kiln, Sheffield - MBC Trip
7/30 1 Arlington Heights - Lisa Wolfe
7/31 1 Wilbraham - Danielle Desmarais
8/3 1 S Amherst - Harvey Allen, *et al.*
8/4 1 Foxborough - Brian Cassie
8/6 1 Westwood - Erik Nielsen
8/6 1 Springfield - Bill Benner, Joe Wicinski
8/7 1 Arlington Heights - Lisa Wolfe, Peter Loshin
8/7 1 Amherst - Josh Rose
8/10 1 Sunderland - Bill Benner, Joe Wicinski
8/17 1 Arlington Heights - Lisa Wolfe, Peter Loshin
8/20 2 Williamstown - Pam Weatherbee
8/22 1 Adams - Jeanne Boudreau
8/26 1 Dunstable - Steven Cotter
8/27 1 Arlington Heights - Lisa Wolfe

Tiger Swallowtail (spp)

- 5/1 1 Upton - Tom Dodd
5/14 4 Tom Swamp, Petersham - Dave Small
5/23 4 Belchertown - Josh Rose
5/30 4 Arlington Heights - Lisa Wolfe
6/4 15 North Adams, Mt. Greylock State Res. - Andrew Griffith
6/29 3 MMP, Williamstown - Garry Kessler
7/16 1 Belmont - Fred Bouchard
7/25 3 Wilbraham - Danielle Desmarais
7/31 1 Springfield - Moe O'Connor
8/9 1 Adams Farm, W. Bridgewater - Don Adams
8/18 1 Westport - Tom Dodd
8/21 1 Grafton - Dolores Price, Marvin St. Onge
9/10 1 Arlington Heights - Lisa Wolfe

Eastern Tiger Swallowtail

- 4/22 1 Vineyard Gardens, West Tisbury - Matt Pelikan
4/23 1 CST, Northborough - Steve Moore, Barbara Volkle
5/1 1 Plum Island, Newbury - Marjorie Watson
5/5 1 Holliston - Richard Hildreth
5/11 1 Hardwick - Mark Lynch, Sheila Carroll
5/15 1 Lakeville - Sally Spooner
5/18 7 Petersham - Mark Lynch, Sheila Carroll
5/22 1 Peppercorn Hill, Upton - Madeline Champagne
5/25 16 Ware River Watershed - Mark Lynch, Sheila Carroll

5/29 2 Williamstown - Pam Weatherbee
 5/29 17 Petersham - Mark Lynch, Sheila Carroll
 6/5 5 Williamsburg Flower Hill Farm - Carol Duke
 6/12 10 Erving - Mark Lynch, Sheila Carroll
 6/15 1 Milford - Madeline Champagne
 7/1 5 S Berkshire NABA - Rene Wendell *et al.*
 7/3 34 N Berkshire NABA - Tom Tynning *et al.*
 7/10 19 C Berkshire NABA - Tom Tynning *et al.*
 7/10 1 Truro NABA - Mark Faherty *et al.*
 7/15 7 N Worcester NABA - Wendy Howes *et al.*
 7/18 9 Northampton NABA - Mark Fairbrother *et al.*
 7/22 1 Rowden Yard, Leicester - Mark Rowden
 7/26 1 Ipswich - Zac Peterson
 7/27 5 Adams Farm, W. Bridgewater - Don Adams
 7/30 10 Bart's Cobble, Sheffield - MBC Trip
 8/3 6 S Amherst - Harvey Allen *et al.*
 8/7 3 Sandwich - Peter Crosson
 8/9 1 Champagne yard, Foxborough - Madeline Champagne
 8/14 5 Warren - Mark Lynch, Sheila Carroll
 8/19 1 Wareham - Andrew Griffith
 8/21 1 FS WMA, Longmeadow - MBC Trip
 8/30 1 Dennis - Linnet Tse
 9/1 1 Georgetown Com. Gardens - Marjorie Watson
 9/17 1 Northampton CG - Mark Fairbrother
 10/9 1 Fresh Pond, Cambridge - Fred Bouchard
 10/11 1 Eastern Point, Nahant - Linda Pivacek

Canadian Tiger Swallowtail

5/16 2 Adams Farm, W. Bridgewater - Don Adams
 5/18 1 West Whately - Bill Benner
 5/29 2 Petersham - Mark Lynch, Sheila Carroll
 5/30 1 Rockport - Dave Peterson
 7/3 4 N Berkshire NABA - Tom Tynning *et al.*
 7/10 1 C Berkshire NABA - Tom Tynning *et al.*
 7/23 1 Drumlin Farm, Lincoln - Erin Ellingwood
 8/18 1 Adams Farm, W. Bridgewater - Don Adams

Spicebush Swallowtail

5/5 1 Ware - Brian Klassanos
 5/14 2 Hardwick, Mandell Hill EQLT -

Mark Lynch, Sheila Carroll
 5/16 1 Brockton - Patrick Quinn
 5/17 1 Westhampton - Kate Spencer
 5/24 2 Raynham - Joe Dwelly
 5/27 1 G40, Quabbin - Wendy Howes, Alan Rawle
 6/5 1 Quabog IBA, the Brookfields - Mark Lynch, Sheila Carroll
 6/10 1 Peppercorn Hill, Upton - Madeline Champagne
 6/25 1 N Essex NABA - Howard Hoopole *et al.*
 7/3 17 Sandwich - Garry Kessler *et al.*
 7/9 27 Falmouth NABA - Andrew Griffith *et al.*
 7/10 5 Truro NABA - Mark Faherty *et al.*
 7/17 12 Brewster NABA - Mark Faherty *et al.*
 7/23 1 Upton - Tom Dodd
 7/28 8 Hardwick - Wendy Howes
 8/1 2 Adams Farm, W. Bridgewater - Don Adams
 8/7 1 Sandwich - Peter Crosson
 8/7 10 Nasketucket Bay Reserve, Mattapoisett - Andrew Griffith
 8/10 1 Sunderland - Bill Benner, Joe Wicinski
 8/14 4 Grafton - Dolores Price, Marvin St. Onge
 8/17 3 Adams Farm, W. Bridgewater - Don Adams
 8/20 5 Nasketucket Bay Reserve, Mattapoisett - MBC Trip
 8/21 1 Forest Park, Springfield - MBC Trip
 8/25 2 Leicester - Dolores Price, Marvin St. Onge
 8/26 3 East Harwich - Mark Faherty
 9/1 2 Wellfleet Bay Ws, Wellfleet - Mark Faherty
 9/12 1 Arlington Heights - Lisa Wolfe
 9/16 1 Williamsburg - Bobbin Young
 9/28 1 Holliston - Richard Hildreth

West Virginia White

6/26 1 North Adams, Mt. Greylock State Res. - Josh Rose

Cabbage White

3/18 2 Wilbraham - Danielle
 3/18 1 W Bridgewater - Don Adams
 3/18 1 BMB WS, Worcester - Garry & Annie Kessler
 4/12 13 Adams Farm, W. Bridgewater - Don Adams
 4/15 3 BMB WS, Worcester - Bruce de Graaf
 4/23 14 Holliston - Richard Hildreth
 5/1 20 Adams Farm, W. Bridgewater - Don Adams

5/10 18 Andover - Fred Bouchard
 5/14 10 Wellfleet Bay Ws, Wellfleet - Fred Bouchard
 5/16 20 Adams Farm, W. Bridgewater - Don Adams
 5/20 5 Worcester Airport - Mark Lynch, Sheila Carroll
 5/23 15 Surrenden Farm, Groton - Tom Murray
 5/29 3 Breakneck Hill Conservation Land, Southborough - MBC Trip
 6/5 4 Quabog IBA, the Brookfields - Mark Lynch, Sheila Carroll
 6/8 1 Fall River - Doug Hlousek
 6/13 5 Conte NWR, Hadley - Karl & Elise Barry
 6/15 15 Hardwick - Mark Lynch, Sheila Carroll
 6/18 40 Woodsom Farm, Amesbury - Marjorie Watson
 6/21 3 AP, Dartmouth - Tom & Cathy Dodd
 6/23 16 New Braintree - Mark Lynch, Sheila Carroll
 6/25 112 N Essex NABA - Howard Hoople *et al.*
 6/29 38 Woodsom Farm, Amesbury - Marjorie Watson
 7/1 119 S Berkshire NABA - Rene Wendell *et al.*
 7/3 90 Blackstone Valley NABA - Tom Dodd *et al.*
 7/3 194 N Berkshire NABA - Tom Tynning *et al.*
 7/4 110 C Franklin NABA - Mark Fairbrother *et al.*
 7/9 7 Warren - Mark Lynch, Sheila Carroll
 7/10 27 Truro NABA - Mark Faherty *et al.*
 7/10 87 C Berkshire NABA - Tom Tynning *et al.*
 7/15 61 N Worcester NABA - Wendy Howes *et al.*
 7/17 59 Brewster NABA - Mark Faherty *et al.*
 7/18 148 Northampton NABA - Mark Fairbrother *et al.*
 7/24 7 Middleton - Marjorie Watson
 7/29 4 Holliston - Richard Hildreth
 8/1 18 Plum Island, Newbury - Fred Bouchard
 8/7 15 Grafton - Dolores Price, Marvin St. Onge
 8/20 35 Cape Cod Organic Farm, Barnstable - Peter Crosson
 8/25 30 Groton - Tom Murray
 9/1 13 Holliston - Richard Hildreth
 9/4 12 Holliston - Richard Hildreth

9/8 16 Williamstown - Bo Zaremba
 9/17 13 Holliston - Richard Hildreth
 9/30 1 Hardwick - Mark Lynch, Sheila Carroll
 10/6 11 Nahant - Linda Pivacek
 10/16 3 Wayland - Tom Whelan
 10/26 1 Williamstown - Pam Weatherbee
 11/4 1 Nahant - Linda Pivacek
 11/9 1 Fall River - Doug Hlousek
 11/12 1 Lincoln - Linda Graetz

Clouded Sulphur

4/17 1 W Tisbury - Matt Pelikan
 4/23 1 CST, Northborough - Steve Moore, Barbara Volkle
 5/1 4 Plum Island, Newbury - Marjorie Watson
 5/1 1 West Whately - Bill Benner
 5/10 21 Andover - Fred Bouchard
 5/14 2 Petersham - Mark Lynch, Sheila Carroll
 5/20 8 Worcester Airport - Mark Lynch, Sheila Carroll
 5/24 8 Borden Colony, Raynham - Joe Dwelly
 5/30 1 Rowden Yard, Leicester - Mark Rowden
 6/6 1 Wilbraham - Daniell Desmarais
 6/18 1 Noquochoke Reserve, Dartmouth - MBC Trip
 6/25 25 N Essex NABA - Howard Hoople *et al.*
 6/29 1 MMP, Williamstown - Garry Kessler
 7/1 17 S Berkshire NABA - Rene Wendell *et al.*
 7/3 48 Blackstone Valley NABA - Tom Dodd *et al.*
 7/3 24 N Berkshire NABA - Tom Tynning *et al.*
 7/4 51 C Franklin NABA - Mark Fairbrother *et al.*
 7/9 142 Falmouth NABA - Andrew Griffith *et al.*
 7/10 47 C Berkshire NABA - Tom Tynning *et al.*
 7/15 165 N Worcester NABA - Wendy Howes *et al.*
 7/18 177 Northampton NABA - Mark Fairbrother *et al.*
 8/3 12 S Amherst - Harvey Allen *et al.*
 8/11 12 Callahan SP, Framingham - Madeline Champagne
 8/25 30 Amherst - Harvey Allen *et al.*
 8/29 5 Amesbury - Marjorie Watson
 9/3 22 AP Allens Neck, Dartmouth - MBC Trip
 9/11 35 Hatfield - Mark Fairbrother

9/25 20 Appleton Farms, Ipswich - MBC Trip
 10/6 1 Sheffield - Jonathan Pierce
 10/16 3 Georgetown Com. Gardens - Marjorie
 Watson
 10/22 1 Nahant - Linda Pivacek
 11/5 1 West Whately - Bill Benner
 11/7 6 AP, Dartmouth - Tom Dodd
 11/10 3 Hardwick - Wendy Howes

Orange Sulphur

5/13 1 Plum Island, Newbury - Bo Zaremba
 5/16 1 Adams Farm, W. Bridgewater - Don
 Adams
 5/23 3 Surrenden Farm, Groton - Tom
 Murray
 5/29 3 Breakneck Hill Conservation Land,
 Southborough - MBC Trip
 6/25 5 N Essex NABA - Howard Hoople
et al.
 7/3 11 Blackstone Valley NABA - Tom
 Dodd *et al.*
 7/9 203 Falmouth NABA - Andrew Griffith
et al.
 7/15 12 N Worcester NABA - Wendy Howes
et al.
 7/17 17 Brewster NABA - Mark Faherty
et al.
 7/18 30 Northampton NABA - Mark
 Fairbrother *et al.*
 7/27 1 Adams Farm, W. Bridgewater - Don
 Adams
 7/30 2 Lime Kiln, Sheffield - MBC Trip
 8/12 1 Arlington Heights - Lisa Wolfe, Peter
 Loshin
 8/25 10 Amherst - Harvey Allen *et al.*
 9/1 1 Muddy Brook WMA, Hardwick -
 Wendy Howes
 9/10 7 AP Field Station, Dartmouth - MBC
 Trip
 10/6 1 Sheffield - Jonathan Pierce
 10/7 13 Rock Meadow, Belmont - Fred
 Bouchard
 10/15 3 Appleton Farms, Ipswich - Howard
 Hoople
 10/21 10 Crane WMA, Falmouth - Serge
 Matheny
 11/4 3 Appleton Farms, Ipswich - Marjorie
 Watson
 11/7 1 Melrose - Clio McClatchey
 11/7 5 AP, Dartmouth - Tom Dodd
 11/14 1 Lindentree Fields, Lincoln - Linda
 Graetz

Cloudless Sulphur

9/10 1 Helfand Community Gardens,
 Dartmouth - MBC Trip
 9/14 1 Yarmouth - Joe Dwelly
 9/26 1 Wareham - Andrew Griffith

9/27 1 Wareham - Andrew Griffith
 10/10 1 Gay Head - Matt Pelikan
 10/12 1 Westport - Tom Dodd

Little Yellow

7/10 1 NP - Bo Zaremba
 7/10 1 Newbury - Bo Zaremba
 7/23 1 Foxborough - Brian Cassie
 8/25 1 Mount Wachusets, Princeton -
 Danielle Desmarais

Harvester

5/29 1 Mystic Lakes, Medford - Renee
 LaFontaine
 5/30 1 Ashburnham - Andrew Griffith
 6/12 1 Winchester - Renee LaFontaine
 6/24 7 Mystic Lakes, Medford - Renee
 LaFontaine
 7/4 1 C Franklin NABA - Mark Fairbrother
et al.
 7/10 2 Sherborn - Andrew Griffith
 7/14 15 Mystic Lakes, Medford - Renee
 LaFontaine
 7/18 1 Northampton NABA - Mark
 Fairbrother *et al.*
 7/20 1 Williamsburg - Geoff LeBaron
 7/21 1 Pelham - Danielle Desmarais
 8/27 1 Barre - Mark Lynch, Sheila Carroll
 9/21 1 FS WMA, Longmeadow - Bob
 Gorman

American Copper

4/24 1 Wareham - Andrew Griffith
 5/1 1 Plum Island, Newbury - Marjorie
 Watson
 5/11 3 Montague Plains - Jeremy Coleman
 5/14 20 Crane WMA, Falmouth - Andrew
 Griffith
 5/14 2 High Head Bike Path, Truro - Fred
 Bouchard
 5/22 1 Fall River - Doug Hlousek
 5/29 12 Maudslay SP, NP - Bo Zaremba
 6/2 3 Williamsburg Flower Hill Farm -
 Carol Duke
 6/9 1 Wareham, MAS Great Neck WS -
 Andrew Griffith
 6/25 9 N Essex NABA - Howard Hoople
et al.
 6/30 25 Wareham, MAS Great Neck WS -
 Andrew Griffith
 7/3 56 Blackstone Valley NABA - Tom
 Dodd *et al.*
 7/4 69 C Franklin NABA - Mark Fairbrother
et al.
 7/9 219 Falmouth NABA - Andrew Griffith
et al.
 7/10 8 C Berkshire NABA - Tom Tynning
et al.

7/10 134 Truro NABA - Mark Faherty *et al.*
 7/15 311 N Worcester NABA - Wendy
 Howes *et al.*
 7/18 51 Northampton NABA - Mark
 Fairbrother *et al.*
 8/3 1 Wellfleet Bay Ws, Wellfleet - Mark
 Faherty
 8/14 1 Amherst - Elise & Karl Barry
 8/20 2 Cape Cod Organic Farm, Barnstable -
 Peter Crosson
 8/25 3 Amherst - Harvey Allen *et al.*
 9/8 1 Williamstown - Bo Zaremba
 9/25 2 Appleton Farms, Ipswich - MBC Trip
 10/7 1 Amherst, Wentworth Farm CA - Elise
 & Karl Barry
 10/16 1 Stichter Yard, Newbury - Sharon
 Stichter

Bronze Copper

6/12 1 Medfield - Brian Cassie
 6/14 1 Westborough - Garry Kessler
 6/25 3 N Essex NABA - Howard Hoople
et al.
 9/18 4 Topsfield - Russ Hopping
 9/21 2 FS WMA, Longmeadow - Bob
 Gorman
 9/21 1 Fitch's Bridge Road, Groton - Tom
 Murray
 10/6 3 IRWS, Topsfield - Bo Zaremba
 10/8 1 Brookfield - Wendy Howes, Alan
 Rawle
 10/16 1 Wayland - Tom Whelan

Bog Copper

6/17 2 Townsend, Elm Circle WMA - Tom
 Murray
 6/26 24 Squannacook Brook State Forest -
 Andrew Griffith
 7/4 907 C Franklin NABA - Mark
 Fairbrother *et al.*
 7/7 8 Squannacook Brook State Forest -
 Tom Dodd
 7/10 12 Truro NABA - Mark Faherty *et al.*

Coral Hairstreak

7/11 1 Hatches Harbor, Provincetown - Tor
 Hansen
 7/1 1 S Berkshire NABA - Rene Wendell
et al.
 7/3 1 HPM, Woburn - MBC Trip
 7/3 10 Sandwich - Garry Kessler *et al.*
 7/4 7 C Franklin NABA - Mark Fairbrother
et al.
 7/6 1 HPM, Woburn - Tom Murray
 7/8 2 Shrewsbury - Bruce de Graaf
 7/9 3 Falmouth NABA - Andrew Griffith
et al.

7/10 3 C Berkshire NABA - Tom Tynning
et al.
 7/10 2 Truro NABA - Mark Faherty *et al.*
 7/17 18 Brewster NABA - Mark Faherty
et al.

Acadian Hairstreak

6/29 4 MMP, Williamstown - Garry Kessler
 7/3 5 Sandwich - Garry Kessler *et al.*

Edwards' Hairstreak

6/22 2 Great Meadow, Arlington - Mark
 Rosenstein
 6/25 42 Myles Standish State For. Carver -
 MBC Trip
 6/29 3 MMP, Williamstown - Garry Kessler
 7/3 31 Sandwich - Garry Kessler *et al.*
 7/9 17 Falmouth NABA - Andrew Griffith
et al.
 7/10 2 Truro NABA - Mark Faherty *et al.*
 7/17 1 MSSF, Plymouth - Andrew Griffith

Banded Hairstreak

6/20 2 Amethyst Brook CA, Amherst - Josh
 Rose
 6/22 8 Hampshire County - Bill Benner
 6/23 3 Champagne yard, Foxborough -
 Madeline Champagne
 6/28 2 Maudslay SP, NP - Bo Zaremba
 7/1 43 S Berkshire NABA - Rene Wendell
et al.
 7/3 106 N Berkshire NABA - Tom Tynning
et al.
 7/6 1 Rowden Yard, Leicester - Mark
 Rowden
 7/10 25 C Berkshire NABA - Tom Tynning
et al.
 7/15 1 S-C TTOR, N Andover - Marjorie
 Watson
 7/17 1 Brewster NABA - Mark Faherty *et al.*
 7/18 2 Northampton NABA - Mark
 Fairbrother *et al.*
 7/19 1 East Harwich - Mark Faherty
 7/23 2 Upton - Tom Dodd
 8/6 1 Rowden Yard, Leicester - Mark
 Rowden

Hickory Hairstreak

7/1 11 S Berkshire NABA - Rene Wendell
et al.
 7/3 1 N Berkshire NABA - Tom Tynning *et al.*
 7/13 1 Washington - Gael Hurley

Striped Hairstreak

7/1 1 S Berkshire NABA - Rene Wendell
et al.
 7/3 3 N Berkshire NABA - Tom Tynning
et al.
 7/3 1 Groton - Tom Murray

7/4 1 C Franklin NABA - Mark Fairbrother
et al.
7/7 1 Williamsburg Flower Hill Farm -
Carol Duke
7/9 1 West Whately - Bill Benner
7/10 4 C Berkshire NABA - Tom Tynning
et al.
7/10 30 Truro NABA - Mark Faherty *et al.*
7/14 1 West Whately - Bill Benner
7/16 1 CST, Westborough - MBC Trip
7/17 2 MSSF, Plymouth - Andrew Griffith
7/17 2 Brewster NABA - Mark Faherty *et al.*
7/22 1 North Adams, Mt. Greylock State Res.
- Gael Hurley

Oak Hairstreak

7/17 1 Brewster NABA - Mark Faherty *et al.*
7/17 1 East Harwich - Mark Faherty
7/19 1 East Harwich - Mark Faherty

Brown Elfin

4/13 2 MSSF, Plymouth - Andrew Griffith
4/15 15 MSSF, Plymouth - Andrew Griffith
4/18 5 Grafton - Dolores Price, Marvin
St. Onge
4/20 9 MSSF, Plymouth - Tom Murray
4/23 50 MSSF, Plymouth - Andrew Griffith
4/23 1 Montague Plains - Jeremy Coleman
4/24 1 Montague Plains - Jeremy Coleman
4/30 25 MSSF, Plymouth - MBC Trip
5/1 6 HPM, Woburn - MBC Trip
5/1 8 HPM, Woburn - Andrew Griffith
5/1 1 Plum Island, Newbury - Marjorie
Watson
5/5 3 Montague Plains - Jeremy Coleman
5/15 1 Middlesex Fells, Medford - Erin
Ellingwood
5/22 3 MSSF, Plymouth - Andrew Griffith

Hoary Elfin

4/16 3 MSSF, Plymouth - Andrew Griffith
4/18 2 Correllus State Forest, West Tisbury
- Matt Pelikan
4/20 3 MSSF, Plymouth - Tom Murray
4/23 6 Thompson Fields, Harwich - Joe
Dwelly
4/23 4 MSSF, Plymouth - Andrew Griffith
4/30 7 MSSF, Plymouth - MBC Trip

Frosted Elfin

5/13 1 MSSF, Plymouth - Andrew Griffith
5/14 14 Palmer - Brian Klassanos
5/15 1 Shrewsbury - Bruce de Graaf
5/15 2 Parker Preserve, Grafton - Dolores
Price, Marvin St. Onge
5/18 1 Shrewsbury - Bruce de Graaf
5/20 7 Foxborough - Brian Cassie
5/21 1 Weir Hill Res, N Andover - Bo
Zaremba

5/25 4 Lamson Rd, Foxborough - Madeline
Champagne
5/30 4 Palmer - Danielle
5/30 4 Lamson Rd, Foxborough - Madeline
Champagne
6/11 1 Myles Standish State For. Carver -
Andrew Griffith

Henry's Elfin

4/23 1 Great Meadow, Arlington - Tom
Whelan
5/1 1 Burma Road, Milton - Andrew Griffith
5/1 1 Great Meadow, Arlington - MBC Trip
5/13 1 Plum Island, Newbury - Bo Zaremba

Bog Elfin

5/30 3 Ashburnham - Andrew Griffith

Eastern Pine Elfin

3/18 1 Hingham - Erik Nielsen
4/15 1 MSSF, Plymouth - Andrew Griffith
4/22 1 New Salem - Dave Small
4/22 1 Plum Island, Newbury - Marjorie
Watson
4/23 25 MSSF, Plymouth - Andrew Griffith
4/23 1 Montague Plains - Jeremy Coleman
4/30 2 Upton - Tom Dodd
5/1 21 Myles Standish State For. Carver -
Bo Zaremba
5/10 1 Bart's Cobble, Sheffield - Dolores
Price, Marvin St. Onge
5/12 1 Pike's Bridge Rd, W Newbury - Bo
Zaremba
5/14 6 Palmer - Brian Klassanos
5/18 5 Marion - Andrew Griffith
5/25 7 Ware River Watershed, Barre - Mark
Lynch, Sheila Carroll
5/29 1 Maudslay SP, NP - Bo Zaremba
5/31 1 Scarborough Brook CA, Belchertown
- Elise & Karl Barry
6/5 1 Holliston - Richard Hildreth

Juniper Hairstreak

5/1 1 HPM, Woburn - Andrew Griffith

White M Hairstreak

4/22 1 Freetown - Mark Faherty
8/2 1 Harwich - Mark Faherty
8/20 1 Nasketucket Bay Reserve,
Mattapoisett - MBC Trip
9/10 4 AP Field Station, Dartmouth - MBC
Trip
10/16 1 Correllus State Forest, Edgartown -
Matt Pelikan

Gray Hairstreak

5/13 1 Saugus - Mismo Estrella
5/13 1 Plum Island, Newbury - Bo Zaremba
5/29 1 Crane WMA, Falmouth - Joe Dwelly
6/25 1 N Essex NABA - Howard Hoople
et al.



Black Swallowtail caterpillar (*Papilio polyxenes*) on Lovage, 6/12/22, West Bridgewater, Don Adams

Zabulon Skipper male (*Poanes zabulon*), 8/15/22, Hadley, MA, Bernie Rubenstein



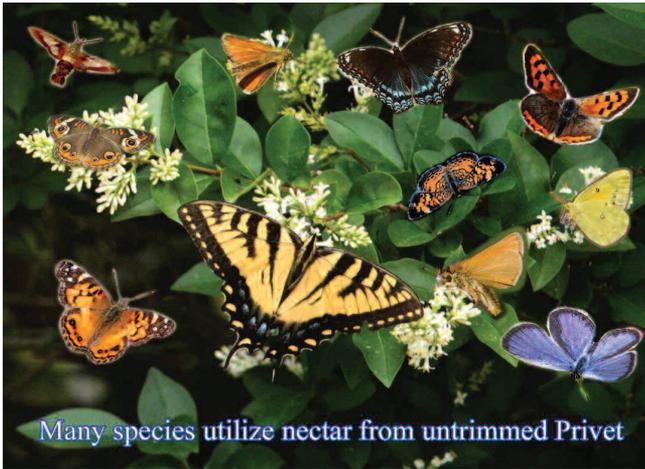
Eyed Brown (*Satyrodes eurydice*), 6/28/22, Washington, MA, Mark Rosenstein



white female Sulphur (*Colias* sp.), 7/3/22, Lincoln, MA, Linda Graetz



Question Mark (*Polygonia interrogatoris*), 8/7/22, Groton, MA, Tom Murray



Montage of species feeding on Privet (*Ligustrum*) flowers, Zach Swift and Tor Hansen

Many species utilize nectar from untrimmed Privet



Camouflage, also called cryptic coloration, is a defense or tactic that organisms use to disguise their appearance, usually to blend in with their surroundings. Animals must have ways to hide from predators, to ensure their survival. There are many ways they camouflage themselves. With butterflies, butterfly color is more than meets the eye. A major feature of butterfly wings is there are two sides, upper (dorsal) and lower (ventral). The wings can contain messages on both sides. The ventral side is what is exposed when the wings are closed. When folded only a bit of the upper wing is exposed, often those two exposed wings have a pattern that is their equivalent of camo-clothes. The purpose seems to befuddle predators - and photographers! The variations in color and pattern are a signal to other butterflies who they are. Kind of like a football game where the players are wearing their team colors. The patterns can be complex and cryptic.

When it comes to butterflies, there is also a whole unseen (by us) element that might be more striking than we can imagine. This is the world of UV light and color perception. UV light is also significant in wing markings - and in various stages of their life cycles.

There are many ways all wild animals conceal themselves to survive. When it comes to those animals that have stripes, it's a head scratcher. Scientists weigh in saying that Tigers and Zebras are so remarkably striped to create an optical illusion that can fool even biting flies. Yet another theory is thermoregulation. The basic idea is that black stripes absorb heat in the morning and warm them up - whereas white stripes reflect more light and could thus help cool Zebras as they graze for hours in the blazing sun. Perhaps we humans should wear striped clothing as well.....

A couple interesting notes, every stripe pattern is unique, no two are alike. Also, much like a person's fingerprints. And, both Zebras and Swallowtail butterflies have tails!



Tiger Swallowtail on Tiger stripes



Zebra Swallowtail on Zebra stripes

Art by Nan Wilson • thistledownstudio.com

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Giant Swallowtail
(*Papilio cresphontes*),
7/30/22, Sheffield, MA,
Garry Kessler

Common Buckeye
(*Junonia coenia*),
7/21/22,
Southboro, MA,
Dawn Vesey



Common
Wood-Nymph
(*Cercyonis
pegale*),
8/12/22,
Georgetown,
MA, Roy Had-
dock



Little Wood-Satyr
(*Megisto cymela*),
7/3/22, Worcester,
MA, Peter Loshin



NABA-MBC
Mt. Greylock trip,
5/29/22
(left to right):
Marvin St. Onge,
Dolores Price, Charlie
Dutelle, Ron Ham-
burger, Wendy Miller,
Jonathan Pierce, Tom
Gagnon, Betsy Hig-
gins, Barbara Volkle,
Steve Moore. Photo by
Tom Tynning.





Black Swallowtail (*Papilio polyxenes*),
7/16/22, Amherst, MA,
© Bryan C. Harvey



Eastern Tiger Swallowtail (*Papilio glaucus*), 6/10/22, Upton, MA,
Madeline Champagne



Least Skipper
(*Ancyloxypha numitor*), 6/6/22,
Shrewsbury, MA,
Bruce deGraaf



Coral Hairstreak (*Satyrrium titus*), 7/3/22, Woburn, MA,
Marjorie Watson



Gray Hairstreak
(*Strymon melinus*), 5/13/22,
Bo Zaremba

7/3 14 Sandwich - Garry Kessler *et al.*
 7/9 46 Falmouth NABA - Andrew Griffith
et al.
 7/17 4 Brewster NABA - Mark Faherty *et al.*
 7/27 1 Crane WMA, Falmouth - Greg Hirth
 8/18 1 Adams Farm, W. Bridgewater - Don
 Adams
 8/21 1 FS WMA, Longmeadow - MBC Trip
 8/29 18 W Hill Dam, Uxbridge - Tom &
 Cathy Dodd
 9/1 7 Wellfleet Bay Ws, Wellfleet - Mark
 Faherty
 9/10 3 HPM, Woburn - Lisa Wolfe
 9/12 1 Arlington Heights - Lisa Wolfe
 9/27 1 Wareham - Andrew Griffith
 9/28 1 Wachusetts Res, Boylston - Bette
 Robo
 10/7 1 New Braintree - Wendy Howes

Red-banded Hairstreak

5/23 1 MSSF, Plymouth - Andrew Griffith
 5/24 1 Raynham - Joe Dwelly
 5/29 1 Crane WMA, Falmouth - Joe Dwelly
 6/18 1 Noquochoke Reserve, Dartmouth -
 BC Trip
 8/7 1 Sandwich - Peter Crosson
 8/7 1 Nasketucket Bay Reserve,
 Mattapoisett - Andrew Griffith
 8/13 1 Boston - Dorian
 8/18 2 Westport - Tom Dodd
 8/20 4 Nasketucket Bay Reserve,
 Mattapoisett - MBC Trip
 8/25 1 LPWS, Barnstable - Mark Faherty
 8/26 1 East Harwich - Mark Faherty
 9/1 1 Wellfleet Bay Ws, Wellfleet - Mark
 Faherty
 9/2 1 S-C TTOR, N Andover - Kim
 DeAndrade
 9/2 1 Falmouth - Greg Hirth
 9/3 9 AP Allens Neck, Dartmouth - MBC
 Trip
 9/4 1 Westwood - Erik Nielsen
 9/10 10 AP Field Station, Dartmouth - MBC
 Trip
 9/10 1 Wayland - Garry & Annie Kessler
 9/11 1 Crane WMA, Falmouth - Andrew
 Griffith
 9/25 1 Crane WMA, Falmouth - Greg Hirth
 10/18 1 Hoft Farm, W Tisbury - Matt Pelikan
 11/4 1 Hingham - Sylvia Schuler

Early Hairstreak

6/4 1 North Adams, Mt. Greylock State Res.
 - Andrew Griffith

Eastern Tailed-Blue

4/23 1 MSSF, Plymouth - Andrew Griffith
 4/30 6 MSSF, Plymouth - MBC Trip

5/1 1 West Whately - Bill Benner
 5/13 2 Plum Island, Newbury - Bo Zaremba
 5/14 3 Crane WMA, Falmouth - Andrew
 Griffith
 5/21 6 Weir Hill Res, N Andover - Bo
 Zaremba
 5/25 1 Nasketucket Bay Reserve,
 Mattapoisett - Andrew Griffith
 5/29 7 Crane WMA, Falmouth - Joe Dwelly
 7/3 33 Blackstone Valley NABA - Tom
 Dodd *et al.*
 7/3 11 N Berkshire NABA - Tom Tynning
et al.
 7/3 16 Sandwich - Garry Kessler *et al.*
 7/8 1 Athol - Dave Small
 7/9 12 Falmouth NABA - Andrew Griffith
et al.
 7/9 13 Concord NABA - Jay Shetterly *et al.*
 7/10 21 C Berkshire NABA - Tom Tynning
et al.
 7/15 13 N Worcester NABA - Wendy Howes
et al.
 7/18 7 Northampton NABA - Mark
 Fairbrother *et al.*
 7/26 3 Muddy Brook WMA, Hardwick -
 Wendy Howes, Alan Rawle
 7/30 2 Bart's Cobble, Sheffield - MBC Trip
 7/30 2 Helfand Community Gardens,
 Dartmouth - Andrew Griffith
 8/3 5 S Amherst - Harvey Allen *et al.*
 8/7 3 Grafton - Dolores Price, Marvin
 St. Onge
 8/14 5 Warren - Mark Lynch, Sheila Carroll
 8/25 9 Amherst - Harvey Allen *et al.*
 9/3 6 AP Allens Neck, Dartmouth - MBC
 Trip
 9/11 6 Dunstable - Tom Murray
 9/21 2 Fitch's Bridge Road, Groton - Tom
 Murray
 9/25 6 Appleton Farms, Ipswich - MBC Trip
 9/28 1 Wachusetts Res, Boylston - Bette
 Robo
 10/6 1 Sheffield - Jonathan Pierce
 10/7 1 Pelham - Tom Murray
 10/18 1 Hoft Farm, W Tisbury - Matt Pelikan
 10/19 1 S Hadley - Erica Schwalm

Spring Azure

4/8 1 Oxbow NWR, Harvard - Garry &
 Annie Kessler
 4/11 3 Laughing Brook WS, Hampden - Erin
 Haugh
 4/11 20 MSSF, Plymouth - Andrew Griffith
 4/13 2 Fall River - Tom Dodd
 4/15 7 G45 Quabbin - Wendy Howes, Alan
 Rawle
 4/15 35 MSSF, Plymouth - Andrew Griffith

4/16 117 MSSF, Plymouth - Andrew Griffith
 4/22 5 Rowley - Marjorie Watson
 4/30 60 MSSF, Plymouth - MBC Trip
 5/1 38 Myles Standish State For. Carver -
 Bo Zaremba
 5/5 18 MBWMA, Newbury - Bo Zaremba
 5/10 4 Bart's Cobble, Sheffield - Dolores
 Price, Marvin St. Onge
 5/14 10 Tom Swamp, Petersham - Dave
 Small
 5/15 5 Walpole - MBC Trip
 5/15 1 Middlesex Fells, Medford - Erin
 Ellingwood
 5/15 7 Parker Preserve, Grafton - Dolores
 Price, Marvin St. Onge
 5/18 10 Hopkinton - Madeline Champagne
 5/20 5 Holliston - Richard Hildreth
 5/25 2 Lamson Rd, Foxborough - Madeline
 Champagne
 5/25 6 Marion - Andrew Griffith
 5/27 1 G40, Quabbin - Wendy Howes, Alan
 Rawle
 5/29 3 Breakneck Hill Conservation Land,
 Southborough - MBC Trip
 5/29 2 Petersham - Mark Lynch, Sheila
 Carroll
 6/7 2 BMB WS, Worcester - Dolores Price,
 Marvin St. Onge
 7/2 2 Cedar Hill, Northborough - Steve
 Moore, Barbara Volkle
 7/16 1 Ware River Watershed, Barre - Mark
 Lynch, Sheila Carroll

'Cherry Gall' Azure
 5/16 2 W Tisbury - Matt Pelikan

'Summer' Azure
 5/7 1 Gloucester - Dave Peterson
 5/23 1 Surrenden Farm, Groton - Tom
 Murray
 6/5 3 Bart's Cobble, Sheffield - Andrew
 Griffith
 6/19 1 BMB WS, Worcester - Andrew
 Griffith
 6/27 1 Wilbraham - Danielle Desmarais
 7/3 10 Blackstone Valley NABA - Tom
 Dodd et al
 7/3 8 N Berkshire NABA - Tom Tynning
et al.
 7/10 15 C Berkshire NABA - Tom Tynning
et al.
 7/15 25 N Worcester NABA - Wendy Howes
et al.
 7/17 5 Brewster NABA - Mark Faherty *et al.*
 7/18 9 Northampton NABA - Mark
 Fairbrother *et al.*
 7/19 1 Williamsburg Flower Hill Farm -
 Carol Duke

7/30 1 Bart's Cobble, Sheffield - MBC Trip
 8/7 1 Sandwich - Peter Crosson
 8/28 1 Groton - Tom Murray
 9/3 1 AP Allens Neck, Dartmouth - MBC
 Trip
 10/22 1 Arlington Heights - Lisa Wolfe

Azure Sp.

4/16 120 MSSF, Plymouth - Andrew Griffith
 4/23 50 MSSF, Plymouth - Andrew Griffith
 5/1 25 Burma Road, Milton - Andrew
 Griffith
 5/13 16 Plum Island, Newbury - Bo Zaremba
 5/14 1 Palmer - Brian Klassanos
 5/29 2 Crane WMA, Falmouth - Joe Dwelly
 6/30 1 Arlington Heights - Lisa Wolfe

Silvery Blue

5/21 2 Hennessey Property, Grafton - Dolores
 Price, Marvin St. Onge
 5/23 20 Surrenden Farm, Groton - Tom
 Murray
 5/29 7 Breakneck Hill Conservation Land,
 Southborough - MBC Trip
 5/30 2 W Meadows, Northampton - Karl &
 Elise Barry
 5/30 2 Westford - Jason Forbes
 6/5 1 Lime Kiln, Sheffield - Andrew Griffith
 6/11 1 East Harwich - Larry Barry

Variiegated Fritillary

7/10 2 C Berkshire NABA - Tom Tynning
et al.
 7/15 2 N Worcester NABA - Wendy Howes
et al.
 8/13 1 Verrill Farm, Concord - Rosemary
 Mosco
 9/10 1 Concord - Garry & Annie Kessler
 9/10 1 October Mountain SF, Washington -
 Gael Hurley
 9/17 1 Northampton CG - Mark Fairbrother
 9/21 5 Lanesborough - Gael Hurley

Great Spangled Fritillary

6/15 6 Hardwick - Mark Lynch, Sheila
 Carroll
 6/18 1 CST, Westborough - Steve Moore,
 Barbara Volkle
 6/20 5 Cummington - Mark Fairbrother
 6/21 7 MBWMA, Newbury - Marjorie
 Watson
 6/25 10 N Essex NABA - Howard Hoople
et al.
 6/29 6 MMP, Williamstown - Garry Kessler
 7/1 58 S Berkshire NABA - Rene Wendell
et al.
 7/3 14 Blackstone Valley NABA - Tom
 Dodd *et al.*

7/3 89 N Berkshire NABA - Tom Tynning
et al.
7/4 29 C Franklin NABA - Mark Fairbrother
et al.
7/6 16 MBWMA, Newbury - Marjorie
Watson
7/10 57 C Berkshire NABA - Tom Tynning
et al.
7/10 11 Leicester - Dolores Price, Marvin
St. Onge
7/15 14 Hardwick - Mark Lynch, Sheila
Carroll
7/15 52 N Worcester NABA - Wendy Howes
et al.
7/18 51 Northampton NABA - Mark
Fairbrother *et al.*
7/24 1 Rough Meadows WS, Rowley -
Marjorie Watson
7/30 7 Bart's Cobble, Sheffield - MBC Trip
8/18 6 Williamstown - Pam Weatherbee
8/26 9 Hardwick - Mark Lynch, Sheila
Carroll
8/29 1 Amesbury - Marjorie Watson
9/8 9 Williamstown - Bo Zaremba
9/15 3 Hardwick - Wendy Howes
10/6 1 Belchertown - Elise & Karl Barry

Aphrodite Fritillary

7/1 4 S Berkshire NABA - Rene Wendell
et al.
7/3 2 Blackstone Valley NABA - Tom Dodd
et al.
7/3 1 N Berkshire NABA - Tom Tynning
et al.
7/6 1 Ashfield - Joan Gemme
7/10 1 Leicester - Dolores Price, Marvin
St. Onge
7/15 42 N Worcester NABA - Wendy Howes
et al.
7/16 12 Ware River Watershed - Mark Lynch,
Sheila Carroll
8/15 3 Williamsburg Flower Hill Farm -
Carol Duke
9/1 4 Muddy Brook WMA, Hardwick -
Wendy Howes
9/16 1 Muddy Brook WMA, Hardwick -
Wendy Howes, Alan Rawle

Atlantis Fritillary

6/20 1 Cummington - Mark Fairbrother
7/10 17 C Berkshire NABA - Tom Tynning
et al.

Silver-bordered Fritillary

5/30 4 Sherborn - Andrew Griffith
6/5 1 Waring Field, Rockport - Dave
Peterson

6/25 2 N Essex NABA - Howard Hoople
et al.
7/10 5 Sherborn - Andrew Griffith
7/10 1 Leicester - Dolores Price, Marvin
St. Onge
7/15 1 N Worcester NABA - Wendy Howes
et al.
7/18 79 Northampton NABA - Mark
Fairbrother *et al.*
8/3 6 S Amherst - Harvey Allen *et al.*

Meadow Fritillary

7/1 3 S Berkshire NABA - Rene Wendell
et al.
7/3 34 N Berkshire NABA - Tom Tynning
et al.
7/10 13 C Berkshire NABA - Tom Tynning
et al.
9/8 1 Williamstown - Bo Zaremba

Harris' Checkerspot

6/10 20 Rutland - Garry & Annie Kessler

Pearl Crescent

5/12 1 Hopkinton - Madeline Champagne
5/13 1 Saugus - Mismo Estrella
5/14 15 Crane WMA, Falmouth - Andrew
Griffith
5/18 10 Bolton - Tom Dodd
5/20 21 Maudslay SP, NP - Bo Zaremba
5/22 3 Hatfield - Mark Fairbrother
5/22 100 MSSF, Plymouth - Andrew Griffith
5/24 25 Borden Colony, Raynham - Joe
Dwelly
5/29 35 Crane WMA, Falmouth - Joe Dwelly
5/29 83 Maudslay SP, NP - Bo Zaremba
6/4 15 Otter River SF, Winchendon - Mark
Lynch, Sheila Carroll
6/5 6 Bart's Cobble, Sheffield - Andrew
Griffith
6/11 3 Myles Standish State For. Carver -
Andrew Griffith
6/20 3 West Cummington - Mark Fairbrother
7/3 3 Blackstone Valley NABA - Tom Dodd
et al.
7/9 43 Concord NABA - Jay Shetterly *et al.*
7/15 145 N Worcester NABA - Wendy
Howes *et al.*
7/17 20 Brewster NABA - Mark Faherty
et al.
7/18 308 Northampton NABA - Mark
Fairbrother *et al.*
7/24 3 Grafton - Dolores Price, Marvin
St. Onge
7/28 14 West Whately - Bill Benner, Joe
Wicinski
7/31 8 Wachusett WS, Princeton - Linda
Graetz

8/3 15 S Amherst - Harvey Allen *et al.*
 8/7 20 Nasketucket Bay Reserve,
 Mattapoisset - Andrew Griffith
 8/18 5 Westport - Tom Dodd
 8/25 53 Amherst - Harvey Allen *et al.*
 9/1 3 Wellfleet Bay Ws, Wellfleet - Mark
 Faherty
 9/3 45 Groton Town Forest - Tom Murray
 9/8 14 Williamstown - Bo Zaremba
 9/10 6 AP Field Station, Dartmouth - MBC
 Trip
 9/17 2 New Braintree - Mark Lynch, Sheila
 Carroll
 9/25 10 Appleton Farms, Ipswich - MBC Trip
 10/6 1 IRWS, Topsfield - Bo Zaremba
 10/6 1 Sheffield - Jonathan Pierce
 10/7 2 Shrewsbury - Bruce deGraaf
 10/9 3 Fresh Pond, Cambridge - Fred
 Bouchard

Baltimore Checkerspot

6/8 1 Adams Farm, W. Bridgewater - Don
 Adams
 6/12 14 Adams Farm, W. Bridgewater - Don
 Adams
 6/17 45 Adams Farm, W. Bridgewater - Don
 Adams
 6/22 50 Adams Farm, W. Bridgewater - Don
 Adams
 6/29 12 MMP, Williamstown - Garry Kessler
 6/29 14 Woodsom Farm, Amesbury -
 Marjorie Watson
 6/30 20 Adams Farm, W. Bridgewater - Don
 Adams
 7/1 14 S Berkshire NABA - Rene Wendell
et al.
 7/3 16 Blackstone Valley NABA - Tom
 Dodd *et al.*
 7/3 73 N Berkshire NABA - Tom Tynning
et al.
 7/9 224 Falmouth NABA - Andrew Griffith
et al.
 7/10 99 C Berkshire NABA - Tom Tynning
et al.
 7/15 1 Maudslay SP, NP - Bo Zaremba
 7/18 34 Northampton NABA - Mark
 Fairbrother *et al.*
 7/23 1 Drumlin Farm, Lincoln - Erin
 Ellingwood
 8/7 1 Arlington Heights - Lisa Wolfe, Peter
 Loshin

Question Mark

5/15 1 Harwich - Larry Barry
 5/23 1 Mystic Lakes, Medford - Renee
 LaFontaine
 5/23 1 Deer Park Reserve, Hardwick - Wendy
 Howes

5/23 1 Wilbraham - Danielle
 6/5 2 Bart's Cobble, Sheffield - Andrew
 Griffith
 6/13 1 Conte NWR, Hadley - Karl & Elise
 Barry
 7/1 2 S Berkshire NABA - Rene Wendell
et al.
 7/6 1 MBWMA, Newbury - Marjorie
 Watson
 7/10 1 Truro NABA - Mark Faherty *et al.*
 7/11 1 Adams - Jeanne Boudreau
 7/17 3 Brewster NABA - Mark Faherty *et al.*
 7/28 1 Wareham - Andrew Griffith
 9/28 2 FS WMA, Longmeadow - Michele
 Moore
 10/7 1 Pelham - Tom Murray
 10/30 1 Willowdale SF, Ipswich - Bo Zaremba

Eastern Comma

3/15 1 Wakefield - Linda Ireland
 3/18 1 Mt. Tom State Reservation, Holyoke -
 Moore, Volkle, Gagnon
 3/25 2 Ashley Pond, Holyoke - Karl & Elise
 Barry
 5/11 1 Field Farm, Williamstown - Dolores
 Price, Marvin St. Onge
 6/13 1 Conte NWR, Hadley - Karl & Elise
 Barry
 6/26 1 West Whately - Bill Benner
 7/1 18 S Berkshire NABA - Rene Wendell
et al.
 7/3 7 N Berkshire NABA - Tom Tynning
et al.
 7/4 3 C Franklin NABA - Mark Fairbrother
et al.
 7/10 5 C Berkshire NABA - Tom Tynning
et al.
 7/18 8 Northampton NABA - Mark
 Fairbrother *et al.*
 7/22 1 Arlington Heights - Lisa Wolfe
 7/30 3 Bart's Cobble, Sheffield - MBC Trip
 8/11 4 Oxbow NWR, Harvard - Tom Murray
 8/21 1 FS WMA, Longmeadow - MBC Trip
 9/3 1 Groton Town Forest - Tom Murray
 10/8 1 Amherst - Elise & Karl Barry
 10/11 1 Lincoln - Linda Graetz
 11/6 1 FS WMA, Longmeadow - Michele
 Moore
 11/26 1 Bolton - Dawn Vesey

Compton Tortoiseshell

7/1 2 S Berkshire NABA - Rene Wendell
et al.
 7/10 4 C Berkshire NABA - Tom Tynning
et al.
 10/6 1 New Marlborough - Greg Ward

Mourning Cloak

- 3/15 1 Ward Res, Andover - Kim DeAndrade
3/16 1 Hoft Farm, W Tisbury - Matt Pelikan
3/18 7 Mt. Tom State Reservation, Holyoke -
Moore, Volkle, Gagnon
3/21 1 Marion - Kathy Lyons
3/22 1 Hinckley's Pond, Harwich - Stanley
Selkow
3/25 1 MBWMA, Newbury - Bo Zaremba
4/2 1 Medway - Hannah Haggerty
4/5 3 Hardwick - Wendy Howes
4/11 6 Signal Hill, Canton - Madeline
Champagne
4/15 2 Northborough - Steve Moore, Barbara
Volkle
4/22 3 New Salem - Dave Small
5/1 1 Great Meadow, Arlington - MBC Trip
5/11 3 Field Farm, Williamstown - Dolores
Price, Marvin St. Onge
5/18 1 Holliston - Richard Hildreth
5/24 2 Upton - Tom Dodd
6/4 3 North Adams, Mt. Greylock State Res.
- Andrew Griffith
6/25 1 Meadow Road, Montague - Mark
Fairbrother
7/1 11 S Berkshire NABA - Rene Wendell
et al.
7/10 10 C Berkshire NABA - Tom Tynning
et al.
7/18 1 Northampton NABA - Mark
Fairbrother *et al.*
8/6 1 Drumlin Farm, Lincoln - Erin
Ellingwood
9/10 3 AP Field Station, Dartmouth - MBC
Trip
9/23 1 New Marlborough - Tom Dodd
10/6 1 Sheffield - Jonathan Pierce
10/8 1 Long Point, W. Tisbury - Matt Pelikan
10/21 1 Holliston - Richard Hildreth
10/26 1 Williamsburg Flower Hill Farm -
Carol Duke

American Lady

- 4/15 1 MNWS, Marblehead - Marjorie
Watson
4/17 1 W Tisbury - Matt Pelikan
5/18 1 Wareham - Andrew Griffith
5/22 2 MBWMA, Newbury - Bo Zaremba
5/27 1 G40, Quabbin - Wendy Howes, Alan
Rawle
5/30 1 West Whately - Bill Benner
6/5 2 Borden Colony, Raynham - Joe
Dwelly
6/25 2 N Essex NABA - Howard Hoople
et al.
7/9 14 Falmouth NABA - Andrew Griffith
et al.

- 7/10 4 Truro NABA - Mark Faherty *et al.*
7/15 2 N Worcester NABA - Wendy Howes
et al.
7/17 6 Brewster NABA - Mark Faherty *et al.*
7/21 1 Holliston - Richard Hildreth
7/27 1 Gloucester - Zac Peterson
8/2 1 Fall River - Shelley Lafleur
8/7 1 Sandwich - Peter Crosson
8/16 1 Arlington Heights - Lisa Wolfe, Peter
Loshin
8/25 1 Groton - Tom Murray
9/1 3 Holliston - Richard Hildreth
9/10 2 Arlington Heights - Lisa Wolfe
9/12 1 Arlington Heights - Lisa Wolfe
9/21 1 Plum Island, Newbury - Marjorie
Watson
10/8 1 New Salem - Sue Cloutier
10/11 24 Eastern Point, Nahant - Linda
Pivacek
10/15 1 Barre - Wendy Howes, Alan Rawle
10/22 3 Holliston - Richard Hildreth
11/7 1 AP, Dartmouth - Tom Dodd
11/7 1 Arlington Heights - Lisa Wolfe

Painted Lady

- 4/22 2 Holliston - Richard Hildreth
5/22 1 Adams Farm, W. Bridgewater - Don
Adams
5/23 1 Wilbraham - Danielle
7/10 1 C Berkshire NABA - Tom Tynning
et al.
7/18 1 Northampton NABA - Mark
Fairbrother *et al.*
7/26 1 Barnstable, Marston Mill Com.
Garden - Alice Witmer
8/20 1 Cape Cod Organic Farm, Barnstable -
Peter Crosson
8/27 1 S-C TTOR, N Andover - Marjorie
Watson
10/8 1 Long Point, W Tisbury - Matt Pelikan
10/15 1 Gloucester - Dave Peterson

Red Admiral

- 5/22 1 MSSF, Plymouth - Andrew Griffith
5/22 1 MBWMA, Newbury - Bo Zaremba
5/29 1 Breakneck Hill Conservation Land,
Southborough - MBC Trip
5/30 1 W Meadows, Northampton - Karl &
Elise Barry
6/5 2 Quabog IBA, the Brookfields - Mark
Lynch, Sheila Carroll
7/1 1 S Berkshire NABA - Rene Wendell
et al.
7/4 6 C Franklin NABA - Mark Fairbrother
et al.
7/9 2 Concord NABA - Jay Shetterly *et al.*
7/15 2 N Worcester NABA - Wendy Howes
et al.

7/18 4 Northampton NABA - Mark Fairbrother *et al.*
 7/20 1 Dorchester, Boston - Mismo Estrella
 7/23 1 Hardwick - Wendy Howes, Alan Rawle
 7/24 1 Meadow Road, Montague - Mark Fairbrother
 7/30 1 Bart's Cobble, Sheffield - MBC Trip
 8/28 1 Grafton - Dolores Price
 8/29 1 Amesbury - Marjorie Watson
 9/16 1 Holliston - Richard Hildreth
 10/12 1 Arlington Heights - Lisa Wolfe
 10/15 1 Appleton Farms, Ipswich - Howard Hoople

Common Buckeye

7/1 1 MHF, Sharon - Brian Cassie
 7/3 2 Blackstone Valley NABA - Tom Dodd *et al.*
 7/3 5 HPM, Woburn - MBC Trip
 7/4 1 C Franklin NABA - Mark Fairbrother *et al.*
 7/10 1 Truro NABA - Mark Faherty *et al.*
 7/10 8 HPM, Woburn - Lisa Wolfe
 7/15 2 N Worcester NABA - Wendy Howes *et al.*
 7/18 1 Northampton NABA - Mark Fairbrother *et al.*
 8/6 2 Barre, Glen Valley Cemetery - Mark Lynch, Sheila Carroll
 8/18 1 Adams Farm, W. Bridgewater - Don Adams
 8/28 1 Grafton - MBC Trip
 9/3 1 Holliston - Richard Hildreth
 9/10 16 AP Field Station, Dartmouth - MBC Trip
 9/10 6 HPM, Woburn - Lisa Wolfe
 10/12 4 AP, Dartmouth - Tom Dodd
 10/21 3 Crane WMA, Falmouth - Serge Matheny
 11/7 1 Breakneck Hill Conservation Land, Southborough - Dawn Vesey

White Admiral

6/14 1 Pelham - Danielle Desmarais
 6/20 1 West Cummington - Mark Fairbrother
 6/26 1 North Adams, Mt. Greylock State Res. - Josh Rose
 6/28 1 Pelham - Danielle Desmarais
 7/3 2 N Berkshire NABA - Tom Tynning *et al.*
 7/10 3 Savoy - Mark Fairbrother
 7/10 1 Plainfield - Mark Fairbrother
 7/10 6 C Berkshire NABA - Tom Tynning *et al.*
 7/15 1 West Whately - Bill Benner
 8/10 1 Florence - Elise & Karl Barry

8/15 1 Champagne yard, Foxborough - Madeline Champagne

Red-spotted Purple

5/17 1 Rowden Yard, Leicester - Mark Rowden
 5/29 1 Westborough - Nancy Burke
 6/3 1 West Whately - Bill Benner
 6/4 2 North Adams, Mt. Greylock State Res. - Andrew Griffith
 6/4 11 Otter River SF, Winchendon - Mark Lynch, Sheila Carroll
 6/5 1 Borden Colony, Raynham - Joe Dwelly
 6/10 2 Rutland - Garry & Annie Kessler
 6/20 1 Ashfield - Mark Fairbrother
 7/1 3 S Berkshire NABA - Rene Wendell *et al.*
 7/3 11 N Berkshire NABA - Tom Tynning *et al.*
 7/10 18 C Berkshire NABA - Tom Tynning *et al.*
 7/10 3 Truro NABA - Mark Faherty *et al.*
 7/17 2 Brewster NABA - Mark Faherty *et al.*
 7/20 1 Hardwick - Wendy Howes
 7/27 1 Arlington Heights - Lisa Wolfe
 7/30 3 Quabog IBA, the Brookfields - Mark Lynch, Sheila Carroll
 8/7 1 Sandwich - Peter Crosson
 8/13 1 Williamsburg Flower Hill Farm - Carol Duke
 8/20 1 Petersham - Mark Lynch, Sheila Carroll
 8/26 2 East Harwich - Mark Faherty
 9/5 1 Barnstable, Marston Mill Com. Garden - Alice Witmer
 9/10 1 AP Field Station, Dartmouth - MBC Trip

Viceroy

5/22 1 Hatfield - Mark Fairbrother
 5/26 1 MBWMA, Newbury - Marjorie Watson
 5/28 1 Rock Meadow, Belmont - Fred Bouchard
 5/29 1 Petersham - Mark Lynch, Sheila Carroll
 6/4 1 Moran WMA, Windsor - Andrew Griffith
 6/5 2 Lime Kiln, Sheffield - Andrew Griffith
 6/10 1 Rutland - Garry & Annie Kessler
 6/18 2 Noquochoke Reserve, Dartmouth - MBC Trip
 6/20 3 West Cummington - Mark Fairbrother
 7/3 6 N Berkshire NABA - Tom Tynning *et al.*
 7/9 4 Concord NABA - Jay Shetterly *et al.*
 7/18 16 Northampton NABA - Mark Fairbrother *et al.*

7/30 5 Bart's Cobble, Sheffield - MBC Trip
8/7 10 Nasketucket Bay Reserve,
Mattapoisett - Andrew Griffith
8/20 3 Nasketucket Bay Reserve,
Mattapoisett - MBC Trip
9/3 9 Surrenden Farm, Groton - Tom
Murray
9/11 3 Dunstable - Tom Murray
9/17 1 New Braintree - Mark Lynch, Sheila
Carroll
9/21 1 Plum Island, Newbury - Marjorie
Watson
10/6 1 Sheffield - Jonathan Pierce

Hackberry Emperor

8/21 2 Forest Park, Springfield - MBC Trip

Tawny Emperor

7/18 1 Northampton NABA - Mark
Fairbrother *et al.*

Northern Pearly-Eye

7/1 1 S Berkshire NABA - Rene Wendell
et al.

7/2 1 West Whately - Bill Benner

7/2 2 Cedar Hill, Northborough - Steve
Moore, Barbara Volkle

7/3 1 Groton - Tom Murray

7/3 1 N Berkshire NABA - Tom Tynning
et al.

7/10 4 C Berkshire NABA - Tom Tynning
et al.

7/14 1 West Whately - Bill Benner

7/15 2 N Worcester NABA - Wendy Howes
et al.

7/18 1 Northampton NABA - Mark
Fairbrother *et al.*

Eyed Brown

7/1 1 S Berkshire NABA - Rene Wendell
et al.

7/3 1 Blackstone Valley NABA - Tom Dodd
et al.

7/3 3 N Berkshire NABA - Tom Tynning
et al.

7/4 9 C Franklin NABA - Mark Fairbrother
et al.

7/10 2 C Berkshire NABA - Tom Tynning
et al.

7/13 1 Washington - Gael Hurley

Appalachian Brown

6/15 1 Oxbow NWR, Harvard - Bo Zaremba

6/18 2 CST, Westborough - Steve Moore,
Barbara Volkle

6/25 2 N Essex NABA - Howard Hoople
et al.

7/1 2 S Berkshire NABA - Rene Wendell
et al.

7/2 6 Cedar Hill, Northborough - Steve
Moore, Barbara Volkle

7/3 5 N Berkshire NABA - Tom Tynning
et al.

7/4 10 C Franklin NABA - Mark Fairbrother
et al.

7/9 11 Concord NABA - Jay Shetterly
et al.

7/10 21 Truro NABA - Mark Faherty
et al.

7/16 20 CST, Westborough - MBC Trip

7/18 10 Northampton NABA - Mark
Fairbrother *et al.*

7/20 1 Hardwick - Wendy Howes

8/11 4 Oxbow NWR, Harvard - Tom Murray

8/21 2 FS WMA, Longmeadow - MBC Trip

Little Wood-Satyr

6/3 1 Lamson Rd, Foxborough - Madeline
Champagne

5/24 4 Borden Colony, Raynham - Joe
Dwelly

5/25 12 Nasketucket Bay Reserve,
Mattapoisett - Andrew Griffith

5/29 30 Breakneck Hill Conservation Land,
Southborough - MBC Trip

6/5 18 Borden Colony, Raynham - Joe
Dwelly

6/9 15 Wareham, MAS Great Neck WS -
Andrew Griffith

6/12 2 BMB WS, Worcester - MBC Trip

6/22 1 Maudslay SP, NP - Bo Zaremba

6/29 1 MMP, Williamstown - Garry Kessler

7/1 9 S Berkshire NABA - Rene Wendell
et al.

7/3 50 Blackstone Valley NABA - Tom
Dodd *et al.*

7/4 9 C Franklin NABA - Mark Fairbrother
et al.

7/10 11 Truro NABA - Mark Faherty
et al.

7/15 20 N Worcester NABA - Wendy Howes
et al.

7/15 1 Shelburne - Jocelyn Demuth

7/17 1 Brewster NABA - Mark Faherty *et al.*

7/18 11 Northampton NABA - Mark
Fairbrother *et al.*

7/24 1 Rough Meadows WS, Rowley -
Marjorie Watson

7/28 1 West Whately - Bill Benner, Joe
Wicinski

Common Ringlet

5/18 4 Bolton - Tom Dodd

5/20 2 Wilbraham - Danielle Desmarais

5/20 1 MSSF, Plymouth - Andrew Griffith

5/23 1 Williamsburg Flower Hill Farm -
Carol Duke

5/25 1 GITW, Framingham - Ellin
 Ellingwood
 5/29 104 Maudslay SP, NP - Bo Zaremba
 5/29 3 Petersham - Mark Lynch, Sheila
 Carroll
 6/2 5 Williamsburg Flower Hill Farm -
 Carol Duke
 6/5 30 Grafton - Dolores Price, Marvin
 St. Onge
 6/5 25 Bart's Cobble, Sheffield - Andrew
 Griffith
 6/11 3 Myles Standish State For. Carver -
 Andrew Griffith
 6/20 100 Cummington - Mark Fairbrother
 7/3 123 N Berkshire NABA - Tom Tynning
et al.
 7/15 38 N Worcester NABA - Wendy Howes
et al.
 7/30 3 Lime Kiln, Sheffield - MBC Trip
 8/11 15 Callahan SP, Framingham - Madeline
 Champagne
 8/21 35 Ware River Watershed, Barre -
 Wendy Howes *et al.*
 8/25 2 Amherst - Harvey Allen *et al.*
 9/1 6 Muddy Brook WMA, Hardwick -
 Wendy Howes
 10/6 1 Sheffield - Jonathan Pierce
 10/7 1 Rock Meadow, Belmont - Fred
 Bouchard

Common Wood-Nymph

6/29 1 MMP, Williamstown - Garry Kessler
 7/1 32 S Berkshire NABA - Rene Wendell
et al.
 7/3 65 N Berkshire NABA - Tom Tynning
et al.
 7/3 45 Blackstone Valley NABA - Tom
 Dodd *et al.*
 7/9 21 Falmouth NABA - Andrew Griffith
et al.
 7/10 105 C Berkshire NABA - Tom Tynning
et al.
 7/10 20 Truro NABA - Mark Faherty *et al.*
 7/15 120 N Worcester NABA - Wendy
 Howes *et al.*
 7/17 22 Brewster NABA - Mark Faherty
et al.
 7/18 148 Northampton NABA - Mark
 Fairbrother *et al.*
 7/23 49 Worcester Airport - Mark Lynch,
 Sheila Carroll
 7/26 1 Goshen - Annetti Marie
 7/30 4 Lime Kiln, Sheffield - MBC Trip
 7/31 20 Wachusett WS, Princeton - Linda
 Graetz
 8/3 3 S Amherst - Harvey Allen *et al.*

8/13 1 BMB WS, Worcester - MBC
 8/20 1 Nasketucket Bay Reserve,
 Mattapoisset - MBC Trip
 8/25 1 Plum Island, Newbury - Chris
 Errington
 8/27 1 S-C TTOR, N Andover - Marjorie
 Watson
 9/1 3 Muddy Brook WMA, Hardwick -
 Wendy Howes

Monarch

4/22 1 Wellfleet Bay Ws, Wellfleet - Mark
 Faherty
 5/21 1 W Brookfield - Danielle Desmarais
 5/21 1 Norfolk - Michelle McMenamin
 5/22 1 MBWMA, Newbury - Bo Zaremba
 5/22 1 MSSF, Plymouth - Andrew Griffith
 5/25 1 Williamsburg Flower Hill Farm -
 Carol Duke
 5/28 3 Rock Meadow, Belmont - Fred
 Bouchard
 5/30 5 W Meadows, Northampton - Karl &
 Elise Barry
 6/5 8 Borden Colony, Raynham - Joe
 Dwelly
 6/5 1 Lime Kiln, Sheffield - Andrew Griffith
 6/13 2 Conte NWR, Hadley - Karl & Elise
 Barry
 6/25 7 N Essex NABA - Howard Hoople
et al.
 7/1 13 S Berkshire NABA - Rene Wendell
et al.
 7/3 16 N Berkshire NABA - Tom Tynning
et al.
 7/7 1 Rockport - Dave Peterson
 7/9 35 Concord NABA - Jay Shetterly *et al.*
 7/9 25 Falmouth NABA - Andrew Griffith
et al.
 7/10 31 C Berkshire NABA - Tom Tynning
et al.
 7/13 1 Arlington Heights - Lisa Wolfe
 7/15 122 N Worcester NABA - Wendy
 Howes *et al.*
 7/18 134 Northampton NABA - Mark
 Fairbrother *et al.*
 7/23 63 Foxborough - Brian Cassie
 7/31 6 Wachusett WS, Princeton - Linda
 Graetz
 8/3 16 S Amherst - Harvey Allen *et al.*
 8/4 88 Easton - Brian Cassie
 8/9 4 Adams Farm, W. Bridgewater - Don
 Adams
 8/14 3 Amherst - Elise & Karl Barry
 8/19 428 Easton - Brian Cassie
 8/26 14 Surrenden Farm, Groton - Tom
 Murray

9/1 3 Wellfleet Bay Ws, Wellfleet - Mark Faherty
 9/4 1 Parker Preserve, Grafton - Dolores Price, Marvin St. Onge
 9/10 20 AP Field Station, Dartmouth - MBC Trip
 9/12 5 Arlington Heights - Lisa Wolfe
 9/16 75 SBSR - John Sullivan
 9/21 8 Fitch's Bridge Road, Groton - Tom Murray
 9/24 200 SBSR - Sharon Catalano
 9/26 4 Holliston - Richard Hildreth
 9/28 1 Essex - Kim DeAndrade
 10/7 3 Amherst, Wentworth Farm CA - Elise & Karl Barry
 10/11 60 Eastern Point, Nahant - Linda Pivacek
 10/16 3 Georgetown Com. Gardens - Marjorie Watson
 10/16 1 Correllus State Forest, Edgartown - Matt Pelikan
 10/22 1 Great Barrington - Josh Rose
 10/25 1 G46 Quabbin - Wendy Howes
 11/4 5 Nahant - Linda Pivacek
 11/6 1 Rockport - Zac Peterson
 11/7 3 AP, Dartmouth - Tom Dodd

Silver-spotted Skipper

5/22 1 Wilbraham - Danielle
 5/23 1 Holliston - Richard Hildreth
 5/29 1 West Whately - Bill Benner
 6/5 2 Bart's Cobble, Sheffield - Andrew Griffith
 6/5 1 Williamsburg Flower Hill Farm - Carol Duke
 6/12 2 Holliston - Richard Hildreth
 6/20 2 Habitat Sanct, Belmont - Fred Bouchard
 6/25 2 N Essex NABA - Howard Hoople *et al.*
 7/1 25 S Berkshire NABA - Rene Wendell *et al.*
 7/3 6 N Berkshire NABA - Tom Tynning *et al.*
 7/4 8 C Franklin NABA - Mark Fairbrother *et al.*
 7/9 12 Concord NABA - Jay Shetterly *et al.*
 7/11 1 Arlington Heights - Lisa Wolfe
 7/15 13 N Worcester NABA - Wendy Howes *et al.*
 7/17 6 Brewster NABA - Mark Faherty *et al.*
 7/18 22 Northampton NABA - Mark Fairbrother *et al.*
 7/20 1 Meadow Road, Montague - Mark Fairbrother

7/25 1 Arlington Heights - Lisa Wolfe
 7/30 6 Bart's Cobble, Sheffield - MBC Trip
 8/7 1 Arlington Heights - Lisa Wolfe
 8/14 2 Grafton - Dolores Price, Marvin St. Onge
 8/21 7 FS WMA, Longmeadow - MBC Trip
 9/2 1 Mt A, Cambridge - Fred Bouchard
 9/17 1 Northampton CG - Mark Fairbrother
 9/28 1 FS WMA, Longmeadow - Michele Moore
 10/14 1 Westport - Lauren Miller-Donnelly

Long-tailed Skipper

9/12 1 Boxford - Russ Hopping
 9/26 1 Georgetown - Russ Hopping

Hoary Edge

6/4 26 Hampshire County - Bill Benner, Joe Wicinski
 6/8 1 BMB WS, Worcester - Garry & Annie Kessler
 6/12 7 BMB WS, Worcester - MBC Trip
 6/19 1 BMB WS, Worcester - Andrew Griffith
 6/22 7 Hampshire County - Bill Benner
 7/4 5 C Franklin NABA - Mark Fairbrother *et al.*
 7/18 2 Northampton NABA - Mark Fairbrother *et al.*

Southern Cloudywing

5/29 6 Crane WMA, Falmouth - Joe Dwelly
 6/11 3 Myles Standish State For. Carver - Andrew Griffith
 6/12 1 BMB WS, Worcester - MBC Trip

Northern Cloudywing

5/29 3 Crane WMA, Falmouth - Joe Dwelly
 6/5 1 Dauphinis Park, Grafton - Dolores Price, Marvin St. Onge
 6/7 2 BMB WS, Worcester - Dolores Price, Marvin St. Onge
 6/12 8 BMB WS, Worcester - MBC Trip
 7/3 1 N Berkshire NABA - Tom Tynning *et al.*
 7/4 1 C Franklin NABA - Mark Fairbrother *et al.*
 7/16 1 CST, Northborough - MBC Trip

Dreamy Duskywing

6/7 4 BMB WS, Worcester - Dolores Price, Marvin St. Onge
 6/8 1 BMB WS, Worcester - Garry & Annie Kessler
 6/12 1 BMB WS, Worcester - MBC Trip

Sleepy Duskywing

4/20 2 MSSF, Plymouth - Tom Murray
 4/30 15 MSSF, Plymouth - MBC Trip
 5/11 3 Montague Plains - Jeremy Coleman

6/8 1 BMB WS, Worcester - Garry & Annie Kessler

Juvenal's Duskywing

4/16 2 MSSF, Plymouth - Andrew Griffith
4/18 1 Correllus State Forest, West Tisbury - Matt Pelikan
4/22 2 Montague Plains - Jeremy Coleman
4/23 10 MSSF, Plymouth - Andrew Griffith
5/1 3 Myles Standish State For. Carver - Bo Zaremba
5/5 18 Montague Plains - Jeremy Coleman
5/11 14 Montague Plains - Jeremy Coleman
5/15 2 Middlesex Fells, Medford - Erin Ellingwood
5/25 8 Ware River Watershed - Mark Lynch, Sheila Carroll
5/29 3 Crane WMA, Falmouth - Joe Dwelly
5/31 1 Scarborough Brook CA, Belchertown - Elise & Karl Barry
6/4 8 Otter River SF, Winchendon - Mark Lynch, Sheila Carroll
6/5 1 Oxbow NWR, Harvard - Bo Zaremba
6/11 3 Myles Standish State For. Carver - Andrew Griffith
6/12 1 BMB WS, Worcester - MBC Trip

Horace's Duskywing

6/10 1 Rutland - Garry & Annie Kessler
7/9 1 Wilbraham - Danielle Desmarais
7/9 1 Concord NABA - Jay Shetterly *et al.*
7/17 1 MSSF, Plymouth - Andrew Griffith
7/17 5 Brewster NABA - Mark Faherty *et al.*
7/18 1 Northampton NABA - Mark Fairbrother *et al.*
7/23 1 Wareham - Andrew Griffith
8/3 1 Wellfleet Bay Ws, Wellfleet - Mark Faherty
8/30 1 Dennis - Linnet Tse

Wild Indigo Duskywing

5/14 1 Crane WMA, Falmouth - Andrew Griffith
5/29 3 Crane WMA, Falmouth - Joe Dwelly
5/29 1 Petersham - Mark Lynch, Sheila Carroll
6/7 3 BMB WS, Worcester - Dolores Price, Marvin St. Onge
6/11 5 Myles Standish State For. Carver - Andrew Griffith
7/7 1 BMB WS, Worcester - Tom Murray
7/15 14 N Worcester NABA - Wendy Howes *et al.*
7/18 15 Northampton NABA - Mark Fairbrother *et al.*
7/20 1 Dedham - Nicole Homeier
7/25 1 Arlington Heights - Lisa Wolfe

7/28 3 West Whately - Bill Benner, Joe Wicinski

8/7 1 Grafton - Dolores Price, Marvin St. Onge

8/7 1 Sandwich - Peter Crosson

8/14 1 West Whately - Bill Benner

8/24 1 Medford - Kim DeAndrade

8/28 1 Grafton - MBC Trip

9/3 1 Groton Town Forest - Tom Murray

Common Sootywing

5/30 1 W Meadows, Northampton - Karl & Elise Barry
6/5 2 Wilbraham - Daniell Desmarais
7/4 1 C Franklin NABA - Mark Fairbrother *et al.*
7/18 3 Northampton NABA - Mark Fairbrother *et al.*
7/22 1 North Adams, Mt. Greylock State Res. - Gael Hurley
7/31 1 Holliston - Richard Hildreth
8/25 3 Amherst - Harvey Allen *et al.*

Arctic Skipper

6/4 5 Moran WMA, Windsor - Andrew Griffith

Least Skipper

5/30 2 Sherborn - Andrew Griffith
5/30 2 W Meadows, Northampton - Karl & Elise Barry
6/4 2 Newbury - Bo Zaremba
6/5 3 Borden Colony, Raynham - Joe Dwelly
6/5 5 Bart's Cobble, Sheffield - Andrew Griffith
6/9 1 Wareham, MAS Great Neck WS - Andrew Griffith
6/15 11 Hardwick - Mark Lynch, Sheila Carroll
6/18 3 Woodsom Farm, Amesbury - Marjorie Watson
6/18 10 CST, Westborough - Steve Moore, Barbara Volkle
6/25 42 N Essex NABA - Howard Hoople *et al.*
7/1 23 S Berkshire NABA - Rene Wendell *et al.*
7/3 24 N Berkshire NABA - Tom Tynning *et al.*
7/3 14 Blackstone Valley NABA - Tom Dodd *et al.*
7/10 5 C Berkshire NABA - Tom Tynning *et al.*
7/18 10 Northampton NABA - Mark Fairbrother *et al.*
7/28 2 Nasketucket Bay Reserve, Mattapoisett - Andrew Griffith

8/11 3 Oxbow NWR, Harvard - Tom Murray
 8/14 7 Warren - Mark Lynch, Sheila Carroll
 8/21 36 FS WMA, Longmeadow - MBC Trip
 8/25 12 Amherst - Harvey Allen *et al.*
 8/27 25 Hughes CA, Hopkinton - Madeline
 Champagne
 8/28 5 BMB WS, Worcester - MBC Trip
 9/10 3 AP Field Station, Dartmouth - MBC
 Trip
 9/11 2 Hatfield - Mark Fairbrother

European Skipper

5/29 2 Breakneck Hill Conservation Land,
 Southborough - MBC Trip
 6/5 37 Borden Colony, Raynham - Joe
 Dwelly
 6/13 1 Conte NWR, Hadley - Karl & Elise
 Barry
 6/18 10 Noquochoke Reserve, Dartmouth -
 MBC Trip
 6/20 12 Cummington - Mark Fairbrother
 6/22 18 Maudslay SP, NP - Bo Zaremba
 6/26 100 Moore SP, Paxton - Kristin
 Steinmetz
 6/29 1 MMP, Williamstown - Garry Kessler
 7/1 82 S Berkshire NABA - Rene Wendell
et al.
 7/3 888 N Berkshire NABA - Tom Tynning
et al.
 7/8 3 Newbury - Bo Zaremba
 7/10 51 C Berkshire NABA - Tom Tynning
et al.
 7/17 1 Leicester - MBC Trip
 7/17 4 Brewster NABA - Mark Faherty *et al.*

Fiery Skipper

7/23 1 Drumlin Farm, Lincoln - Erin
 Ellingwood
 8/1 1 Foxborough - Brian Cassie
 8/20 1 Arlington Heights - Lisa Wolfe
 8/27 2 S-C TTOR, N Andover - Marjorie
 Watson
 8/28 1 Wareham - Andrew Griffith
 8/29 3 Amesbury - Marjorie Watson
 9/3 1 Sylvan Nursery, Dartmouth - MBC
 Trip
 9/3 1 Groton Town Forest - Tom Murray
 9/8 3 Georgetown Com. Gardens - Marjorie
 Watson
 9/10 1 Concord - Garry & Annie Kessler
 9/16 3 Middleton - Marjorie Watson
 9/28 1 Wachussetts Res, Boylston - Bette
 Robo
 11/4 1 Cambridge - Rosemary Mosco

Leonard's Skipper

9/11 1 Crane WMA, Falmouth - Andrew
 Griffith

9/16 1 Muddy Brook WMA, Hardwick -
 Wendy Howes, Alan Rawle

Indian Skipper

5/22 2 MSSF, Plymouth - Andrew Griffith
 5/23 6 MSSF, Plymouth - Andrew Griffith
 6/6 1 RR at Babson Museum, Rockport -
 Dave Peterson
 6/8 1 BMB WS, Worcester - Garry & Annie
 Kessler
 6/11 3 Myles Standish State For. Carver -
 Andrew Griffith
 7/4 2 C Franklin NABA - Mark Fairbrother
et al.

Peck's Skipper

5/21 1 Grafton - Dolores Price, Marvin
 St. Onge
 5/22 1 MBWMA, Newbury - Bo Zaremba
 5/24 2 Borden Colony, Raynham - Joe
 Dwelly
 5/27 3 G40, Quabbin - Wendy Howes, Alan
 Rawle
 6/4 1 West Whately - Bill Benner
 6/11 18 Adams Farm, W. Bridgewater - Don
 Adams
 7/1 15 S Berkshire NABA - Rene Wendell
et al.
 7/3 24 N Berkshire NABA - Tom Tynning
et al.
 7/10 67 C Berkshire NABA - Tom Tynning
et al.
 7/20 1 Dedham - Nicole Homeier
 7/25 3 Arlington Heights - Lisa Wolfe
 7/31 10 Hughes CA, Hopkinton - Madeline
 Champagne
 8/7 5 Grafton - Dolores Price, Marvin
 St. Onge
 8/11 3 Arlington Heights - Lisa Wolfe
 8/14 6 Holliston - Richard Hildreth
 8/18 12 Adams Farm, W. Bridgewater - Don
 Adams
 8/24 1 Farandnear, TTOR, Shirley - Tom
 Murray
 8/27 12 Hughes CA, Hopkinton - Madeline
 Champagne
 8/29 1 Amesbury - Marjorie Watson
 9/4 2 Rockport - Dave Peterson
 9/10 11 AP Field Station, Dartmouth - MBC
 Trip
 9/25 1 Appleton Farms, Ipswich - MBC Trip
 10/7 2 Rock Meadow, Belmont - Fred
 Bouchard
Tawny-edged Skipper
 5/20 1 Foxborough - Brian Cassie
 5/21 1 Grafton - Dolores Price, Marvin
 St. Onge

5/26 1 NP - Bo Zaremba
 5/29 15 Maudslay SP, NP - Bo Zaremba
 6/5 15 Lime Kiln, Sheffield - Andrew Griffith
 6/12 2 BMB WS, Worcester - MBC Trip
 6/26 1 Dartmouth - Fred Bouchard
 7/4 5 C Franklin NABA - Mark Fairbrother *et al.*
 7/15 5 N Worcester NABA - Wendy Howes *et al.*
 7/28 1 Nasketucket Bay Reserve, Mattapoisett - Andrew Griffith
 8/3 3 S Amherst - Harvey Allen *et al.*
 8/14 1 Amherst - Elise & Karl Barry
 8/19 1 Wareham - Andrew Griffith
 9/3 4 AP Field Station, Dartmouth - MBC Trip
 9/16 1 Holliston - Richard Hildreth
 9/17 1 WMWS, Princeton - Mari Badger

Crossline Skipper

6/21 1 Rockport - Dave Peterson
 7/1 1 S Berkshire NABA - Rene Wendell *et al.*
 7/3 1 Sandwich - Garry Kessler *et al.*
 7/16 1 CST, Northborough - MBC Trip
 7/17 2 Brewster NABA - Mark Faherty *et al.*
 7/26 1 Barnstable, Marston Mill Com. Garden - Alice Witmer
 8/2 1 Holliston - Richard Hildreth

Long Dash

5/29 65 Maudslay SP, NP - Bo Zaremba
 5/30 12 Sherborn - Andrew Griffith
 6/5 11 Borden Colony, Raynham - Joe Dwelly
 6/11 6 Myles Standish State For. Carver - Andrew Griffith
 6/20 1 Habitat Sanct, Belmont - Fred Bouchard
 6/22 6 Maudslay SP, NP - Bo Zaremba
 6/25 16 N Essex NABA - Howard Hoople *et al.*
 7/1 6 S Berkshire NABA - Rene Wendell *et al.*
 7/3 22 N Berkshire NABA - Tom Tynning *et al.*
 7/10 7 C Berkshire NABA - Tom Tynning *et al.*
 7/16 1 Ware River Watershed - Mark Lynch, Sheila Carroll
 8/28 1 Groton - Tom Murray

Northern Broken-Dash

6/19 1 BMB WS, Worcester - Andrew Griffith
 6/25 1 Maudslay SP, NP - Bo Zaremba

7/1 14 S Berkshire NABA - Rene Wendell *et al.*
 7/1 1 West Whately - Bill Benner
 7/3 6 N Berkshire NABA - Tom Tynning *et al.*
 7/4 12 C Franklin NABA - Mark Fairbrother *et al.*
 7/9 13 Concord NABA - Jay Shetterly *et al.*
 7/10 16 C Berkshire NABA - Tom Tynning *et al.*
 7/10 15 Truro NABA - Mark Faherty *et al.*
 7/15 15 West Whately - Bill Benner
 7/17 30 Brewster NABA - Mark Faherty *et al.*
 7/18 21 Northampton NABA - Mark Fairbrother *et al.*
 7/23 1 Arlington Heights - Lisa Wolfe
 7/27 1 Holliston - Richard Hildreth
 7/30 1 Bart's Cobble, Sheffield - MBC Trip
 8/2 5 Harwich - Mark Faherty
 8/3 1 S Amherst - Harvey Allen *et al.*
 8/7 1 Arlington Heights - Lisa Wolfe
 8/26 3 East Harwich - Mark Faherty

Little Glassywing

6/25 13 N Essex NABA - Howard Hoople *et al.*
 6/28 9 Maudslay SP, NP - Bo Zaremba
 7/1 9 S Berkshire NABA - Rene Wendell *et al.*
 7/3 7 N Berkshire NABA - Tom Tynning *et al.*
 7/4 11 C Franklin NABA - Mark Fairbrother *et al.*
 7/7 4 BMB WS, Worcester - Tom Murray
 7/10 5 C Berkshire NABA - Tom Tynning *et al.*
 7/17 25 MSSF, Plymouth - Andrew Griffith
 7/18 8 Northampton NABA - Mark Fairbrother *et al.*
 7/19 1 NP - Bo Zaremba
 8/6 1 Barre, Glen Valley Cemetery - Mark Lynch, Sheila Carroll
 8/21 1 Ware River Watershed, Barre - Wendy Howes *et al.*
 9/17 1 Holliston - Richard Hildreth

Sachem

7/15 1 Somerset - Danielle Vaillancourt
 7/26 1 Brewster - Mark Faherty
 7/30 2 Helfand Community Gardens, Dartmouth - Andrew Griffith
 8/16 1 Wareham - Andrew Griffith
 8/26 3 East Harwich - Mark Faherty
 8/29 2 Wareham - Andrew Griffith
 9/2 1 Wareham - Andrew Griffith
 9/3 18 AP Field Station, Dartmouth - MBC Trip

9/4 4 White Horse Beach, Plymouth - Mark Faherty
 9/10 100 AP Field Station, Dartmouth - MBC Trip
 9/16 1 Middleton - Marjorie Watson
 9/18 6 Wareham - Andrew Griffith
 9/27 3 Wareham - Andrew Griffith
 10/6 1 Falmouth - Jake McCumber
 10/9 1 Correllus State Forest, Edgartown - Matt Pelikan
 10/12 1 AP, Dartmouth - Tom Dodd

Delaware Skipper

7/3 4 Blackstone Valley NABA - Tom Dodd *et al.*
 7/4 27 C Franklin NABA - Mark Fairbrother *et al.*
 7/9 2 Concord NABA - Jay Shetterly *et al.*
 7/9 32 Falmouth NABA - Andrew Griffith *et al.*
 7/10 1 Truro NABA - Mark Faherty *et al.*
 7/10 4 C Berkshire NABA - Tom Tynning *et al.*
 7/15 5 N Worcester NABA - Wendy Howes *et al.*
 7/17 5 MSSF, Plymouth - Andrew Griffith
 7/18 9 Northampton NABA - Mark Fairbrother *et al.*
 8/2 1 Holliston - Richard Hildreth

Mulberry Wing

7/2 2 Cedar Hill, Northborough - Steve Moore, Barbara Volkle
 7/3 1 Blackstone Valley NABA - Tom Dodd *et al.*
 7/4 1 C Franklin NABA - Mark Fairbrother *et al.*
 7/9 16 Concord NABA - Jay Shetterly *et al.*
 7/10 14 Sherborn - Andrew Griffith
 7/15 2 N Worcester NABA - Wendy Howes *et al.*
 7/16 5 CST, Northborough - MBC Trip
 7/18 31 Northampton NABA - Mark Fairbrother *et al.*
 7/23 1 Foxborough - Brian Cassie

Hobomok Skipper

5/18 1 Old Town Hill, Newbury - Bo Zaremba
 5/21 1 Fresh Pond, Cambridge - Erin Ellingwood
 6/3 2 Petersham - Dave Small
 6/4 4 Moran WMA, Windsor - Andrew Griffith
 6/4 2 North Adams, Mt. Greylock State Res. - Andrew Griffith
 6/5 3 Lime Kiln, Sheffield - Andrew Griffith

6/7 2 BMB WS, Worcester - Dolores Price, Marvin St. Onge
 6/18 1 CST, Westborough - Steve Moore, Barbara Volkle
 6/25 1 Petersham - Mark Lynch, Sheila Carroll
 6/28 1 Maudslay SP, NP - Bo Zaremba
 7/1 2 S Berkshire NABA - Rene Wendell *et al.*
 7/3 5 N Berkshire NABA - Tom Tynning *et al.*
 7/10 1 C Berkshire NABA - Tom Tynning *et al.*

Zabulon Skipper

5/17 1 Medfield - Isobelle Fox
 5/18 1 Marion - Andrew Griffith
 5/20 1 Lamson Rd, Foxborough - Madeline Champagne
 5/23 3 Lamson Rd, Foxborough - Madeline Champagne
 5/23 1 Holliston - Richard Hildreth
 5/24 11 Borden Colony, Raynham - Joe Dwelly
 5/25 12 Nasketucket Bay Reserve, Mattapoisett - Andrew Griffith
 5/29 1 Hopkinton - Madeline Champagne
 5/30 1 Palmer - Danielle
 5/31 7 Millis - Tom Dodd
 6/5 42 Borden Colony, Raynham - Joe Dwelly
 6/6 1 Wilbraham - Daniell Desmarais
 6/9 18 Wareham, MAS Great Neck WS - Andrew Griffith
 6/12 10 BMB WS, Worcester - MBC Trip
 6/15 4 Oxbow NWR, Harvard - Bo Zaremba
 6/19 1 BMB WS, Worcester - Andrew Griffith
 7/14 1 Holliston - Richard Hildreth
 7/25 1 Arlington Heights - Lisa Wolfe
 7/31 2 Holliston - Richard Hildreth
 8/6 4 Springfield - Bill Benner, Joe Wicinski
 8/11 5 Callahan SP, Framingham - Madeline Champagne
 8/11 14 Oxbow NWR, Harvard - Tom Murray
 8/12 16 Easton - Brian Cassie
 8/14 4 West Whately - Bill Benner
 8/18 6 Westport - Tom Dodd
 8/20 23 Nasketucket Bay Reserve, Mattapoisett - MBC Trip
 8/21 9 FS WMA, Longmeadow - MBC Trip
 8/27 5 Hughes CA, Hopkinton - Madeline Champagne
 8/29 3 Uxbridge - Tom & Cathy Dodd
 9/2 10 Holliston - Richard Hildreth
 9/4 1 Southborough - Mari Badger

9/4 7 Holliston - Richard Hildreth
9/10 10 AP Field Station, Dartmouth - MBC
Trip
9/15 1 Hardwick - Wendy Howes
9/18 1 Holliston - Richard Hildreth
9/26 1 Wareham - Andrew Griffith
9/26 1 Champagne yard, Foxborough -
Madeline Champagne

Broad-winged Skipper

7/9 3 Concord NABA - Jay Shetterly *et al.*
7/15 3 N Worcester NABA - Wendy Howes
et al.
7/17 8 Brewster NABA - Mark Faherty *et al.*
7/22 1 Springfield - Sarah Lambdin
7/24 1 Arlington Heights - Lisa Wolfe
7/26 1 Wareham - Andrew Griffith
7/29 1 Rockport - Dave Peterson
8/2 7 Newbury, Boston Rd & Hay Street -
Bo Zaremba
8/3 2 Wellfleet Bay Ws, Wellfleet - Mark
Faherty
8/7 1 Sandwich - Peter Crosson
8/21 1 Grafton - Dolores Price, Marvin
St. Onge

9/3 2 Sylvan Nursery, Dartmouth - MBC
Trip
9/10 1 AP Field Station, Dartmouth - MBC
Trip

Dion Skipper

7/1 1 S Berkshire NABA - Rene Wendell
et al.
7/3 1 N Berkshire NABA - Tom Tynning
et al.
7/6 5 Fitzgerald Lake, Florence - Garry
Kessler
7/13 1 Washington - Gael Hurley

Black Dash

7/4 1 C Franklin NABA - Mark Fairbrother
et al.
7/10 2 Sherborn - Andrew Griffith
7/15 1 Maudslay SP, NP - Bo Zaremba
7/16 2 CST, Northborough - MBC Trip
7/17 1 MBWMA, Newbury - Marjorie
Watson
7/18 5 Northampton NABA - Mark
Fairbrother *et al.*

Two-spotted Skipper

7/4 1 New Salem - Garry & Annie Kessler

Dun Skipper

6/22 1 Maudslay SP, NP - Bo Zaremba
7/1 9 S Berkshire NABA - Rene Wendell
et al.
7/3 9 Sandwich - Garry Kessler *et al.*
7/4 16 C Franklin NABA - Mark Fairbrother
et al.

7/9 2 Wilbraham - Danielle Desmarais
7/10 49 C Berkshire NABA - Tom Tynning
et al.
7/10 14 Truro NABA - Mark Faherty *et al.*
7/15 9 N Worcester NABA - Wendy Howes
et al.
7/16 43 Ware River Watershed - Mark Lynch,
Sheila Carroll
7/17 26 Brewster NABA - Mark Faherty
et al.
7/18 66 Northampton NABA - Mark
Fairbrother *et al.*
7/28 9 West Whately - Bill Benner, Joe
Wicinski
7/28 10 Nasketucket Bay Reserve,
Mattapoisett - Andrew Griffith
7/30 2 Bart's Cobble, Sheffield - MBC Trip
7/31 1 Sandwich Heritage Gardens - Alice
Witmer
8/6 15 Barre, Glen Valley Cemetery - Mark
Lynch, Sheila Carroll
8/14 2 West Whately - Bill Benner
8/18 2 Holliston - Richard Hildreth
9/4 1 Holliston - Richard Hildreth

Dusted Skipper

5/20 1 Foxborough - Brian Cassie
5/21 1 Weir Hill Res, N Andover - Bo
Zaremba
5/22 4 MSSF, Plymouth - Andrew Griffith
5/24 2 Borden Colony, Raynham - Joe
Dwelly
5/25 1 Marion - Andrew Griffith
5/25 9 Lamson Rd, Foxborough - Madeline
Champagne
5/26 2 NP - Bo Zaremba
5/30 7 Lamson Rd, Foxborough - Madeline
Champagne
6/8 1 BMB WS, Worcester - Garry & Annie
Kessler
6/10 1 Rutland - Garry & Annie Kessler
6/11 1 Myles Standish State For. Carver -
Andrew Griffith

Pepper and Salt Skipper

5/23 1 Surrenden Farm, Groton - Tom
Murray
5/24 1 Borden Colony, Raynham - Joe
Dwelly
5/24 6 Raynham - Joe Dwelly
5/30 2 Ashburnham - Andrew Griffith
6/4 2 Otter River SF, Winchendon - Mark
Lynch, Sheila Carroll
6/4 25 North Adams, Mt. Greylock State
Res. - Andrew Griffith

Common Roadside-Skipper

7/4 1 C Franklin NABA - Mark Fairbrother
et al.

Ocola Skipper

8/28 1 Wareham - Andrew Griffith
9/3 1 Sylvan Nursery, Dartmouth - MBC
Trip
9/4 1 White Horse Beach, Plymouth - Mark
Faherty

9/4 1 Holliston - Richard Hildreth
9/10 1 AP Field Station, Dartmouth - MBC
Trip
9/14 1 Arlington Heights - Lisa Wolfe
9/18 1 Wareham - Andrew Griffith
9/26 3 Wareham - Andrew Griffith
10/6 1 Falmouth - Jake McCumber



Black Swallowtail Chrysalis on stick, Linda Graetz

Clockwise from upper left:

1. 8/3/22 6 P.M. 5th instar shedding its skin
2. 8/3/22 7:20 PM. chrysalis has formed
3. 8/6/22 6:30 PM. Though this photo was taken 3 days later, in less than 24 hours after it formed, the chrysalis took on the coloration of its woody substrate.
4. 8/14/22 4:00 PM. You can see the faint pattern of the wing just below the girdle. The chrysalis had been formed less than two weeks before this so I wasn't expecting the butterfly to eclose that day. However, by that evening a beautiful male had emerged.

Checking Milkweed For Monarch Eggs and Caterpillars

by Sally Spooner, Taunton River Watershed Association
Education Center Coordinator

The summer of 2022 was difficult for the Monarch butterfly. The dry summer made it much more difficult for the Monarchs to find the nectar-loaded flowers, especially the wildflowers, that they need. I didn't see as many Monarchs as usual. Dried-out milkweed made it difficult for the females to find good egg laying sites. I found eggs and small caterpillars, but not the usual quantity. It was not like that everywhere, and if you find a good spot near you, you can raise Monarchs on your own. If you start and have questions, you can email us or message us on Facebook, and we will try to help. Send pictures and comments too. Three rules are: start clean, stay clean, and have fun.

There are many resources for raising the Monarch, so I am not covering that topic here. Except for the clothespin trick, this is mostly about how to find eggs and caterpillars.

Here's a good one about raising them:

Flying Works of Art: Raising Monarch Butterflies is written by a longtime Monarch raiser and Watershed author, Linda Roy.

I am also a Monarch raiser, and there is no single best way to do it successfully, so what I do is just a little different from what some other do. I started as a child many years ago with supplies we had on hand: canning jars, elastic bands, clothespins and nylon stockings, no longer useful because they had runs in them. New stockings were not allowed.

Using these materials, I raised and released many Monarchs, and somewhere I discovered a clothespin trick. I put a clothespin across the top of the chrysalis jar, put a square of panty hose on the top and secure it tightly



Female Monarch laying eggs
on Common Milkweed

with an elastic band. If there are spaces for them to escape, they will, and travel surprising distances to find the right spot to hang their chrysalis. This way they usually form their chrysalids on the clothespin, and once the chrysalis is dry, you can move it and clip it to a convenient location, inside or out. From there they have a secure place for their first take off for their first flight.

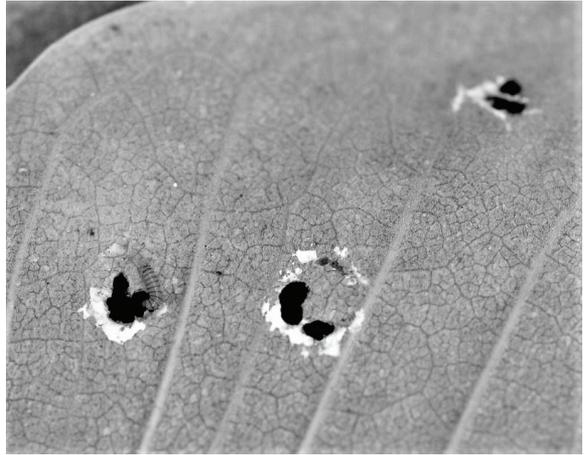


These are some of my experiences about finding eggs and Monarch caterpillars in the wild. All of my Monarch raising has been done in Eastern Massachusetts:

- Watch for a Monarch flitting around and stopping at milkweed plant after plant. It could be a female laying eggs. If you have time, be patient and let her continue without getting too close. Take pictures so you can remember where the eggs might be. They are usually on the undersides of leaves.
- When the Monarch has completed laying eggs, collect them right away, also if you have enough time. Especially after the eggs hatch you are in a race with ants, aphids and other predators too. A caterpillar left so you can have lunch may be gone by the time you finish. As you look for caterpillars, you may see ants cruising the milkweed leaves looking for snacks. Ants eat lunch too.
- You can tell that female Monarchs have visited from the leaves. A small distinctively shaped hole indicates that a caterpillar has hatched. Check underside of the leaves carefully with a magnifying glass because there might be a tiny caterpillar feeding at the edge of the hole it has made. Keep looking in the same place from time to time too.

See if you can spot the newly-hatched Monarch caterpillar!

(Hint - look left...)



- Monarchs are especially drawn to the smallest of plants for their tender leaves, and that's a good place to look. You can also cut some of your milkweed back so it will grow some of the tender leaves that Monarchs like.

- If the milkweed is in fields or edge of the woods, poison ivy may be there too. Keep an eye out for it.

- Ask permission wherever you need to. Permission is usually granted with enthusiasm. It's a good means of public education and a good way to find out about other locations too.

- Common milkweed can take over a garden, so you need to keep it under control or give it a patch or two of it by itself. Use *Asclepias* cultivars and other *Asclepias* species in your gardens. There are many suitable and attractive varieties, and Monarchs usually like them too.



- Remove caterpillar eating pests, but not with insect sprays. Some, like the daddy long legs can be beneficial, so don't kill them. Aphids and tussock moth caterpillars are a different story.

- Wash leaves off before bringing them inside too to avoid other passengers you might not want, like those snack-seeking ants.

Good luck and have fun.

Notes: Raising Monarchs and protecting their habitat are complex topics with varying and sometimes opposing points of view. Watch for further posts about the Monarch from time to time on Facebook or our web page, savethetaunton.org. We will look at the Monarch’s status as an endangered species and how it affects what we do in Massachusetts, why some people oppose home rearing, how to protect its habitat, and how to grow milkweed.

Raising and Protecting the Monarch Butterfly is a project of TRWA’s Bruce Spooner Education Center. Please support us at:
<https://savethetaunton.org/donations/donate/>
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Monarch (*Danaus plexippus*), 9/21/22, Amherst, MA, © Brian C. Harvey

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

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We encourage all members to contribute to *Massachusetts Butterflies*. Articles, illustrations, photographs, butterfly field trip reports, garden reports, and book reviews are all welcome, and should be sent to the Editor by August 31 for the Fall issue, and January 31 for the Spring issue.

Send NABA Fourth of July count results to Karl Barry at:

karl@massbutterflies.org by **August 15** for inclusion in the Fall issue. Send your season sightings and records to Mark Fairbrother at:

mark@massbutterflies.org, by **December 15** (or earlier if possible!) for inclusion in the Spring issue. Records may now be submitted via the online checklist and reporting form, which is available for download from our website at: <http://www.massbutterflies.org/club-publications.asp>

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Bronze Copper female (*Lycaena hyllus*),
10/8/22, Brookfield, MA, Alan Rawle



Eastern Tiger Swallowtail (*Papilio glaucus*),
5/11/22, Reading, MA, Ashley Gross