

Massachusetts Butterflies



Spring 2007, No. 28

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2 *Massachusetts Butterflies* No. 28, Spring 2007
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Submission of Articles, Illustrations, and Season Records

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

Send Fourth of July count results to Erik Nielsen by August 1 for inclusion in the Fall issue, and your season sightings and records to Erik by December 31 for inclusion in the Spring issue. Records may now be submitted via the online checklist and reporting form, which is available for download from <http://www.massbutterflies.org/club-publications.asp> or from <http://www.massbutterflies.org/downloads/massbutterflies.xls>

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CONTENTS

- 2 Towards a New Massachusetts Checklist
Sharon Stichter and Erik Nielsen
- 16 Highlights of the 2006 Fall Monarch Migration
Brian Cassie
- 23 Monarch Butterflies -- a poem
Gayle Sweeney
- 24 2006 Season Summary and Records
Erik Nielsen
- 47 *Garden Reports*
Growing Native
Kim Smith

*Cover Photo: Mustard White (Pieris napi), by Frank Model,
Lenox, Massachusetts, April 20, 2006*

4 *Massachusetts Butterflies* No. 28, Spring 2007
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Towards a New Massachusetts Checklist

Sharon Stichter and Erik Nielsen

In 1999 the Massachusetts Butterfly Club published “A Checklist of the Butterflies of Massachusetts,” the first such list ever for our state. Based on the over 19,000 Club sighting records 1990-1998, and containing bar charts of flight times, this important field aid was the work of Tom Dodd, assisted by Brian Cassie and Mark Fairbrother. It listed 94 “regularly occurring” species, and 31 “strays and extirpated species.”

The Club’s sightings data base has increased greatly since that time, and there are many more records for all species, including some which were not on the original list of “regulars.” During the next year, the Club will be forming a committee with the goal of drawing up a revised state Checklist. Some new checklists, such as one for western Massachusetts, and one drawn up by Brian Cassie for the NABA meeting in 2006, are already in circulation. A new state checklist will almost certainly include a number of species which were not listed in the “first edition;” it might also, of course, remove some species from the list.

This article summarizes the data for eleven species which were not on the 1998 list as “regularly occurring”, but which should now be looked at for possible inclusion. Not all of these species should necessarily be added to a new list. This article simply reviews some of the questions and data which a checklist committee must consider, but leaves any final decisions to the committee.

What do terms like “regularly occurring” and “stray” mean, anyway? They are a convenient shorthand, summing up at least three dimensions: frequency of sightings, breeding status, and

known migratory tendencies. For example, a species might be found infrequently as a flying adult, but if there is evidence of successful breeding (eggs, caterpillars, chrysalises) and survival over the winter, then the species would be classed as a regularly-occurring “resident”, although it is rare. If such a rarely-seen species is known to have a low or slow dispersal rate, and/or a specialized habitat, it may be thought of as a “probable resident” even in the absence of direct evidence of attempted or successful reproduction.

This categorization aptly describes two species which were not on the 1998 checklist as regulars, but whose on-going presence in our state has since been confirmed: Bog Elfin and Persius Duskywing. Bog Elfin was first found in Tom Swamp, Petersham, in 1996 by Dave Small and Rich Lent, and then confirmed in 1997 by Jeff Boettner of UMass-Amherst and others. It was seen again in 1999, 2004 and 2006 by a number of Massachusetts Butterfly Club [MBC] members. Persius Duskywing was located in the pitch pine/scrub oak barrens of Plymouth in 2001 by Mike Nelson of the Natural Heritage and Endangered Species Program. In 2006 four individuals were seen there by Tom Murray and other MBC members.

Among the more migratory butterfly species, a consistent series of sightings over a period of years would be sufficient to classify a species as a “regularly occurring” immigrant. But how many sightings, and with what consistency? These are matters of judgment. If the species is also to be described as “resident,” evidence of successful breeding over a period of years would be required. With these general points in mind, let’s examine the data for a few candidates for addition to the checklist.

Pipevine Swallowtail

In Massachusetts the Pipevine Swallowtail is at the northern edge of what Cech (2005) calls its secondary (“scarce,” or “seasonal”) breeding range. The Massachusetts Audubon Society [MAS] Atlas account notes that while historical sighting reports are scarce, there are a number of early reports of breeding in the state, sometimes in large enough numbers to defoliate the plant. These reports were more frequent in the early 20th century, when *Aristolochia durior*, its host plant, was more widely grown to shade porches. (Cassie, 2006). During the five-year Atlas period 1986-1990, there were 12 sightings of individual Pipevine Swallowtails reported, scattered throughout the state.

In Connecticut in 2003, a breeding population of Pipevines was discovered near Lyme, utilizing a naturally-occurring stand of Virginia Snakeroot (*Aristolochia serpentaria*). In Massachusetts in 1999, and again in 2004, Pipevine reproduction on the garden plant, *A. durior*, was documented in the yard of Richard and Robin Gross, of Lakeville (Stichter, 2004). A photo of a caterpillar from this yard can be seen on the Club’s website. It is not known whether breeding continued to take place at that site in subsequent years.

Since the Atlas period, sightings of adult Pipevine Swallowtails have become more regular. The Massachusetts Butterfly Club database has recorded sightings in 13 of the last 16 years; ten of these years had two or more reports (see Chart I). The peak year was 1999, when 15 individuals were reported. This data, together with the sporadic breeding evidence, make a strong case for designating the Pipevine as a “regularly occurring” species, and an occasional breeder, though it is probably still not fully “resident” in the state.

CHARTS I - VI: NUMBER OF ADULTS REPORTED PER YEAR, 1991-2006, MBC RECORDS

CHART I: PIPEVINE SWALLOWTAIL

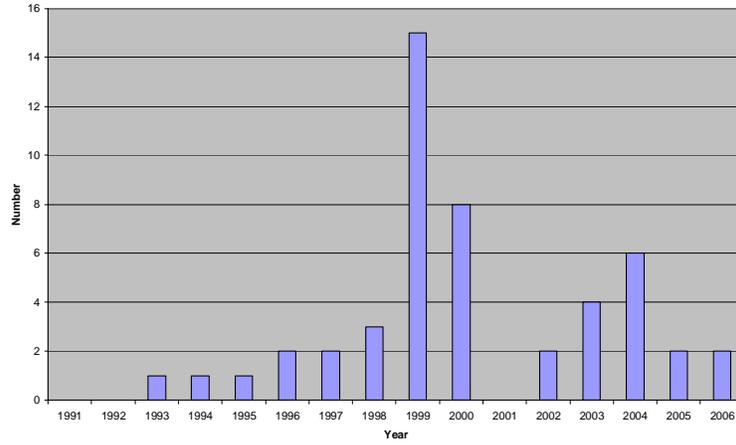
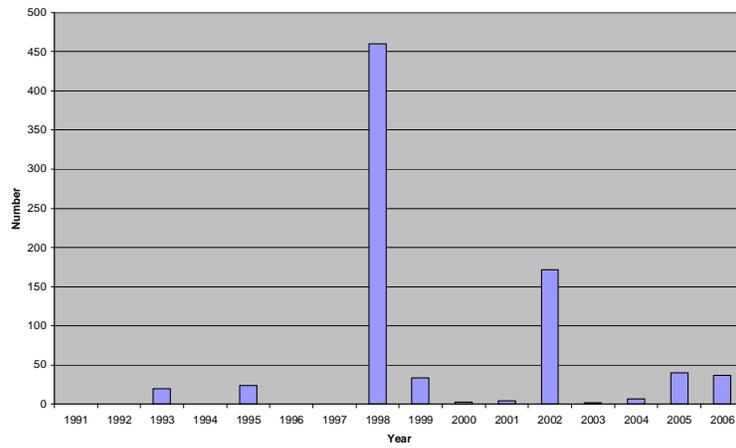


CHART II: CLOUDLESS SULPHUR



Cloudless Sulphur

Here is another species not on the 1998 list as a “regular.” It is strongly migratory, and like the Pipevine is at the northern end of its “dispersal” or “seasonal” range in our area. (Cech, 2005). In his species account for the MAS Atlas, Cassie notes that there are historical records of numerous sightings from 1880, 1892, 1909, 1934, and 1937, all from the Cape and islands (Cassie, 2006; see also Cassie, 1999). During the decade between 1986 and 1995, only three flights were reported reaching Massachusetts: 1987, 1993, and 1995, with 1993 being particularly large (Cassie, 2006). Almost all these sightings were in the southeastern part of the state, mainly on the Cape and islands. The 1987 flight provided the five Atlas records. The 1993 flight is not fully reflected in the MBC records; for more detail and sightings, see Forster (1994).

The MBC records (Chart II) show Cloudless Sulphur reported in 11 of the last 16 years, with large numbers being seen in 1998 (460) and 2002 (172). Cassie terms the 1998 flight an “invasion,” lasting 106 days, and producing the highest site concentrations yet known. This flight also produced the first documented egg laying by Cloudless Sulphurs in our state: Roger Pease and Karen Parker reported ovipositing on clotburs in Chatham (Cassie, 1999). The 2002 flight was also significant. Given these records, to call this species a “rare straggler...not reaching the state in most years,” as the Atlas did, no longer seems appropriate. Cloudless Sulphur may not reach the state every year, but it has been quite frequent in recent years, even a “regular.” The species is not likely to become a “resident,” since none of the immature stages can tolerate cold weather conditions, but it might attempt to raise a summer brood here.

White M Hairstreak

White M is a southern species which has gradually extended its range northward in recent decades. In his account for the MAS Butterfly Atlas, Mark Mello characterized it as a rare vagrant and/or resident, whose status was undergoing change. He suggests that it would probably be double-brooded here, but that severe winters might kill over-wintering pupae. In his account of the species in the very first issue of *Massachusetts Butterflies*, Brian Cassie (1993) pointed out that the several records from late May/early June might indicate over-wintering, since it would be unlikely that migrants would arrive that early. We are still in need of further evidence of attempted breeding here by this species.

But sightings there are aplenty. White M was first reported from Falmouth on a Xerxes count in 1979, and there are reports in 1984, 1987, 1988 and 1991 from the New Bedford and Dartmouth areas, in 1987 from Sheffield in western Massachusetts, in 1989 from Penikese Island, and in 1992 from Sudbury. The 1987, 1989 and 1992 reports are mapped for the Atlas (Mello, 2006). As Cassie (2003) describes, 1992 was a banner year for White M Hairstreak, with single sightings from four sites in the eastern and central parts of the state, including Brian Cassie and Lyn Lovell's discovery of a colony in Easton, which had a high count of 16 adults in August, nectaring on Sweet Pepperbush. Only one White M was reported from that site the next year, and none after that.

CHARTS I - VI: NUMBER OF ADULTS REPORTED PER YEAR, 1991-2006, MBC RECORDS

CHART III: WHITE M HAIRSTREAK

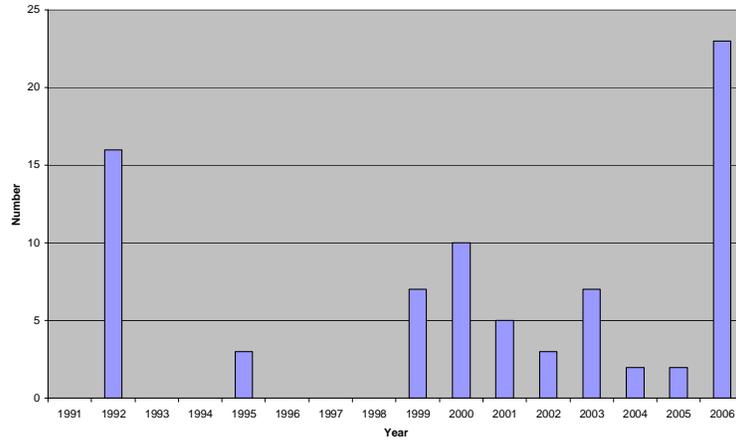
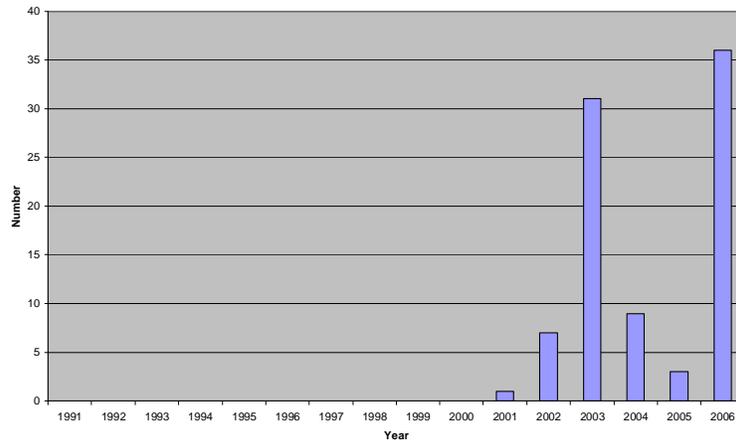


CHART IV: COMMON CHECKERED-SKIPPER



In the years since the Atlas, sightings of White M Hairstreak have grown as the number of active butterfly-watchers has increased. According to MBC records, White M was seen in 10 of the last 16 years (eleven if Mello's 1991 records are added), with sightings of between two and twenty-three individuals every year since 1999 (Chart III). Last season, 2006, was the best one yet, topping even 1992. The species has been seen throughout the state, but most frequently in the southeast. It would appear that White M's status has indeed changed, from "rare" to "uncommon, but regular."

Common Checkered-Skipper

This interesting spread-wing skipper is, in Rick Cech's words, "a permanent resident to about 40th parallel (Philadelphia), re-colonizing yearly northward. Winter stress thins northern populations, which rebuild each summer" (Cech, 2005: 252). In his Atlas account, Chris Leahy describes it as "Rare and sporadic in Massachusetts as an immigrant and temporary breeder" (Leahy, 2006). He notes only two historical records: Woburn 1903 and Brookline 1915. In 1991, Edna Dunbar discovered a population of some 25-30 individuals in a community garden in Pittsfield; this population provided the only Atlas record of this species, but has not been reported since.

The discovery by Tom Gagnon of a Common Checkered-Skipper in the Northampton Community Gardens in 2001 provided the first evidence of another population in our state, an on-going colony which has now been recorded there every year since, where it has been seen and photographed by many Massachusetts Butterfly Club members. Singles have been reported from one or two other sites in Northampton. The species has been reported in six of the last sixteen years, with the highest yearly sighting totals being 31 in 2003 and 36 in 2006, almost all from the community gardens.

At that site in September 2006 a mating pair was observed, and Frank Model and Barbara Spencer provided photographic evidence of at least one caterpillar on the host plant, common mallow (see photo below, p.15). Thus, attempted breeding has now been confirmed, but since the earliest sighting dates so far are in mid-August, over-wintering has not yet been demonstrated, and the colony may re-build from immigrants every summer.

Zabulon Skipper

It is difficult to judge the historical distribution of this skipper in Massachusetts because it was regularly confused with the Hobomok Skipper by early writers like Scudder. Cassie, in his Atlas account, terms it rare and local, albeit with breeding status, since all life stages have been observed (Cassie, 2006). It is at the northern limit of its breeding range here. At the time of the Atlas it was known in the state from only two records in the Springfield-Longmeadow area (1988, 1990), where the species was first identified by Roger Pease and Karen Parker.

Since then, numbers of reports have increased, and MBC records show Zabulon Skipper reported in ten of the last 16 years, and every year since 1997 (Chart V). It has been observed by many Club members, primarily in Longmeadow and Springfield, but also in Amherst, Northampton, Florence, and Holyoke. High counts came in 1999 with 39 seen in one day in Longmeadow at Fannie Stebbins WMA by Tom Gagnon and Tom Dodd, and in 2000, with 59 counted in one day in Longmeadow by Tom Gagnon. Totals of all reports for these two peak years were even higher (Chart V). With these numbers, it no longer seems appropriate to call the species a “rare vagrant.” It has become, certainly in recent years and perhaps even before that, an established part of our fauna.

CHARTS I - VI: NUMBER OF ADULTS REPORTED PER YEAR, 1991-2006, MBC RECORDS

CHART V: ZABULON SKIPPER

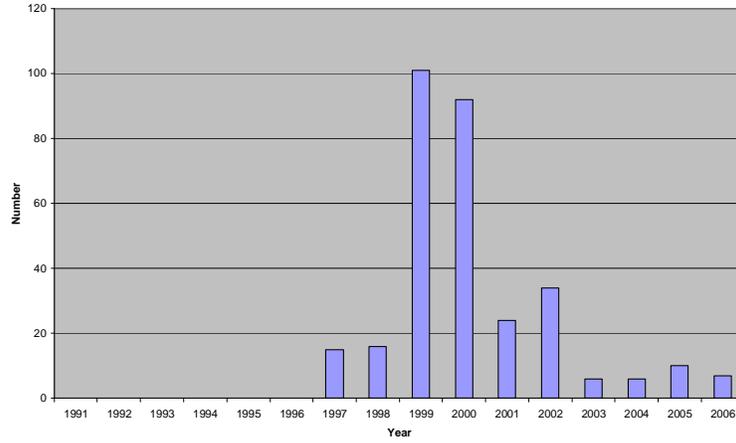
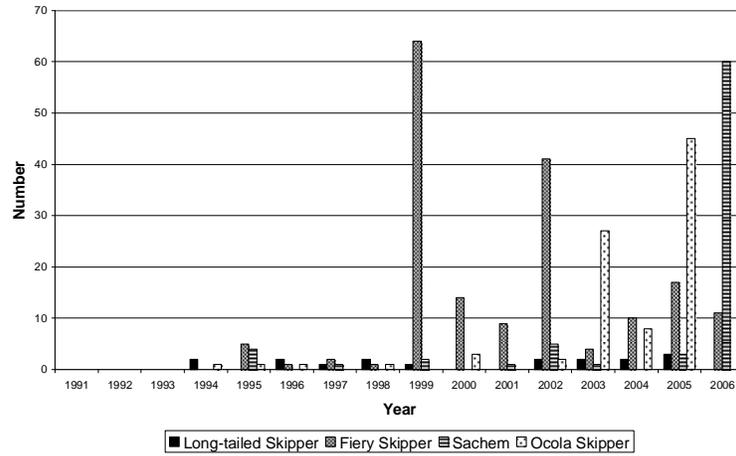


CHART VI: MIGRANT SKIPPERS



Migrant Skippers

The four skippers shown in Chart VI, Long-tailed, Fiery, Sachem, and Ocola, are all strongly migratory species which typically arrive in our state toward the end of the season. None are known to breed here, or to over-winter. Here is where the job of a Checklist committee gets interesting. How many sightings of such species, with what frequency and regularity, would be necessary to qualify them as “regularly occurring”?

Of these species, the Fiery Skipper has been seen with the greatest regularity and in the highest numbers. It was seen in 14 of the last 16 years (if one includes Atlas records), with MBC reports every single year from 1995 to 2006 (Chart VI). The highest yearly totals are 64 in 1999 and 41 in 2002. Sightings come from 25 different towns throughout the state, and not simply from Rockport where it was first found. Atlas records show the 1991 discovery of six individuals at Rockport, by Chris Leahy, as well as a 1993 record in Westport (Leahy, 2006). Prior to 1991, there is only one historical record from 1940 in Westport. The Atlas calls this species a “vagrant,” but the term doesn’t seem to quite capture the regularity of its occurrence in recent years.

The next three skippers, Long-tailed, Ocola, and Sachem, have all been seen in only eight or nine of the last 16 years. Long-tailed Skipper (*Urbanus proteus*) has been seen in nine of the last 16 years, but always in small numbers, the highest being 3 reported in 2005. This beautiful southern skipper is unusually wide-ranging, and moves strongly north every year from its Florida base, utilizing a wide range of hostplants (Cech, 2005: 232). The first Massachusetts records are from 1990, when a single individual was discovered in South Hadley by Tim Fowler and a second reported

from Marshfield (Fowler, 2006). The next records are the two from 1994 shown in Chart VI (for details, see Cassie, 1995).

Ocola Skipper has likewise been seen in nine of the last 16 years, but twice with fairly high numbers. The high yearly totals are 27 in 2003 and 45 in 2005 (Chart VI). Ocola Skipper is known for its long-distance mass emigrations, and, like the Sachem, for adapting to new and often disturbed habitats. It was not recorded during the Atlas period, and aside from one historical record in 1912 from Milton, the first recent record appears to be that from 1994 in Wellesley, found by Richard Forster (for details see Forster, 1995).

The Sachem has been seen in only eight of the last 16 years, and only in very small numbers, five in 2002 being the highest (Chart VI). It was not recorded in the Atlas years, and the first Massachusetts records begin in 1995, with records of four individuals: West Tisbury, Chilmark, Hingham and Sudbury (Leahy, 2006; MBC records). The Sachem is known for irruptions and for utilizing several different grasses in disturbed habitats. Its year-round range has shifted northward in recent years (Cech, 2005: 273; Pavulaan, 1999), but it seems as yet only tangential in Massachusetts.

Some might say that all of the migrant skippers in Chart VI should be considered “regularly occurring.” One possible, albeit rather low, threshold for “regular” status might be that a migrant species is reported in some numbers in 5 of the last 16 years. If that cutoff were adopted, it would exclude Gray Comma, which has been reported in only 2 of the last 16 years, 2003 and 2004, with a high yearly count of only 3 in 2004. Gray Comma was included as a regular on the 1998 checklist, but from our vantage point today is it more accurately a “stray”? A “5 out of 16” threshold would at

this time also exclude such migrants as Queen, Brazilian Skipper, Zebra Swallowtail, Little Yellow, and Checkered White.

Do the increases in sightings of our eleven candidate species in the last 16 years represent real range expansions or population increases, or could they be mainly a result of the fact that there are many more competent observers in the field? The number of active butterfly watchers in the state has grown enormously since the Club began keeping records in 1991. In the early 1990's MBC records totaled around a 1,000 each year; by 1995 the year's total had jumped to the 5,000 range, and from 1998 to the present it has stayed between 5,000 and 7,000 a year, except for 1999 when it reached a high of 8,512. If number of sightings is mainly a function of number of people "out there" searching, then who knows---some of these species may have been there all along, throughout the 1980's and earlier, in greater numbers and frequencies than were ever reported. Whatever the case, the sighting records of the butterfly species discussed here, as well as those of others with more southerly ranges, will bear close watching in the coming years.

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Common Checkered-Skipper caterpillar, Northampton Community Gardens, September 21, 2006. Photo: Frank Model

Some Highlights of the 2006 Fall Monarch Migration in Massachusetts

Brian Cassie

It will come as no surprise to readers of *Massachusetts Butterflies* that Monarchs had an historic southward flight last autumn. After all, many of you witnessed significant flights yourself and others kept up with the migration through postings on the internet MassLep listserv or through articles in the press. The fall Monarch migration can sometimes be wonderful and we are always hopeful of a big flight. In 2006, our hopes were realized.

Monarchs cannot survive the winter in Massachusetts, neither as egg, caterpillar, pupa, or adult, and so they must head south in the fall or perish. This has been their pattern of survival for countless years. In the last hundred and fifty years or so, authors of various popular and scientific books and journal articles and magazine and newspaper accounts have written about the length, breadth, and volume of the Monarch's fall migrations from just about every angle. Goodness, there has been a lot written about Monarchs and their movements. But not so much about Massachusetts Monarch flights, specifically. So here is a little addition to the Bay State Monarch literature.

In the fifteen years from 1992-2006, there were excellent years for Monarch fall migrations and there were poor years. That is always to be expected with migratory insects. Tough or agreeable winter or summer weather conditions, along with variable numbers of parasitic insects, conspire to give us banner or bust migrations. Look at the high single day fall counts for Massachusetts for this time frame:

1992 :	5
1993 :	640
1994 :	2000
1995 :	250
1996 :	540
1997 :	4000
1998 :	1700
1999 :	14000
2000 :	445
2001 :	420
2002 :	250
2003 :	1542
2004 :	12
2005 :	1200
2006 :	26000

See a pattern? I don't. Just widely variable numbers of butterflies from year to year.

What sets 2006 apart from other years in the last fifteen is not only the very high "high count" but also the number of outstanding accumulations of butterflies seen. In all the years from 1992 to 2005, there were, cumulatively, sixteen counts of 1000 or more Monarchs reported in Massachusetts. In 2006 alone, there were sixteen (seventeen if you count caterpillar sightings)! And they were not all along the coast, which has been the norm, at least in recent years. Here is the lowdown on the BIG flights of 1000 or more and some other highlights of the fall migration.

Monarchs Inland and Way Inland

September 6 Counting Caterpillars by the Hundreds

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The fields at The Trustees of Reservations Powisset Farm property in Dover had been mowed during the summer, giving the milkweed plants here a chance to regenerate. They did in numbers but much more impressive were the numbers of Monarch caterpillars that were so much in evidence on this day. Almost all of the caterpillars were large, late instar individuals and there were perhaps 1000. It was the best Monarch caterpillar show, by far, witnessed by any of those present.

September 10 Big Monarch Flights Over the Western Hills
Many, many thanks to the Bay State hawk watchers, who provided us with all of the meaningful Monarch migration data that came in from the western 3/4 of Massachusetts. There were daily Monarch counts kept at Blueberry Hill, in Granville (Hampden Co.) and at Barre Falls, in Hubbardston (Worcester Co.), and occasional reports from Mt. Wachusett, in Princeton (Worcester Co.). Very interestingly, these inland locales had outstanding flights of Monarchs very early in the season, on September 10, with 500-1000 Monarchs seen at Blueberry Hill, and 250 at both Mt. Wachusett and Barre Falls. Later triple-digit counts were recorded at Blueberry Hill on September 20 (300-400) and Barre Falls on September 20 (500+), September 25 (300+), and September 26 (150+). Special thanks to John Weeks (Blueberry Hill) and Barton Kamp (Barre Falls) for the Monarch information.

Monarchs Migrating Close to but Not Within Sight of the Ocean

September 26 Monster Flight Over Mattapan
The fields at the Boston Nature Center in Mattapan are pretty darned good for butterflies from spring through fall, but on this day it was the skies overhead that provided the spectacle. According to

Andrew Birch, there were “thousands in flight throughout the day.”

September 27 Monarch Parade Over Park School

Each fall, my third grade students and I spend some class time in September and October looking for migrating birds and insects at the Park School campus, in Brookline. This year the season was exceptionally good to us and we hit the jackpot on September 27, when we tallied 1228 Monarchs moving south.

September 27 Beverly Municipal Airport Throngs

Matthew Arey found 1000+ Monarchs hanging out and feeding in fields in Beverly. It was the biggest concentration he had ever found in Essex County.

Coastal Monarch Flights

July 26-28 Plum Island (Essex County)

Karen Haley and Erik Nielsen reported 200 and 350 Monarchs, respectively, over the marshes at Plum Island and, along with reports from other locations across the Commonwealth, including Fourth of July Butterfly Counts, we began to suspect that there would be a great fall migration of Monarchs.

September 24 Eastern Point, Gloucester

Local butterfly chronicler Doug Savich found 2000 Monarchs at Eastern Point Sanctuary on this fine day. Doug has been one of our great Monarch watchers over the years. He had a very good time finding and counting Monarchs during this year’s migration period.

September 25 Wicked Good Flight in Westport

If you had personally witnessed most of the big flights of Monarchs over the past decade and a half you would have done so in Westport, most often at Gooseberry Island State Reservation. Westport has proven to be THE spot for big flights and big concentrations of Monarchs and on this day there were both! The migration began early on, as David Elliott of Westport and Linda Thorn of Sweden watched as Monarchs began to move along Westport Town Beach. From 8:00-9:00 a.m., they saw a wonderful early morning migration, with 3000 or so Monarchs on the move. Then, just as the Monarchs were really starting to heat up, this couple left the beach. Good thing Ernie Hirsch and his wife arrived. Ernie said that the Monarch flight between 9:00 and 10:00 a.m. was “quite phenomenal” and he had seen “nothing like it in forty years” of visiting the area. Ernie estimated that 10,000 or more Monarchs flew west along the beach and over the dunes in the hour he and his wife were there.

Of course, we all wish that someone with a notebook had been in Westport between 10:00 a.m. and 5:00 p.m. on this day. Thousands, and probably tens of thousands, of Monarchs most likely kept up a steady flow of migrants during mid-day, when butterfly migrations are usually at their peak. But it was not until just an hour before dark that we got another window into the sheer numbers of Monarchs in the area that day. And all of the folks who were at Gooseberry in the late afternoon (lucky me among them) got treated to a blizzard of Monarchs. They were all over the island, in the air, nectaring at various flowers, and jockeying for roosting spots. My count was 13,000 Monarchs and I believe I was counting conservatively.

Perhaps 50,000 or more Monarchs were in Westport on this day. The number actually counted was 26,000, which is the largest Massachusetts Monarch count in decades. Other significant counts

at Westport were made on September 22 (thousands), September 26 (thousands, from previous day's accumulation), October 3 (2320), October 4 (3100+), and October 5 (thousands).

September 26 Monarchs by the Thousands All Along the Coast
The coastline at Aquinnah's Gay Head is one of the Bay State's premier spots for watching fall migrations of insects and birds. Some days produce superb flights and on this day there were thousands of Monarchs moving.

Up on Cape Ann, Monarchs were also very much in evidence and 1000 or so were noted. And perhaps the best sighting of the day was in another corner of Essex County. In the words of Sharon Stichter, "This evening... Joe Stichter walked out across the marsh road to the end of Nelson's Island in Rowley (part of Parker River NWR). Between about 5:45 and 6:30 p.m., as the western sun warmed the area, he saw 2,000 to 3,000 (estimate) Monarchs, all clustered on every available stalk of seaside goldenrod which lines the edge of Nelson's Island. There were more on the many asters in bloom. An amazing sight. Then, as the sun began to set, he saw them all begin to rise and move en masse toward the tall oak and other trees back on the land..."

September 30 Bonanza at Belle Isle Marsh and Eastern Point
Soheil Zendehe has been watching birds and other wildlife at East Boston's Belle Isle Marsh for decades. On this day, Soheil and company were overwhelmed by a superb flight of Monarchs, which were "in the thousands, flying high and low." Many of Belle Isle's Monarchs may have passed by Eastern Point, Gloucester, earlier in the day. Almost 3000 Monarchs were tallied at Eastern Point, including 2160 actively flying south over a period of 5 1/2 hours from mid-morning to mid-afternoon, and hundreds nectaring at a garden hedge of New England Asters.

End of the Flight

Everything comes to an end some time or another, and the 2006 fall Monarch flight wound down dramatically after the first week of October. This happens every year, actually, as the great bulk of butterflies pass by New England on their way to the Transvolcanic Mountains of Mexico, their winter home. There were a few nice pulses of Monarchs at Gooseberry in mid-October, with 275 on October 19 and 94 on October 22. And finally, the last Monarch of the fall was observed in Falmouth on November 28.

It was a great migration. Who knows when there will be another of equal magnitude – perhaps this year.



Monarchs on Seaside Goldenrod, Beavertail State Park, Jamestown, Rhode Island, 10-04-06. Photo: Walter Bosse

Monarch Butterflies

Monarchs carry the dawn on their bright orange wings

And can even make the glistening sunshine sing!

By and by they dance the Spanish fandango,

Reigning gracefully where a soft breeze blows.

Through the warm air one deftly sashays--

Packed with joy on a summery day.

Gayle Sweeney

Gayle Sweeney, of Woburn, MA, spent last summer in Hampton Beach, NH, where she is a member of the Hampton Beach Garden Club. Club members have been working on several coastal butterfly gardens. Gayle reports that the Hampton area was filled with Monarchs this past fall, and it and the Isles of Shoals are Monarch migration hotspots.

26 *Massachusetts Butterflies* No. 28, Spring 2007
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2006 Season Summary and Records

Erik Nielsen

More than 6600 individual records of 103 species were entered into the Club's database for 2006. In addition 3 forms of Azure (Spring, Cherry Gall, and Summer), plus 2 forms of Red-spotted Admiral (White Admiral and Red-spotted Purple), were logged. Cherry Gall Azure is a new listing category this year. All the Cherry Gall Azures included in the records were actually reported as such by observers. Seven species had new early records, 12 had new late records, and there were new high counts for 4 species.

Thanks to the observers submitting their records via postal or e-mail, or posting their sightings on the internet listserv. Unfortunately, even while using a very tiny font for listing the records, it is not possible to fit more than a fraction of the total number into the space allotted in this issue. It is therefore the compiler's job to try and select which records seem to best represent the flight times and abundance of the different species.

January was 7.2 degrees warmer than normal, and on the 12th, a mostly sunny day with a peak temperature in the mid 50's, the butterfly season got off to an early start when Brian Cassie found a Mourning Cloak in Brookline. The next butterflies for the year were spotted more than a month later on February 16, when another Mourning Cloak was found in Boxford and an Eastern Comma was photographed sunning itself on a tree trunk at the Assabet River NWR. As with the January sighting these occurred on a mostly sunny day with a high in the mid 50's after a couple of days with above normal temperatures.

March averaged 1.2 degrees warmer than normal in Worcester, but only slightly above normal in Boston. March 10 was a mostly cloudy day, but temperatures were in the upper 60's inland, and this got a Compton Tortoiseshell to stir in Barbara Spencer's barn studio in Cummington, where it apparently had overwintered. The next day was sunnier and although a bit cooler with temperatures only in the mid 50's, it was warm enough for a new early record for Cabbage White in East Longmeadow. By mid month it got colder than usual and no more butterflies were seen until the 23rd, when the peak temperature again made it into the mid 50's, and on that day a total of 9 Mourning Cloaks were reported from various parts of the state. The last 6 days of the month were warmer than usual, and by the 31st the temperature reached 73 degrees at Logan Airport. As this period was also mostly sunny, it brought out a good number of the early butterflies. On the 30th Tom Gagnon counted 33 Mourning Cloaks and 5 Eastern Commas at Mount Tom. By month's end a total of 159 individual of 7 species had been reported, including an early record for Eastern Pine Elfin in New Salem on the 29th.

April was quite a bit drier than usual and the temperatures averaged 1.5 degrees warmer in Boston and 4.2 degrees warmer in Worcester. More than 1500 individuals of 25 species were reported for the month. A Clouded Sulphur flew early at the Boston Nature Center on the 11th and a Black Swallowtail did likewise on Great Blue Hill in Canton on the 12th. Mustard Whites started flying at their stronghold in Lenox on the 17th, with 36 counted there on the 20th, and West Virginia Whites were reported in fair numbers from several locations in Hampshire County.

May was 6.3 degrees colder than normal in Boston, and the rainfall exceeded the average for the month by 0.74 inches. Clouds predominated for the month and it rained on 19 days. The

conditions were slightly better inland with more sun and temperatures only 0.7 degrees below normal. By the 25th the temperatures reached the upper 70's in Worcester, and it remained sunny and hot to the end of the month. White M Hairstreak is always a good find anywhere in the state, and they are most frequently seen in the southeastern sections in late summer and fall, so one in East Longmeadow on the 7th was quite remarkable. The most recent prior May record for western Massachusetts was an individual in Florence on May 9, 2000. A Horace's Duskywing was on the early side in Sherborn on the 7th. A Club trip to Myles Standish State Forest in Plymouth on the 20th logged 27 Brown, 16 Hoary, 1 Frosted, and 12 Eastern Pine Elfin, as well as 31 Sleepy, 35 Juvenal's, and 4 Wild Indigo Duskywings, and 1 Persius Duskywing. Cherry Gall Azures were widely reported from the 21st on. Pepper and Salt Skippers are uncommon to rare east of Worcester County, and one at Martin Burns WMA in West Newbury on the 28th was a great find for Essex County. Pre-NABA convention trips at the end of the month to various hotspots did not disappoint. Among the rarer finds were Bog Elfin at Tom Swamp in Petersham, Hessel's Hairstreaks in Ponkapoag Bog in Canton, and Persius Duskywings in Myles Standish State Forest. A trip to Mount Greylock logged 20 Early Hairstreaks on May 28.

Frosted Elfin numbered 127 in Foxboro on June 1. The temperatures at that point were in the mid-80's and the skies sunny; but the next day the sun went into hiding, the temperatures got into neutral territory, and it started raining. Not exactly the ideal way to mark the start of the field trips for the NABA convention in Springfield, and it only got worse from there. By Saturday the 3rd temperatures had plummeted to the 50's and it was pouring rain. The conditions had improved somewhat the next day, when 28 Indian Skippers were found in Northampton. That would be a good count anywhere in the state under the best conditions;

but that was far from the case here with 100% cloud cover and off-and-on rain. The temperatures stayed below normal until the 12th when things turned around and the rest of the month had above-average temperatures. All totaled, June actually averaged 1.3 degrees warmer than usual in Worcester and just above normal in Boston, though total rainfall there was more the three times the norm. On June 5 Doug Savich found 102 Silver-bordered Fritillaries and 181 Pearl Crescents on Cape Ann. Even though the conditions were vastly improved by then, it was still mostly cloudy with a peak temperature of only 70 degrees. A West Virginia White on Mount Greylock on the 13th beat the previous late record by a day.

July was the sixth warmest on record, with temperatures averaging 2 degrees above normal in Boston and 3.3 degrees above in Worcester. There were 10 days with measurable rainfall along the coast and 12 inland. Boston got half an inch more rain than normal for the month; but Worcester had a deficit of almost an inch. The NABA July counts rarely fail to turn up something unusual, and 2006 was not an exception. On the 16th Tom Gagnon found a Checkered White in his section of the Southern Berkshire count. Not only is that a new early record for the state by more than a month, but it's also the first not found near the coast. Other nice "NABA sightings" include: Bronze Coppers on each of the 3 Berkshire counts, 1467 Bog Coppers on Central Franklin, 77 Edwards' Hairstreaks on Martha's Vineyard, 12 Hickory Hairstreaks, 29 Compton Tortoiseshells, and a Pepper-and-Salt Skipper on the Mount Greylock section of Northern Berkshire, 2 Tawny Emperors and 1010 Monarchs on the Northampton count, 46 Mulberry Wings in the Concord Circle, and on the 21st Karen Holmes found a Sachem on her solo coverage of the Middleboro count. Even though the NABA counts dominate the July records, butterflies were found away from the count circles and dates. A

White M Hairstreak was found at the base of Great Blue Hill on the 8th, and an Oak Hairstreak near the Mary Cumming's Park in Burlington on the 3rd. The last Harris' Checkerspot for the year was reported from Petersham on the 5th. Tom Gagnon and Chris Gentes counted 1057 Baltimore Checkerspots in Shutesbury on the 3rd. There were 3 Hackberry Emperors at Forest Park in Springfield on the 15th, and at least 1 Tawny Emperor at the Northampton Community Gardens at the end of the month. An Indian Skipper was on the late side on Mount Greylock on the 1st. Two-spotted Skippers were found at Tom Swamp in Petersham on the 3rd and 5th.

Both the average temperatures and the total rainfall were close to normal for the month of August. Karen Parker found a Pipevine Swallowtail in Springfield on the 2nd, and Zabulon Skippers in East Longmeadow on the 5th and 6th. There was a lateish European Skipper at Martin Burns WMA in West Newbury on the 11th. A Club trip on the 13th found 3 Hackberry Emperors at Forest Park in Springfield and 4 Zabulon Skippers at Fannie Stebbins WMA in Longmeadow. On the same day Doug Savich logged 155 Silver-bordered Fritillaries on Cape Ann. A Common Checkered-Skipper was at the Northampton Community Gardens, and a total of 9 was counted there on the 17th. This is the sixth consecutive year it has been found this location, but nowhere else in the state. It's unusual to see Crossline Skippers much past the first week of August, so three at Broad Meadow Brook WS in Worcester were a nice find. The Harvester colony at the Mystic Lakes on the Arlington/Medford border reached its highest count of the year on the 20th, when 24 were counted, and the following day 2 were reported from Bald Hill Reservation in Boxford. Karen Holmes found the first Cloudless Sulphur and the second Checkered White for the year at Marconi Beach in Wellfleet on the 22nd.

Westerly winds and sunny skies predominated for much of September, and the state received only a little above half the normal rainfall for the month. The first week-end of the month was a bit on the gloomy side, but the skies cleared on the 4th when several nice butterflies were found: a Harvester in Waltham, Bronze Copper in Egremont, White M Hairstreak at the Northampton Community Gardens, and a Fiery Skipper in Marblehead. Another Fiery Skipper was found at the Northampton Community Gardens on the 7th, and a Zabulon was there the next day. A butterfly count at the Mass Audubon Allens Pond Sanctuary in Dartmouth and Sylvan Nursery in Westport on the 9th logged 26 species for the day. Highlights were 3 Cloudless Sulphurs, 7 White M Hairstreaks, 1 Silver-bordered Fritillary, 13 Common Buckeyes, and a Sachem. Leonard's Skipper had an off year: only a handful of reports were received for this late-flying species last fall. On the 10th one was found in Athol and another in Belchertown. Another was in Concord on the 16th, and 4 were at Demerest Lloyd SP in Dartmouth on the 17th, along with a Fiery Skipper. Two other Fiery Skippers were seen at the Northampton Community Gardens on the same day. Highlights from the second Allens Pond Butterfly count on the 17th included 6 Cloudless Sulphurs, 9 White M Hairstreaks, and 1 Variegated Fritillary. A Common Sootywing in Newbury on the 19th was only a couple of days from tying the late date for the species. Barton Kamp, who spends much of the fall counting hawks from Barre Falls in Hubbardston, logged 500 migrating Monarchs there on the 20th. Three Leonard's Skippers were on the Vineyard on the 20th. Fiery Skippers were found in Northampton on the 22nd and Concord on the 24th. The Monarch migration hit its peak on the 25th and 26th when at least 13000 and probably many more were amassing in Westport [see Brian Cassie's account of the 2006 Monarch migration in this issue]. Also in Westport during the height of the Monarch flight on the 26th were at least 12 Cloudless Sulphurs. On

the 28th, a White M Hairstreak was seen on the Vineyard, and a Long Dash in Dartmouth provided a new late date for that species.

October temperatures were close to normal. Boston received 0.7” and Worcester 2.21” more rainfall than usual. Monarchs were still moving through Westport in good numbers early in the month: 2145 were counted there on the 3rd and 2000 on the 5th. A Fiery Skipper was still at the Northampton Community Gardens on the 4th. Simon Perkins saw 16 Painted Ladies and a Fiery Skipper on Tuckernuck on the 9th, and on the same day Frank Model found 3 Cloudless Sulphurs and 2 Milbert’s Tortoiseshells in Chatham. There are no previous Milbert’s records for Cape Cod in the Club’s database, nor is the species mentioned in Mark Mello and Tor Hansen’s book, *Butterflies across Cape Cod*. A high count of 19 Bronze Coppers was concentrated in a small area at Nine Acre Corner in Concord on the 9th, and another 5 were found at the Wayland Community Gardens the same day. A Spicebush Swallowtail was a bit on the late side in Newbury on the 10th, and three White M Hairstreaks were found in West Tisbury that day, thereby extending the flight period for that species by eight days. Common Checkered-Skipper was another species for which the 10th was a new late flight date. Along with it at the Northampton Community Gardens were one Variegated Fritillary and two Silver-spotted Skippers. On the 19th two additional species had new late flight dates when an Eastern Tiger Swallowtail was seen in Marblehead and 9 Bronze Coppers were reported from Nine Acre Corner in Concord. Rain moved in on the 20th, and the next day the temperatures dropped into the low to mid 50’s. Few butterflies were reported for the rest of the month. On the 31st, when the thermometer again showed above 60 degrees, Ted Raymond found the last Cloudless Sulphur for the year in Dartmouth.

November was warmer than normal, but also quite a bit wetter. No records were set for the 10 species which were found during the month, but a couple were close to tying the late date for their species. Question Marks in Dartmouth and Oak Bluffs were two days short, and a Monarch on the 28th was only 6 days off.

There aren't many years when there are butterflies found each month, but 2006 was one of those. On December 1st, Rick Heil found an Eastern Comma at the Kieran Sanctuary in Rockport. Although it remained quite mild for much of the month no other butterflies were reported.

New high count:	Record late flight date:
Bronze Copper - 19	Eastern Tiger Swallowtail - 10/19
Hickory Hairstreak - 12	Canadian Tiger Swallowtail - 7/09
Bog Elfin - 2	Mustard White - 9/12
Sleepy Duskywing - 31	West Virginia White - 6/13
	Cabbage White - 12/19
Record early flight date:	Bronze Copper - 10/19
Black Swallowtail - 4/12	Hoary Elfin - 6/12
Checkered White - 7/16	White M Hairstreak - 10/10
Cabbage White - 3/11	Common Ringlet - 10/22
Clouded Sulphur - 4/11	Persius Duskywing - 5/31
Eastern Pine Elfin - 3/29	Common Checkered-Skipper - 10/10
Eastern Comma - 2/16	Long Dash - 9/30
Persius Duskywing - 5/20	

Abbreviations:

- plus various observers, MBC – Mass. Butterfly Club
AP – Allens Pond; APAN – Allens Neck section of Allens Pond
WS; ARNWR - Assabet River NWR; BFD – Barre Falls Dam;
BIM - Belle Isle Marsh; BMB-Broad Meadow Brook; CA –
Conservation Area; CG – Community Gardens; F&G – Fish and
Game; FS – Fannie Stebbins; GBH-Great Blue Hill; GN -
Gooseberry Neck; HMP – Horn Pond Mountain; MBWMA –
Martin Burns WMA; MCP – Mary Cumming’s Park; MSSF –
Myles Standish State Forest; NABA – NABA July count; NAC –
Nine Acre Corner; NCM – North Common Meadows; NP –
Newburyport; NRT - Norwottuck Rail Trail; NWR – National
Wildlife Refuge; PL – Power Line; SF – State Forest; SP – State
Park; SR – State Reservation; SRP - Slocum River Preserve; TOP -
The Ordway Property; TRPL – Turnpike Road Power Line;
WMA-Wildlife Management Area; WMWS- Wachusett Meadow
Wildlife Sanctuary; WS-Wildlife Sanctuary



Pipevine Swallowtail

8/2 Springfield 1 Karen Parker

Black Swallowtail

4/12 GBH,Canton 1 Tom Murray
 4/18 Boston Nature Center 1 Andrew Birch
 4/18 Mount Tom SR 2m Frank Model
 5/4 Danvers/Middleton 9m Matthew Arey
 5/27 Pittsfield 2 M.Lynch+S.Carroll
 5/28 GBH,Canton 8 Wendy Miller #
 5/29 Foxborough 1 Madeline Champagne
 6/16 Moran WMA,Windsor 2 Barbara Spencer
 6/27 RESCO Grasslands, Saugus 4 Jim Berry
 7/1 F&G Fields,Westborough 2 Dolores Price #
 7/8 GBH,Canton 7 M.Champagne+E.Nielsen
 7/15 Boston Nature Center 4 Andrew Birch
 7/16 Rehoboth 2 MBC (Lauren Miller)
 7/17 BIM,Boston/Revere 7 Andrew Birch
 7/19 Essex Agr. Inst., Danvers 18 Matthew Arey
 7/24 GBH,Canton 11 Madeline Champagne
 7/30 MCP, Burlington/Woburn 6 Erik Nielsen
 9/6 Old Town Hill,Newbury 8 Matthew Arey
 9/9 Wayland CG 2 Tom Whelan
 9/10 Northampton CG 5 S.Moore+B.Volkle
 9/16 NAC,Concord 7 S.Moore+B.Volkle
 9/17 Northampton CG 6 Tom Gagnon+Bill Benner
 9/22 AP,Dartmouth 5 Tom Whelan
 9/24 NAC,Concord 8 Erik Nielsen
 9/26 GN,Westport 2 Frank Model
 10/3 Joppa Flats,NP 1 Sharon Stichter
 10/4 Wayland CG 1 Barbara Volkle
 10/8 APAN,Dartmouth 1 Erik Nielsen

Canadian/Eastern Tiger Swallowtail

4/21 Whately 1 Bill Benner
 4/22 Bridgewater 1 Madeline Champagne
 4/29 E Longmeadow 1 Karen Parker
 4/29 Mount Tom SR 1 Bill Benner
 5/4 Danvers/Middleton 5 Matthew Arey
 5/8 Boston Nature Center 3 Andrew Birch
 5/27 BFD/Rutland SP 8 Barbara Walker
 5/28 Delaney WMA,Stow 3 MBC (Barbara Walker)
 5/28 GBH,Canton 6 Wendy Miller #
 5/28 Mount Greylock 6 Bill Benner #
 5/28 W Bridgewater 15 Don Adams
 5/29 Fairgrounds,Cummington 9 Earle Baldwin
 5/31 Tom Swamp,Petersham 4 Bill Benner #
 6/13 Mount Greylock 22 Tom Gagnon
 6/18 MBWMA,Newbury 3 Tom Whelan
 7/3 W Bridgewater 3 Don Adams
 7/6 Amesbury 2 Jim Berry
 7/28 Arlington Heights 1 Mary Rosenfeld
 7/30 Ipswich 2 Jim Berry
 8/18 Keith Farm,Chilmark 1 Allan Keith
 9/26 E Longmeadow 1 HL Parker

Eastern Tiger Swallowtail

4/20 Braintree 1 Maura Giles
 5/4 Wompatuck SP,Hingham 1 Erik Nielsen
 5/8 E Longmeadow 1 Karen Parker
 5/17 Newbury 1 Sharon Stichter
 5/27 Assabet River NWR 3 MBC (Volkle+Murray)
 5/28 Georgetown Rd. PL, Boxford 3 Matthew Arey
 5/29 Cummington 2 Barbara Spencer
 5/29 MBWMA,Newbury 5 Erik Nielsen
 5/31 Cape Ann 2 D.Savich+C.Tibbits
 6/13 Cummington 4 Barbara Spencer
 6/16 Moran WMA,Windsor 4 Barbara Spencer

6/17 BMB WS,Worcester 4 MBC (Barbara Walker)
 6/18 Cass Meadows,Athol 3 MBC (Carl Camp)
 7/1 Mount Greylock 10 M.Lynch+S.Carroll
 7/2 Tom Swamp,Petersham 5 M.Lynch+S.Carroll
 7/9 Little's Farm,Newbury 6 S.Perkins+E.Nielsen
 7/9 Quaboag WMA,Brookfield 6 M.Lynch+S.Carroll
 7/15 Hawley 3 M.Lynch+S.Carroll
 7/16 Rehoboth 1 MBC (Lauren Miller)
 7/18 Stichter Yard,Newbury 5f Sharon Stichter
 7/27 Old Town Hill,Newbury 6 Matthew Arey
 7/30 MCP, Burlington/Woburn 7 Erik Nielsen
 8/6 W Bridgewater 3 Don Adams
 8/9 Hamlin Res, Ipswich 14 Matthew Arey
 8/13 FS WMA,Longmeadow 9 MBC (Gagnon+Parker)
 8/18 Worcester Airport 6 M.Lynch+S.Carroll
 9/8 Natick 1 Glenn Long
 9/17 Northampton CG 1 Tom Gagnon+Bill Benner
 9/17 Old Town Hill,Newbury 1 Matthew Arey
 9/18 Legg's Hill,Marblehead 1 Karen Haley
 10/19 Marblehead 1 Karen Haley

Canadian Tiger Swallowtail

5/26 Tom Swamp,Petersham 3-5 Frank Model
 5/27 Agawam Bk IBA,Stockbridge 1 M.Lynch+S.Carroll
 5/27 Petersham 3 Barbara Spencer
 5/28 Mount Greylock 2 Bill Benner #
 5/31 Tom Swamp,Petersham 12 Bill Benner #
 6/11 WMWS,Princeton 1 S.Moore+B.Volkle
 6/17 Hawley 4 M.Lynch+S.Carroll
 7/1 Mount Greylock 2 M.Lynch+S.Carroll
 7/5 Cummington 1 Barbara Spencer
 7/9 N Berkshire NABA 6 Tom Tynning #

Spicebush Swallowtail

5/13 E Longmeadow 1 Karen Parker
 5/18 Boxford 1 Matthew Arey
 5/18 Dauphinais Park,Grafton 1 MBC (Dolores Price)
 5/20 Lamson Rd,Foxborough 1 MBC (Murray+Nielsen)
 5/26 Holyoke Range,Hadley 1 Bill Benner+Dave Small
 5/28 W Bridgewater 5 Don Adams
 6/19 Hamlin Res, Ipswich 3 Matthew Arey
 7/1 GBH,Canton 5 Madeline Champagne
 7/3 MCP, Burlington/Woburn 4 M.Rines+R.Lafontaine
 7/3 W Bridgewater 5 Don Adams
 7/8 GBH,Canton 13 M.Champagne+E.Nielsen
 7/19 Essex Agr. Inst., Danvers 8 Matthew Arey
 7/21 Blackstone Valley NABA 14 Tom Dodd #
 7/21 Middleboro NABA 4 Karen Holmes #
 7/28 Chilmark 2 Allan Keith
 7/30 MCP, Burlington/Woburn 3 Erik Nielsen
 8/6 W Bridgewater 5 Don Adams
 8/12 Worcester Airport 3 MBC (Dolores Price)
 8/13 FS WMA,Longmeadow 2 MBC (Gagnon+Parker)
 8/30 Cape Ann 2 D.Savich+C.Tibbits
 9/10 Quabbin Park,Belchertown 6 M.Lynch+S.Carroll
 9/24 Wayland CG 2 Erik Nielsen
 10/9 Tower Hill,Boylston 1 Elise Barry
 10/10 Stichter Yard,Newbury 1 Sharon Stichter

Checkered White

7/16 C Berkshire NABA 1 Tom Gagnon
 8/22 Marconi Beach,Welffleet 1f Karen Holmes

Mustard White

4/17 Lenox 7 Roger Pease
 4/20 Lenox 36+ Frank Model
 4/20 Williamstown 1 Pam Weatherbee
 5/4 Lenox 30-35 Barbara Spencer

7/16 C Berkshire NABA 5 Tom Gagnon
 9/12 New Lenox Rd.,Lenox 43 Barbara Spencer

West Virginia White

4/19 Cummington 5 Barbara Spencer
 4/20 Chesterfield 12 Frank Model
 4/20 Florence 1 Tom Gagnon
 4/21 Hitchcock Center,Amherst 1 Frank Model
 5/4 Hinsdale 1 Barbara Spencer
 5/5 Cummington 4-5 Barbara Spencer
 5/13 Williamstown 1 Pam Weatherby
 5/28 Mount Greylock 11 Bill Benner #
 5/29 Cummington 1 Barbara Spencer
 6/13 Mount Greylock 1 Tom Gagnon

Cabbage White

3/11 E Longmeadow 1 Karen Parker
 3/27 Boxford 1 Matthew Arey
 3/31 Chilmark 1 Allan Keith
 3/31 Holliston 1 Richard Hildreth
 3/31 Salem 1 Karen Haley
 3/31 Worcester 1 M.Lynch+S.Carroll
 4/28 BMB WS,Worcester 8 Tom Murray
 4/30 W Bridgewater 12+ Don Adams
 5/26 Boston Nature Center 50 Andrew Birch
 6/27 RESCO Grasslands, Saugus 47 Jim Berry
 7/1 MCP, Burlington/Woburn 35 MBC (Wright+Nielsen)
 7/5 Plum Island 20 Jim Berry
 7/9 Boston Nature Center 75 Andrew Birch
 7/15 Hawley 30 M.Lynch+S.Carroll
 7/17 BIM,Boston/Revere 75 Andrew Birch
 7/24 Legg's Hill,Marblehead 25+ Karen Haley
 7/30 MCP, Burlington/Woburn 86 Erik Nielsen
 8/5 Cape Ann 26 D.Savich+C.Tibbits
 8/10 Essex Agr. Inst., Danvers 35+ Matthew Arey
 8/20 BMB WS,Worcester 30 Barbara Walker
 8/31 Cape Ann 12 D.Savich+C.Tibbits
 9/4 Jug End Res.Egremont 31 M.Lynch+S.Carroll
 9/9 Wayland CG 100 S.Moore+B.Volkle
 9/10 Northampton CG 100 S.Moore+B.Volkle
 9/17 Northampton CG 75 Tom Gagnon+Bill Benner
 9/28 GN,Westport 34 Jo-ann Mullen
 9/30 Eastern Point,Gloucester 20 Brian Cassie
 10/7 Boston Nature Center 33 Andrew Birch
 10/8 Ipswich 45 Jim Berry
 10/9 GN,Westport 19 Paula Chasan
 10/9 Tower Hill,Boylston 6 Elise Barry
 10/19 GN,Westport 27 Jo-ann Mullen
 11/1 Chilmark 1 Allan Keith
 11/1 Umass Campus,Amherst 2 Jeff Boettner
 11/10 Boston Nature Center 1 Andrew Birch
 11/10 Plum Island 1 Jim Berry+Linda Pivacek
 11/13 Springfield 1 Karen Parker
 11/18 Little's Farm,Newbury 5 E.Nielsen+T.Raymond
 12/19 Turners Falls 1 Mark Fairbrother

Clouded Sulphur

4/11 Boston Nature Center 1 Andrew Birch
 4/15 Sherborn PL 2 Bob Bowker
 4/15 Ware 3 Melissa Martin
 4/17 Stichter Yard,Newbury 1 Sharon Stichter
 4/18 Holliston 2 Richard Hildreth
 5/7 Pike's Bridge Rd,W Newbury 11 Erik Nielsen
 5/7 Sherborn PL 10 MBC (Bob Bowker)
 5/21 Westport 21 M.Lynch+S.Carroll
 5/26 Boston Nature Center 12 Andrew Birch
 5/28 Delaney WMA,Stow 8 MBC (Barbara Walker)
 5/31 Danvers 12+ Matthew Arey

6/27 RESCO Grasslands, Saugus 9 Jim Berry
 7/15 Hawley 40 M.Lynch+S.Carroll
 7/17 BIM,Boston/Revere 18 Andrew Birch
 7/21 Middleboro NABA 99 Karen Holmes #
 8/21 Worcester Airport 12 M.Lynch+S.Carroll
 9/9 APAN,Dartmouth 64 Erik Nielsen #
 9/10 Hardwick 42 M.Lynch+S.Carroll
 9/17 Westport 120 M.Lynch+S.Carroll
 9/24 Arcadia WS,Easthampton 75+ MBC (Tom Gagnon)
 10/3 Old Town Hill,Newbury 13 Sharon Stichter
 10/7 Boston Nature Center 19 Andrew Birch
 10/9 AP,Dartmouth 35 Paula Chasan
 10/10 Umass Stadium,Amherst 12 Frank Model
 10/19 GN,Westport 42 Jo-ann Mullen
 10/21 Little's Farm,Newbury 13 Erik Nielsen
 11/1 Cape Ann 2 D.Savich+C.Tibbits
 11/1 W Tisbury 1 Matt Pelikan
 11/15 Halibut Point SP,Rockport 1 Jim Berry
 11/18 Little's Farm,Newbury 3 E.Nielsen+T.Raymond
 11/30 Dexter Drumlin, Lancaster 1 Bart Kamp

Orange Sulphur

4/19 Stichter Yard,Newbury 1 Sharon Stichter
 4/20 Ipswich 1 Jim Berry
 4/27 E Longmeadow 1 Karen Parker
 5/5 Chilmark 1 Allan Keith
 5/28 GBH,Canton 5 Wendy Miller #
 5/29 BMB WS,Worcester 3 Barbara Walker
 5/29 W Bridgewater 3 Don Adams
 5/31 NCM,Petersham 2 Bill Benner #
 6/16 Moran WMA,Windsor 6 Barbara Spencer
 6/27 RESCO Grasslands, Saugus 24 Jim Berry
 7/5 Plum Island 22 Jim Berry
 7/17 BIM,Boston/Revere 25 Andrew Birch
 7/23 Northampton NABA 107 Dottie Case #
 8/10 Essex Agr. Inst., Danvers 20+ Matthew Arey
 8/19 Katama,Edgartown 30+ Allan Keith
 9/9 NAC,Concord 20 S.Moore+B.Volkle
 9/11 New Lenox Rd.,Lenox 60 Barbara Spencer
 9/16 BFD,Hubbardston 200 Barbara Walker
 9/17 Westport 40+ M.Lynch+S.Carroll
 9/24 Arcadia WS,Easthampton 50+ MBC (Tom Gagnon)
 9/30 AP WS Quansett,Dartmouth 120 Erik Nielsen
 10/8 APAN,Dartmouth 103 Erik Nielsen
 10/8 Brewster 2 Frank Model
 10/8 Cummington 2 Barbara Spencer
 10/10 Northampton CG 20 Frank Model
 10/12 Prospect Hill, Topsfield 15 Matthew Arey
 10/22 APAN,Dartmouth 49 Erik Nielsen
 11/9 Northampton CG 3 Tom Gagnon
 11/9 Paxton 1 Elise Barry
 11/10 Barneys Joy, Dartmouth 4 Lauren Miller
 11/15 Halibut Point SP,Rockport 5 Jim Berry
 11/18 Little's Farm,Newbury 8 E.Nielsen+T.Raymond
 11/27 Newburyport 1 Andrew Birch

Cloudless Sulphur

8/22 Marconi Beach,Wellfleet 1f Karen Holmes
 9/7 W Tisbury 1 Matt Pelikan
 9/9 AP WS,Dartmouth 3 Lauren Miller #
 9/17 Acoaxet 1 M.Lynch+S.Carroll
 9/17 DLSP,Dartmouth 2 Brian Cassie
 9/17 Old Town Hill,Newbury 1 Matthew Arey
 9/17 Westport town beach 1 Brian Cassie
 9/22 AP,Dartmouth 2 Madeline Champagne
 9/25 W Tisbury 2 Matt Pelikan
 9/26 AP,Dartmouth 2 Frank Model
 9/26 GN,Westport 6 Frank Model

9/26 Horseneck Beach, Westport 1 Frank Model
 9/26 Sylvan Nursery, Westport 3 Frank Model
 10/4 Aquinnah 2 M.Lynch+S.Carroll
 10/9 Chatham 3 Frank Model
 10/9 GN, Westport 2 Paula Chasan
 10/9 Woods Hole 1 Matt Pelikan
 10/31 AP, Dartmouth 1 Ted Raymond

Harvester

5/25 BMB WS, Worcester 1 T.Murray+B.Walker
 6/6 Mystic Lakes, Medford 1 Renee LaFontaine
 7/23 Mystic Lakes, Arlington 7 R.Lafontaine+M.Rines
 8/13 FS WMA, Longmeadow 3 MBC (Gagnon+Parker)
 8/20 ML, Arlington/Medford 24 MBC (Renee LaFontaine)
 8/21 Bald Hill Res., Boxford 2 Andrew Birch
 9/4 Waltham 1 Jason Forbes

American Copper

4/27 Stage Rd PL., Chelmsford 1 Tom Whelan
 5/4 Danvers/Middleton 1 Matthew Arey
 5/5 Assabet River NWR 2 Barbara Volkle
 5/18 Lamson Rd, Foxborough 6 Madeline Champagne
 5/19 E Longmeadow 5 or 6 Karen Parker
 5/20 MSSF, Plymouth 5 MBC (Murray+Nielsen)
 5/21 Dauphinis Park, Grafton 17 MBC (Dolores Price)
 5/25 Lamson Rd, Foxborough 23 Madeline Champagne
 5/27 Assabet River NWR 16 MBC (Volkle+Murray)
 5/29 Essex Agr. Inst., Danvers 10+ Matthew Arey
 5/29 NCM, Petersham 9 Bill Benner #
 7/9 N Worcester NABA 318 Carl Camp #
 7/15 MV NABA 238 Matt Pelikan #
 7/16 Rehoboth 16 MBC (Lauren Miller)
 9/18 Stage Rd PL., Chelmsford 12 Tom Whelan
 9/30 GN, Westport 8-10 Madeline Champagne #
 10/9 Tuckermuck Island 3 Simon Perkins #
 10/20 Boston Nature Center 1 Andrew Birch
 10/21 Little's Farm, Newbury 1 Erik Nielsen
 11/4 Oak Bluffs 1 Matt Pelikan

Bronze Copper

7/9 N Berkshire NABA 1 Tom Tynning #
 7/11 S Berkshire NABA 2 Rene Laubach #
 7/16 C Berkshire NABA 1 Tom Tynning #
 9/4 Jug End Res, Egremont 1 M.Lynch+S.Carroll
 9/8 Wolbach Farm, Sudbury 1 Glenn Long
 9/9 Wayland CG 4 Tom Whelan
 10/7 GMNWR, Concord 3 B.Volkle+S.Moore
 10/8 Heard Farm CA, Wayland 3 Matt Pelikan
 10/9 NAC, Concord 19 Erik Nielsen
 10/9 Wayland CG 5 Erik Nielsen
 10/19 NAC, Concord 4f+ Tom Whelan

Bog Copper

7/3 Cape Ann 7 D.Savich+C.Tibbits
 7/8 C Franklin NABA 1467 Mark Fairbrother #
 7/8 Truro NABA 21 Tor Hansen #
 7/9 N Worcester NABA 11 Carl Camp #
 7/16 Tully Dam, Royalston 4 S.Moore+B.Volkle

Coral Hairstreak

7/7 MBWMA, Newbury 1 Sharon Stichter
 7/8 HPM, Woburn 1 S.Moore+B.Volkle
 7/8 Plum Island 2 Sharon+Joe Stichter
 7/9 Mount Greylock 1 Tom Gagnon #
 7/21 Stichter Yard, Newbury 1 Sharon Stichter
 7/24 GBH, Canton 7 Madeline Champagne
 7/27 Old Town Hill, Newbury 1 Matthew Arey
 7/29 GBH, Canton 7 Erik Nielsen

Acadian Hairstreak

7/1 HPM, Woburn 2 MBC (Wright+Nielsen)
 7/8 HPM, Woburn 3 S.Moore+B.Volkle
 7/11 S Berkshire NABA 1 Rene Laubach #
 7/16 C Berkshire NABA 30 Tom Gagnon

Edwards' Hairstreak

6/27 E Longmeadow 1 Karen Parker
 7/1 HPM, Woburn 7 MBC (Wright+Nielsen)
 7/2 GBH, Canton 5 Erik Nielsen
 7/3 MCP, Burlington/Woburn 6 M.Rines+R.Lafontaine
 7/8 GBH, Canton 15 M.Champagne+E.Nielsen
 7/8 HPM, Woburn 8 S.Moore+B.Volkle
 7/15 MV NABA 77 Matt Pelikan #
 7/24 GBH, Canton 3 Madeline Champagne
 7/29 GBH, Canton 3 Erik Nielsen

Banded Hairstreak

6/27 E Longmeadow 1 Karen Parker
 6/27 Horn Pond CG, Woburn 3 R.LaFontaine+M.Rines
 6/29 Foxborough 1 Madeline Champagne
 7/1 HPM, Woburn 14 MBC (Wright+Nielsen)
 7/2 GBH, Canton 17 Erik Nielsen
 7/3 E Longmeadow 2 Karen Parker
 7/8 GBH, Canton 39 M.Champagne+E.Nielsen
 7/9 Mount Greylock 16 Tom Gagnon #
 7/11 S Berkshire NABA 34 Rene Laubach #
 7/20 Barry Yard, Paxton 2 Elise Barry
 7/24 GBH, Canton 1 Madeline Champagne
 8/11 Barry Yard, Paxton 1 Elise Barry

Hickory Hairstreak

7/2 GBH, Canton 1 Erik Nielsen
 7/9 Mount Greylock 12 Tom Gagnon #
 7/10 Cummington 1 Barbara Spencer
 7/11 S Berkshire NABA 6 Rene Laubach #
 7/13 Cummington 1 Barbara Spencer
 7/15 GBH, Canton 1 Brian Cassie
 7/16 C Berkshire NABA 2 Tom Gagnon
 7/16 Falmouth NABA 1 Alison Robb #
 7/23 Northampton NABA 1 Dottie Case #

Striped Hairstreak

7/1 HPM, Woburn 4 MBC (Wright+Nielsen)
 7/2 GBH, Canton 4 Erik Nielsen
 7/3 E Longmeadow 1 Karen Parker
 7/8 HPM, Woburn 9 S.Moore+B.Volkle
 7/9 Mount Greylock 3 Tom Gagnon #
 7/9 N Berkshire NABA 7 Tom Tynning #
 7/9 N Worcester NABA 4 Carl Camp #
 7/15 Oak Bluffs 3 Allan Keith
 7/16 C Berkshire NABA 8 Tom Tynning #
 7/16 Rehoboth 2 MBC (Lauren Miller)
 7/21 Blackstone Valley NABA 7 Tom Dodd #
 7/23 Northampton NABA 1 Dottie Case #
 8/5 Cape Ann 1 D.Savich+C.Tibbits

Oak Hairstreak

6/30 E Longmeadow 1 Karen Parker
 7/3 MCP, Burlington/Woburn 1 M.Rines #
 7/15 MV NABA 2 Matt Pelikan #

Brown Elfin

4/10 Cape Ann 1 D.Savich+C.Tibbits
 4/12 GBH, Canton 6 Tom Murray
 4/12 HPM, Woburn 3 Rines+LaFontaine
 4/20 Middlesex Fells 1 Renee LaFontaine
 4/21 HPM, Woburn 5 Tom Whelan

4/21 TRPL,Chelmsford	3 Tom Whelan	6/11 Cummington	1 Barbara Spencer
4/26 Stage Rd PL, Chelmsford	3 Tom Whelan	6/11 Dauphinais Park,Grafton	1 Dolores Price #
4/27 BMB WS,Worcester	3 Barbara Walker	6/11 Deborah Rd PL, Walpole	1 Erik Nielsen
4/28 HPM,Woburn	8 Renee LaFontaine	6/12 Moore SP,Paxton	1 Elise Barry
4/30 Great Meadow,Arlington	2 Tom Whelan	6/19 Hamlin Res, Ipswich	1 Matthew Arey
4/30 Pamet,Truro	3 Alison Robb	Juniper Hairstreak	
4/30 WMWS, Princeton	1 Erik Nielsen+Seth Sweet	5/25 Juniper Hill,Lexington	1 Tom Whelan
5/5 Stage Rd PL, Chelmsford	4 Tom Whelan	5/26 Holyoke Range,Hadley	1 Bill Benner+Dave Small
5/7 Sherborn PL	10 MBC (Bob Bowker)	5/28 Juniper Hill,Lexington	3 Wendy Miller #
5/20 MSSF,Plymouth	27 MBC (Murray+Nielsen)	6/7 GBH,Canton	1 Barbara Spencer
5/24 BMB WS,Worcester	1 D.Price+J.Mullen	6/9 Salt Pond,Falmouth	2 Alison Robb
5/28 Crane WMA,Falmouth	1 Alison Robb	7/24 GBH,Canton	1 Madeline Champagne
5/30 MSSF,Plymouth	11 Tom Murray #	7/27 Old Town Hill,Newbury	1 Matthew Arey
Hoary Elfin		Hessel's Hairstreak	
5/20 MSSF,Plymouth	16 MBC (Murray+Nielsen)	5/25 Ponkopaug Bog,Canton	1 T.Whehan+T.Murray
5/28 Crane WMA,Falmouth	1 Alison Robb	5/31 Ponkopaug Bog,Canton	2 Tom Murray #
5/30 MSSF,Plymouth	6 Tom Murray #	White M Hairstreak	
6/12 Crane WMA,Falmouth	2 Alison Robb	5/7 E Longmeadow	1 Karen Parker
Frosted Elfin		7/8 GBH,Canton	1 M.Champagne+E.Nielsen
4/27 Lamson Rd,Foxborough	1 Madeline Champagne	9/4 Northampton CG	1 Tom Gagnon
5/5 Stage Rd PL, Chelmsford	2 Tom Whelan	9/9 AP WS, Dartmouth	6 Lauren Miller #
5/7 Lamson Rd,Foxborough	32 Madeline Champagne	9/9 Sylvan Nursery,Westport	1 Lauren Miller #
5/18 Stage Rd PL, Chelmsford	4 Tom Whelan	9/17 AP WS,Dartmouth	8 Gina Purtell #
5/20 Lamson Rd,Foxborough	41 MBC (Murray+Nielsen)	9/17 Sylvan Nursery,Westport	1 Tom Murray
5/28 Crane WMA,Falmouth	2 Alison Robb	9/28 Hoft Farm,W Tisbury	1 Matt Pelikan
5/28 Lamson Rd,Foxborough	113 Madeline Champagne	10/10 Hoft Farm,W Tisbury	3 Matt Pelikan
5/31 Lockwood CA, Boxford	1 Matthew Arey	Gray Hairstreak	
6/1 Lamson Rd,Foxborough	127 Madeline Champagne	4/20 Lamson Rd,Foxborough	1 Madeline Champagne
6/12 Crane WMA,Falmouth	1 Alison Robb	4/21 HPM,Woburn	1 Tom Whelan
Henry's Elfin		4/29 Holyoke	1 Bill Benner
4/21 HPM,Woburn	1 Tom Whelan	5/6 Prospect Hill,Waltham	1 Jason Forbes
4/21 Oxbow NWR,Harvard	1 Tom Murray	5/7 Sherborn PL	3 MBC (Bob Bowker)
4/27 Boxford	1 Matthew Arey	7/8 C Franklin NABA	3 Mark Fairbrother #
4/29 Oxbow NWR,Harvard	2 Tom Murray	7/8 GBH,Canton	2 M.Champagne+E.Nielsen
4/30 Great Meadow,Arlington	4 Tom Whelan	7/27 Old Town Hill,Newbury	3 Matthew Arey
5/6 Plum Island	1 Erik Nielsen	8/16 Northampton CG	1 Tom Gagnon
5/7 Sherborn PL	2 MBC (Bob Bowker)	8/26 HPM,Woburn	8 Marj. Rines #
5/30 Lamson Rd,Foxborough	1 Tom Murray #	9/7 Stage Rd PL, Chelmsford	3 Tom Whelan
5/30 Tom Swamp,Petersham	1 Barbara Spencer	9/21 Northampton CG	1 Barbara Spencer
Bog Elfin		9/25 MV	1 Matt Pelikan
5/29 Tom Swamp,Petersham	1 Bill Benner #	9/30 APAN,Dartmouth	1 Erik Nielsen
5/30 Tom Swamp,Petersham	2 Barbara Spencer	9/30 Slocum River Preserve,	1 Erik Nielsen
Eastern Pine Elfin		10/5 Northampton CG	1 Frank Model
3/29 Burlington	1 Marj Rines+Renee	10/9 October Mountain SF	1 Tom Gagnon
3/29 New Salem	1 Ron+Sue Cloutier	Early Hairstreak	
3/31 Holliston	1 Richard Hildreth	5/28 Mount Greylock	20 Bill Benner #
4/15 Holliston	4 Richard Hildreth	6/13 Mount Greylock	4 Tom Gagnon
4/20 Lamson Rd,Foxborough	1 Madeline Champagne	Eastern Tailed-Blue	
4/20 New Salem	1 Barbara Spencer	4/28 BMB WS,Worcester	2 Tom Murray
4/21 Oxbow NWR,Harvard	5 Tom Murray	4/28 MBWMA,Newbury	2 Sharon+Joe Stichter
4/27 Middlesex Fells	1 Renee LaFontaine	4/30 Oxbow NWR,Harvard	2 MBC (Tom Murray)
4/27 NRT, Amherst/Belchertown	4 Frank Model	5/4 Cape Ann	4 D.Savich+C.Tibbits
4/28 Assabet River NWR	10 Tom Murray	5/6 Prospect Hill,Waltham	1 Jason Forbes
4/28 E Longmeadow	4-5 Karen Parker	5/7 Crane WMA,Falmouth	2 Alison Robb
4/29 G37,Quabbin	17 Erik Nielsen+Seth Sweet	5/7 Lamson Rd,Foxborough	12 Madeline Champagne
4/30 Oxbow NWR,Harvard	25 MBC (Tom Murray)	5/7 Sherborn PL	2 MBC (Bob Bowker)
5/7 MBWMA,Newbury	7 Erik Nielsen+Seth Sweet	5/24 BMB WS,Worcester	10 D.Price+J.Mullen
5/7 Sherborn PL	8 MBC (Bob Bowker)	5/28 Delaney WMA,Stow	10 MBC (Barbara Walker)
5/20 MSSF,Plymouth	12 MBC (Murray+Nielsen)	5/28 MBWMA,Newbury	22 MBC (Sharon Stichter)
5/27 Assabet River NWR	15 MBC (Volkle+Murray)	5/28 Moran WMA,Windsor	1 Bill Benner #
5/27 BFD/Rutland SP	15 Barbara Walker	5/29 BMB WS,Worcester	6 Barbara Walker
5/28 Delaney WMA,Stow	8 MBC (Barbara Walker)	5/29 MBWMA,Newbury	18 Erik Nielsen
5/29 Tom Swamp,Petersham	4 Bill Benner #	5/30 TRPL,Chelmsford	4 Tom Whelan
5/31 E Longmeadow	1 Karen Parker		

6/11 Dauphinais Park,Grafton	5 Dolores Price #	7/1 MCP, Burlington/Woburn	6 MBC (Wright+Nielsen)
6/17 BMB WS,Worcester	3 MBC (Barbara Walker)	7/4 AP,Dartmouth	1 Erik Nielsen
7/8 Boston Nature Center	18 Andrew Birch	7/6 CRPL,Chelmsford	2 Tom Whelan
7/8 GBH,Canton	22 M.Champagne+E.Nielsen	7/8 C Franklin NABA	21 Mark Fairbrother #
7/16 Millenium Park, Roxbury	31 Andrew Birch	7/8 GBH,Canton	14 M.Champagne+E.Nielsen
8/10 Choate Farm CA, Danvers	35+ Matthew Arey	7/9 Cape Ann	1 D.Savich+C.Tibbits
8/12 Worcester Airport	10 MBC (Dolores Price)	7/9 Marion	1 Mike Maurer
8/13 FS WMA,Longmeadow	13 MBC (Gagnon+Parker)	7/9 N Berkshire NABA	10 Tom Tynning #
8/26 HPM,Woburn	46 Marj. Rines #	7/9 N Essex NABA	12 Sharon Stichter #
9/9 APAN,Dartmouth	14 Lauren Miller #	7/9 N Worcester NABA	11 Carl Camp #
9/11 New Lenox Rd,Lenox	12 Barbara Spencer	7/15 Concord NABA	23 Dick Walton #
9/24 Arcadia WS,Easthampton	25+ MBC (Tom Gagnon)	7/15 Hawley	1 M.Lynch+S.Carroll
10/7 Royalston	3 Carl Kamp	7/16 Cape Ann	11 D.Savich+C.Tibbits
10/8 APAN,Dartmouth	1 Erik Nielsen	7/21 Blackstone Valley NABA	20 Tom Dodd #
10/8 Hamilton	1 Karen Haley	8/4 E Longmeadow	2 Karen Parker
10/8 Northampton CG	1 Tom Gagnon	8/13 FS WMA,Longmeadow	4 MBC (Gagnon+Parker)
10/8 Oak Bluffs	1 Matt Pelikan	8/17 Old Town Hill,Newbury	2 Matthew Arey
10/9 New Lenox Rd,Lenox	4 Tom Gagnon	8/26 HPM,Woburn	2 Marj. Rines #
10/12 Groveland	1 Matthew Arey	9/9 Shaw Rd, Fairhaven	1 Mike Maurer
		9/9 Sylvan Nursery,Westport	3 Lauren Miller #
		9/16 Palmer	1 Karen Parker
		9/17 Prospect Hill, Topsfield	1 Matthew Arey
Spring Azure		Silvery Blue	
3/29 Lincoln	2 Simon Perkins	5/8 Rutland SP	2 Elise Barry
3/31 E Longmeadow	2 Karen Parker	5/27 Assabet River NWR	3 MBC (Volkle+Murray)
3/31 Oxbow NWR,Harvard	1 Tom Murray #	5/28 Delaney WMA,Stow	98 MBC (Barbara Walker)
4/1 Rocky Woods, Medfield	1 Erik Nielsen+Seth Sweet	5/28 Moran WMA,Windsor	1 Bill Benner #
4/2 Worcester	1 Dolores Price	5/28 Oxbow NWR,Harvard	1 Jason Forbes
4/9 Wrentham CA	1 Madeline Champagne	5/29 Pump House, Petersham	2 Bill Benner #
4/10 Cape Ann	1 D.Savich+C.Tibbits	5/31 NCM,Petersham	3 Bill Benner #
4/12 Oxbow NWR,Harvard	9 Tom Whelan	6/1 Ballard Hill RA,Lancaster	1 Tom Murray
4/12 Paxton	2 Elise Barry	6/11 WMWS,Princeton	6 S.Moore+B.Volkle
4/15 Assabet River NWR	60 B.Volkle+S.Moore	6/12 Moore SP,Paxton	1 Elise Barry
4/15 Sherborn PL	23 Bob Bowker	6/12 Tully Meadow, Royalston	21 Carl Kamp
4/17 Lenox	1 Roger Pease	6/13 Mount Greylock	5 Tom Gagnon
4/19 Stichter Yard,Newbury	4 Sharon Stichter	6/16 Moran WMA,Windsor	12 Barbara Spencer
4/20 Cape Ann	20 D.Savich+C.Tibbits	Variegated Fritillary	
4/20 Lamson Rd,Foxborough	6 Madeline Champagne	6/19 Hamlin Res, Ipswich	1 Matthew Arey
4/26 Cape Ann	15 D.Savich+C.Tibbits	7/11 S Berkshire NABA	2 Rene Laubach #
4/28 BMB WS,Worcester	11 Tom Murray	7/15 MV NABA	1 Matt Pelikan #
4/29 G37,Quabbin	13 Erik Nielsen+Seth Sweet	7/26 Northampton CG	1 Frank Model
4/30 Brentwood CA,Holliston	25 Bob Bowker	8/19 Prospect Hill, Topsfield	2 Matthew Arey
4/30 Cape Ann	18 D.Savich+C.Tibbits	9/17 Westport	1 M.Lynch+S.Carroll
4/30 Oxbow NWR,Harvard	30 MBC (Tom Murray)	9/24 Northampton CG	3 MBC (Tom Gagnon)
5/7 Sherborn PL	45 MBC (Bob Bowker)	10/2 Cape Ann	1 D.Savich+C.Tibbits
5/8 Rutland SP	10 Elise Barry	10/5 GN,Westport	1 Madeline Champagne
5/20 MSSF,Plymouth	15 MBC (Murray+Nielsen)	10/10 Northampton CG	1 T.Gagnon+F.Model
5/23 Chelmsford PL	12 Tom Whelan	Great Spangled Fritillary	
5/27 BFD/Rutland SP	50+ Barbara Walker	6/21 Foxborough	1 Madeline Champagne
5/28 Moran WMA,Windsor	2 Bill Benner #	6/27 MBWMA,Newbury	4 Sharon Stichter #
5/28 Oxbow NWR,Harvard	6 Jason Forbes	6/30 BFD,Hubbardston	1 Elise Barry #
5/29 BMB WS,Worcester	2 Barbara Walker	7/1 Mount Greylock	5 M.Lynch+S.Carroll
5/29 Sherborn PL	4 Bob Bowker	7/3 E Longmeadow	2 Karen Parker
Cherry Gall Azure		7/4 Assabet River NWR	2 Jason Forbes
5/21 Dauphinais Park,Grafton	2 MBC (Dolores Price)	7/4 Hunsley Hills CA,Rowley	4 Sharon Stichter
5/25 Juniper Hill,Lexington	4 Tom Whelan	7/7 MBWMA,Newbury	8 Sharon Stichter
5/25 Ponkapaug Bog,Canton	8 Tom Whelan	7/8 Boston Nature Center	1 Andrew Birch
5/26 Quabbin Park,Belchertown	1 Bill Benner+Dave Small	7/8 GBH,Canton	4 M.Champagne+E.Nielsen
5/26 Wilbraham	1 Carl Kamp #	7/8 Moran WMA,Windsor	5 M.Lynch+S.Carroll
5/27 Assabet River NWR	1 MBC (Volkle+Murray)	7/8 W Bridgewater	4 Don Adams
5/29 MBWMA,Newbury	3 Erik Nielsen	7/10 Dunback Meadows,Lexington	6 Andrew Birch
5/31 Tom Swamp,Petersham	3 Bill Benner #	7/12 Witch Hollow Farm, Boxford	20 Matthew Arey
6/11 Deborah Rd PL, Walpole	4 Erik Nielsen	7/15 Hawley	15 M.Lynch+S.Carroll
6/11 E Bridgewater	1 Eddie Giles	7/16 Rehoboth	7 MBC (Lauren Miller)
'Summer' Spring Azure		8/11 MBWMA,Newbury	4 Sharon Stichter
6/21 Barry Yard, Paxton	1 Elise Barry		
7/1 GBH,Canton	2 Madeline Champagne		
7/1 Mount Greylock	4 M.Lynch+S.Carroll		

8/12 Worcester Airport	3	MBC (Dolores Price)	9/17 Northampton CG	14	Tom Gagnon+Bill Benner
8/13 FS WMA,Longmeadow	1	MBC (Gagnon+Parker)	10/8 Slocum River Preserve,	29	Erik Nielsen
9/17 Northampton CG	1	Tom Gagnon+Bill Benner	10/10 Umass Stadium,Amherst	2	Frank Model
9/17 Prospect Hill, Topsfield	1	Matthew Arey	10/12 Groveland	2	Matthew Arey
9/27 Barry Yard, Paxton	1	Elise Barry	10/15 Barnstable	2	Alison Robb
10/8 Northampton CG	2	Tom Gagnon	10/21 Little's Farm,Newbury	1	Erik Nielsen
10/9 October Mountain SF	1	Tom Gagnon			
10/10 Northampton CG	1	Barbara Spencer			

Atlantis Fritillary

7/1 Mount Greylock	1	M.Lynch+S.Carroll
7/8 Moran WMA,Windsor	3	M.Lynch+S.Carroll
7/15 Hawley	9	M.Lynch+S.Carroll
7/16 C Berkshire NABA	12	Tom Gagnon

Meadow/Silver-Bordered Fritillary

10/7 Williamstown	10	Pam Weatherbee
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Silver-bordered Fritillary

5/24 Cape Ann	9	D.Savich+C.Tibbits
5/26 Quabbin Park,Belchertown	1	Bill Benner+Dave Small
5/29 Sherborn PL	2	Bob Bowker
6/5 Cape Ann	102	D.Savich+C.Tibbits
7/8 C Franklin NABA	48	Mark Fairbrother #
7/16 Rehoboth	3	MBC (Lauren Miller)
8/13 Cape Ann	155	D.Savich+C.Tibbits
8/13 FS WMA,Longmeadow	1	MBC (Gagnon+Parker)
9/1 Cape Ann	78	D.Savich+C.Tibbits
9/5 Joppa Flats,NP	1	Sharon Stichter
9/9 AP WS Quansett,Dartmouth	1	Erik Nielsen
9/15 Cape Ann	7	D.Savich+C.Tibbits

Meadow Fritillary

7/8 C Franklin NABA	19	Mark Fairbrother #
7/11 S Berkshire NABA	10	Rene Laubach #

Harris' Checkerspot

5/29 MBWMA,Newbury	1	S.Moore+B.Volkle
6/13 MBWMA,Newbury	1	Sharon Stichter
6/17 BMB WS,Worcester	29	MBC (Barbara Walker)
6/18 MBWMA,Newbury	10	Tom Whelan
6/27 MBWMA,Newbury	6	Sharon Stichter #
7/5 NCM,Petersham	1	Ron+Sue Cloutier

Pearl Crescent

5/5 Oxbow NWR,Harvard	1	Tom Murray
5/7 MBWMA,Newbury	2	Erik Nielsen+Seth Sweet
5/8 Boston Nature Center	1	Andrew Birch
5/18 Boxford	12	Matthew Arey
5/21 Dauphinis Park,Grafton	16	MBC (Dolores Price)
5/24 Cape Ann	89	D.Savich+C.Tibbits
5/26 Quabbin Park,Belchertown	6	Bill Benner+Dave Small
5/27 BFD/Rutland SP	35	Barbara Walker
5/28 Delaney WMA,Stow	15	MBC (Barbara Walker)
5/28 Lincoln	15	Jason Forbes
5/28 MBWMA,Newbury	40	MBC (Sharon Stichter)
5/29 Cape Ann	190	D.Savich+C.Tibbits
5/29 Cummington	3	Barbara Spencer
5/29 MBWMA,Newbury	53	Erik Nielsen
5/29 Sherborn PL	30	Bob Bowker
5/30 MSSF,Plymouth	10	Tom Murray #
5/31 Lockwood CA, Boxford	25	Matthew Arey
5/31 NCM,Petersham	18	Bill Benner #
6/5 Cape Ann	181	D.Savich+C.Tibbits
6/13 Norcross WS,Monson	14	J.Ohop+E.Barry
7/23 Northampton NABA	920	Dottie Case #
8/13 Cape Ann	257	D.Savich+C.Tibbits
9/16 BFD,Hubbardston	30	Barbara Walker
9/16 Ware River Watershed	39	M.Lynch+S.Carroll

Baltimore Checkerspot

6/15 W Bridgewater	1	Don Adams
6/29 W Bridgewater	38	Don Adams
7/3 Shutesbury	1057	T.Gagnon+C.Gentes
7/3 W Bridgewater	200	Don Adams
7/4 AP,Dartmouth	62	Erik Nielsen
7/9 Ipswich	16	Jim Berry
7/9 MPRA,W Newbury	310	S.Perkins+E.Nielsen
7/12 Witch Hollow Farm, Boxford	12	Matthew Arey
7/21 Blackstone Valley NABA	99	Tom Dodd #

Question Mark

4/20 Forest River Park, Salem	1	Matthew Arey
4/29 Oxbow NWR,Harvard	1	Tom Murray
5/27 Cape Ann	1	D.Savich+C.Tibbits
6/1 Ipswich	1	Jim Berry
6/5 Northborough	1	Barbara Volkle
6/11 Deborah Rd PL, Walpole	2	Erik Nielsen
6/30 BFD,Hubbardston	1	Elise Barry #
7/1 Mount Greylock	1	M.Lynch+S.Carroll
7/8 W Bridgewater	1	Don Adams
7/9 DCR Res., Dorchester	1	Andrew Birch
7/14 ML,Arlington/Medford	1	LaFontaine+Rines
7/16 Cape Ann	1	D.Savich+C.Tibbits
7/19 Essex Agr. Inst., Danvers	2	Matthew Arey
7/30 Arlington	2	Mary Rosenfeld
8/16 Stichter Yard,Newbury	1	Sharon Stichter
9/4 Bridge School, Lexington	1	Tom Whelan
10/9 Tuckernuck Island	3	Simon Perkins #
11/1 Concord	1	Simon Perkins
11/11 AP WS Quansett,Dartmouth	1	Erik Nielsen
11/11 E Chop,Oak Bluffs	1	Matt Pelikan

Eastern Comma

2/16 Assabet River NWR	1	Donna Holinger
3/24 Boxford	1	Matthew Arey
3/28 Paine Estate,Waltham	1	Jason Forbes
3/29 E Longmeadow	1	Karen Parker
3/30 Lincoln	1	Simon Perkins
3/30 Mount Tom SR	5	Tom Gagnon
3/30 Round Hill,Sudbury	2	Mary Rosenfeld
3/31 Wompatuck SP,Hingham	4	Erik Nielsen
4/2 Worcester	2	Dolores Price
4/20 Brooks Estate, Medford	1	Renee LaFontaine
4/30 Oxbow NWR,Harvard	3	MBC (Tom Murray)
6/27 E Longmeadow	2	Karen Parker
6/28 F&G Fields,Westborough	5	Dolores Price #
7/5 Cummington	1	Barbara Spencer
7/9 Boston Nature Center	1	Andrew Birch
7/9 W Bridgewater	1	Don Adams
7/15 Forest Park,Springfield	1	Tom Gagnon
7/19 Essex Agr. Inst., Danvers	1	Matthew Arey
7/29 Holliston	1	Richard Hildreth
7/30 Northampton CG	1	Frank Model
8/4 E Longmeadow	1	Karen Parker
8/13 FS WMA,Longmeadow	15	MBC (Gagnon+Parker)
9/24 Putnamville Res., Danvers	2	Matthew Arey
10/3 W Meadows,Northampton	1	Frank Model
10/7 Concord Sewage Plant	2	B.Volkle+S.Moore
10/14 Wayland CG	2	Seth Sweet+Erik Nielsen
10/14 Wenham Canal	1	Alex Krkovich

10/15 E Longmeadow 2-3 Karen Parker
 10/15 Nashua River Watershed IBA 1 M.Lynch+S.Carroll
 10/21 E Longmeadow 1 Karen Parker
 11/9 W Meadows,Northampton 1 Tom Gagnon
 12/1 Kieran Sanctuary, Rockport 1 Rick Heil

Compton Tortoiseshell

3/10 Cummington (Barn Studio) 1 Barbara Spencer
 3/27 Cummington 1 Barbara Spencer
 3/27 Dedham 1 Ted Raymond
 3/28 Shirley 3 Julie Lisk
 3/31 Boxford 2 Jim Berry
 3/31 Holliston 2 Richard Hildreth
 3/31 Oxbow NWR,Harvard 3 Tom Murray #
 4/1 Quabbin Park,Belchertown 1 M.Lynch+S.Carroll
 4/1 Rocky Woods, Medfield 3 Erik Nielsen+Seth Sweet
 4/12 Assabet River NWR 3-4 Barbara Volkle
 4/15 Pike's Bridge Rd,W Newbury 1 Erik Nielsen
 4/30 Oxbow NWR,Harvard 3 MBC (Tom Murray)
 7/7 MBWMA,Newbury 2 Sharon Stichter
 7/9 Mount Greylock 29 Tom Gagnon #
 9/24 Putnamville Res., Danvers 1 Matthew Arey
 10/8 Cummington 2 Barbara Spencer
 10/8 Royalston 1 Carl Kamp

Mourning Cloak

1/12 Brookline 1 Brian Cassie
 2/16 Boxford 1 Matthew Arey
 2/16 Tisbury 1 Matt Pelikan
 3/23 BMB WS,Worcester 1 Barbara Walker
 3/23 Cape Ann 1 D.Savich+C.Tibbits
 3/23 IRWS,Topsfield 1 Fred Goodwin
 3/23 Mount Tom SR 1 Randy Kuerzel
 3/23 Round Hill,Sudbury 2 Dick Walton
 3/23 Tisbury 3 Matt Pelikan
 3/27 E Longmeadow 1 Karen Parker
 3/27 MNWS,Marblehead 1 Karen Haley
 3/29 Burlington 2 Marj Rines+Renee
 3/29 Lincoln 2 Simon Perkins
 3/29 New Salem 6 Ron+Sue Cloutier
 3/30 Mount Tom SR 33 Tom Gagnon
 3/31 IRWS,Topsfield 11 Fred Goodwin
 3/31 Oxbow NWR,Harvard 5 Tom Murray #
 4/1 Broadmoor WS,Natick 3 Bob Bowker
 4/1 W Bridgewater 1 Don Adams
 4/2 Sagamore 1 M.Lynch+S.Carroll
 4/9 Mount Tom SR 18 MBC (Tom Gagnon)
 4/12 IRWS,Topsfield 30+ Matthew Arey
 4/14 Assabet River NWR 2 Jason Forbes
 4/20 Holliston 1 Richard Hildreth
 4/20 Lamson Rd,Foxborough 3 Madeline Champagne
 4/30 Oxbow NWR,Harvard 18 MBC (Tom Murray)
 5/21 Dauphinais Park,Grafton 2 MBC (Dolores Price)
 5/28 Mount Greylock 6 Bill Benner #
 5/29 Cummington 2 Barbara Spencer
 7/8 GBH,Canton 9 M.Champagne+E.Nielsen
 7/8 W Bridgewater 5 Don Adams
 7/16 C Berkshire NABA 20 Tom Tynning #
 9/16 BFD,Hubbardston 3 Barbara Walker
 10/8 Ipswich 2 Jim Berry
 10/18 Concord 1 Sharon Stichter
 11/1 Broadmoor WS,Natick 1 Andrew Birch
 11/1 S Dartmouth 1 Mike Maurer
 11/18 Marion 1 Mike Maurer

Milbert's Tortoiseshell

3/29 Salem State College 1 Matthew Arey
 4/21 Oxbow NWR,Harvard 1 Tom Murray

5/7 Stichter Yard,Newbury 2 Sharon Stichter
 5/18 Boxford 1 Matthew Arey
 5/29 Auburn Rte.20 PL 1 Barbara Walker
 6/19 Stichter Yard,Newbury 10 (rel.) Sharon Stichter
 9/10 Hardwick 1 M.Lynch+S.Carroll
 10/9 Chatham 2 Frank Model

American Lady

4/14 Belchertown 1 R.Cloutier+F.Model
 4/14 Stichter Yard,Newbury 1 Sharon Stichter
 4/29 E Longmeadow 1 Karen Parker
 4/30 Boxford 4 Matthew Arey
 5/18 Cape Ann 2 D.Savich+C.Tibbits
 5/18 Dauphinais Park,Grafton 3 MBC (Dolores Price)
 5/27 Assabet River NWR 3 MBC (Volkle+Murray)
 5/27 BFD/Rutland SP 4 Barbara Walker
 5/28 MBWMA,Newbury 11 MBC (Sharon Stichter)
 5/31 Lockwood CA, Boxford 4 Matthew Arey
 7/15 Tisbury 2 Allan Keith
 9/9 Sylvan Nursery,Westport 4 Lauren Miller #
 10/2 Cape Ann 2 D.Savich+C.Tibbits
 10/21 Little's Farm,Newbury 1 Erik Nielsen
 11/11 E Chop,Oak Bluffs 1 Matt Pelikan

Painted Lady

4/12 IRWS,Topsfield 1 Matthew Arey
 5/6 Boston Nature Center 1 Andrew Birch
 5/6 Prospect Hill,Waltham 1 Jason Forbes
 5/18 Boston Nature Center 3 Andrew Birch
 5/28 W Bridgewater 2 Don Adams
 5/29 Sherborn PL 1 Bob Bowker
 7/8 GBH,Canton 2 M.Champagne+E.Nielsen
 7/8 Truro NABA 1 Tor Hansen #
 7/10 GBH,Canton 1 Madeline Champagne
 7/21 Middleboro NABA 1 Karen Holmes #
 9/4 Florence 1 Tom Gagnon
 9/16 Boxborough 1 S.Moore+B.Volkle
 9/20 Marblehead 1 Karen Haley
 9/24 Hogan Reg Ctr, Middleton 1 Matthew Arey
 10/8 Tuckermuck Island 16 Simon Perkins #
 10/22 APAN,Dartmouth 2 Erik Nielsen

Red Admiral

5/21 Stichter Yard,Newbury 1 Sharon Stichter
 5/24 Foxborough 1 Madeline Champagne
 5/26 Boston Nature Center 1 Andrew Birch
 5/27 Dunback Meadows,Lexington 1 Tom Whelan
 5/28 W Bridgewater 2 Don Adams
 5/29 Cummington 1 Barbara Spencer
 5/29 Foxborough 1 Madeline Champagne
 5/30 Ponkopaug Bog,Canton 1 Tom Murray #
 7/1 Mount Greylock 2 M.Lynch+S.Carroll
 7/2 Ipswich 1 Jim Berry
 7/8 C Franklin NABA 1 Mark Fairbrother #
 7/9 N Berkshire NABA 1 Tom Tynning #
 7/9 N Essex NABA 3 Sharon Stichter #
 7/11 S Berkshire NABA 1 Rene Laubach #
 7/16 Dunback Meadows,Lexington 4 Tom Whelan #
 7/21 Blackstone Valley NABA 2 Tom Dodd #
 7/23 Boston NABA 9 Andrew Birch #
 9/7 Gay Head 2 Allan Keith
 9/9 AP WS Quansett,Dartmouth 5 Lauren Miller #
 10/14 Baldwinville 1 Earle Baldwin
 10/14 Chilmark 2 Allan Keith
 10/14 Wenham Canal 1 Alex Grkovich
 10/19 GN,Westport 2 Jo-ann Mullen
 10/24 Boston Nature Center 2 Andrew Birch
 10/25 Chappaquidic,Edgartown 1 Allan Keith

11/1 Stichter Yard,Newbury	1 Joe Stichter	6/4 Lenox	1 NABA (Bill Benner)
11/10 Chilmark	1 Allan Keith	6/11 Amesbury	1 Jim Berry
Common Buckeye		6/11 Dauphinis Park,Grafton	3 Dolores Price #
4/30 Boxford	1 Matthew Arey	6/12 Tully Meadow, Royalston	2 Carl Kamp
6/21 Boston Nature Center	1 Andrew Birch	6/13 Cummington	1 Barbara Spencer
7/4 BMB WS,Worcester	1 Michael Walker	6/13 MBWMA,Newbury	3 Sharon Stichter
7/6 CRPL,Chelmsford	1 Tom Whelan	6/17 BMB WS,Worcester	4 MBC (Barbara Walker)
7/8 GBH,Canton	1 M.Champagne+E.Nielsen	6/18 MBWMA,Newbury	3 Tom Whelan
7/27 Old Town Hill,Newbury	5 Matthew Arey	7/23 Northampton NABA	22 Dottie Case #
7/29 Oak Bluffs	1 Matt Pelikan	8/11 MBWMA,Newbury	8 Sharon Stichter
8/1 Stichter Yard,Newbury	3 Sharon Stichter	9/4 Jug End Res,Egremont	3 M.Lynch+S.Carroll
8/8 Boston Nature Center	1 Andrew Birch	9/7 Stage Rd PL, Chelmsford	2 Tom Whelan
8/13 FS WMA,Longmeadow	1 MBC (Gagnon+Parker)	9/16 BFD,Hubbardston	5 Barbara Walker
8/20 BMB WS,Worcester	1 Barbara Walker	9/16 Ware River Watershed	13 M.Lynch+S.Carroll
9/22 AP,Dartmouth	11 Tom Whelan	9/17 Northampton CG	3 Tom Gagnon+Bill Benner
9/25 Arcadia WS,Easthampton	3 Barbara Spencer	9/17 Old Town Hill,Newbury	3 Matthew Arey
9/28 GN,Westport	4 Jo-ann Mullen	9/24 Hogan Reg Ctr, Middleton	14 Matthew Arey
10/3 W Meadows,Northampton	1 Frank Model	9/25 W Meadows,Northampton	1 Frank Model
10/4 Chappaquidic,Edgartown	1 M.Lynch+S.Carroll	9/28 Northampton CG	1 Barbara Spencer
10/7 Royalston	1 Alyce Mayo	9/28 Prospect Hill,Waltham	1 Jason Forbes
10/9 GN,Westport	1 Paula Chasan	9/30 Wayland CG	1 Tom Whelan
10/9 Tuckermuck Island	2 Simon Perkins #	10/10 Umass Stadium,Amherst	1 Frank Model
10/10 Umass Stadium,Amherst	1 Frank Model	Hackberry Emperor	
10/14 Wenham Canal	1 Alex Grkovich	7/15 Forest Park,Springfield	3 Tom Gagnon
10/22 GN,Westport	2 Erik Nielsen	8/13 Forest Park,Springfield	3 MBC (Gagnon+Parker)
10/22 Quabbin Park,Belchertown	1 M.Lynch+S.Carroll	Tawny Emperor	
Red-spotted Admiral		7/23 Northampton NABA	2 Dottie Case #
6/11 Dauphinis Park,Grafton	2 Dolores Price #	7/26 Northampton CG	1 Frank Model
6/15 Barry Yard, Paxton	1 Elise Barry	7/30 Northampton CG	1 Frank Model
6/17 BMB WS,Worcester	1 MBC (Barbara Walker)	Northern Pearly-Eye	
7/9 N Berkshire NABA	39 Tom Tynning #	6/28 Drumlin Farm,Lincoln	1 Simon Perkins
White Admiral		6/29 Foxborough	1 Madeline Champagne
7/1 Florence	1 Tom Gagnon	7/5 G22 Quabbin	1 Ron+Sue Cloutier
7/1 Mount Greylock	20+ M.Lynch+S.Carroll	7/8 C Franklin NABA	3 Mark Fairbrother #
7/8 Moran WMA,Windsor	2 M.Lynch+S.Carroll	7/8 Sherborn PL	1 Bob Bowker
7/9 N Berkshire NABA	17 Tom Tynning #	7/9 N Berkshire NABA	3 Tom Tynning #
7/16 C Berkshire NABA	2 Tom Gagnon	7/9 Quaboag WMA,Brookfield	1 M.Lynch+S.Carroll
7/23 Stichter Yard,Newbury	1 Sharon Stichter	7/12 Lockwood CA, Boxford	1 Matthew Arey
Red-spotted Purple		7/16 Rehoboth	1 MBC (Lauren Miller)
5/28 Georgetown Rd. PL, Boxford	1 Matthew Arey	7/19 Essex Agr. Inst., Danvers	1 Matthew Arey
6/1 Ballard Hill RA,Lancaster	3 Tom Murray	7/21 Blackstone Valley NABA	2 Tom Dodd #
6/6 Lamson Rd,Foxborough	1 Madeline Champagne	7/23 Northampton NABA	2 Dottie Case #
6/8 Chicopee	1 Karen Parker	7/25 Barry Yard, Paxton	1 Elise Barry
6/13 Norcross WS,Monson	1 J.Ohop+E.Barry	Eyed Brown	
6/16 W Tisbury	1 Allan Keith	6/27 MBWMA,Newbury	1 Sharon Stichter #
6/18 MBWMA,Newbury	2 Tom Whelan	7/2 Tom Swamp,Petersham	2 M.Lynch+S.Carroll
7/1 GBH,Canton	3 Madeline Champagne	7/7 MBWMA,Newbury	3 Sharon Stichter
7/1 Mount Greylock	5 M.Lynch+S.Carroll	7/8 C Franklin NABA	5 Mark Fairbrother #
7/3 Manchester	1 Jim Berry	7/8 Sherborn PL	1 Bob Bowker
7/8 Moran WMA,Windsor	6 M.Lynch+S.Carroll	7/9 N Berkshire NABA	4 Tom Tynning #
7/9 N Berkshire NABA	22 Tom Tynning #	7/9 N Essex NABA	2 Sharon Stichter #
7/16 C Berkshire NABA	9 Tom Gagnon	7/9 N Worcester NABA	23 Carl Camp #
7/24 MBWMA,Newbury	7 Sharon Stichter	7/11 S Berkshire NABA	9 Rene Laubach #
8/17 Old Town Hill,Newbury	4 Matthew Arey	7/12 Lockwood CA, Boxford	3 Matthew Arey
9/5 Joppa Flats,NP	1 Sharon Stichter	7/15 Concord NABA	15 Dick Walton #
9/8 Gay Head	1 Allan Keith	7/16 C Berkshire NABA	7 Tom Tynning #
9/9 Sylvan Nursery,Westport	1 Erik Nielsen #	7/16 Hawley	4 M.Lynch+S.Carroll
9/16 BFD,Hubbardston	3 Barbara Walker	7/23 Northampton NABA	2 Dottie Case #
9/16 Ware River Watershed	1 M.Lynch+S.Carroll	7/23 Quabbin Park,Belchertown	3 M.Lynch+S.Carroll
9/17 Northampton CG	1 Tom Gagnon+Bill Benner	8/13 FS WMA,Longmeadow	3 MBC (Gagnon+Parker)
9/24 Putnamville Res., Danvers	1 Matthew Arey	8/19 Prospect Hill, Topsfield	1 Matthew Arey
Viceroy		Appalachian Brown	
5/30 CRPL,Chelmsford	2 Tom Whelan	7/4 Assabet River NWR	1 Jason Forbes
6/1 Ballard Hill RA,Lancaster	1 Tom Murray	7/15 Hoft Farm,W Tisbury	4 Allan Keith

7/19 Norcross WS, Monson	4 Elise Barry #	7/11 S Berkshire NABA	788 Rene Laubach #
7/29 Milford PL	1 Erik Nielsen	7/12 Lockwood CA, Boxford	15+ Matthew Arey
8/6 Cape Ann	3 D.Savich+C.Tibbits	7/14 E Longmeadow	2 Karen Parker
8/13 FS WMA, Longmeadow	12 MBC (Gagnon+Parker)	7/16 C Berkshire NABA	216 Tom Tynning #
Little Wood-Satyr			
5/26 Boston Nature Center	1 Andrew Birch	7/21 Blackstone Valley NABA	246 Tom Dodd #
5/27 E Longmeadow	1 Karen Parker	7/23 Northampton NABA	480 Dottie Case #
5/28 GBH, Canton	2 Wendy Miller #	7/24 Old Town Hill, Newbury	19+ Sharon Stichter
5/28 Lincoln	10+ Jason Forbes	7/30 MCP, Burlington/Woburn	25 Erik Nielsen
5/29 Lamson Rd, Foxborough	5 Madeline Champagne	7/31 Nelson Island, Rowley	510 Jim Berry
5/29 TOP, W Newbury	4 Erik Nielsen	8/5 Cape Ann	66 D.Savich+C.Tibbits
5/31 E Longmeadow	5-6 Karen Parker	8/9 Moore SP, Paxton	15 Elise Barry
6/6 Lamson Rd, Foxborough	34 Madeline Champagne	8/9 Stichter Yard, Newbury	50 Sharon Stichter
6/11 Crane WMA, Falmouth	dozens Alison Robb	8/13 Cape Ann	57 D.Savich+C.Tibbits
6/11 Dauphinis Park, Grafton	20 Dolores Price #	8/19 E Longmeadow	6 Karen Parker
6/11 Deborah Rd PL, Walpole	18 Erik Nielsen	9/7 Squibnocket, Chilmark	1 Allan Keith
6/12 Tully Meadow, Royalston	20 Carl Kamp	9/9 APAN, Dartmouth	1 Lauren Miller #
6/16 Chilmark	10+ Allan Keith	9/9 Assabet River NWR	1 S.Moore+B.Volkle
6/18 Cass Meadows, Athol	11 MBC (Carl Camp)	9/11 Royalston	8 Carl Kamp
7/1 E Longmeadow	8 Karen Parker	9/16 BFD, Hubbardston	3 Barbara Walker
7/5 Ipswich	14 Jim Berry	9/17 Northampton CG	1 Tom Gagnon+Bill Benner
7/8 MPRA, W Newbury	20 S.Moore+B.Volkle	9/17 Old Town Hill, Newbury	2 Matthew Arey
7/8 Sherborn PL	10 Bob Bowker	9/24 Arcadia WS, Easthampton	1 MBC (Tom Gagnon)
7/9 Boston Nature Center	40+ Andrew Birch	Monarch	
7/16 Rehoboth	3 MBC (Lauren Miller)	5/8 IRWS, Topsfield	1f Fred Goodwin
7/29 Stichter Yard, Newbury	4 Sharon Stichter	5/24 Marblehead	1 Karen Haley
8/5 E Longmeadow	1 Karen Parker	5/26 Boston Nature Center	1 Andrew Birch
8/7 Cape Ann	2 D.Savich+C.Tibbits	5/26 Nahant	1 Linda Pivacek
Common Ringlet			
5/21 Dauphinis Park, Grafton	2 MBC (Dolores Price)	5/26 Tom Swamp, Petersham	1 Frank Model
5/23 Cape Ann	1 D.Savich+C.Tibbits	5/26 Wilbraham	1 Carl Kamp #
5/24 Assabet River NWR	6 Simon Perkins	5/27 Assabet River NWR	1 MBC (Volkle+Murray)
5/24 Bedford	3 Simon Perkins	5/27 Cape Ann	1 D.Savich+C.Tibbits
5/25 Lamson Rd, Foxborough	1 Madeline Champagne	5/27 Foxborough	1 Madeline Champagne
5/26 Wilbraham	10 Carl Kamp #	5/27 Monterey	1 M.Lynch+S.Carroll
5/27 Assabet River NWR	7 MBC (Volkle+Murray)	7/3 Shutesbury	6+ T.Gagnon+C.Gentes
5/27 BFD/Rutland SP	5 Barbara Walker	7/5 Plum Island	9 Jim Berry
5/28 Delaney WMA, Stow	2 MBC (Barbara Walker)	7/15 MV NABA	229 Matt Pelikan #
5/28 GBH, Canton	2 Wendy Miller #	7/17 BIM, Boston/Revere	20+ Andrew Birch
5/28 MBWMA, Newbury	3 MBC (Sharon Stichter)	7/19 Essex Agr. Inst., Danvers	30 Matthew Arey
5/29 Pump House, Petersham	8 Bill Benner #	7/23 Northampton NABA	101 Dottie Case #
5/29 TOP, W Newbury	42 Erik Nielsen	7/26 Plum Island	350 Erik Nielsen
6/11 WMWS, Princeton	28+ S.Moore+B.Volkle	7/28 Plum Island	100's Karen Haley
6/12 Moore SP, Paxton	72+ Elise Barry	8/9 Moore SP, Paxton	26 Elise Barry
6/13 Cummington	60+ Barbara Spencer	8/30 BFD, Hubbardston	52 Bart Kamp #
6/13 Magnolia, Gloucester	30 Jim Berry	9/7 BFD, Hubbardston	74 Bart Kamp #
6/13 Norcross WS, Monson	32+ J.Ohop+E.Barry	9/10 BFD, Hubbardston	250 Bart Kamp #
6/13 Willowdale SF, Ipswich	14 Sharon Stichter #	9/20 BFD, Hubbardston	500 Bart Kamp #
6/21 Cape Ann	10 D.Savich+C.Tibbits	9/22 GN, Westport	1000's Mike Boucher
7/8 Moran WMA, Windsor	12 M.Lynch+S.Carroll	9/24 Eastern Point, Gloucester	2000+ D.Savich+C.Tibbits
7/21 Middleboro NABA	32 Karen Holmes #	9/25 BFD, Hubbardston	300 Bart Kamp #
8/12 Worcester Airport	33 MBC (Dolores Price)	9/25 GN, Westport	13000+ Brian Cassie
8/22 Cape Ann	18 D.Savich+C.Tibbits	9/25 Westport town beach	10000 Ernie Hirsh
9/11 Royalston	15 Carl Kamp	9/26 Boston Nature Center	1000's Andrew Birch
9/24 Putnamville Res., Danvers	1 Matthew Arey	9/26 GN, Westport	~13,500 Madeline Champagne #
9/24 Westborough WMA	1 M.Lynch+S.Carroll	9/26 Nelson Island, Rowley	2-3000 Joe Stichter
10/8 Northampton CG	1 Barbara Volkle	9/27 Park School, Brookline	1228 Brian Cassie
10/22 Ipswich	1 Jim Berry	9/27 Wenham	1000 Matthew Arey
Common Wood-Nymph			
7/7 E Longmeadow	1 Karen Parker	9/30 Belle Isle Marsh, Boston	1000's Soheil Zende
7/7 MBWMA, Newbury	1 Sharon Stichter	9/30 Eastern Point, Gloucester	2910 Brian Cassie
7/8 Boston Nature Center	2 Andrew Birch	10/2 Eastern Point, Gloucester	500 Fran Ludwig
7/8 C Franklin NABA	4 Mark Fairbrother #	10/3 Cape Ann	500 D.Savich+C.Tibbits
7/8 Sherborn PL	4 Bob Bowker	10/3 GN, Westport	2145 Madeline Champagne
7/8 Truro NABA	2 Tor Hansen #	10/4 GN, Westport	3100 M.Champagen+J.Mullen
		10/8 Tuckermuck Island	90 Simon Perkins #
		10/10 BFD, Hubbardston	42 Bart Kamp #
		10/10 Northampton CG	50 Frank Model
		10/17 Deer Island, Boston	23 Andrew Birch
		10/22 GN, Westport	94 Erik Nielsen

11/9 BFD,Hubbardston	1	Bart Kamp #	5/27 Agawam Bk IBA,Stockbridge	1	M.Lynch+S.Carroll
11/9 Concord	1	Lorene Melvin	5/27 Assabet River NWR	1	MBC (Volkle+Murray)
11/9 Oak Bluffs	1	Allan Keith	5/28 GBH,Canton	2	Wendy Miller #
11/11 APAN,Dartmouth	1	Erik Nielsen	5/28 Georgetown Rd. PL, Boxford	1	Matthew Arey
11/11 Race Point, Provincetown	1	Sharon Riley	5/28 Oxbow NWR,Harvard	1	Jason Forbes
11/11 Rockport	1	Martha Finta	5/29 MBWMA,Newbury	1	S.Moore+B.Volkle
11/12 Smith College, Northampton	1	Bill Benner+Tom Gagnon	5/29 Sherborn PL	2	Bob Bowker
11/15 Halibut Point SP,Rockport	1	Jim Berry	6/11 Dauphinis Park,Grafton	5	Dolores Price #
11/28 Falmouth	1	George Gove	6/14 Cape Ann	4	D.Savich+C.Tibbits
Silver-spotted Skipper					
5/27 Boston Nature Center	1	Andrew Birch	6/17 BMB WS,Worcester	6	MBC (Barbara Walker)
5/29 BMB WS,Worcester	1	Barbara Walker	6/18 Cass Meadows,Athol	5	MBC (Carl Camp)
5/29 Lamson Rd,Foxborough	1	Madeline Champagne	6/18 MBWMA,Newbury	3	Tom Whelan
5/29 MBWMA,Newbury	1	S.Moore+B.Volkle	7/1 MCP, Burlington/Woburn	1	MBC (Wright+Nielsen)
5/29 TOP, W Newbury	1	Erik Nielsen	7/8 C Franklin NABA	7	Mark Fairbrother #
5/30 Chilmark	2	Allan Keith	7/9 N Worcester NABA	4	Carl Kamp #
6/16 BMB WS,Worcester	5	Dolores Price	Dreamy Duskywing		
6/17 BMB WS,Worcester	7	MBC (Barbara Walker)	5/6 Great Meadow,Arlington	2	Jason Forbes
6/18 Cass Meadows,Athol	2	MBC (Carl Kamp)	5/6 Lamson Rd,Foxborough	1	S.Moore+B.Volkle
7/1 E Longmeadow	4	Karen Parker	5/7 MBWMA,Newbury	1	Erik Nielsen+Seth Sweet
7/1 MCP, Burlington/Woburn	3	MBC (Wright+Nielsen)	5/7 Sherborn PL	1	MBC (Bob Bowker)
7/8 C Franklin NABA	58	Mark Fairbrother #	5/21 Dauphinis Park,Grafton	14	MBC (Dolores Price)
7/8 Sherborn PL	5	Bob Bowker	5/27 Assabet River NWR	1	MBC (Volkle+Murray)
7/8 Truro NABA	28	Tor Hansen #	5/28 Delaney WMA,Stow	5	MBC (Barbara Walker)
7/9 Marion	8+	Mike Maurer	5/28 MBWMA,Newbury	5	MBC (Sharon Stichter)
7/9 N Essex NABA	27	Sharon Stichter #	5/29 BMB WS,Worcester	5	Barbara Walker
7/10 Dunback Meadows,Lexington	27	Andrew Birch	5/29 NCM,Petersham	4	Bill Benner #
7/15 Miller's Falls,Erving	10+	M.Lynch+S.Carroll	6/11 Cedar Hill, Northborough	2	S.Moore+B.Volkle
7/15 Tisbury	21	Allan Keith	6/11 Cummington	1	Barbara Spencer
7/16 Millenium Park, Roxbury	13	Andrew Birch	6/11 Dauphinis Park,Grafton	6	Dolores Price #
7/24 Legg's Hill,Marblehead	20	Karen Haley	6/14 Cape Ann	1	D.Savich+C.Tibbits
8/9 Hamlin Res, Ipswich	10	Matthew Arey	6/17 BMB WS,Worcester	5	MBC (Barbara Walker)
8/12 Worcester Airport	10	MBC (Dolores Price)	Sleepy Duskywing		
8/13 FS WMA,Longmeadow	8	MBC (Gagnon+Parker)	4/29 Oak St. PL, Shrewsbury	1	S.Moore+B.Volkle
8/16 Springfield	1	Karen Parker	5/7 Brentwood WMA, Hopkinton	1	MBC (Bob Bowker)
8/16 Tisbury	1	Allan Keith	5/7 Sherborn PL	1	MBC (Bob Bowker)
9/17 Old Town Hill,Newbury	2	Matthew Arey	5/20 MSSF,Plymouth	31	MBC (Murray+Nielsen)
10/10 Northampton CG	2	Barbara Spencer	5/23 Chelmsford PL	1	Tom Whelan
Hoary Edge					
6/16 BMB WS,Worcester	1	Dolores Price	5/30 MSSF,Plymouth	2	Tom Murray #
6/17 BMB WS,Worcester	5	MBC (Barbara Walker)	Juvenal's Duskywing		
6/27 Horn Pond CG,Woburn	1	R.LaFontaine+M.Rines	4/14 Assabet River NWR	1	Jason Forbes
7/8 C Franklin NABA	6	Mark Fairbrother #	4/14 Boxford	1	Matthew Arey
7/8 GBH,Canton	6	M.Champagne+E.Nielsen	4/15 Holliston	1	Richard Hildreth
7/10 HPM,Woburn	1	Andrew Birch	4/15 Sherborn PL	2	Bob Bowker
7/12 Witch Hollow Farm, Boxford	1	Matthew Arey	4/20 Middlesex Fells	5	Renee LaFontaine
7/21 Blackstone Valley NABA	4	Tom Dodd #	4/27 Moore SP,Paxton	1	Elise Barry
Southern Cloudywing					
6/11 Dauphinis Park,Grafton	2	Dolores Price #	4/28 BMB WS,Worcester	19	Tom Murray
6/12 Crane WMA,Falmouth	2	Alison Robb	4/29 Mount Tom SR	7	Bill Benner
6/13 Moore SP,Paxton	1	Elise Barry	4/29 Oak St. PL, Shrewsbury	6	S.Moore+B.Volkle
6/16 BMB WS,Worcester	1	Dolores Price	5/7 MBWMA,Newbury	26	Erik Nielsen+Seth Sweet
6/17 GBH,Canton	3	Bob Bowker	5/18 Old House Pond,W Tisbury	10	Allan Keith
6/22 Crane WMA,Falmouth	2	Alison Robb	5/20 MSSF,Plymouth	35	MBC (Murray+Nielsen)
6/27 MBWMA,Newbury	3	Sharon Stichter #	5/28 Tom Swamp,Petersham	12	Barbara Spencer
7/1 HPM,Woburn	2	MBC (Wright+Nielsen)	5/30 MSSF,Plymouth	3	Tom Murray #
7/8 C Franklin NABA	10	Mark Fairbrother #	5/31 Cape Ann	1	D.Savich+C.Tibbits
7/8 GBH,Canton	9	M.Champagne+E.Nielsen	6/11 Northborough	2	S.Moore+B.Volkle
7/12 Lockwood CA, Boxford	1	Matthew Arey	6/12 Moore SP,Paxton	1	Elise Barry
7/16 Falmouth NABA	1	Alison Robb #	6/13 Norcross WS,Monson	1	J.Ohop+E.Barry
7/16 Rehoboth	1	MBC (Lauren Miller)	6/17 BMB WS,Worcester	2	MBC (Barbara Walker)
7/21 Blackstone Valley NABA	1	Tom Dodd #	6/17 GBH,Canton	2	Bob Bowker
Northern Cloudywing					
5/26 Quabbin Park,Belchertown	1	Bill Benner+Dave Small	Horace's Duskywing		
			5/7 Sherborn PL	1	MBC (Bob Bowker)
			5/29 Sherborn PL	1	Bob Bowker
			6/11 Deborah Rd PL, Walpole	2	Erik Nielsen
			6/12 Moore SP,Paxton	1	Elise Barry

7/8 GBH,Canton	10	M.Champagne+E.Nielsen	8/10 Choate Farm CA, Danvers	40+	Matthew Arey
7/16 Rehoboth	1	MBC (Lauren Miller)	8/12 Worcester Airport	19	MBC (Dolores Price)
7/24 GBH,Canton	9	Madeline Champagne	8/13 FS WMA,Longmeadow	52	MBC (Gagnon+Parker)
7/28 Arlington Heights	1	Mary Rosenfeld	8/16 Chilmark	25	Allan Keith
7/29 Milford PL	1	Erik Nielsen	8/20 Bolton Flats	22	M.Lynch+S.Carroll
9/18 Legg's Hill,Marblehead	3	Karen Haley	8/28 Prospect Hill, Topsfield	10	Matthew Arey
Wild Indigo Duskywing					
4/28 BMB WS,Worcester	5	Tom Murray	9/17 Westport	30+	M.Lynch+S.Carroll
5/5 Oxbow NWR,Harvard	1	Tom Murray	10/5 GN,Westport	8	Madeline Champagne
5/7 HPM,Woburn	1	Tom Whelan	10/5 Northampton CG	1	Frank Model
5/18 Lamson Rd,Foxborough	6	Madeline Champagne	10/9 NAC,Concord	1	Erik Nielsen
5/20 MSSF,Plymouth	4	MBC (Murray+Nielsen)	10/13 Sylvan Nursery,Westport	1	Lauren Miller
5/24 BMB WS,Worcester	10	D.Price+J.Mullen	10/16 Keith Farm,Chilmark	1	Allan Keith
5/28 Delaney WMA,Stow	12	MBC (Barbara Walker)	European Skipper		
5/28 Lamson Rd,Foxborough	13	Madeline Champagne	5/29 Sherborn PL	3	Bob Bowker
5/29 BMB WS,Worcester	4	Barbara Walker	6/4 Northampton	2	NABA (Bill Benner)
6/11 Deborah Rd PL, Walpole	7	Erik Nielsen	6/6 Barry Yard, Paxton	3	Elise Barry
7/15 Concord NABA	22	Dick Walton #	6/17 GBH,Canton	15	Bob Bowker
7/16 Falmouth NABA	13	Alison Robb #	6/18 E Bridgewater	150-200	Eddie Giles
7/23 Northampton NABA	16	Dottie Case #	6/27 Moore SP,Paxton	100	Elise Barry
7/29 GBH,Canton	11	Erik Nielsen	6/28 Cape Ann	406	D.Savich+C.Tibbits
8/11 MBWMA,Newbury	2	Sharon Stichter	6/30 BFD,Hubbardston	270	Elise Barry #
9/9 Sylvan Nursery,Westport	1	Erik Nielsen #	7/1 GBH,Canton	71	Madeline Champagne
9/18 Stage Rd PL, Chelmsford	1	Tom Whelan	7/2 GBH,Canton	130	Erik Nielsen
9/28 Northampton CG	3	Barbara Spencer	7/8 Moran WMA,Windsor	70+	M.Lynch+S.Carroll
9/30 Northampton CG	1	Barbara Spencer	7/9 N Worcester NABA	6030	Carl Kamp #
Persius Duskywing					
5/20 MSSF,Plymouth	1	MBC (Murray+Nielsen)	7/15 Hawley	1	M.Lynch+S.Carroll
5/30 MSSF,Plymouth	2	Tom Murray #	7/16 Rehoboth	3	MBC (Lauren Miller)
5/31 MSSF,Plymouth	1	Tom Murray #	7/21 Blackstone Valley NABA	2	Tom Dodd #
Common Checkered-Skipper					
8/14 Northampton CG	1	Frank Model	7/23 Northampton NABA	2	Dottie Case #
8/17 Northampton CG	9	T.Gagnon+F.Model	7/29 Barnstable NABA	1	Alison Robb #
8/22 Northampton CG	6-10	Barbara Spencer	8/9 Stichter Yard,Newbury	1	Sharon Stichter
9/1 Northampton CG	2	Barbara Spencer	8/11 MBWMA,Newbury	1	Sharon Stichter
10/8 Northampton CG	1f	Tom Gagnon	Fiery Skipper		
10/10 Northampton CG	1	T.Gagnon+F.Model	8/17 Northampton CG	1	T.Gagnon+F.Model
Common Sootywing					
5/8 Boston Nature Center	2	Andrew Birch	9/4 Marblehead	1	Karen Haley
5/23 Chelmsford PL	1	Tom Whelan	9/7 Northampton CG	1	Barbara Spencer
5/28 Oxbow NWR,Harvard	1	Jason Forbes	9/17 DLSP,Dartmouth	1	Brian Cassie
6/4 Northampton	1	NABA (Bill Benner)	9/17 Northampton CG	2(m+f)	Tom Gagnon
6/11 Dauphinais Park,Grafton	1	Dolores Price #	9/22 Northampton CG	1m	Tom Gagnon
6/18 NP	1	Sharon Stichter	9/24 NAC,Concord	1m	Erik Nielsen
7/11 Wayland CG	1	Mary Rosenfeld	10/4 Northampton CG	1m	Tom Gagnon
7/16 Rehoboth	1	MBC (Lauren Miller)	10/8 Slocum River Preserve,	1	Erik Nielsen
7/23 Boston NABA	19	Andrew Birch #	10/9 Tuckermuck Island	1	Simon Perkins #
7/23 Northampton NABA	41	Dottie Case #	Leonard's Skipper		
7/26 Stichter Yard,Newbury	1	Sharon Stichter	9/10 Athol	1	Ron+Sue Cloutier
7/30 MCP, Burlington/Woburn	1	Erik Nielsen	9/10 Quabbin Park,Belchertown	1	M.Lynch+S.Carroll
8/19 Prospect Hill, Topsfield	2	Matthew Arey	9/16 NAC,Concord	1	S.Moore+B.Volkle
9/17 Northampton CG	1	Tom Gagnon+Bill Benner	9/17 DLSP,Dartmouth	4	Brian Cassie
9/17 Old Town Hill,Newbury	1	Matthew Arey	9/20 MV	a few	Matt Pelikan
9/19 Stichter Yard,Newbury	1	Sharon Stichter	Cobweb Skipper		
Least Skipper					
5/28 Delaney WMA,Stow	1	MBC (Barbara Walker)	5/20 MSSF,Plymouth	4	MBC (Murray+Nielsen)
5/29 Essex Agr. Inst., Danvers	1	Matthew Arey	5/24 BMB WS,Worcester	3	D.Price+J.Mullen
6/13 MBWMA,Newbury	2	Sharon Stichter	5/27 Assabet River NWR	4	MBC (Volkle+Murray)
6/19 Stichter Yard,Newbury	35	Sharon Stichter	5/29 BMB WS,Worcester	3	Barbara Walker
7/4 AP,Dartmouth	13	Erik Nielsen	5/29 Pump House, Petersham	1	Bill Benner #
7/8 Sherborn PL	1	Bob Bowker	5/30 MSSF,Plymouth	5	Tom Murray #
7/9 Ipswich	4	Jim Berry	Indian Skipper		
7/21 Middleboro NABA	4	Karen Holmes #	5/26 Quabbin Park,Belchertown	1	Bill Benner+Dave Small
8/9 Stichter Yard,Newbury	25	Sharon Stichter	5/28 MBWMA,Newbury	1	MBC (Sharon Stichter)
			5/29 TOP, W Newbury	4	Erik Nielsen
			5/30 MSSF,Plymouth	3	Tom Murray #
			6/1 Ballard Hill RA,Lancaster	4	Tom Murray
			6/4 Northampton	28	NABA (Bill Benner)
			6/11 Dauphinais Park,Grafton	1	Dolores Price #

6/11 Deborah Rd PL, Walpole	9 Erik Nielsen	7/15 Concord NABA	3 Dick Walton #
6/12 Crane WMA,Falmouth	2 Alison Robb	7/15 MV NABA	3 Matt Pelikan #
6/13 Kettlebrook Res,Paxton	1 M.Lynch+S.Carroll	7/19 Norcross WS,Monson	2 Elise Barry #
6/13 Norcross WS,Monson	4 J.Ohop+E.Barry	7/29 GBH,Canton	5 Erik Nielsen
6/17 BMB WS,Worcester	1 MBC (Barbara Walker)	8/10 Choate Farm CA, Danvers	1 Matthew Arey
6/18 S Athol Trestle	1 MBC (Carl Kamp)	8/20 BMB WS,Worcester	3 Barbara Walker
7/1 Mount Greylock	1 M.Lynch+S.Carroll		

Peck's Skipper

5/18 Boxford	1 Matthew Arey
5/24 BMB WS,Worcester	2 D.Price+J.Mullen
5/27 Assabet River NWR	2 MBC (Volkle+Murray)
5/27 E Longmeadow	1 Karen Parker
5/27 Westwood	3 Erik Nielsen+Seth Sweet
5/28 Delaney WMA,Stow	2 MBC (Barbara Walker)
5/28 E Longmeadow	6 Karen Parker
5/28 Georgetown Rd. PL, Boxford	12 Matthew Arey
5/28 Oxbow NWR,Harvard	1 Jason Forbes
6/11 Dauphinis Park,Grafton	19 Dolores Price #
6/12 Moore SP,Paxton	30 Elise Barry
6/17 GBH,Canton	12 Bob Bowker
6/18 E Longmeadow	17 Karen Parker
8/11 Barry Yard, Paxton	4 Elise Barry
8/15 CRPL,Chelmsford	8 Tom Whelan
8/17 Keith Farm,Chilmark	2 Allan Keith
9/16 BFD,Hubbardston	20 Barbara Walker
9/16 Ware River Watershed	11 M.Lynch+S.Carroll
9/22 Northampton CG	2 Tom Gagnon
10/4 Umass Campus,Amherst	1 Frank Model
10/8 Oak Bluffs	1 Matt Pelikan
10/8 Slocum River Preserve,	1 Erik Nielsen
10/9 New Lenox Rd,Lenox	1 Tom Gagnon
10/12 Groveland	1 Matthew Arey

Tawny-edged Skipper

5/25 Juniper Hill,Lexington	2 Tom Whelan
5/26 Boston Nature Center	2 Andrew Birch
5/27 Assabet River NWR	1 MBC (Volkle+Murray)
5/27 Westwood	1 Erik Nielsen+Seth Sweet
5/28 Boston Nature Center	1 Andrew Birch
5/28 E Longmeadow	2 Karen Parker
5/28 GBH,Canton	1 Wendy Miller #
5/29 TOP, W Newbury	3 Erik Nielsen
6/4 Northampton	4 NABA (Bill Benner)
6/11 Cedar Hill, Northborough	1 S.Moore+B.Volkle
6/11 Dauphinis Park,Grafton	3 Dolores Price #
6/13 Norcross WS,Monson	5 J.Ohop+E.Barry
6/17 BMB WS,Worcester	3 MBC (Barbara Walker)
7/16 Rehoboth	3 MBC (Lauren Miller)
7/24 Stichter Yard,Newbury	1 Sharon Stichter
8/4 E Longmeadow	2 Karen Parker
8/10 Choate Farm CA, Danvers	2 Matthew Arey
8/11 MBWMA,Newbury	2 Sharon Stichter
8/12 Worcester Airport	1 MBC (Dolores Price)
8/18 N Brookfield	1 Elise Barry
9/16 BFD,Hubbardston	1 Barbara Walker
9/16 NAC,Concord	1 S.Moore+B.Volkle
9/16 Ware River Watershed	2 M.Lynch+S.Carroll
9/16 Wayland CG	2 Erik Nielsen

Crossline Skipper

6/11 Dauphinis Park,Grafton	2 Dolores Price #
6/13 Norcross WS,Monson	1 J.Ohop+E.Barry
7/5 Tom Swamp,Petersham	1 Ron+Sue Cloutier
7/8 GBH,Canton	4 M.Champagne+E.Nielsen
7/8 Truro NABA	8 Tor Hansen #
7/9 Boston Nature Center	3 Andrew Birch
7/9 TOP, W Newbury	1 S.Perkins+E.Nielsen

Long Dash

6/4 Northampton	4 NABA (Bill Benner)
6/11 Dauphinis Park,Grafton	3 Dolores Price #
6/11 Ffolliott's Farm,Ipswich	100 S.Stichter+L.Leka
6/11 WMWS,Princeton	1 S.Moore+B.Volkle
6/12 Moore SP,Paxton	2 Elise Barry
6/13 Norcross WS,Monson	9 J.Ohop+E.Barry
6/13 Willowdale SF,Ipswich	50+ Sharon Stichter #
6/16 BMB WS,Worcester	3 Dolores Price
6/19 W Tisbury	1 Allan Keith
6/21 Cape Ann	1 D.Savich+C.Tibbits
7/5 Tom Swamp,Petersham	1 Ron+Sue Cloutier
7/10 GBH,Canton	1 Madeline Champagne
7/19 Norcross WS,Monson	1 Elise Barry #
7/23 Northampton NABA	1 Dottie Case #
9/20 MV	2 Matt Pelikan
9/30 APAN,Dartmouth	1m Erik Nielsen

Northern Broken-Dash

6/16 Chilmark	1 Allan Keith
7/4 Stichter Yard,Newbury	1 Sharon Stichter
7/6 CRPL,Chelmsford	2 Tom Whelan
7/7 MBWMA,Newbury	19 Sharon Stichter
7/8 C Franklin NABA	22 Mark Fairbrother #
7/8 GBH,Canton	10 M.Champagne+E.Nielsen
7/9 N Essex NABA	33 Sharon Stichter #
7/9 N Worcester NABA	21 Carl Kamp #
7/15 Concord NABA	31 Dick Walton #
7/15 MV NABA	6 Matt Pelikan #
7/15 Stichter Yard,Newbury	10 Sharon Stichter
7/19 Moore SP,Paxton	6 Elise Barry
7/19 Norcross WS,Monson	5 Elise Barry #
7/21 Blackstone Valley NABA	65 Tom Dodd #
7/22 Brewster NABA	7 Alison Robb #
7/23 Northampton NABA	29 Dottie Case #
7/24 MBWMA,Newbury	50+ Sharon Stichter
7/29 Barnstable NABA	5 Alison Robb #
7/29 GBH,Canton	15 Erik Nielsen
8/6 Cape Ann	3 D.Savich+C.Tibbits
8/8 Boston Nature Center	1 Andrew Birch

Little Glasswing

6/29 E Longmeadow	1 Karen Parker
7/1 MCP, Burlington/Woburn	3 MBC (Wright+Nielsen)
7/2 E Longmeadow	4-5 Karen Parker
7/8 GBH,Canton	13 M.Champagne+E.Nielsen
7/8 HPM,Woburn	5 S.Moore+B.Volkle
7/8 Sherborn PL	7 Bob Bowker
7/12 Witch Hollow Farm, Boxford	4 Matthew Arey
7/16 Cape Ann	3 D.Savich+C.Tibbits
7/16 Dunback Meadows,Lexington	2 Tom Whelan #
7/24 GBH,Canton	3 Madeline Champagne
7/30 MCP, Burlington/Woburn	1 Erik Nielsen

Sachem

7/21 Middleboro NABA	1 Karen Holmes #
9/9 Sylvan Nursery,Westport	1 R.Hamburger+E.Nielsen

Delaware Skipper

7/6 CRPL,Chelmsford	1 Tom Whelan
7/7 MBWMA,Newbury	3 Sharon Stichter
7/8 C Franklin NABA	24 Mark Fairbrother #

7/8 Sherborn PL	2	Bob Bowker
7/8 Truro NABA	3	Tor Hansen #
7/9 N Worcester NABA	41	Carl Kamp #
7/12 Witch Hollow Farm, Boxford	3	Matthew Arey
7/19 Cummington	1	Barbara Spencer
7/19 Moore SP,Paxton	1	Elise Barry
7/21 Blackstone Valley NABA	28	Tom Dodd #
7/24 Moore SP,Paxton	1	Elise Barry
9/24 Northampton CG	1m	MBC (Tom Gagnon)

Mulberry Wing

6/29 E Longmeadow	1	Karen Parker
7/8 C Franklin NABA	6	Mark Fairbrother #
7/9 Ipswich	8	Jim Berry
7/11 S Berkshire NABA	2	Rene Laubach #
7/15 Concord NABA	46	Dick Walton #
7/15 Wrentham	3	Madeline Champagne
7/16 Dunback Meadows, Lexington	1	Tom Whelan #
7/19 Norcross WS, Monson	2	Elise Barry #
7/21 Blackstone Valley NABA	35	Tom Dodd #
7/21 Middleboro NABA	2	Karen Holmes #
7/23 Northampton NABA	5	Dottie Case #
7/29 Milford PL	2	Erik Nielsen

Hobomok Skipper

5/25 Whately	1	Bill Benner
5/27 Assabet River NWR	2	MBC (Volkle+Murray)
5/29 Auburn Rte.20 PL	5	Barbara Walker
5/29 E Longmeadow	5m	Karen Parker
5/29 Essex Agr. Inst., Danvers	4	Matthew Arey
5/31 E Longmeadow	6	Karen Parker
6/1 Ballard Hill RA, Lancaster	3	Tom Murray
6/11 Cummington	5	Barbara Spencer
6/12 Tully Meadow, Royalston	5	Carl Kamp
6/13 Norcross WS, Monson	5	J.Ohop+E.Barry
6/17 BMB WS, Worcester	3	MBC (Barbara Walker)
6/18 Cass Meadows, Athol	2	MBC (Carl Kamp)
6/28 Cape Ann	1	D.Savich+C.Tibbits
7/4 AP, Dartmouth	1	Erik Nielsen
7/7 Stichter Yard, Newbury	1	Sharon Stichter
7/9 N Berkshire NABA	1	Tom Tynning #
7/9 N Worcester NABA	2	Carl Kamp #

Zabulon Skipper

8/5 E Longmeadow	1m	Karen Parker
8/13 FS WMA, Longmeadow	4m	MBC (Gagnon+Parker)
9/8 Northampton CG	1f	Barbara Spencer

Broad-winged Skipper

7/15 Boston Nature Center	1	Andrew Birch
7/15 Concord NABA	2	Dick Walton #
7/15 Joppa Flats, NP	1	Sharon Stichter
7/16 C Berkshire NABA	3	Tom Tynning #
7/16 Dunback Meadows, Lexington	3	Tom Whelan #
7/17 BIM, Boston/Revere	40	Andrew Birch
7/21 Blackstone Valley NABA	24	Tom Dodd #
7/23 Boston NABA	10	Andrew Birch #
7/24 Hawthorn Pond, Marblehead	17	Karen Haley
7/24 Old Town Hill, Newbury	2	Sharon Stichter
7/29 Milford PL	32	Erik Nielsen
7/30 E Longmeadow	1	Karen Parker
7/30 Oak Bluffs	1	Matt Pelikan
8/5 Cape Ann	13	D.Savich+C.Tibbits
8/9 Barry Yard, Paxton	1	Elise Barry
8/9 Hamlin Res, Ipswich	6	Matthew Arey
8/20 BMB WS, Worcester	1	Barbara Walker
9/17 Old Town Hill, Newbury	1	Matthew Arey

Dion Skipper

7/9 Adams	1	Tom Gagnon #
7/11 S Berkshire NABA	1	Rene Laubach #

Black Dash

7/8 C Franklin NABA	4	Mark Fairbrother #
7/9 Ipswich	2	Jim Berry
7/19 Cummington	2	Barbara Spencer
7/19 Norcross WS, Monson	2	Elise Barry #
7/23 Northampton NABA	2	Dottie Case #
7/29 Milford PL	2	Erik Nielsen
8/6 Cape Ann	1	D.Savich+C.Tibbits

Two-spotted Skipper

7/3 Tom Swamp, Petersham	1	T.Gagnon+C.Gentes
7/5 Tom Swamp, Petersham	1	Ron+Sue Cloutier

Dun Skipper

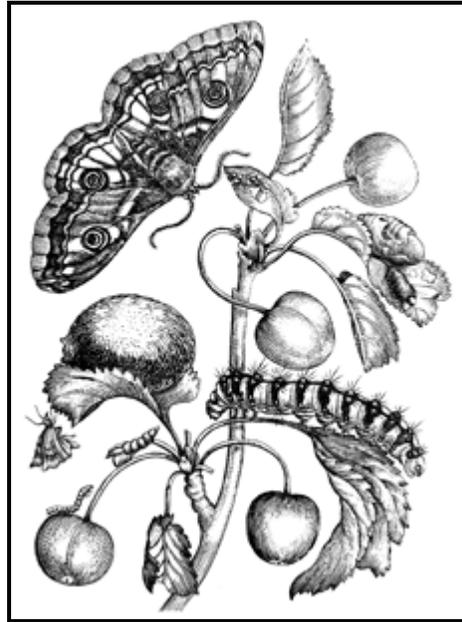
7/5 Athol	1	Ron+Sue Cloutier
7/7 MBWMA, Newbury	3	Sharon Stichter
7/8 HPM, Woburn	12	S.Moore+B.Volkle
7/8 MPRA, W Newbury	2	S.Moore+B.Volkle
7/8 Sherborn PL	1	Bob Bowker
7/9 Quaboag WMA, Brookfield	2	M.Lynch+S.Carroll
7/12 Witch Hollow Farm, Boxford	12	Matthew Arey
7/15 Concord NABA	48	Dick Walton #
7/15 Hawley	10	M.Lynch+S.Carroll
7/16 C Berkshire NABA	47	Tom Tynning #
7/16 Rehoboth	1	MBC (Lauren Miller)
7/21 Blackstone Valley NABA	64	Tom Dodd #
7/23 Northampton NABA	78	Dottie Case #
7/23 Quabbin Park, Belchertown	10	M.Lynch+S.Carroll
8/9 Hamlin Res, Ipswich	6	Matthew Arey
8/13 E Longmeadow	1	Karen Parker
8/17 Keith Farm, Chilmark	1	Allan Keith
8/19 Prospect Hill, Topsfield	1	Matthew Arey
8/20 BMB WS, Worcester	2	Barbara Walker

Dusted Skipper

5/25 Juniper Hill, Lexington	2	Tom Whelan
5/27 Assabet River NWR	3	MBC (Volkle+Murray)
5/28 GBH, Canton	2	Wendy Miller #
5/28 Juniper Hill, Lexington	12	Tom Whelan
5/29 Pump House, Petersham	3	Bill Benner #
5/30 Lamson Rd, Foxborough	3	Tom Murray
6/1 Ballard Hill RA, Lancaster	1	Tom Murray
6/6 Lamson Rd, Foxborough	10	Madeline Champagne
6/11 Deborah Rd PL, Walpole	2	Erik Nielsen
6/17 BMB WS, Worcester	4	MBC (Barbara Walker)
6/17 GBH, Canton	1	Bob Bowker
6/27 Horn Pond CG, Woburn	1	R.LaFontaine+M.Rines

Pepper and Salt Skipper

5/21 Dauphinais Park, Grafton	1	MBC (Dolores Price)
5/26 Tom Swamp, Petersham	2	Frank Model
5/27 BFD/Rutland SP	2	Barbara Walker
5/27 Dunback Meadows, Lexington	1	Tom Whelan
5/27 Petersham	1	Barbara Spencer
5/28 MBWMA, Newbury	1	MBC (Sharon Stichter)
5/28 Oxbow NWR, Harvard	4+	Jason Forbes
5/31 NCM, Petersham	1	Bill Benner #
6/1 Ballard Hill RA, Lancaster	1	Tom Murray
6/11 Dauphinais Park, Grafton	1	Dolores Price #
6/18 Cass Meadows, Athol	1	MBC (Carl Kamp)
7/9 Mount Greylock	1	Tom Gagnon



Maria Sibylla Merian
Engraving from *Erucarum Ortus...* Dover Publications
2005. Orig. pub. 1718.

CHRYSALIS: Maria Sibylla Merian and the Secrets of Metamorphosis. Kim Todd. NY: Harcourt Books, 2007.
\$27.00 list. (\$17.82 or less, www.amazon.com)

From the reviews:

“A lovely and exhilarating book...” “Rewrites history to include this woman of courage, dedication and genius...”

More information at < www.kimtodd.net >

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Growing Native

Kim Smith

“The environment is where we can all meet; where we all have a mutual interest; it is the one thing that we all share. It is not only a mirror of ourselves, but a focusing lens on what we can become...”
Lady Bird Johnson, 1967

With children back to school after winter break, I find myself daydreaming about the approaching warm weather season in our garden. Through ice-crystal sparkled windows, made all the more

50 *Massachusetts Butterflies* No. 28, Spring 2007
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brilliant from the reflected sunlight of snow blanketed borders, I am trying to imagine where, for heaven's sake, in our tiniest of lots, I will fit the recently placed order of seeds and plants to experiment with for the pollinators. To name several notables: species of Milkweed (*Asclepius incarnata*, *A. syriaca*, and *A. tuberosa*), Bird's Foot Violets for the fritillaries, Cardinal Climber—attractive to hummingbirds, a purportedly hardy *Jasmine officinale*, and several New Jersey Tea plants. Our ever-shrinking lawn, if you could even call it a lawn any more, will definitely be made smaller again this year. In addition to widening the borders, annually we have been broadcasting seeds of white clover and carefully mowing around the spreading violets; the lawn, too, has now become a paradise for the pollinators.

New Jersey Tea (*Ceanothus americanus*) is a low-growing (to three feet) suckering shrub native to East Coast. This unobtrusive petite shrub lights up the garden in mid-summer when its airy plumes of creamy white honey-scented flowers attract an array of pollinators. *Ceanothus americanus* is a larval host for the lovely Spring Azure butterfly, as well as for the Mottled Duskywing, which is now considered extirpated in Massachusetts. It is a nectar source for a wide variety of skippers and butterflies including the Atlantis Fritillary, Banded, Striped, Edwards', and Acadian Hairstreaks, Dreamy Duskywings, and Peck's and other skippers. New Jersey Tea also attracts a small fly with which hummingbirds feed their young.

Ceanothus americanus will grow in average garden soil provided it is planted in a well-draining location. It will thrive in full sun, though it tolerates some light shade. The leaves may be dried to make a refreshing beverage, similar to *Camellia sinensis* (beverage tea); this was used during the American Revolutionary War as a substitute for black tea. New Jersey Tea is available by mail order

from Tripple Brook Farm Nursery, in Southampton, MA (www.tripplebrookfarm.com), from Easyliving Wildflowers, in Missouri (www.easywildflowers.com), and from Prairie Moon Nursery in Minnesota (www.prairiemoon.com).

Planted in the dappled shade cast by our pink flowering dogwood (*Cornus florida rubra*) are species mountain laurel (*Kalmia latifolia*) and lowbush blueberries (*Vaccinium angustifolium*). Growing in the foreground, in full sun, are native lupines (*Lupinus perennis*). The feathery white panicles of the New Jersey Teas will add a lovely counterpoint to the evergreen emerald foliage of the mountain laurel. With blossom and berry and attractive foliage, this corner of our garden not only provides four seasons of beauty, it is a beacon to the transient Lepidoptera gracing our garden. Hopefully we will soon play host to the Spring Azure's tiny pink caterpillars as well!

Rhythm and harmony, form and fragrance and personal preference in associations of color are all integral components in creating a garden design. Of equal importance is planning a garden rich in species of indigenous plants to support butterflies, moths, skippers, and the myriad of beneficial insects that will also make themselves at home in the garden planned for pollinators. Worth noting is that songbirds will instinctively be drawn to this native paradise. I am not recommending to simply integrate only colorful nectar plants, but to seek out and plant native larval host plants, to support the Lepidoptera caterpillars along with their volant counterparts.

Although creating backyard sanctuaries for the Lepidoptera, one garden at a time, does not in any measure equal the wholesale destruction of the habitat of native plant species globally, regionally and locally, or give us cause to relinquish our responsibility in making other changes individually and

collectively, it will remind us of what is at stake and that a positive evolution in our thinking is possible. Change is what we are talking about—change in the way in which we think about using our natural resources, such as converting to hybrid automobiles as an alternative to gas guzzling SUV's, and siting and planning the surrounding space of new homes, housing developments and businesses to support indigenous plant species and wildlife. Butterflies are a symbol of hope—hope in the ability of the human spirit to transform to an awakening of our interconnectedness to our planet. The well known, and yet anonymous, quote *The effects of the butterfly's wings are felt around the world* can be interpreted to mean just that.

Each of our individual butterfly gardens may be a tiny oasis surrounded by a desert of boiling asphalt, arid pesticide crusted lawns and chemically enriched golf courses. Armed with knowledge and a willingness to share information, it is possible, on the most grassroots level, to help make a difference in how we think about gardening and new ways in which we go about creating our gardens. Throughout the growing season passers-by inquire what, growing in our garden, is this and that particular plant, so vividly demonstrating its appeal to the butterflies. Now these same plants are growing in our neighbors' gardens, flowering and luring pollinators into their gardens. Imagine what one who gardens on a property with space enough for large native host trees and shrubs can achieve, if on our tiny lot, we are hosting an ever-increasing bevy of butterflies and caterpillars. Oh the possibilities!



Kim Smith is an interior and garden designer residing in Gloucester with her husband and two children. She has written and illustrated a book on garden design titled *Oh Garden of Fresh Possibilities ~ Notes from A Gloucester Garden*, forthcoming in July through David R. Godine, Publisher. Kim will be happy to respond to readers' questions and comments at kimsmithdesigns@hotmail.com



Spring Azure, Gloucester *photo by Kim Smith*