



# **THE PEARLY-EYE 2011**

**Field Reports of the NABA North Jersey Butterfly Club**

**Volume 11  
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## **2011 Overview**

As we have seen in previous years, every year has highlights and lowlights and this year was no exception. One of the encouraging developments in recent years has been establishment of a breeding population of Giant Swallowtail in the northern part of the state. The earliest record was on 4/30/11, which continues to provide evidence of an overwintering population (overwinters as a pupa).

Also a record number of reports of Common Buckeyes were sent in following 2010's large increase in the number of reports. It's interesting to speculate on the reason for this continuing increase: normal variation, low number of parasites, less disease, climate change, etc.

A report of Acadian Hairstreak from the Appalachian Trail Lands this year is encouraging (last seen in the state in 2005) but it remains to be seen whether a viable population exists there.

The biggest single highlight was the discovery of a new species for the state: Silvery Blue. Please see the description of the sighting in the annotated list.

One very interesting difference between 2010 and 2011 is that in 2010 there was an irruption of the southern immigrant, Little Yellow, throughout the state whereas in 2011, not a single one was sighted anywhere in New Jersey.

Some of the lowlights are the continued absence of such formerly resident species as Frosted Elfin from northern NJ (still locally common at sites in southern NJ), Harris' Checkerspot (last unconfirmed sighting in 2003), and Arctic Skipper (last seen in the state at High Point State Park in 2005). It does highlight the need for multiple colonies of all species so that if a colony disappears, others survive and potentially allow historic sites to be repopulated or new sites to be colonized.

A new species that appears to be in serious trouble is Leonard's Skipper (this year found in three places in Sussex County and only one in Atlantic County). In recent years this species has not been common at any one site except at Manumuskin River Preserve in Cumberland County (and even this population appears to have disappeared), but the decreasing number of recent reports is alarming.

Another species with very few known colonies in our area is Common Roadside-Skipper. There is a meta-population at Yards Creek/Raccoon Ridge but apparently nowhere else in northern NJ. It is also only known sporadically from southern NJ.

One last observation: While the butterfly season had almost wound down when the Halloween 2011 snowstorm hit the state, it is interesting to note that 23 individual butterflies of four hardy species were still seen in our area in November and December following the storm: Cabbage White, Orange Sulphur, Mourning Cloak and Monarch.

## **NABA-NJ Meetings for 2011**

January 4 - "Butterflies from ID Shot to Photo Art" by John Lampkin

February 1 - (cancelled because Frelinghusen Arboretum was closed following snowstorm)

March 1 - "Butterflies of Paradise" by Marge Barrett

April 5 - "Looking for Coneheads: the Weird and Wonderful World of Insects" by Wade Wander

May 3 - "Biennial Meeting in Mission, TX" by Chris Williams

June 7 - "DeKorte Park, Lyndhurst" by Jim Wright

August 2 - "Mayan Butterflies from the Yucatan" by Jim Springer

September 6 - "Part 2-Bugs Texas Style" by Wade Wander

October 4 - "Panama's Rainforest Biodiversity" by Guido Berguido

November 1 - "Out of Context: Flowers of the Aster Family and Their Butterfly Visitors" by Tom Halliwell

November 29 - Members' Night

## **NABA-NJ Field Trips for 2011**

May 7 - Pine Barrens, Ocean County led by Jim Springer. 20 people, 15 species including 24 Hessel's Hairstreaks, 10 Sleepy Duskywings and 8 Cobweb Skippers.

June 4 - Schooley's Mountain Park, Morris County led by Jim Springer. 20 people, 19 species including 7 Common Ringlets, 25 Long Dashes and first of year Crossline Skipper.

June 18 - Hilltop Reservation, Essex County led by Jim McGregor. A nice mix of 23 species including 11 Summer Azures, 1 Painted Lady (rare this year) and 7 species of skippers.

June 26 - Crater Lake Road and Environs, Sussex County led by Sharon and Wade Wander. 26 species including 2 fresh Edwards' Hairstreaks and a worn Long Dash.

July 23 - Karen Nash Memorial Butterfly Garden, Warren County led by Tomás Gonzales, 14 species including Horace's Duskywing which was a new site record and also Pipevine Swallowtail larvae.

July 24 - Meadowlands Butterfly Day, Bergen County led by various NABA-NJ Butterfly Club members.

August 13 - Appalachian Trail Lands, Sussex County led by Sharon and Wade Wander. 18 people, 29 species including 4 Bronze Coppers, 2 White M Hairstreaks and 500+ Least Skippers.

August 20 - Willowwood Arboretum, Morris County led by Tom Halliwell. 27 species including 4 Red-banded Hairstreaks, 2 Hackberry Emperors, 1 Common Sootywing and 2 Fiery Skippers.

## Weather for 2011

Weather is a big factor in determining when butterflies emerge and when they stop flying in any one year. It also is a factor in determining when butterflies make it into the field. At almost 65 inches, this was the wettest year on record by almost 5 inches. Temperatures were above average for every month except January making this the 3<sup>rd</sup> warmest year on record.

**January:** Snow cover all month following the late December 2010 blizzard. For some locations in NJ, this was the snowiest January ever.

**February:** Average amount of precipitation and temperatures with snow cover by the end of the month only hanging on in the northern most counties.

**March:** Average temperatures but above average precipitation.

**April:** Above average temperatures with 6 days of temperatures of 80°F or above somewhere in the state.

**May:** Twice the average amount of precipitation in our area with above average temperatures.

**June:** Heat wave early in the month and persistent heat (8 days in which someplace in NJ hit 90°F or above) made this the 9<sup>th</sup> warmest June on record.

**July:** Second warmest July on record with 26 days of 90+°F temperatures. On July 22, all NJ counties had highs of over 100°F.

**August:** Even before Tropical Storm Irene hit on August 27-28, this was the sixth wettest August on record. At 16.64" of precipitation on average for the month, this was the wettest month of any month ever by over 5". Some places recorded 2ft of rain for the month.

**September:** Above average temperatures and precipitation.

**October:** Halloween snowstorm knocked out power to over 600,000 households in the

state. In some places, power was out for a week.

**November:** Tranquil month compared to previous months. Average precipitation with above average temperatures.

**December:** 11<sup>th</sup> Consecutive month with above average temperatures.

## Database for NJ Butterfly Records

All of the 2011 records submitted for the Pearly-Eye have been put into in Microsoft Access (a relational database) and used in the generation of the 2011 Pearly-Eye. My intention is to collect future sightings into this database and to the extent they are available include any previous records into this database. Use of a relational database will allow an easier comparison of records from year to year and allows easier generation of butterfly checklists for particular sites, etc. One of the reasons for this is that the use of a relational database requires a standardization of butterfly names, place names and observer names which makes it easier to query across years and by site, etc.

Please send all of your butterfly sightings including those of the more common species- I am interested in getting as complete a picture of our butterfly fauna as possible. Also please consider sending in your sightings from the NABA 4<sup>th</sup> of July Counts broken down by site. Currently these numbers get rolled up into the full count circles but there is no way to separate them by site. I know that this will mean more work but otherwise the 4<sup>th</sup> of July sightings, which are some of the best data we have, will not get put into the database since the summaries can't be broken down by site. Also since the 4<sup>th</sup> of July data are summaries,

they are virtually impossible to compare to regular field trip data for the Pearly-Eye.

Please submit all sightings for the Pearly-Eye by email to [springer@naba.org](mailto:springer@naba.org). These are much easier to keep track of than paper. Spreadsheet files work the best but any electronic format will work. Please note that all records will be need to be converted to spreadsheet format before they can be input into the database so it helps if they are already in that format. If submitting in spreadsheet format, please include the following fields. You can give the columns any header names that are best for you as long as the content is clear.

### **Required Fields:**

**Butterfly Common Name** Please use NABA standard names as listed in <http://www.naba.org/pubs/enames2.html>.

**Sighting Date** Please include year.

**Number of Individual Butterflies** Please use a number. Descriptions such as “many”, “hundreds”, “abundant”, etc. make it difficult to know exactly what is meant and how to compare this to more exact numbers. In general I will use the minimum number consistent with the descriptor. For instance, if the word “hundreds” is used I will convert that to 200 and put “hundreds” in the comments. If all else fails, I’ll just indicate the presence of the species by entering “1” in this field. Even entries such as 40+ are confusing. In this latter case the number will be converted to 40 and 40+ will be put into the comments. Please enter 0 in this field if recording eggs, caterpillars or chrysalises and then put details under Comments, (see Optional Field below). This will make it easy to sort out these observations from the observations of the adult butterflies. Also please enter 0 in this field and put a note in

the Comments if you failed to find an expected butterfly on a particular trip.

**Site Name** Only the specific name is needed. There is no need to also include the township and county as separate fields unless this is a new site or one that is not widely known. If I don’t know the site, I will ask for more information. There are currently over 400 site names in the database. For instance, no further information is needed for sites like Mountainside Park, Crater Lake Road, etc. which are well known. However, if sending in a record from a large area, such as the Walkill WMA, it would be useful to be as specific as possible as to which particular site within the WMA is referred to. If no details are given, the sighting will be lumped under the most general name for the area. If more specific information is available it will be recorded in the database but usually only the more general site name will be published in the Pearly-Eye for simplicity.

**Observer’s Name(s)** Send me what you want but I have made an arbitrary decision to record at most 3 individual names for any observation. Any more will be captured as “et al.”. NABA field trips are recorded with the person who submitted the sighting and NABA in this field.

### **Optional Field:**

**Comments** Here is where you can include any other information including non-adult stages, state of wear, sex, behavior, nectar plant, etc.

Thank you for submitting your sightings in a standardized a format as possible. Any other suggestions for making this process easier for everyone are welcome.

## Annotated List of 2011 Northern New Jersey Butterflies

Compiled with the assistance of Eileen Mahler in converting the submissions to a standardized format from the field reports of over 40 observers this year (see end of this list for people and place abbreviations). 8300 records were submitted for 2011 encompassing 97 species—thank you all for your efforts in recording the butterfly fauna in our area. There were comparatively few new all time early or late dates. There were new early dates for only Giant Swallowtail, Hackberry Emperor, and Northern Pearly-eye and new late dates for Giant Swallowtail, Viceroy, and Dusted Skipper. The 2010 Pearly-Eye has the most up-to-date list of early and late dates which will be updated in the 2012 Pearly-Eye since 2012 is looking to be a very unusual year for butterfly emergences. If any errors are noted in the list below, please send them to Jim Springer ([springer@naba.org](mailto:springer@naba.org)) for correction in the main database.

**Pipevine Swallowtail** Widespread throughout our region with 26 reports with the initial one found 5/21 (1) at SUS:KVSP [JB, TH]. Some club members' gardens appear to have self-sustaining colonies now. Only single digits were reported from any one site primarily since the large colony at the Palisades was apparently not checked this year. High count was 7/16 (4) BER:GR4JC. Last found on 8/26 (1) SUS:Lafayette Twp [BS].

**Black Swallowtail** Widely reported throughout our region with a total of 190 reports spread throughout the season. Initially seen 4/25 (1) SUS:ATL [VC] with maxima on 7/4 (36) SOM:Negri-Nepote [CW, et al.], 7/10 (30) MER:Mercer County Pk NW [JS, et al.], and 7/16 (22) SUS:Walkkill River WMA [JZ, SW, WW]. Last adult found on 10/18 (1) SUS:Fredon Twp [SW, WW] but a larva was found on the ground on 11/7 (1) SUS:Fredon Twp [SW, WW] that then pupated overnight.

**Giant Swallowtail** This species has clearly been successful at reestablishing itself in NJ as a breeding population. The centers of the population within the state are the Appalachian Trail Lands in Vernon and Whittingham WMA, both places in Sussex County with large stands of Prickly Ash, its

host plant. However, a few reports were also received for Bergen, Morris, Passaic and Warren counties. The spring brood was first seen on 4/30 (1) SUS:ATL [VC], an all-time early date but interestingly the next report was almost 3 weeks later. High count for the spring brood was 5/31 (25) SUS:ATL [VC]. The summer brood began in earnest on 7/15 (8) SUS:ATL [VC] with maxima on 7/27 (11) SUS:Whittingham WMA [SW, WW], 7/27 (53) SUS:ATL [VC], and 8/23 (19) SUS:ATL [VC]. Last seen on an all-time late date of 10/8 (1) SUS:Hardyston Twp [VC] a new late date by 2 weeks.

**Eastern Tiger Swallowtail** Like most years this was the most widely reported swallowtail (470 entries). First spotted on 4/22 (2) ESS:Bloomfield [VC]. Slow ramp up with the first double-digit report on 5/19 (10) SUS:Whittingham [JB, MB]. Some of the maxima throughout the season were 5/27 (42) SUS:DWGRA/Stokes SF [SW, WW], 8/8 (50) MOR:Willowwood [TH], 8/9 (28) MOR:Schooley's Mt Pk [JS], and 8/18 (28) SUS:Dark Moon Preserve [JB, MB] with the sightings then tapering off with the last one on 9/15 (1) SUS:Lafayette Twp [BS].

**Spicebush Swallowtail** Also numerous and widespread. Initially found 5/1 (4) SUS:ATL [VC]. Some of the peak numbers

were 5/27 (90) SUS:DWGRA [SW, WW], 7/27 (29) MOR:Willowwood [JB, et al.], 8/1 (39) SUS:ATL [VC], and 8/6 (31) MON:Tatum Pk [DA]. Last seen 10/5 (1) SUS:ATL [VC].

**Checkered White** No reports in 2011.

**Cabbage White** The most widely reported butterfly as usual (716 reports). Initially seen on 3/17 (1) SOM:Somerset [PW]. Many double-digit reports throughout the season with some of the most notable being ones on 6/10 (150) MER:Pole Farm [HK], 6/15 (100) SOM:Negri-Nepote [EM, GM], 6/16 (400) SOM:Sourland Mt. [JS], 6/18 (100) BER:Hilltop Conservancy [NABA], and 6/26 (250) SOM:Duke Farms [CW, et al.]. Last noted 11/27 (1) MON:Sandy Hook [BS].

**Falcate Orangetip** 24 reports from Mercer, Monmouth, Morris, Passaic and Sussex counties. Initially found 4/11 (2) MON:Assunpink WMA [JS]. Largest number was on 5/3 (24) MOR:Mountainside Pk [JS]. Last noted 6/1 (1) SUS:Blue Mt Lakes and Crater Lake Rds [SW, WW].

**Clouded Sulphur** Another widely reported species. First spotted 4/20 (1) MER:Mercer County Pk [HK]. Many double-digit reports with some of the maxima seen on 5/31 (20) MOR:Kinney Rd [TH], 8/10 (25) SUS:Paulinskill WMA [SW, WW], 10/5 (29) SUS:ATL [VC], and 10/9 (22) SUS:Dark Moon Preserve [JB, MB]. Finally reported on 10/25 (2) SUS:ATL [VC] and 10/25 (1) SUS:KVSP [TH].

**Orange Sulphur** More widely reported than previous species. Initially reported 4/25 (4) SUS:ATL [VC] with many maxima during the summer season and into the fall on 7/4 (75) SOM:Negri-Nepote [CW, et al.], 8/11 (105) WAR:Yards Creek [SW, WW], 10/10 (63) SUS:ATL [VC], and 10/23 (33) SUS:Dark Moon Preserve [JB, MB]. Last seen on 12/17 (1) MOR:Millburn Twp [TH, JS] on a Christmas bird count with the temperature at 31°F.

**Cloudless Sulphur** No reports in 2011.

**Little Yellow** After last year's invasion throughout the state, not a single one was found in northern NJ (or southern NJ) this year.

**Harvester** In addition to the fifth year running that there has been a regular colony in Mendham, Morris County, excitement was generated by a new significant colony found this year in Middletown, Monmouth County. The species was initially reported on 5/21 (3) MOR:Dismal Harmony NA [AK] and seen regularly in numbers of 1-3 throughout the season. A report from a new site on 6/2 (1) MON:Tatum Pk [NK] was of interest but reports on 7/31 (7) MON:Tatum Pk [JS, et al.] and 8/9 (10) MON:Tatum Pk [DA] along with many clusters of Woolly Aphids on Beech trees raised the possibility of a substantial ongoing population at this site. In addition, singletons were also found from a couple of other previously known sites: 7/5 (1) SUS:KVSP [TH] and 8/5 (1) SOM:Scherman-Hoffman [JS]. Last seen at the Mendham site on 9/12 (1) MOR:Dismal Harmony NA [AK].

**American Copper** Not nearly as widely reported (53 reports) as last year (130). Initially found on 4/26 (1) MOR:Mountainside Pk [VC] with some modest maxima on 5/7 (20) MON:Sandy Hook [MG] and 5/30 (28) SUS:Flatbrookville [JB]. Finally reported on 9/13 (5) MON:Sandy Hook [TH] and 9/13 (3) MON:Sandy Hook [BS].

**Bronze Copper** Found at two sites within the region this year. First seen 7/27 (1) SUS:ATL [VC] and then found on 8/2 (4) SUS:Wallkill NWR [TH] and seen the next day at this site but not subsequently. Last found on 8/13 (4) SUS:ATL [NABA]. Also found this year just across the border in NY on 6/20 (1) ORG:Wallkill NWR [SW, WW] and 7/31 (1) ORG:Wallkill NWR [SW, WW].

**Bog Copper** Only one report from reliable site on 6/19 (4) MID:Monroe Twp [JS, et al.].

**Coral Hairstreak** Best year in a while with 13 reports widely scattered but not in large numbers. Initially reported on 6/16 (2) SOM:Sourland Mt [JS]. Maximum was on 6/29 (7) MOR:Mountainside Pk [CM]. Last seen on 7/10 (1) MOR:Willowwood [TH].

**Acadian Hairstreak** After last being seen in the state in 2005, there was one report on 7/8 (1) SUS:ATL [VC] a new site but with good potential habitat. Unfortunately, no photograph was taken and subsequent searching couldn't confirm.

**Edwards' Hairstreak** A handful of reports from Sussex County and one from Warren County. First reported on 6/16 (4) WAR:AT from Milford Gap to Catfish Tower [TH]. Only double-digit report was on 7/10 (17) SUS:Sunrise Mt [JB, MB]. Last reported on 7/15 (1) SUS:Thunder Mt [JB, et al.], a new location.

**Banded Hairstreak** 98 reports of this species shows that numbers have continued to build on 2010's increase over recent years. Initially seen 6/7 (1) MOR:Morristown [JG] and 6/7 (1) SOM:Sourland Mt [JS, et al.] Seen regularly until the beginning of August with the maximum on 6/25 (55) SUS:Maple Grange Pk [VC], an excellent number. Last found on 8/7 (1) MOR:Dismal Harmony NA [BS].

**Hickory Hairstreak** Only two reports of this species both from Morris County of this uncommon species which can be overlooked among the more common Banded Hairstreaks: 6/20 (2) MOR:Troy Meadows [JS], and 7/2 (1) MOR:GS4JC [NABA].

**Striped Hairstreak** Low numbers but hanging on. First reported 6/19 (1) MID:Monoe Twp [JS, et al.]. Maximum number seen on 7/2 (8) MOR:Combs Hollow Preserve [SW, WW, et al.] on the GS4JC. Finally seen on 7/27 (1) SUS:ATL [VC].

**Oak Hairstreak** Only one report following no reports last year: 6/27 (1) MOR:Black River WMA [JS], photographed.

**Brown Elfin** Four reports from three locations. First seen 4/29 (11, max) SUS:Crater Lake Rd [JB, WW, et al.]. Two other locations were 4/30 (1) MOR:Split Rock Reservoir [JS] and 5/1 (1) SUS:Sunrise Mt [FW]. Last seen a month later 5/30 (1) SUS:Crater Lake Rd [SW, WW].

**Frosted Elfin** No reports from northern NJ even though the last known site at MON:Assunpink WMA was searched.

**Henry's Elfin** Two reports from the two known locations in Monmouth County: 4/11 (1) MON:Allaire SP [JS] and 5/7 (8) MON:Sandy Hook [MG].

**Eastern Pine Elfin** Found only in Sussex and Middlesex counties: first on 4/29 (4, max) SUS:Crater Lake Rd [JB, WW, et al.], next on 4/30 (1) SUS:Stokes SF [FW] and finally on 5/8 (1) MID:Jamesburg County Pk [JS, CW, PW].

**Juniper Hairstreak** Widely reported within our region. Initially seen on 4/25 (1) SUS:ATL [VC] with a respectable maximum number seen on 7/10 (19) MER:Pole Farm [JS, et al.]. This species was last reported on 8/8 (1) SUS:Fredon Twp [SW, WW].

**White M Hairstreak** The number of reports (4) were down significantly from 2010's 15 but still widely dispersed. First reported on 6/16 (1) SOM:Sourland Mt [JS]. Maximum seen on 8/13 (2) SUS:ATL [NABA] and finally seen on 8/29 (1) SOM:Somerset [MG].

**Gray Hairstreak** Widely reported throughout northern NJ with 69 reports this year. First seen on 4/26 (1) HUN:Milford Bluffs [JS]. No double-digit reports. Maximum found on 5/3 (9) MOR:Mountainside Pk [JS]. Last reported on 10/9 (1) SOM:Finderne Wetlands [MG], after a gap of more than three weeks.

**Red-banded Hairstreak** Widely reported throughout northern NJ except no reports from Hudson, Sussex and Union Counties. Initially reported on 5/21 (2) MID:Mount Mills

[CW, JS, PW]. Maximum on 8/22 (21) SOM:Somerset [PW] with the last report on 10/8 (4) MON:Sandy Hook [JG] more than a month after the next previous report.

**Eastern Tailed-Blue** A common species that was widely reported again this year. First seen on 4/25 (2) SUS:ATL [VC]. Maxima throughout the year at 5/21 (97) MOR:Mountainside Pk [CM], 6/15 (30) SOM:Negri-Nepote [EM, GM], 7/1 (47) MID:South Brunswick [HK], 8/11 (77) WAR:Yards Creek [SW, WW] and 9/4 (40) BER:Mahwah [JS]. Last found on 10/25 (1) SUS:ATL [VC].

**Spring Azure** Widespread throughout the region but surprisingly in low numbers. First reported on 4/9 (1) HUN:Deer Path Pk [JS]. Maximum on 5/1 (8) SUS:ATL [VC]. Sometimes hard to tell when Spring Azures end and Summer Azures begin but last report was on 5/31 (6) SUS:ATL [VC].

**Summer Azure** As usual many reports throughout the season. First report on 5/24 (1) MID:Plainsboro [HK]. A very interesting fresh Summer Azure with dark markings on the ventral side was seen and photographed on 6/13 (1) SUS:Ogdensburg [TH, JS]. According to David Wright the dark markings were the result of cool temperatures in the days before the adult butterfly emerged from its chrysalis. Double-digit maxima through the season were on 6/15 (16) SUS:ATL [VC], 6/18 (11) BER:Hilltop Conservancy [NABA], and 7/10 (15) MER:Pole Farm [JS, et al.]. Last seen on 10/10 (1) SUS:ATL [VC], almost a full month after the next previous report.

**Appalachian Azure** Only a limited number of reports of this specialized habitat species. First spotted on 5/24 (7,max) HUN: Tower Hill Reserve [JS]. Last seen on 6/16 (1) Sourland Mt [JS].

**Silvery Blue** The single most exciting sighting of the year in northern NJ. At the end of May some birders from Cape May were looking for a known singing Golden-

winged Warbler next to High Point State Park. After they found the bird and as they were working their way back to the car, an unusual butterfly was spotted and photographed with an iPhone. Upon review of the image when they had returned home at the end of the weekend, it was determined that the butterfly was a Silvery Blue, the first record for this butterfly in the state. This species has been working its way south from New England and New York so it had been hoped that it would eventually show up in NJ and 2011 turned out to be the year. Subsequent searching did not reveal any other individuals, but hopefully in the near future it will become a permanent resident of the state. Specific record is the following: 5/28 (1) SUS: Minisink Preserve [TG, et al.].

**Northern Metalmark** This species had hit the ground running this year when it was initially seen on 6/25 (21) WAR:White Lake WMA [ABa]. Not surprisingly the high count for the season was also found on this site on 6/29 (42) WAR:White Lake WMA [mobs]. Other maxima were seen on 6/27 (8) SUS:KVSP [SW, TH, WW] and on 7/11 (4) SUS:Fredon Twp [SW, WW]. Last seen on 7/19 (1) SUS:Fredon Twp [SW, WW].

**American Snout** A modest number of reports this year (15) compared to last year's 36. This species can pop up seemingly anywhere. First found 7/1 (1) SUS:Hyper Humus [TH]. This species is usually never seen in large numbers in NJ so the maximum of 3 seen on 7/16 (3) SUS:ATL [VC] is not unusually low. The last individual was observed on 9/13 (1) MON:Sandy Hook [TH].

**Variiegated Fritillary** This year's 32 reports is more than double last year's 14 for this southern immigrant. Initially found on 5/27 (1) MON:Assunpink WMA [HK] and 5/27 (1) MOR:Willowood [JS] with a modest maximum found on 7/27 (3) MID:Mount Mills [JS]. Last observed on 10/22 (1) HUN:Cold Brook Reserve [TH] over a month after the next previous individual.



**Great Spangled Fritillary** This year's 280 reports is virtually identical to last year for this visible widely-reported species. First found on 5/30 (1) MOR:Mountainside Pk [BS]. Many double-digit counts from June through September with a maximum on 6/16 (53) SOM:Sourland Mt [JS]. Final sighting was on 10/7 (1) SUS:KSVP [JB].

**Aphrodite Fritillary** No reports this year following only one report last year and none in 2009. This species has never been very numerous with the state. Is it winking out or is it flying under the radar by not being identified among the much more common Great Spangled Fritillary?

**Silver-bordered Fritillary** Only 8 reports from 3 locations within our area. First discovered 5/29 (1) SUS:Crater Lake Rd [JB, MB]. The only non-singleton report was on 7/26 (10) SUS:Blue Mt Lakes [SW, WW]. Final sighting was on 8/24 (1) SUS:Blue Mt Lakes [JB, MB].

**Meadow Fritillary** This year's 21 reports are the lowest in the past five years. Hopefully this is not another fritillary in trouble. First observed on 5/9 (3) WAR:Oberly Rd [SW, WW] with only a modest maximum on 8/10 (9) SUS:Paulinskill WMA [SW, WW]. Finally seen on 10/8 (1) SUS:Waterloo Village [BS] more than 6 weeks later than the next previous sighting this year.

**Harris' Checkerspot** No verified report in many years.

**Pearl Crescent** There was a strong showing again this year with 345 reports. Initially discovered 5/1 (1) MER:Mercer County Pk [HK]. Many double-digit reports from May through September with a maxima on 7/4 (250) SOM:Duke Farms [CW, et al.]. Last sighting was on 10/23 (1) HUN:Cold Brook Reserve [JB, MB].

**Baltimore Checkerspot** Only limited numbers reported this year. Initial report of larvae was on 6/1 (12 on Turtlehead) SUS:Watergate [SW, WW]. First adult was discovered on 6/10 (1) SUS:ATL [JG]. A

modest maximum was reported on 6/30 (7) SUS:ATL [JL, et al.]. Last found on 7/13 (1) SUS:KVSP [AK, JB, MB].

**Question Mark** First appearance was on 4/30 (1) MOR:Willowwood [JB, MB] and 4/30 (1) SUS:ATL [VC] which is 6 weeks later than the clearly overwintering Eastern Comma (see below). Only double-digit maxima on 5/27 (50) SUS:DWGRA [SW, WW] and 6/26 (11) SOM:Duke Farms [CW, et al.]. Last report on 10/25 (1) SUS:ATL [VC].

**Eastern Comma** Amazing stable number of reports in the past 5 years with 129 reports this year. Somerset County was the place to be in mid-March to see the first of this overwintering species start flying again for the year: 3/17 (1) SOM:Delaware-Raritan Canal [PW], 3/17 (1) SOM:Somerset [PW] and 3/17 (5) SOM:Chimney Rock [JS]. Largest number seen was on 6/15 (17) SUS:ATL [VC] and the final individual stopped flying on 10/18 (1) SUS:KVSP [TH].

**Compton's Tortoiseshell** What happened this year for a species with 17 individuals seen at one site on one day last year? Only one report on 5/1 (1) SUS:Walpack [JB, MB].

**Mourning Cloak** This species made its normal appearance this year with regular reports in early spring that tapered off after June. First sighting was on 3/17 (1) SUS:KVSP [TH] and 3/17 (2) SOM:Chimney Rock [JS]. No large numbers spotted but the peak on 10/8 (7) MON:Sandy Hook [JG] was interesting so late in the season (migration?). Last reported 11/20 (1) WAR:Raccoon Ridge [ABo, DBr].

**American Lady** Widely reported but mostly in small numbers. First reports were on 4/25 (1) MOR:Mountainside Pk [CM] and 4/25 (1) SOM:Warren Twp [JS]. Only double-digit numbers were found on 4/29 (14) SUS:Crater Lake Rd [JB, et al.] and 5/25 (18) PAS:Ramapo Mt SF [JS]. The late date in the middle of September is early for this

species: 9/14 (1) WAR:Yards Creek [SW, WW] and 9/14 (1) SOM:Warren Twp [JS].

**Painted Lady** Definitely not an invasion year for this species with only 7 reports and only one non-singleton. First sighting was on 5/25 (1) PAS:Ramapo Mt SF [JS] and last record was on 8/29 (2, max) BER:DeKorte Pk [VC].

**Red Admiral** A pronounced drop off after last year's heavy migration. First seen on 4/25 (1) SOM:Somerset [JBU] and 4/25 (1) SUS:ATL [VC]. Only two double-digit days on 5/7 (15) MON:Sandy Hook [MG] and 6/26 (34) SOM:Duke Farms [CW, et al.]. Last found on 10/2 (1) SUS:KVSP [TH].

**Common Buckeye** The number of reports (254) was double 2010's substantial increase over 2009. Two independent reports from Mountainside Park started off the season: 5/1 (2) MOR:Mountainside Pk [CM] and 5/1 (1) MOR:Mountainside Pk [AB]. Steady reports throughout the season with a number of double-digit days. The maximum found was on 8/1 (42) WAR:Jenny Jump SF [SW, WW]. Reports continued through the end of October until the big snowstorm. Last sightings on 10/25 (11) SUS:ATL [VC], 10/25 (1) SUS:KVSP [TH], and 10/25 (1) SOM:Somerset Farms [PW].

**"Red-spotted Purple"** Above average year with 96 reports but not as many as last year. First sighting was on 5/26 (4) SUS:ATL [VC]. Regular report through the middle of September with only one double-digit day 5/30 (10) SUS:DWGRA/Stokes SF [SW, WW]. Last reported on 9/17 (1) SUS:Fredon Twp [SW, WW].

**"White Admiral"** No reports in 2011 but two in 2010.

**Viceroy** Good number of reports with most being from Sussex County. First reported from four locations 5/25 (1) SUS:ATL [VC], 5/25 (1) MOR:Kinney Rd [TH], 5/25 (1) WAR:White Lake WMA [JB, MB] and 5/25 (1) SUS:Sparta Twp [SW, WW]. Maxima on

8/5 (15) SUS:ATL [VC] and 9/4 (10) MOR:Kinney Rd [JB, MB]. Last seen on 10/16 (1) MOR:Kinney Rd [JB, MB] (an all-time late date by 2 days) a month after the next previous sighting in our area.

**Hackberry Emperor** A good number of reports this year. The season started out strong on 5/31 (12) SUS:ATL [VC] (an all-time early date by 2 days) with a maximum at the same location on 6/15 (22) SUS:ATL [VC]. Last seen on 8/30 (4) HUN:Clinton [HT].

**Tawny Emperor** An average year with 20 reports but all from Sussex County explaining perhaps the early late date and why no second brood was found which would have been more likely further south. First noted on 6/15 (1) SUS:ATL [VC]. Only significant number was on 7/9 (7) SUS:ATL [VC]. Last report on 8/4 (2) SUS:River Bend Farm [SW, WW] and 8/4 (1) SUS:Fredon Twp [SW, WW].

**Northern Pearly-eye** An average number of sightings this year from Morris, Sussex and Warren counties. First noted on 6/12 (1) SUS:KVSP [TH] (an all-time early date by 1 day). Only modest maxima on 6/30 (7) SUS:ATL [JL, et al.] and 7/9 (7) SUS:Sparta [JS, et al.]. Last report from 8/4 (4) SUS:River Bend Farm [SW, WW].

**Eyed Brown** Found at two locations away from its Appalachian Trail Land stronghold with all locations being in Sussex County. First report was on 6/6 (6) SUS:Hardyston [SW, WW] [editor's note: does anyone think the date and number of butterflies in this report are just a coincidence?]. Maximum found on 6/15 (35) SUS:ATL [VC]. The last report was on 7/16 (1) SUS:Wallkill NWR [JZ, SW, WW].

**Appalachian Brown** An average number of reports of modest numbers over a wide number of sites in our area. First seen 6/1 (1) SUS:Watergate [SW, WW]. Best count was on 6/19 (11) MID:Mount Mills [JS, et al.]

Latest report submitted from 8/30 (1) HUN:Clinton [HT].

**Little Wood-Satyr** Widely reported in the usual good numbers, especially the first brood. First noted on 5/21 (1) MOR:Dismal Harmony NA [AK] and 5/21 (3) MOR:Mountainside Pk [CM]. Most large flights from the last week in May through the first week in June. The only triple-digit days were on 5/29 (110) MOR:Mountainside Pk [CM] and 6/2 (125) MOR:Schooley's Mt Pk [JS]. Difficult to distinguish when the first brood ended and the second began but the large number of the second brood on 6/30 (25) HUN:Hoffman Pk [TH] stands out. Last reported on 7/27 (1) SUS:ATL [VC].

**Common Ringlet** A good number of reports from Morris, Sussex and Warren counties. This species doesn't appear to be working its way any further south in NJ. First seen on 5/25 (4) WAR:White Lake WMA [JB, et al.] and 5/25 (2) SUS:ATL [VC]. The best counts were made on 5/30 (40) SUS:Flatbrookville [JB], 6/6 (30) SUS:Hardyston [SW, WW] and 6/9 (25) SUS:Montague [TH]. After a hiatus of almost a month the second brood appeared on 7/15 (1) SUS:ATL [VC]. Last observed on 8/24 (3) SUS:Blue Mt Lakes [JB, MB].

**Common Wood-Nymph** A large number of reports for this widely dispersed species. First noted on 6/18 (1) MOR:Fosterfields [JG]. As usual many double-digit reports but only one triple-digit day on 7/2 (100) MOR:Great Swamp NWR [JS, et al.]. Last sighting on 9/2 (1) SUS:Lafayette [BS].

**Monarch** A good year with 441 reports throughout our region. Initial reports on 4/26 (1) WAR:Green Twp [SW, WW] and 4/26 (1) MOR:Mountainside Pk [VC]. Peaks on 7/16 (26) SUS:Walkill NWR [JZ, SW, WW], 8/5 (53) SUS:ATL [VC], 8/12 (26) SUS:Whittingham WMA [SW, WW], 8/18 (26) SUS:Dark Moon Preserve [JB, MB], 9/14 (42) WAR:Yards Creek [SW, WW] and 10/8 (30) MON:Sandy Hook [JG]. Last

report was after the late October snowstorm on 11/3 (1) SUS:Byram [SW, WW].

**Silver-spotted Skipper** At 377 reports the most widely reported skipper in our region. First noted on 5/10 (1) MER:Mercer County Pk [HK, JS]. Maxima on 6/16 (40) SOM:Sourland Mt [JS], 7/6 (46) MOR:Black River WMA [SW, WW], 7/9 (40) KVSP [JS, et al.], 8/1 (81) WAR:Jenny Jump SF [SW, WW], and 8/6 (50) MON:Deep Cut Gardens [DA]. Last seen on 9/27 (1) SUS:Fredon Twp [SW, WW].

**Long-tailed Skipper** Unreported in 2011 with last report in 2009.

**Hoary Edge** Nine reports from five sites in Morris and Sussex counties only. First spotted on 6/5 (2) MOR:Mountainside Pk [JG]. High number on 7/2 (7) MOR:Mountainside Pk [CM]. Last seen on 7/10 (4) MOR:Wildcat Ridge WMA [TB].

**Southern Cloudywing** Seven reports from six sites. Initial sighting was on 6/16 (2) SOM:Sourland Mt [JS] two weeks before the next sighting. Maximum on 7/4 (5) SUS:Flatbrookville [JB, MB]. Last observed on 8/7 (1) SOM:Negri-Nepote [CW, et al.].

**Northern Cloudywing** A normal year with widespread reports but none in double digits. Initial report was on 5/19 (1) SUS:KVSP [TH]. Maxima on 5/29 (6) SUS:KVSP [TH] and 5/30 (6) SUS:Flatbrookville [JB, MB]. Last observed 7/4 (2) SUS:Flatbrookville [JB, MB].

**Dreamy Duskywing** Fifteen reports but half from the popular Mountainside Park. First spotted on 5/3 (2) MOR:Mountainside Pk [JS]. High number on 5/27 (19) MOR:Wildcat Ridge WMA [JB]. Last report finished up on 6/8 (2) MOR:Mountainside Pk [CM].

**Sleepy Duskywing** Only one report this year following none last year: 4/26 (3) HUN:Milford Bluffs [JS]. Is this species vanishing from the Kittatinny Ridge?

**Juvenal's Duskywing** A good year for this species with 82 widespread reports. First noted on 4/20 (1) MER:Mercer County Pk [HK]. Significant maxima on 5/5 (20) WAR:Allamuchy SP [TH], 5/24 (18) HUN:Bethlehem Twp [JS], and 5/27 (18) SUS:Mohican-Raccoon Ridge [JS]. Final sighting on 6/18 (1) SUS:Fredon Twp [SW, WW].

**Horace's Duskywing** A great number of reports (47) but with mostly modest numbers from widespread locations in our region. Initially identified on 7/1 (1) HUN:Deer Path Pk [JS, SW, WW]. The only double-digit day was on 7/16 (16) MID:Mount Mills [HK] with the last sighting on 9/14 (1) WAR:Yards Creek [SW, WW].

**Wild Indigo Duskywing** The 115 reports were a modest decrease from 2010 for this widely reported species. The first report was on 4/30 (1) PAS:Ringwood Twp [JS]. The only double-digit maxima were on 7/28 (24) SUS:Blue Mt Lakes [JB, et al.], 8/23 (15) MOR:Troy Meadows [SW, WW] and 9/14 (13) WAR:Yards Creek [SW, WW]. Final report from 10/10 (1) SUS:ATL [VC].

**Common Checkered-Skipper** Widely reported but never in large numbers. No spring sightings with first on 7/4 (5, max) SOM:Negri-Nepote [CW, et al.]. The only other maxima was on 9/4 (4) SUS:Muckshaw Ponds Preserve [TH] and the final sighting occurred on 10/25 (4) SUS:ATL [VC].

**Common Sootywing** Only nine reports from eight widely dispersed sites. First found on 7/4 (1) SOM:Negri-Nepote [CW, et al.]. The maximum was only 3 found on 8/10 (3) SUS:Paulinskill WMA [SW, WW] with the final individual seen on 9/1 (1) SUS:Fredon Twp [SW, WW].

**Arctic Skipper** Last seen in the state in 2005. It was nice while it lasted.

**Swarthy Skipper** Population appears to be widely distributed but numbers have been

quite small in recent years. First individual was sighted on 6/16 (1) SOM:Sourland Mt [JS]. High number of only four on 8/7 (4) SOM:Negri-Nepote [CW, et al.]. Last sighting at an unusual spot on 9/1 (1) PAS:Rifle Camp Pk [VC].

**Least Skipper** The number of reports (180) is down from 2010 but this widely dispersed species is quite well represented in our area. First noted 5/25 (2) SUS:ATL [VC]. As usual there were reports of many double-digit days along with maxima on 8/9 (100) SUS:Wallkill WMA [JB, et al.] and 8/13 (500) SUS:ATL [NABA]. Numbers dribbled off after the third week in August with the final individual found on 9/25 (1) SUS:Fredon Twp [SW, WW].

**European Skipper** The number of reports (36) is down from last year but still quite respectable. First reports came in on 6/4 (1) SUS:Whittingham WMA [JB, MB] and 6/4 (10) MOR:Schooley's Mt Pk [NABA]. Maxima were found on 6/9 (20) SUS:Montague [TH], 6/10 (29) MOR:Troy Meadows [JS], 6/15 (30) SUS:ATL [VC], and 6/18 (70) MOR:Schooley's Mt Pk [JG]. Last report from 7/9 (1) SUS:ATL [VC].

**Fiery Skipper** This year's influx captured by 26 reports of this summer immigrant is up nicely from the past two years. First discovered on 7/17 (1) SUS:Fredon Twp [SW, WW]. The maximum was found on 10/8 (3) MON:Deep Cut Gardens [JS] with a late date of 10/25 (1) SOM:Somerset Farms [PW].

**Leonard's Skipper** This species appears to be in trouble within the state with both the number of sites and number of individuals dwindling. In our area a total of 8 reports were submitted all from one party with 6 reports from the same place. First sighting was on 8/26 (1) SUS:Fredon Twp [SW, WW]. High number was on 9/14 (3) WAR:Yards Creek [SW, WW] and included a female laying eggs. The last sighting was on 9/22 (1) SUS:Fredon Twp [SW, WW]. The other site where the species was found was High Point SP.

**Cobweb Skipper** 6 reports from 3 sites in Morris and Passaic counties. First identified on 5/14 (1) MOR:Mountainside Pk [JS]. The highest number was found on 5/25 (11) PAS:Ramapo Mt SF [JS]. Last report was on 5/29 (5) MOR:Mountainside Pk [CM].

**Indian Skipper** Reported from nine sites in Morris, Passaic, and Sussex counties. First encountered on 5/25 (15, max) PAS:Ramapo Mt SF [JS]. The other maxima was found on 5/30 (15) SUS:Weldon Brook WMA [CW, JS, PW]. Last identified on 6/17 (2) SUS:KVSP [TH].

**Peck's Skipper** This common grass skipper was well reported again this year. First encountered on 5/21 (2) MID:Mount Mills [CW, JS, PW]. A number of double-digit reports with the maxima found on 7/27 (31) MID:Mount Mills [JS] with the final individual found on 10/10 (1) MOR:Morristown [JG].

**Tawny-edged Skipper** This species was well represented throughout our area with 110 reports. First encountered on 5/27 (2) MOR:Willowwood [JS]. The only double-digit report was on 7/31 (12) MON:Tatum Pk [JS, et al.]. Last sighting was on 9/24 (1) SUS:KVSP [TH], three weeks after the next previous sighting.

**Crossline Skipper** The 41 reports submitted represent a nice uptick from the previous year. First found on 6/4 (1) MOR:Schooley's Mt Pk [NABA]. Only two double-digit days on 7/26 (11) SUS:Blue Mt Lakes and Crater Lake Rds [SW, WW] and 7/28 (10) SUS:Flatbrookville [JB, MB]. Last seen on 9/14 (1) MOR:Willowwood [JB, MB].

**Long Dash** Reported from nine sites in Morris and Sussex counties. First encountered on 5/28 (2) MOR:Willowwood [AK, TH]. High count on 6/2 (74) MOR:Schooley's Mt Pk [JS] following last year's outstanding number at this site indicates a strong colony at least for now. Final sighting was on 6/27 (1) SUS:Lafayette [BS].

**Northern Broken-Dash** Reported widely in 97 reports. First sighting was on 6/2 (1) SOM:Somerset [PW]. Double-digit reports on 6/30 (22) MOR:Morris County MUA [SW, WW, et al.], 7/1 (12) HUN:Deer Path Pk [JS, SW, WW], and 7/9 (14) SUS:Andover [JS, et al.]. Last found on 8/9 (1) MOR:Schooley's Mt Pk [JS].

**Little Glassywing** Widespread with more reports (95) than the last few years. First encountered on 6/10 (4) MER:Pole Farm [HK]. Many double-digit days with the highest on 6/16 (44) SOM:Sourland Mt. [JS], 6/20 (52) MOR:Troy Meadows [JS] and 7/6 (35) MOR:Black River WMA [SW, WW]. Last found on 7/19 (3) SUS:Fredon Twp [SW, WW].

**Sachem** The number of reports (19) is down significantly from the previous four years and very sporadic. First encountered on 7/4 (1) SOM:Somerset [CW, et al.] followed by a hiatus of 3 weeks. The high number was found on 7/24 (4) MID:Davidson's Mill Pond Pk [JS]. Last seen on 10/25 (1) SOM:Somerset Farms [PW] following an absence of a month.

**Arogos Skipper** Only two reports from one day on two nearby sites: 6/30 (1) MOR:Morris County MUA [SW, WW, et al.] and 6/30 (3) MOR:Roxbury [SW, WW, et al.] (tying the all-time early date for this species).

**Delaware Skipper** The number of reports for this species (42) continues to be stable. First reported on 6/15 (2) SUS:ATL [VC] which is very unusual since this is 10 days before this widely reported species began to show up elsewhere. Only two double-digit reports were on 6/30 (28) MOR:Morris County MUA [SW, WW, et al.] and 7/4 (18) SUS:Flatbrookville [JB, MB]. Last sighting was on 7/28 (1) SUS:Flatbrookville [JB, et al.].

**Mulberry Wing** This species continues to be steadily reported (21 submissions) mostly from Sussex County but also Middlesex, Monmouth and Morris counties. First

encountered on 7/4 (1) SUS:Flatbrookville [JB, MB]. The maximum found this year was on 7/21 (68) SUS:High Point SP [SW, WW] and was last found on 7/28 (1) SUS:Sparta Mt WMA [SW, WW].

**Hobomok Skipper** This species continues to be well reported especially in the northern part of our region. Early date was 5/19 (1) SUS:ATL [VC]. High number found on 6/3 (79) SUS:High Point SP [SW, WW], an outstanding figure. Last encountered on 6/29 (1) MOR:Schooley's Mt Pk [TH].

**Zabulon Skipper** Widely reported throughout our area. First encountered on 5/10 (1) MER:Sayen Gardens [HK, JS]. Highest count for the first brood was on 5/25 (12) SUS:ATL [VC]. Last report from the first brood was on 6/30 (2) SUS:ATL [JL, et al.]. The start of the second brood was recorded as 7/24 (1) MID:Pigeon Swamp SP [JS]. Highest number for the second brood was on 8/20 (25) MOR:Willowood [NABA]. Last found on 10/10 (1) MOR:Morristown [JG].

**Broad-winged Skipper** Reported throughout our area in modest numbers. First encountered in three sites on the SP4JC: 7/9 (2) SUS:Sparta [JS, et al.], 7/9 (1) SUS:KVSP [JS, et al.], and 7/9 (1) SUS:Andover [JS, et al.]. Double-digit highs on 7/13 (13) SUS:KVSP [TH], 7/17 (10) SUS:High Point SP [TH] and 8/5 (15) SUS:ATL [VC]. Last encountered on 8/29 (1) BER:DeKorte Pk [VC].

**Dion Skipper** Local but continues to found in Middlesex, Morris and Sussex counties. First seen on 6/29 (1) MOR:Black River WMA [JZ]. Max found on 7/2 (2) MOR:Great Swamp NWR [JS, et al.]. Last sighting on 7/24 (1) MID:Monroe Twp [JS].

**Black Dash** Steady numbers for the past 5 years. First encountered 6/21 (1) SUS:Stillwater [SW, WW]. High number on 7/9 (30) SUS:Andover [JS, et al.]. Last found on 8/4 (1) SUS:Walpack [FW].

**Dun Skipper** Widespread reports with pretty good numbers. Initial sighting was on 5/25 (2) SUS:ATL [VC] (tying the all-time early date but very unusual since this was 11 days before this widely reported species began appearing elsewhere in northern NJ). High counts on 7/18 (23) SUS:Camp Olympia [FW], 7/21 (30) SUS:High Point SP [SW, WW], and 7/26 (39) SUS:Blue Mt Lakes and Crater Lake Rds [SW, WW]. Final sighting on 9/14 (1) MOR:Bamboo Brook [JB, MB].

**Dusted Skipper** A nice set of sightings from eight sites from Monmouth County to Sussex County. First sightings on 5/21 (2) MID:Mount Mills [CW, JS, PW] and 5/21 (1) MOR:Mountainside Pk [CM]. High count on 5/26 (6) MOR:Mountainside Pk [CM]. Last found on 7/1 (1) SUS:Swartswood SP [JB], a new late date. While no photograph was taken careful notes were made in the field supporting the observation since the observer recognized the significance of the sighting.

**Pepper and Salt Skipper** Only two reports from the two reliable colonies in the state: 5/24 (3) HUN:Bethlehem Twp [JS] and 6/3 (18) SUS:High Point SP [SW, WW].

**Common Roadside-Skipper** Only one report on 5/27 (3) WAR:Raccoon Ridge [JS].

**Ocola Skipper** Overall a pretty good year with three sightings of this rare late summer immigrant: 8/3 (1) SUS:Walkill NWR [JG], 9/1 (1) PAS:Rifle Camp Pk [VC], and 9/1 (1) SUS:Fredon Twp [SW, WW].

#### **Sightings Contributors:**

Many thanks to all the people who contributed sightings that went into the 2011 Pearly-Eye.

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#### **Other citations;**

Great Swamp 4<sup>th</sup> of July Count [GS4JC], Greenbrook Sanctuary 4<sup>th</sup> of July Count [GR4JC], Mercer 4<sup>th</sup> of July Count [MR4JC], NABA North Jersey Butterfly Club field trip [NABA], Raritan Canal 4<sup>th</sup> of July Count [RC4JC], Sandy Hook 4<sup>th</sup> of July Count [SH4JC], Springdale 4<sup>th</sup> of July Count [SP4JC], Wallkill River 4<sup>th</sup> of July Count [WR4JC].

#### **Abbreviations:**

ATL = Appalachian Trail Lands, BER = Bergen County, DWGRA = Delaware Water Gap Recreation Area, ESS = Essex County, HUD = Hudson County, HUN = Hunterdon County, KVSP = Kittatinny Valley State Park, MER = Mercer County, MID = Middlesex County, MON = Monmouth County, Mt = Mountain, MOR = Morris County, NA = Natural Area, NWR = National Wildlife Refuge, ORG = Orange County, PAS = Passaic County, Pk = Park, Rd = Road, SOM = Somerset County, SP = State Park, SUS = Sussex County, Twp = Township, UNI = Union County, WAR = Warren County, WMA = Wildlife Management Area.

The Pearly-Eye 2011 is a publication of the NABA North Jersey Butterfly Club, a chapter of the North American Butterfly Association (NABA). It is intended to highlight the activities of the Club and to provide an overview of the status of butterflies in northern New Jersey this season (from Mercer and Monmouth counties north). This issue was compiled and edited by Jim Springer. Many thanks to Eileen Mahler who helped format and transcribe many of the sightings. Next year's (2012) butterfly sightings should continue to be sent to Jim Springer ([springer@naba.org](mailto:springer@naba.org)).

The Club meets on the first Tuesday of the month (except in July when there is usually no regular meeting) at 7:30pm in the Haggerty Education Center of the Frelinghuysen Arboretum, 53 East Hanover Avenue, Morristown, NJ. A list of field trips, directions to meetings, and other useful information can be found on the chapter's website at <http://www.naba.org/chapters/nabanj/>

The officers for 2011 were:  
President, Charlie Mayhood  
Vice-President, Wade Wander  
Treasurer, Deedee Burnside  
Secretary, Alice Koster

Membership in the NABA North Jersey Butterfly Club is included with annual membership in the North American Butterfly Association. To join send \$30 (\$40 family) to NABA Membership Services, 4 Delaware Road, Morristown, NJ 07960 or go to <http://www.naba.org> for further information and to join online.

	GS4JC (7/2)	SH4JC (7/7)	SP4JC (7/9)	MR4JC (7/10)	GR4JC (7/16)	WR4JC (7/16)	RC4JC (7/24)
Pipevine Swallowtail				1	4		1
Black Swallowtail	5	16	21	56		68	24
Giant Swallowtail						1	
Eastern Tiger Swallowtail	6	7	21	51	2	15	78
Spicebush Swallowtail	3	9	31	9		21	40
Cabbage White	247	159	168	2988	22	102	624
Clouded Sulphur	24	6	38	9		28	18
Orange Sulphur	152	145	118	75		80	75
Harvester		1					
American Copper	18	11	25			1	
Coral Hairstreak		13					
Edwards' Hairstreak			2				
Banded Hairstreak	24		38		1		1
Hickory Hairstreak	1						
Striped Hairstreak	9			1	1		
Juniper Hairstreak		20		35		6	9
White M Hairstreak		1	1				
Gray Hairstreak	4	4		6		2	6
Red-banded Hairstreak							8
Eastern Tailed-Blue	92	40	44	59		15	77
Summer' Spring Azure	33	16	45	30	3	17	10
Northern Metalmark			40				
American Snout		24	3				
Variegated Fritillary	4	3	3	6		1	2
Great Spangled Fritillary	85	1	304	35		28	16
Meadow Fritillary						1	
Pearl Crescent	97	44	183	345		374	101
Baltimore Checkerspot			4				
Question Mark	4	6	30	5	1	11	
Eastern Comma	3		17	4	1	4	
Mourning Cloak	1		1				
American Lady	3	3	13	6		1	1
Painted Lady	2						
Red Admiral	13		15	5	1	17	1
Common Buckeye	6	35	10	37		11	40
Red-spotted Admiral	1	1	5	5	1	5	2
Viceroy	2		2	7		13	1
Hackberry Emperor		9	1				
Tawny Emperor		1	1				
Northern Pearly-eye	12		22				
Eyed Brown						2	
Appalachian Brown	35		42	6		6	
Little Wood-Satyr	260	13	47	14	5	6	7
Common Wood-Nymph	286	3	219	206		135	23
Monarch	25	33	132	42		74	49
Silver-spotted Skipper	58	40	330	33	4	12	31
Hoary Edge			5				
Northern Cloudywing		1		2			
Horace's Duskywing	2	1		12			10
Wild Indigo Duskywing	13	3	9	28		11	21
Common Checkered-Skipper				35			4
Common Sootywing				1		1	
Swarthy Skipper							1
Least Skipper	66		9	10		3	46
Peck's Skipper	4	1		3			73
Tawny-edged Skipper	1		4				29
Crossline Skipper			6				1
Northern Broken-Dash	106	4	98	21		5	1
Little Glassywing	115	6	220	1		3	
Sachem		1		3			4
Delaware Skipper	15		84			6	
Mulberry Wing	4	1	27			3	1
Zabulon Skipper	2						8
Broad-winged Skipper			4			1	2
Dion Skipper	2		7				4
Black Dash	36		85			3	3
Dun Skipper	53		185	4	3	7	
Total Species	44	36	46	38	13	39	40
Total Individuals	1934	682	2719	4196	49	1100	1453