



THE PEARLY-EYE 2006

Field Reports of the NABA North Jersey Butterfly Club

Volume 6
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Overview of the 2006 North Jersey Butterfly Season

by Tom Halliwell

Butterfly reports increased a bit this season compared to 2005, providing somewhat better coverage over the northern New Jersey region (Mercer and Monmouth counties & north.)

The winter of 2005-06 produced temperatures well above normal, perhaps allowing a few species to overwinter that normally do not (e.g., Common Checkered-Skipper.) Early spring weather was superb through the first third of May with little rain and many warm, sunny days, enabling several early species to emerge very early. From mid-May to early July, however, conditions were mostly cool and wet, putting a "damper" on much butterfly and butterfly activity. Mid-July to mid-August reversed course again, becoming hot and dry – often too hot for butterflying! Late August saw 4-5 consecutive days of rain which dramatically diminished the big numbers previously on the wing. Remarkably mild weather persisting into 2007 allowed some species to remain on the wing much longer than usual; several set latest-ever dates.

The mega-highlight reel for 2006 included: Zebra Swallowtail, Giant Swallowtail, and Silvery Checkerspot. Unfortunately, each was seen for one day only. On the downside it must be noted that no Frosted Elfin, Acadian Hairstreaks, or Arctic Skippers were found despite searching. It is possible that they have joined Harris' Checkerspot and Bronze Copper as "former residents" of northern New Jersey

Most of the southern immigrants that add such interest to the butterfly year were seen this season. The Monarch flight was simply fantastic and gets my vote as the story of the season. Common Checkered-Skippers almost certainly supplemented the usual immigrants with three broods of "home grown" residents following the mild winter. Cloudless Sulphurs, Variegated Fritillaries, Common Buckeyes, Fiery Skippers, and Sachems all arrived in pretty good numbers. While they were mostly found southward and coastward, some flew well inland and northward. On the other hand, only ten American Snouts, eight Painted Ladies, four Ocala Skippers, and three Little Yellows were reported. And Long-tailed Skipper was a complete no-show.

An exceptional six swallowtail species graced the region in 2006. The regulars were in good numbers and the aforementioned Giant and Zebra were surprises. Pipevine was rare away from the Palisades, but one unaccountably showed up freshly dead in Sussex County in early November!

Sandy Hook's Checkered Whites were reported more than

ever and Falcate Orangetips flew widely, though locally. Both Clouded and Orange Sulphurs had very poor years; Clouded, especially, was seen in terribly low numbers. Harvester was noted at two sites including a new one on the D & R Canal. Bog Copper checked in at just one locale.

Other than Acadian Hairstreak and Frosted Elfin, which could not be found at all, most hairstreaks had another fine year. Crater Lake Road was outstanding; e.g., two observers found 5 Edwards', 224 Banded, 3 Hickory, 14 Striped, 1 Oak, and 2 Grays on an early July day! One almost thought there were as many hairstreaks as Gypsy Moths (if only!) Oak Hairstreak was found at two other sites, and White M had a fabulous year with at least 14 locations reporting. Most *Callophrys* species seemed well represented. Especially noteworthy was a new population of Henry's Elfin at Allaire State Park. Appalachian Azure was again poorly reported.

Great Spangled and Aphrodite fritillaries checked in with typical numbers (lots of the former, few of the latter), but Meadow Fritillary sightings and counts were low. The recently-found Sussex County colonies of Silver-bordered Fritillary were not seen in 2006, but joining the reliable Middlesex sites was a new one in Monmouth County. Baltimore Checkerspots and Pearl Crescents continued to produce high numbers, and the report of a Silvery Checkerspot raises hopes that a reliable colony can be found.

Question Marks bounced back this year and Mourning Cloaks had a superb season. But it was a downer for Milbert's Tortoiseshell, American Lady, Painted Lady, and Red Admiral. Red-spotted Purple, Viceroy, both emperors, and all the satyrs seemed to have average-to-good seasons.

The spread-winged skippers were generally well reported. Southern Cloudywing was found at two Sussex County sites in addition to the more expected Monmouth County ones. Juvenal's Duskywing rebounded nicely from several consecutive below-par years. Hopefully someone will find an Arctic Skipper in 2007. This delightful sprite would be a shame to lose.

All the regular resident grass skippers were observed, but this was not a good grass skipper year. Numbers, as well as reports, were down. Common skippers found in relatively poor numbers were: Peck's, Northern Broken Dash, Little Glassywing, Mulberry Wing, Hobomok, Black Dash, and Dun.

Continued on p. 2 (Overview)

NABA NORTH JERSEY

BUTTERFLY CLUB

2006 PROGRAM OF MEETINGS

Jan 10- "Butterflies of Eastern Turkey"
by Ahmet Baytas

Feb 7- "Migration of the Monarchs"
by Patti Pfeifer

Mar 7- "Butterflies & Flowers of Anza
Borrego" by Sharon Wander

Apr 4- "A Backyard for Butterflies"
by Michael Pollock

May 2- "Miraculous Transformations"
by Patti Murray

Jun 6- "Butterflies in Trinidad & Tobago"
by Jim Springer

Aug 1- "NJ Skippers of Summer"
by Chris Williams

Sep 5- "What Butterfly is That?"
by Tom Halliwell

Oct 3- "The Myriad Defenses of Cater-
pillars" by David Wagner

Nov 14- Member's Night

Dec 5- "Butterflies of Wyoming"
by Jeff Glassberg

2006 FIELD TRIPS

Apr 29- Sandy Hook, MON: 11 species,
26 people. Tom Halliwell

May 7- West Rock Pk, CT: 13 species,
10 people. Sharon & Wade Wander

May 13- Wildcat Ridge, MOR: 13
species, 10 people. Chris Williams

May 20- Raccoon Ridge, WAR: 14
species, 4 people. Jim Springer

Jun 18- Skylands Manor, PAS: 20
species, 9 people. Tom Halliwell

Jul 4- Picnic, etc, MOR & SUS: 27
species, 22 people. Tom Halliwell,
Jim Springer, & Chris Williams

Jul 23- Karen Nash Garden, WAR: 14
species, 33 people. Tom Halliwell

Jul 29- Crater Lake Rd, etc, SUS: 34
species, 15 people. Wade & Sharon
Wander

Aug 12- Willowood, MOR: 22 species,
22 people. Tom Halliwell

Aug 19- Chester, MOR: 23 species, 25
people. Jim Springer

Sep 11 & 12- Cape May County: 33
species, 19 people. Joe Burgiel

Overview (cont' from p. 1)

Species noted less frequently than usual were: Leonard's, Cobweb, Indian, and Long Dash. On the other hand, Zabulon and Broad-winged seemed well reported, Pepper and Salt Skipper persevered in Hunterdon and Sussex counties, and Common Roadside-Skipper was again found at Raccoon Ridge, our only accessible location (at least for hardy hikers).

As always, many thanks to all who took the time to contribute to this report. Enjoy the accounts which follow.

Annotated List of Northern New Jersey Butterflies for 2006 compiled by Tom Halliwell

Pipevine Swallowtail Initially seen 5/18 (50+) Palisades, BER [VC]. Only five sightings noted away from the Palisades stronghold: 5/28 (1) Culver's Lake, SUS [FW]; 5/30 (1) & 7/4 (2) Vernon Twp, SUS [VC]; 10/7 (2) Belleville, ESS [VC]. Top count at Palisades (65) 7/13 [JL, CM]. Final observation an inexplicable, recently dead individual at Frankford Twp., SUS 11/9 [DT], recorded by nearly two weeks!

Zebra Swallowtail A nice surprise was the worn individual found at Thompson Pk, MON on 9/26 [VC]. We seem to get a report of this rare vagrant about every 2-3 years.

Black Swallowtail Widely reported in decent numbers, though not up to the 2004 outbreak year. First discovered 4/18 (1) Crater Lake Rd, SUS [JB, MB]. Double-digit counts lacking until summer: (54) 7/9 WRNWR, SUS [WR4JC]; (35+) 7/6 Big Brook Pk, MON [VC]; (33) 7/15 Hobler Pk, SOM [R4JC]. Last sighting 10/19 (1) Thompson Pk, MON [VC], a new late date.

Giant Swallowtail This superb vagrant was welcomed & photographed at a Phillipsburg, WAR backyard garden on 8/11 [PB, EB]. It is the first in northern NJ since 2000.

Eastern Tiger Swallowtail Noted first 4/2 (1) East Brunswick, MID [DM], a new early date. Spring peaks: (30+) 6/9 Thompson Pk, MON [VC]; (25) 5/18 Tewksbury Twp, HUN [WW, SW]. Summer peaks higher: (126) 8/8 Schooley's Mt Pk, MOR [VC]; (100+) 8/12 Willowood, MOR [TH]; (84) 7/30 Duke Gardens, SOM [DG4JC]. Observed last 10/10 (1) Stillwater Twp, SUS [ABa].

Canadian Tiger Swallowtail None reported since the 2001 first state record.

Spicebush Swallowtail Widely reported in good numbers. First sighting 4/25 (2) White Lake, WAR [MB, JB]. Top spring count (15) 5/28 Allaire SP, MON [JM, JS]. As usual, summer numbers higher: (49) 6/21 Allaire SP [JM, KK, LM]; (38) 8/8 Schooley's Mt Pk, MOR [VC]. Last seen 10/12 (1) Culver's Lake, SUS [FW].

Checkered White Sandy Hook has become rather reliable for this species in recent years. At least ten sightings were made here between 7/23 (1) [SB] and 10/19 (1) [KK], with the top count (5) 9/17 [VC].

Cabbage White Found first 3/13 (1) Somerset, SOM [PW]. Highest counts: (1534) 7/30 Duke Gardens, SOM [DG4JC]; (700) 7/15 Montgomery Twp, SOM [R4JC]; (500+) 7/8 Frankford Twp, SUS [S4JC]. Not reported after 11/30 (1) Garret Mt, PAS [PB], tying late date.

Falcate Orangetip Locally reported from Sussex, Passaic, Warren, Morris, Hunterdon, and Monmouth counties. Initially found 4/12 (1) Allaire SP, MON [JM]. Peak counts: (20) 4/15 Mountain-side Pk, MOR [JS, AB]; (13) 4/21 Waterloo, SUS [JB]. Last seen 5/24 (4) Sunrise Mt, SUS [TH].

Clouded Sulphur Remarkably poor numbers reported. First seen 3/31 (1) GSNWR, MOR [HB]. Only five double-digit counts: (26) 10/3 Vernon Twp, SUS

The Pearly-Eye 2006 is a publication of the NABA North Jersey Butterfly Club, a chapter of the North American Butterfly Association, Inc (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 in 2006 (from Mercer and Monmouth counties north). Editor- Tom Halliwell, (19 Kings Road, Netcong, NJ 07857)

The Club meets on the first Tuesday of the month (except in July when there is usually no regular meeting) at 7:30 p.m. in the Hagerly 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> (click on chapters). The officers for 2007 are:

President: Michael Pollock
(jmpollock1@aol.com)
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Treasurer: Deedee Burnside
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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.

[VC]; (21) 6/19 Allaire SP, MON [JM]; (13) 9/27 KVSP, SUS [JB]; (12) 7/9 WRNWR, SUS [WR4JC]; (11) 7/30 Duke Gardens, SOM [DG4JC]. Last seen 11/22 (2) Somerset, SOM [PW].

Orange Sulphur Found more easily than Clouded, but certainly not as common as usual. First observed 4/1 (1) Lenape Pk, UNI [HB]. Best spring tally (30) 5/18 Mt Olive Twp, MOR [JB]. Summer maxima: (213) 7/1 Troy Meadows, MOR [GS4JC]; (136) 7/30 Duke Gardens SOM [DG4JC]; (65) 7/9 WRNWR, SUS [WR4JC]. Seen last at three locations on a warm 12/16.

Cloudless Sulphur A moderate invasion was presaged by early reports: 5/28 (1) Vernon Twp, SUS [CW] & 6/11 (1) Edison Twp, MID [PW, CW]. No further observations until 7/23 (1) Sandy Hook, MON [SB], after which a gradual build-up ensued, especially at the Hook. Peak count there (25+) 9/17 [VC]. Sightings scattered over inland areas as well, even far northwest. Final sighting 11/1 (1) Montclair, ESS [FP].

Little Yellow Three reports of singletons from Sandy Hook, MON: 8/10 [KK], 8/17 [KK], and 9/24 [PW, CW]. This visitor has really been quite rare in northern NJ in recent years.

Harvester Two reports. One noted at the species' "stronghold" SHS, SOM, 7/11 (1) [PW, LH]. A record-late second sighting was unexpected along the D & R Canal, Somerset, SOM 9/17 (1) [PW].

American Copper Excellent numbers reported from Monmouth County; unremarkable elsewhere. First found 4/15 (1) Sandy Hook, MON [JK], where the top spring count was tallied 4/29 (30) [NABA]. Summer counts led by a superb (455) 6/21 Allaire SP, MON [LM, KK, JM]. Other high numbers: (83) 6/28 Sandy Hook [SH4JC]; (45) 7/6 Flatbrookville, SUS [TH]. Last reported 10/13 (1) Chester, MOR [JH].

Bronze Copper Still not recorded since 1996.

Bog Copper Just one sighting again this year: 6/25 (5) Helmetta, MID [CW, PW]. Other known sites were apparently not checked.

Coral Hairstreak Noted in small numbers from Monmouth, Mercer, Morris, & Sussex counties. The SH4JC on 6/28 provided the first as well as the peak report (21). No other tally reached double-figures. Last found 7/10 (1) Vernon Twp, SUS [DA].

Acadian Hairstreak Not seen in 2006 despite a few visits to the "traditional" Sparta, SUS site. Potentially another lost species.

Edwards' Hairstreak Found at five sites in Bergen and Sussex counties. Record-tying first sighting 6/15 (2) Palisades, BER [VC]. Top count (5) 7/7 Crater Lake Rd, SUS [MB, JB], also the site of the final report 7/16 (1) [JB].

Banded Hairstreak Very widely reported in excellent numbers for the third year in a row. Encountered first 6/11 (4) Edison Twp, MID [PW, CW]. High counts: (270) 7/7 Crater Lake Rd, SUS [JB, MB]; (85) 7/1 Troy Meadows, MOR [GS4JC]; (80+) 6/28 Blairstown Twp, WAR [MB, DBr, et al.]; (62) 7/15 High Point SP, SUS [MB, JB]; (60) 7/6 Flatbrookville, SUS [TH]. Last observed 7/31 (1) Fredon Twp, SUS [WW, SW].

Hickory Hairstreak Found at 10+ sites in Sussex, Morris, Warren, and Monmouth counties. First seen 6/27 (2) PVT, SUS [TH] where the high count (9) was tallied on 7/4 [NABA]. Other good counts were: (7) 7/2 Whittingham WMA, SUS [JB, MB], and (7, the last report) 7/16 Crater Lake Rd, SUS [JK]. As in 2005, reported from the Coastal Plain at Allaire SP, MON (up to 4 from 6/30-7/2) [JM].

Striped Hairstreak A big year; more widespread and more numerous than usual. Discovered 6/17 (1) Edison Twp, MID [CW, PW]. Crater Lake Rd, SUS took high count honors with a huge (22) 7/8 on the S4JC. Good counts also came from High Point SP, SUS (9) 7/15 [JB, MB]; Blairstown Twp, WAR (7) 6/28 [JB, DBr, et al.]; and Allaire SP, MON (5) 7/2 [A4JC]. Last found 7/16 (5) Crater Lake Rd [JK].

Oak Hairstreak Three sightings in the northwest made for an excellent season: 6/28 (2) Blairstown Twp, WAR [TH, DBr, et al.]; 7/1 (1) Randolph Twp, MOR [GS4JC]; and 7/7 (1) Crater Lake Rd, SUS [MB, JB].

Brown Elfin Found at nine locations, mostly on the Kittatinny Ridge of Sussex and Warren counties. Initially seen 4/18 (4) Millbrook Gap, WAR [JB, MB] and 4/18 (20) Crater Lake Rd, SUS [MB, JB]. The latter, a superb count, was top for 2006. The (14) 5/1 Millbrook Gap [TH, AB] was also a notable for northern NJ. A big surprise was the individual found 4/25 along the D & R Canal in Somerset, SOM [PM]. Last noted 5/29 (3) Mecca Gap, SUS [JS, JB, TH].

Frosted Elfin No sightings this year from the

Assunpink WMA, MON colony, our only known northern NJ site. There has now been just a single sighting over the past three years. It may now be time to call this a "former colony".

Henry's Elfin Excellent news was this species' confirmation at Allaire SP, MON, thus joining Sandy Hook, MON as our only known public venues. Seen first 4/11 (1) Allaire SP [JM]. Top count, (a stunning 93) Sandy Hook 4/19 [KK]. Final encounter 5/5 (4) Allaire SP [JM].

Eastern Pine Elfin Reported from just three locations in Sussex and Monmouth counties this year. First seen 4/19 (1) Flatbrookville, SUS [TH] where also noted 4/28 (1) [TH]. Allaire SP, MON produced sightings 4/25 (1) [LM], 4/30 (1) [BO], and 5/5 (3+) [JM]. A 5/5 (1) sighting at Culver's Gap, SUS [PG] tied Allaire for the latest.

Juniper Hairstreak More widely reported this year from Mercer, Morris, Monmouth, Somerset, Warren, and Sussex counties. First brood noted from 4/15 (5) Sandy Hook, MON [LK, KK] to 5/17 (1) KVSP, SUS [TH], with a peak of (15+) at Sandy Hook 4/29 [NABA]. Summer flight began 7/3 (1) Somerset, SOM [PW, CW] where the top count of (31) was noted 7/25 [CW, PW]. Last encountered 8/12 (1) Fairview Farm, SOM [NABA].

White M Hairstreak Can it be called a population explosion? Reported from 14 sites in Sussex, Warren, Somerset, Morris, Passaic, & Monmouth counties! Normally there are just 2-4 sightings per year. First noted 5/7 (1) Hacklebarney SP, MOR [PP], one of three May reports. Most sightings were in summer, including peak counts of (5) 9/4 SHS, SOM [MP, TH], and (4) 7/8 Crater Lake Rd, SUS [S4JC]. Last found 10/9 (1) Thompson Pk, MON [VC], a new late date.

Gray Hairstreak Rather well reported from around the region in better-than-usual numbers. Initially seen 4/15 (1) Mountainside Pk, MOR [JS, AB]. Few additional sightings until early summer peak counts: (11) 7/1 GSNWR, MOR [GS4JC]; (10) 7/9 Baldpate Mt, MER [MC4JC]. Last observed 10/31 (1) Sandy Hook, MON [KK].

Red-banded Hairstreak Reported more widely and in higher numbers than 2005. Encountered first 5/7 (5) Assunpink WMA, MON [JS]. Top count a superb (46) 6/17 Edison Twp, MID [CW, PW, PM]. Next-highest tally (8) 8/9 Rifle Camp Pk, PAS [VC]. Last sighting, latest ever by a week, 11/9 (1) Howell Twp, MON [JM].

Eastern Tailed-Blue Good numbers across the region. Initial report 4/15 (3) Mountainside Pk, MOR [AB, JS]. Best spring tally (62) 4/30 Milford Bluffs, HUN [JS, PW, CW]. Summer highs: (100+) 7/6 Big Brook Pk, MON [VC]; (100+) 7/10 Thompson Pk, MON [VC]; (94) 7/2 Allaire SP, MON [A4JC]; (75) 7/1 Troy Meadows, MOR [GS4JC]. Last seen 10/19 (1) Stony Brook, MER [SM, FB].

Spring Azure complex Very widely reported in good numbers. First located 3/30 (3) KVSP, SUS [ABa], and 3/30 (1) GSNWR, MOR [CM]. Top counts: (50) 4/15 Ramapo Mt, PAS [AB, JS]; (40+) 3/31 GSNWR [HB]; (40+) 5/5 Deer Lake, WAR [TH, ABa]. Last observed 5/20 at both Assunpink WMA, MON (5) [BO], and Raccoon Ridge, WAR (1) [NABA].

"Summer Azure" First noted 6/9 (9) Thompson Pk, MON [VC]. Top numbers: (18) 6/28 Sandy Hook, MON [SH4JC]; (12) 6/17 Edison Twp, MID [PM, PW, CW]; (11) 7/9 Pole Farm, MER [MC4JC]. Final sighting 10/9 (1) at both KVSP, SUS [JB, MB] and Thompson Pk [VC].

Appalachian Azure Poorly reported in 2006. Initial sighting, however, set a new early date: 5/7 (4) Baldpate Mt, MER [CW, PW]. This report and 5/29 (4) Culver's Lake, SUS [FW] tied for highest count. Last sighting: 6/22 (1) Sunrise Mt, SUS [TH].

Northern Metalmark Not very well reported, but apparently not searched for too often this year. First sighting 7/2 White Lake, WAR [JB, MB], already of (25) individuals. White Lake also hosted the high count: (75) 7/8 [S4JC]. Other locations were: KVSP, SUS (20) 7/4 [NABA], and PVT, SUS (4) 7/4 [NABA]. Encountered last 7/13 (4) KVSP [TH].

American Snout Better than 2005, but hardly an invasion year. Ten reports of singletons came from Monmouth, Somerset, Warren, and Sussex counties. Unexpected was the first, found 4/17 at White Lake, WAR [TM], record early by a week and raising questions about possible overwintering in this mild winter. Next sighting not until 7/4 Vernon Twp, SUS [VC]. None found after 10/3 (1) White Lake [BMg].

Variegated Fritillary A widespread incursion produced sightings from most northern NJ counties. First discovered 5/28 (1) Laurence Harbor, MON [JG]. Top count an astounding (35+) 8/25 Big Brook Pk, MON [VC]. The (11) 9/3 Assunpink WMA, MON [CW, PW, et al.]

was also outstanding. Observed last 10/9 (1) Willowwood, MOR [TH].

Great Spangled Fritillary Very widespread including a few reports from the Coastal Plain, where unusual. Earliest ever was 5/30 (1) Vernon Twp, SUS [VC]. Best counts not very impressive: (55) 9/9 WRNWR, SUS [WR4JC]; (40) 7/3 Vernon Twp [JK, JB, MB]. Last seen 10/5 (1) SHS, SOM [MP].

Aphrodite Fritillary Five reports in northwest NJ is about average. First found 7/4 (1) Vernon Twp, SUS, where top count (2) noted 7/31 [VC]. Also seen 7/8 (1) Walpack [S4JC] & 7/29 (1) Flatbrookville, SUS [NABA]. Last encountered 8/3 (1) White Lake, WAR [TM].

Silver-bordered Fritillary Three sightings from two locations in Monmouth and Middlesex counties. Record early by a week was 5/7 (6) Mounts Mills, MID [JS], the site of a later brood 9/3 (1) [JS]. Exciting was the discovery of a new colony 7/4 (13) Monmouth Battlefield Pk, MON [JM]. No reports came from the recent Sussex County sites.

Meadow Fritillary Unimpressive numbers reported from Sussex, Warren, and Morris counties. Initial sighting 4/25 (7) Flatbrookville, SUS [JB, MB] where the year's top count of just (10) noted 4/28 [TH]. Second and third brood observations peaked at just (6) 7/29 Flatbrookville [NABA]. Latest sighting 10/9 (1) White Lake, WAR [MB, JB].

Silvery Checkerspot Of great interest is a northern NJ report of this species, probably for the first time in decades: 5/30 (1) Vernon Twp, SUS [VC]. Silvery Checkerspot has withdrawn from most of its northeastern US range, and without a photograph a sighting of this magnitude might best be considered tentative. If a population can be confirmed next season, it would be fantastic news indeed.

Harris' Checkerspot Once again among the missing. Last reported in 2003.

Pearl Crescent Good numbers across the region. Seen first 4/15 (1) Mountainside Pk, MOR [AB, JS]. Spring reports peaked at (50) 5/13 White Lake, WAR [HB, JB]. Second brood yielded highest numbers: (400) 7/15 Hobler Pk, SOM [R4JC]; (369) 7/9 Stony Brook, MER [MC4JC]; (309) 7/1 Troy Meadows, MOR [GS4JC]; (307) 7/9 WRNWR, SUS [WR4JC]. Last sighting 10/30 (1)

Neshanic Station, SOM [MP].

Northern Crescent No reports since 1996.

Baltimore Checkerspot Found in at least seven sites in Sussex County between 6/13 (1) Vernon Twp [VC] and 7/17 (1) Fredon Twp [SW, WW]. Peak tallies excellent: (90) Vernon Twp [JB, MB, JK]; (45) 7/8 Frankford Twp [S4JC]; (35) 7/9 WRNWR [WR4JC].

Question Mark Much more evident than in 2005. Initial observation 3/31 (1) Garret Mt, PAS [MP]. First dark "summer" form 5/5 (1) Somerset, SOM [PW]. Top counts: (8) 7/31 Vernon Twp, SUS [VC]; (6) 8/11 WRNWR, SUS [JH, AW]. First orange "winter" form 8/16 (1) Vernon Twp [VC]. Last encountered on the incredible, and record late, date of 1/6/07 (1) Fairview Farm, SOM [JK].

Eastern Comma Commonly and widely reported. First noted 3/10 (1) Stockholm, SUS [KW]. Somerset, SOM had the first dark form 5/1 (1) [PW]. Best counts: (20+) 6/22 Vernon Twp, SUS [VC]; (10) 8/11 WRNWR, SUS [AW, JH]. Orange form noted by 8/16 (1) Vernon Twp [VC]. Final sighting 11/6 (1) Vernon Twp. [VC].

Gray Comma No reports since 2004.

Compton Tortoiseshell Rather well reported in Passaic, Morris, and Sussex counties. Overwintering adults first noted 3/27 (1) at both Weis Ecology Center, PAS [fide KR] and Stillwater Twp, SUS [TS]. New brood first found 6/28 (1) Flatbrookville, SUS [JB]. Top counts soon after: (11) 6/29 Wildcat Ridge WMA, MOR [TH]; (9) 7/7 Crater Lake Rd, SUS [JB, MB]. Last sighting 11/3 (1) Fairview Lake, SUS [TS].

Mourning Cloak An excellent year with superb numbers. Found initially 3/9 (1) Somerset, SOM [PW]. Top count of winter survivors: (10) 4/26 Crater Lake Rd, SUS [FW]. Fresh brood noted by 6/10 (1) Rifle Camp Pk, PAS [VC]. Highest summer counts: (a spectacular 33) 7/7 Crater Lake Rd [MB, JB]; (11) 7/8 White Lake, WAR [S4JC]; (10) 7/6 Wildcat Ridge WMA, MOR [JB]. Two record-late December reports and a final one, 1/4/07 (1) Watchung Reservation, UNI [VC], were simply amazing.

Milbert's Tortoiseshell Only two reports, both on the 7/8 S4JC: (1) PVT, SUS, and (1) Walpack Twp, SUS. None were found at WRNWR, SUS this year. Hopefully our breeding populations of recent years were not just a temporary phenomenon.

American Lady If last year was "a very down year", 2006 was a very, very down one! While Monmouth County fared a bit better, in northwestern areas at least, the species was nearly absent for much of the season. First seen 4/10 (1) Sandy Hook, MON [SB]. Top counts: (18) 6/13 Allaire SP, MON [JM, KK]; (9) 7/6 Big Brook Pk, MON [VC]. Last seen 11/3 (1) Stokes Forest, SUS [TH].

Painted Lady An off year for this immigrant; only eight reports all season! The very-early first one, 4/13 (1) Culver's Lake, SUS [FW], was not matched until 6/28 (1) Blairstown Twp, WAR [TH, JB, et al.]. The others (all singletons) flew in Sussex, Monmouth, and Middlesex counties, with the last 10/31 (1) Sandy Hook, MON [KK].

Red Admiral At least as bad as last year! This year there were no double-figure counts, not even at WRNWR, SUS. First seen 4/10 (1) Sandy Hook, MON [SB]. Several locations reported the "high" tally of (5) at various times of the season. Latest individual: 10/15 (1) Flatbrookville, SUS [TH].

Common Buckeye This visitor had a much better year than in 2005. First noted 5/28 (1) Sandy Hook, MON [VC]. Numbers built through the summer toward peak counts: (40) 9/4 Sandy Hook [JS, CW, PW]; (25) 9/3 Assunpink WMA, MON [CW, MG, et al.]. Scattered individuals noted north to Sussex and Bergen counties. Latest ever by three weeks was one 12/16 Sandy Hook [RR].

"White Admiral" Once again just a single sighting: 7/25 (1) Sparta Twp, SUS [SW, WW].

"Red-spotted Purple" Reported widely, but in unspectacular numbers. Initially found 5/28 (1) at both Allaire SP, MON [JM, JS] and WRNWR, SUS [JB, MB]. Top first-brood count (10) 6/20 Crater Lake Rd, SUS [TH]. Second-brood peak: (17) 9/3 Assunpink WMA, MON [MG, PW, et al.]. Seen last 10/9 (1) Thompson Pk, MON [VC].

Viceroy First reported 5/28 (1) Vernon Twp, SUS [WW, SW], where highest spring count (11) reported 5/30 [VC]. Summer peak a big (17) 8/28 Thompson Pk, MON [VC]. No other locations hit double figures. Final sighting: 10/9 (1) at both KVSP, SUS [JB, MB] and Willowwood, MOR [TH].

Hackberry Emperor Widespread, but no big concentrations noted. First

brood flew between 6/13 (5) Vernon Twp, SUS [VC] and 7/20 (1) Schooley's Mt Pk, MOR [VC]. Second brood noted 8/6 (1) Whittingham WMA, SUS [SW, WW]. The year's peak tally only (7) 8/9 Rifle Camp Pk, PAS [VC]. Last seen 9/12 (2) Thompson Pk, MON [VC].

Tawny Emperor Well reported from Sussex, Warren, Morris, and Monmouth counties. Seen initially 6/23 (1) Sandy Hook, MON [KK]. Peak count a whopping (55) 7/8 Whittingham WMA, SUS [S4JC]. Next-highest: (9) 6/28 Sandy Hook [SH4JC]. Second brood noted by 8/11 (4) Vernon Twp, SUS [VC]. Last seen 9/11 (1) Sandy Hook [JM].

Northern Pearly-eye Widespread in Sussex, Warren, and Morris counties, but fewer than 2005. First seen 6/29 (1) Wildcat Ridge WMA, MOR [TH]. Top counts: (5) 6/30 Whittingham WMA, SUS [AB]; (5) 7/20 Schooley's Mt Pk, MOR [VC]. Final sighting 8/13 (2) Walpack, SUS [TH].

Eyed Brown Once again reported only from Vernon Twp, SUS. Found between 6/13 (3) [VC] and 7/31 (1) [VC], the latter latest-ever by a week. High count (35) 7/3 [JB, MB, JK].

Appalachian Brown Well reported across the region. First seen 6/6 (8) Montclair, ESS [AB]. Highest numbers: (12) 7/1 GSNWR, MOR [GS4JC]; (12) 7/8 Andover Twp, SUS [S4JC], (10) 7/1 Vernon Twp, SUS [KW]. Last observed 9/9 (2) Allaire SP, MON [JM].

Little Wood-Satyr First seen 5/17 (1) Fredon Twp, SUS [WW, SW]. Early-brood top counts: (75+) 5/31 Schooley's Mt Pk, MOR [VC]; (50) 5/27 WRNWR, SUS [JB, JS]. Second-brood peaks: (98) 7/2 Allaire SP, MON [A4JC]; (41) 7/1 Troy Meadows, MOR [GS4JC]. Final sighting 8/8 (1) Pole Farm, MER [FB].

Common Ringlet Seen in Sussex, Warren, Morris, and Passaic counties beginning 5/7 (1) Arctic Meadows Preserve, SUS [TH, FP, et al.], a new early date. Spring-brood peaks: (25+) 5/30 Vernon Twp, SUS [VC]; (20) 5/27-5/28 WRNWR, SUS [JS, JB, MB]. Last of first brood found 6/20 (3) Flatbrookville, SUS [TH]. Summer brood seen 7/24 (1) Sandyston Twp, SUS [SW, WW] to 8/14 (1) Sparta Twp, SUS [WW, SW], peaking at (10) 7/29 Crater Lake Rd, SUS [NABA].

Common Wood-Nymph Initial observation 6/21 (2) Allaire SP, MON [LM, KK, JM]. Highest numbers not overwhelming: (123) 7/9 WRNWR, SUS

[WR4JC]; (79) 7/2 Allaire SP [A4JC]; (56) 7/1 GSNWR, MOR [GS4JC]; (55) 7/9 Pole Farm, MER [MC4JC]. None reported after 9/12 (2) Stony Brook, MER [SM].

Monarch A remarkably impressive year for a species that appeared in real trouble just two years ago! Hinting at what was to follow, the season kicked off with a record-early (1) 4/15 Sandy Hook, MON [SB]. First double-digit tally not until 6/13 (19) Allaire SP, MON [JM, KK], but by early July such counts were routine throughout northern NJ. Breeding season highs: (148) 7/9 WRNWR, SUS [WR4JC]; (80) 7/30 Duke Gardens, SOM [DG4JC]; (75) 7/31 Vernon Twp, SUS [VC]; (66) 7/2 Allaire SP, MON [A4JC]. Contrast those with 2004's top count of 14 (even including migration). The 2006 migration was spectacular, with butterflies seemingly everywhere & every day. A huge (814) passed Raccoon Ridge, WAR on 9/10 [BH]. But the massive flight day must have been 9/28: (1000+) along the Garden State Pkwy for a few miles near the MID/MON boundary [VC]; (700+) Montclair, ESS [KW]; (500 in one hour) East Brunswick, MID [DM]. Last noted 11/17 (1) Byram Twp, SUS [AWK].

Queen No sightings this year. Last found in 2003.

Silver-spotted Skipper First seen 4/29 (1) Sandy Hook, MON [NABA]. Spring peak (10) 5/20 Assunpink WMA, MON [BO]. Higher numbers in summer: (61) 7/2 Allaire SP, MON [A4JC]; (50+) 8/8 Willowwood, MOR [TH]. Final report: 9/21 (1) Willowwood [TH].

Long-tailed Skipper No reports of this rarity in 2006. Seen as recently as last year.

Hoary Edge Reported from Sussex, Warren, Passaic, Morris, Middlesex, and Monmouth counties. Initially seen 5/24 (2) Wildcat Ridge WMA, MOR [CB]. Top count also at Wildcat: (4) 7/6 [JB]. Last sighting 7/10 (1) Culver's Lake, SUS [FW].

Southern Cloudywing Four sites reported in Monmouth and Sussex counties. First brood noted from 6/19 (1) KVSP, SUS [TH] to 7/6 (5) Flatbrookville, SUS [TH]. Peak: (29) 6/21 Allaire SP, MON [JM, KK, LM]. Sole second-brood individuals found at Thompson Pk, MON 8/18 (1) & 8/31 (1) [both VC], the latter tying the latest-ever date.

Northern Cloudywing Well reported between 5/13 (2) Wildcat Ridge WMA, MOR [NABA] and 7/10 (1) Thompson Pk, MON [VC]. Only double-digit count: (13)

5/31 Wildcat Ridge WMA [TH].

Dreamy Duskywing Found in Morris, Monmouth, Middlesex, Somerset, and Sussex counties beginning 4/29 (2) Bridgewater Twp, SOM [JS]. Maximal count a whopping (50) 5/13 Wildcat Ridge WMA, MOR [NABA]. Other double-figure tallies were: (14) 5/18 Mt Olive Twp, MOR [JB], and (10) 5/7 Assunpink WMA, MON [JS]. Last noted 6/13 (1) Allaire SP, MON [KK, JM].

Sleepy Duskywing Eight reports from five sites in Hunterdon, Warren, and Sussex counties. Observed first 4/13 (2) Crater Lake Rd, SUS [TH], a new early date. Highest count (24) 4/30 Milford Bluffs, HUN [JS, CW, PW], the largest stable colony in northern NJ. A nice (8) were found along Crater Lake Rd 4/18 [MB, JB]. Last reported 5/20 (4) Raccoon Ridge, WAR [NABA].

Juvenal's Duskywing A superb year following several very lackluster seasons. Found between 4/12 (1) Walpack, SUS [TH] and 5/31 (12) Wildcat Ridge WMA, MOR [TH]. High counts excellent: (50+) 5/5 Deer Lake, WAR [TH, ABa]; (25) 5/1 Flatbrookville, SUS [AB, TH]; (23) 5/3 KVSP, SUS [TH].

Horace's Duskywing At least 15 sites reported across the region. Spring brood seen twice, both 5/28 (1): Vernon, SUS [SW, WW], and Allaire SP, MON [JS, JM]. Summer brood noted 7/1 at both GSNWR, MOR (8) [GS4JC] and Allaire SP (1) [JM, LM], the former the year's high count. Last encountered 10/10 (3) Hartshorne Woods, MON [KK], a new late date.

Wild Indigo Duskywing Initially found 4/15 (1) Foothill Pk, MOR [AB, JS]. Top spring count (14) 5/24 Mountainside Pk, MOR [AB]. Summer peaks much better: (99) 7/1 Troy Meadows, MOR [GS4JC]; (50) 7/9 Martin Tract, MER [MC4JC]. Final sighting 9/27 (1) Amwell Lake, HUN [SM].

Common Checkered-Skipper A superb year! Spring flight evident from 5/1 (1) Neshanic Station, SOM [MP] to 5/30 (1) Vernon Twp, SUS [VC], with a top count of (25+) 5/6 White Twp, WAR [TM]. A second brood flew from 6/28 (1) Sandy Hook, MON [SH4JC] to 8/5 (1) White Twp [TM]. Excellent summer numbers: (27) 7/9 Stony Brook, MER [SM]; (26) 7/10 Thompson Pk, MON [VC]. Fall flight first noted 8/16 (1) Vernon Twp [VC], with an excellent (41) topping the charts at Stony Brook 10/3 [FB, SM].

Last noted 10/30 (1) Stony Brook [SM].

Common Sootywing Reported from most northern NJ counties in small numbers. At least six sightings of the spring brood. First seen 5/6 (5) White Twp, WAR [TM], which turned out to be the high count. Summer brood found more often, but peak tallies only (4) 7/9 Duck Island, MER [MC4JC] and (4) 8/28 Sandy Hook, MON [JH]. Final observation 8/30 (1) Sandy Hook [JH].

Arctic Skipper No reports this year following just a single one in 2005. Have we lost the species' only NJ colony?

Swarthy Skipper Seen at 10+ sites in Monmouth, Somerset, Middlesex, Mercer, and Morris counties. First brood noted 6/9 (1) Thompson Pk, MON [VC] to 7/20 (2) Schooley's Mt Pk, MOR [VC], with a peak of (3) 6/21 Allaire SP, MON [KK, JM, LM]. Second brood found 8/11 Somerset, SOM [PW]. Top count by far: (100+) 8/25 Big Brook Pk, MON [VC]. Last sighted 9/8 (11) Big Brook Pk [VC].

Least Skipper First encountered 5/26 (1) Warren Twp, SOM [JS]. Top first-brood count quite underwhelming: (30) 7/1 GSNWR, MOR [GS4JC]. Summer brood more numerous: (150+) 8/11 WRNWR, SUS [AW, JH]; (75+) 8/16 Vernon Twp, SUS [VC]. Final report 10/19 (1) Thompson Pk, MON [VC], a new late date.

European Skipper Widely reported beginning 6/9 (12) Thompson Pk, MON [VC]. Top counts: (200+) 7/2 Green Twp, SUS [MB, JB]; (100+) 6/20 Flatbrookville, SUS [TH]. Last seen 7/14 (1) Crater Lake Rd, SUS [TH] tying the latest-ever date.

Fiery Skipper Another small flight of this immigrant, but seen more widely than 2005. First report 8/12 (1) Allaire SP, MON [JM]. Top counts just (3) 8/19 Stony Brook, MER [SM] and (3) 8/31 Thompson Pk, MON [VC]. Last seen 10/10 (2) Hartshorne Woods, MON [KK].

Leonard's Skipper Not as well reported as 2005. Seen only in Sussex and Monmouth counties between 8/20 (2) Fredon, SUS [WW, SW] and 9/6 (1) Fredon [SW, WW]. High count just (2).

Cobweb Skipper Just two reported; both from Mountainside Pk, MOR: 5/24 (4) [AB] and 6/1 (1) [JS, CW, PW].

Indian Skipper Poorly reported from just four locations in Morris and Sussex counties. Initially seen 5/24 (8) Mountainside Pk, MOR [AB]. Top count: (9) 5/31 Wildcat Ridge WMA, MOR [TH],

followed by (8), also 5/31, Schooley's Mt Pk, MOR [VC]. Last observed 6/21 (1) Crater Lake Rd, SUS [TH].

Peck's Skipper Widely reported but in quite poor numbers. Found first 5/7 (1) Baldwin Lake WMA, MER [CW, PW], tying the earliest date. Spring brood high an abysmal (6), noted a few times. Summer peaks lowest in years: (27) 8/16 Stony Brook, MER [SM]; (22) 8/9 Amwell Lake, HUN [SM]; (21) 8/1 Howell Twp, MON [JM]. Last sighting 10/3 (1) North Brunswick, MID [SL].

Tawny-edged Skipper Numbers down from 2005. First brood initially found 5/24 (1) at both Walpack, SUS [TH] and Wildcat Ridge WMA, MOR [CB]. Top spring count just (5), reported several times. Second brood seen by 7/11 (1) Somerset, SOM [PW]. Top counts: (100+) 8/25 Big Brook Pk, MON [VC]; (18) 7/30 Duke Gardens, SOM [DG4JC]. Observed last 9/9 (1) Willowwood, MOR [TH].

Crossline Skipper Found in Morris, Monmouth, Mercer, Middlesex, Sussex, & Somerset counties. First noted 6/17 (1) Warren Twp, SOM [JS]. One double-figure count, a nice (30) 7/29 Flatbrookville, SUS [NABA]. Timing of partial second brood uncertain, but seen at least to 9/9 (2) SHS, SOM [JS].

Long Dash Three reports from Sussex County: 6/13 (1) High Point SP [JS, AB]; 6/13 (5) Swartswood SP [AB, JS]; 6/17 (1) Whittingham WMA [TH].

Northern Broken-Dash A poor year for this common skipper. Initial sighting 6/13 (1) Allaire SP, MON [JM, KK]. Peak counts quite low: (34) 7/1 Troy Meadows, MOR [GS4JC]; (20) 7/9 Pole Farm, MER [MC4JC]. Main brood seen through 8/6 (1) Fredon, SUS [WW, SW]. Partial second brood: (2) 9/4 Big Brook Pk, MON [PW, CW, JS] and (1) 9/8-9/9 Willowwood, MOR [JS, JB].

Little Glassywing Reported widely, but not especially numerous. First seen 6/17 (3) Edison Twp, MID [CW, PW, et al.]. Highest numbers: (84) 7/2 Allaire SP, MON [A4JC]; (75) 7/1 Troy Meadows, MOR [GS4JC]; (55) 6/22 Cedar Ridge, MER [SM]. Last observation: 7/22 (1) KVSP, SUS [JB, MB].

Sachem A nice influx of this southern skipper in 2006, but, as usual, none northwest of the Piedmont. Initially found 6/28 (1) DeKorte Pk, BER [VC]. Peak tallies: (100+) 8/25 Big Brook Pk, MON [VC]; (50+) 9/17 New Brunswick,

MID [PM]; (45+) 8/31 Thompson Pk, MON [VC]; (40+) 7/30 DeKorte Pk [JL, CM, et al.]. Last seen 10/30 (1) Hartshorne Woods, MON [KK].

Arogos Skipper One report again this year: 7/4 (1) Kenvil, MOR [NABA].

Delaware Skipper Widely reported but not as numerous as in 2005. First found 6/28 at both DeKorte Pk, BER (2) [VC] and Flatbrookville, SUS (1) [JB]. Top count: (60) 7/8 Crater Lake Rd, SUS [S4JC]. No other count came at all close. Normal brood last sighted 7/29 (2) Flatbrookville [NABA]. Three subsequent August reports from Monmouth County echo the 2004 season: 8/12 (1) Allaire SP [JM]; 8/25 (2) Big Brook Pk [VC]; 8/31 (2) Thompson Pk [VC]. Are they a partial second brood, immigrants from farther south, or what?

Mulberry Wing Poorly reported from Middlesex, Sussex, & Morris counties. First seen 7/1 at GSNWR, MOR (1) & Troy Meadows, MOR (2) [both GS4JC]. Top counts: (15) 7/15 Pigeon Swamp, MID [R4JC]; (15, the last report) 7/27 High Point SP, SUS [TH]; and (11) 7/8 Andover Twp, SUS [S4JC].

Hobomok Skipper Widely reported, but in poor numbers. Found initially 5/7 (1) Baldpate Mt, MER [PW, CW] tying the earliest date. Peak count only (15+) 6/17 KVSP, SUS [TH]. Surprisingly, the last report was from Monmouth County: 7/6 (1) Big Brook Pk [VC].

Zabulon Skipper Reasonably well reported across northern NJ. Seen first 5/18 (2) Tewksbury Twp, HUN [SW, WW], and 5/18 (1) Palisades, BER [VC]. Best spring-brood count just (5) 5/30 Vernon Twp, SUS [VC]. Last of first brood 7/8 (2) Whittingham WMA, SUS [S4JC]. Summer brood noted between 7/25 (1) Sparta, SUS [WW, SW] and 9/26 (2) Thompson Pk, MON [VC]. As usual, second-brood top counts higher: (23) 8/16 Vernon Twp [VC]; (12) 8/16 Stony Brook, MER [SM]; (11) 8/6 Newton Meadows, SUS [SW, WW].

Broad-winged Skipper Discovered 6/28 at both Sandy Hook, MON (1) [SH4JC] and DeKorte Pk, BER (2) [VC], a new early date. Top tallies, as always, from the Hackensack Meadows: (100+) 7/30 DeKorte Pk [CM, JL, et al.]; (75+) 7/12 Secaucus, HUD [KW]. Away from the Meadowlands peak just (7) 7/15 Helmetta, MID [R4JC]. Last encountered 9/12 (1) Thompson Pk, MON [VC].

Dion Skipper Six locations reported

from Sussex, Morris, and Middlesex counties. First found 7/1 in MOR at GSNWR (5) & Troy Meadows (3) [both GS4JC]. The (5) at GSNWR constituted the peak count, but (4) were found 7/8 at Newton Meadows, SUS [S4JC]. Last reported 7/15 in MID at Helmetta (3) and Pigeon Swamp SP (3) [both R4JC].

Black Dash Reported sketchily from Sussex, Warren, Morris, Middlesex, and Monmouth counties. Initially found 7/1 (24) GSNWR, MOR [GS4JC], which was also the top count of the season. Other double-figure counts: (16) Pigeon Swamp, MID [R4JC]; (10) 7/27 High Point SP, SUS [TH]. Last reported 7/29 (1) Crater Lake Rd, SUS [NABA].

Dun Skipper Rather low numbers for a butterfly that is often very common. Seen between 6/11 (2) Edison Twp, MID [CW, PW] and 9/12 (2) Thompson Pk, MON [VC]. Peak counts: (19) 7/2 Allaire SP, MON [A4JC]; (16) 7/27 High Point SP, SUS [TH]; (16) 7/29 Flatbrookville, SUS [NABA]. Fresh mid-August and September Duns represent the less common partial second brood, more evident the farther south you go.

Dusted Skipper Seen at five locations in Sussex and Morris counties between 5/13 (1) Wildcat Ridge WMA, MOR [NABA] and 6/20 (1) Flatbrookville, SUS [TH]. Interestingly, the former is a new early date and the latter a new late date for the species. High counts: (7) 5/24 Wildcat Ridge WMA [CB]; (6) 5/24 Mountainside Pk, MOR [AB].

Monk Skipper No reports this year after the totally unexpected one in 2005.

Pepper and Salt Skipper Seen at both known northern NJ colonies in 2006: High Point SP, SUS 5/23 (2) & 5/24 (1) [JB, MB, TH]; and Union Twp, HUN 5/25 (8) [TM]. The latter population was discovered just last year, and it is gratifying to know it continues.

Common Roadside-Skipper The colony found last year at Raccoon Ridge, WAR was successfully revisited 5/20 this year. Four butterflies were found [NABA]. On the same date a very probable individual was observed at Allaire SP, MON [JM]. Hopefully next year will confirm a population there.

Ocola Skipper Four reports of this rare southern visitor: 8/21 (1) Metuchen, MID [AW]; 8/22 (1) Willowood, MOR [TH]; 8/31 Thompson Pk, MON [VC]; and 10/5 (1) Nutley, ESS [VC]. This is the fewest since 2001.

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Other citations:

NABA North Jersey Butterfly Club field trip (NABA), Allaire SP Fourth of July Count (A4JC), Duke Gardens Fourth of July Count (DG4JC), GSNWR Fourth of July Count (GS4JC), Mercer County Fourth of July Count (MC4JC), Raritan Fourth of July Count (R4JC), Sandy Hook Fourth of July Count (SH4JC), Springdale Fourth of July Count (S4JC), WRNWR Fourth of July Count (WR4JC)

Abbreviations: All locations mentioned include the first 3 letters of the county in capital letters unless that location has already been cited for that species. Other abbreviations: GSNWR = Great Swamp National Wildlife Refuge; KVSP = Kittatinny Valley SP; Mt = Mountain; Pk = Park; Palisades = Palisades Interstate Pk; PVT = Paulinskill Valley Trail @ Stillwater Road; Stony Brook = Stony Brook-Millstone Watershed Reserve; SP = State Pk; SHS = Scherman-Hoffman Sanctuary; Twp = Township; WMA = Wildlife Management Area; WRNWR = Walkill River National Wildlife Refuge; Willowood = Willowood Arboretum

4th of July Butterfly Counts - 2006

	SANDY HK. (6/28)	GT. SWAMP (7/1)	ALLAIRE SP (7/2)	SPRINGDALE (7/8)	MERCER CO. (7/9)	WALKILL (7/9)	RARITAN (7/15)	DUKE FARM (7/30)
Black Swallowtail		3	13	18	51	54	56	11
Eastern Tiger Swallowtail	1	16	6	43	56	27	127	84
Spicebush Swallowtail	1	8	19	25	7	10	7	1
Cabbage White	29	374	17	915	408	420	1620	1534
Clouded Sulphur	1	16	2	30	6	12	13	11
Orange Sulphur	36	253	21	93	56	65	67	136
American Copper	83	6	7	14				3
Coral Hairstreak	21	2	1	1	1			
Edwards' Hairstreak				5				
Banded Hairstreak		180	39	381	4	5		
Hickory Hairstreak		5	4	5		1		
Striped Hairstreak	1	2	5	25	1			
Oak Hairstreak		1						
Juniper Hairstreak					14		30	
White M Hairstreak				4				
Gray Hairstreak	9	19	9	3	43		12	1
Red-banded Hairstreak		1	1					19
Eastern Tailed-Blue	35	140	94	37	115	8	132	31
"Summer" Azure	18	24	6	8	19	1	6	
Northern Metalmark				87				
American Snout				1				
Variegated Fritillary				1			1	3
Great Spangled Fritillary		186		423	54	55	12	1
Aphrodite Fritillary				1				
Meadow Fritillary				2		4		
Pearl Crescent	6	540	158	501	938	307	544	14
Baltimore Checkerspot				73		35		
Question Mark	3	5	4	25	3	2	3	2
Eastern Comma		5	2	18	2	8	2	1
Compton Tortoiseshell				9				
Mourning Cloak		12		78	2	4	2	1
Milbert's Tortoiseshell				2				
American Lady	1	1	11	5			1	
Painted Lady			1				1	
Red Admiral		4	2	13	3	4	1	4
Common Buckeye	9		8		5		2	1
"Red-spotted Purple"				9	3		4	4
Viceroy				4	1	1	2	
Hackberry Emperor	2							
Tawny Emperor	9			61				
Northern Pearly-Eye		5		20				
Appalachian Brown		24		31	2	2	3	
Little Wood-Satyr	3	119	98	14	15	1		
Common Wood-Nymph		137	79	188	164	123	13	1
Monarch	1	42	66	305	104	148	87	80
Silver-spotted Skipper	10	92	61	219	43	16	19	8
Hoary Edge				3				
Southern Cloudywing			5					
Northern Cloudywing				1				
Horace's Duskywing		12	2		5	1	11	2
Wild Indigo Duskywing		101		14	117	2	67	
Common Checkered-Skipper	1			4	27		5	1
Common Sootywing		2			6	2	2	2
Swarthy Skipper	1		1		1			
Least Skipper		78	9	31	6	1	1	20
European Skipper		38		7		1		
Peck's Skipper		3	1				11	20
Tawny-edged Skipper		1	1	1	1		1	18
Crossline Skipper		2	2	9	5			
Northern Broken-Dash	2	113	4	39	39	7	11	
Little Glassywing		469	84	128	48	4	7	
Sachem					23		70	
Delaware Skipper		30	9	124	7	11		
Mulberry Wing		3		16		3	17	
Hobomok Skipper		3						
Zabulon Skipper		4		3				7
Broad-winged Skipper	1	4		4		4	7	
Dion Skipper		8		6		1	6	
Black Dash		39	3	37		1	17	
Dun Skipper		55	19	63	20	4	1	2
TOTAL SPECIES	24	47	38	57	40	37	41	30
TOTAL INDIVIDUALS	284	3187	874	4187	2425	1355	2979	2023