



THE PEARLY-EYE 2007

Field Reports of the NABA North Jersey Butterfly Club

Volume 7
March 2008

Pearly-Eye 2007

By Michael Gochfeld

Little did I imagine all the details that go into compiling a year's report of butterfly activity in central and northern New Jersey. I very much appreciate the sage advice, patience, and guidance provided by previous editor, Tom Halliwell, as well as the shared observations provided by so many NABA members, particularly J. Burgiel, V. Corsello, J. Springer, W. & S. Wander, and C. & P. Williams. Tom's summary of early/late dates was invaluable. I appreciate D. Burnside's and A. Koster's help in communicating with contributors, and J. Burger's patience. I expect it to be go more smoothly in 2008.

I have tried, insofar as possible, to follow the format and achieve the appearance that Tom started with the six previous editions of the *The Pearly-Eye*. I distinguish Central NJ (Monmouth, Mercer, Middlesex, and parts of Hunterdon and Somerset corresponding roughly to the coastal plain and the southern Piedmont) from Northern NJ. I look forward to a fruitful 2008 with bountiful butterflies. I also welcome any suggestions on content or format as well as any corrections to the 2007 record.

Overall 64 people submitted 5200+ records. Some people generously sent in each day's list (five contributors accounted for 70% of the records) while others sparingly provided a few highlights. The day lists

2007 Season

The 2006-2007 winter, like the preceding winter was mild, with a number of unseasonably warm days. Oct 2006 was not especially warm, while Dec 06 and early Jan 07, temperatures were well above average with a Mourning Cloak on Jan 4, and a Question Mark on Jan 6 (when temperature was >70F). A Sulphur sp was flying on Jan 12. Whereas late Jan was seasonable, early Feb was cold. March was quite cold and wet and Apr was 10 degrees below normal. May remained cool, and there were no 80F days until the end of the month. As a result few species set early records: Harvester, Common Checkered-Skipper, and Little Glasswing

Highlights of 2007 for our region are the two records of Bronze Copper (not seen since 1996), four records of Giant Swallowtail. Particular laments are the continued

make it possible to fill in more of the texture of occurrence for the common butterflies. The seasonality or phenology of butterflies is particularly interesting because of the variability in broods from place to place and year to year, and the suspicion that some of these broods (for example among the azures and satyrs), actually represent distinct species.

For 2008 it would be good for those people who keep day lists to provide me with copies. A monthly email (or a slip of paper handed in at a meeting) would be the best approach. These submissions will be assembled into an excel spreadsheet with a column for species, number seen, county, township, locality, observer, date and comments. Comments can include particular activities (nectaring, laying), freshness, why it may be an unusual record, or other information. I am hoping that the spreadsheet for each year can be posted on the NABA web site, making it widely available for future consultation.

I must emphasize the absolute dearth of 2007 records from Union (0), Hudson (1), and relative dearth from Hunterdon (37 records). **Readers who have 2007 records that weren't sent before, it's not too late. They can be added to the online data base for future reference and corrected in future issues.**

absence of Frosted Elfin, Acadian Hairstreak, and Arctic Skipper, all looked for in vain. The mild winter allowed C. Checkered-Skipper and probably Sachems to overwinter. New late records included: Striped Hairstreak, Little Wood Satyr, S. and N. Cloudywing, Swarthy and Dun Skippers. At the end of the year, late Nov-Dec 2007 were quite cold, with virtually no really late reports, unlike 2007. Very few species (Cabbage White, Orange Sulphur, Monarch, Sachem) even made it into Nov, and Dec 2007 had no "butterfly days".

There are about 110 butterfly species recorded recently from our region (north and central NJ) of which about 95 can be considered presently of regular (annual occurrence). Table 1 lists all of these butterflies with early and late and maximum counts for 2007. New early and late records (but not ties) are shaded.

TABLE 1. Number of reports and Earliest, Maximum, and Latest Records for Northern and Central New Jersey 2007
(compiled by M. Gochfeld)

Species	# reports	Earliest Date	Earliest Record	MAXIMUM Season Count	Latest Date	Latest Record
Pipeline Swallowtail	26	2-May	BER:Palisades [VC](3)	65+ BER:Alpine 5/30 [VC]	19-Oct	WAR:Frelinghuysen Twp [SW,WW](1)
Black Swallowtail	106	23-Apr	MON:Big Brook [VC](1)	56 on Raritan 4JC 7/22	16-Oct	MON:Marlboro [Big Brook][VC](1)
Giant Swallowtail	4	8-Jun	SUS:Vernon AT-Pochuck [VC]	Only singles	6-Sep	SUS:Paulinskill Lk
Eastern Tiger Swallowtail	220	24-Apr	BER:Meadowlands [CW](1)	150 MOR:Willowood 8/12 [TH], Raritan4JC 7/22	149 27-Sep	MON:Thompson Pk [VC](8)
Canadian Tiger Swallowtail	No NJ records in 2007. The only one state record was a road kill in 2001					
Spicebush Swallowtail	157	23-Apr	MON:Big Brook [VC](1)	35 SOM-MID:Raritan 4JC new high	8-Oct	MON:Thompson Pk [VC](1)
Checkered White	1	9-Aug	SUS:Hyper Humus [JB](1)	only one record		
Cabbage White	394	22-Mar	ESS:Belleville [VC](1)	2385 on Raritan 4JC 7/22 new high; 1000+ SUS:Newton Meadows 7/27 [TH]	21-Nov	MID:Piscataway [MG](1)
Falcate Orangetip	10	22-Apr	MON:Allaire [JS](4)	30-50 SUS:Flatbrookville [Odes & TH 5/20&5/24]	24-May	SUS:Flatbrookville [TH](30-50)
Clouded Sulphur	140	27-Mar	MON:Big Brook [VC](2)	92 Springdale 4JC 7/7		
Orange Sulphur	209	27-Mar	MON:Big Brook [VC](5)	89 Walkkill 4JC 7/8	23-Oct	SOM:Fairview Farm[TH]
Cloudless Sulphur	23	24-Jun	MON:Leonardo [VC](1)	221 on Great Swamp 4JC 6/30	25-Nov	SOM:Somerset [Levy](1)
Little Yellow	No records anywhere in NJ in 2007; there were 3 nNJ records in 2006					
Harvester	18	23-May	MOR:Brookside Pk [AK](1)	7 at Brookside 9/4 [JH], 6 at SOM:Somerset 8/24 [PW]	20-Oct	SOM:Scherman-Hoffman [LG](1)
American Copper	67	23-Apr	MON:Big Brook [VC](1)	257 MON:Sandy Hook 4JC 6/28 [KK]	8-Oct	MON:Thompson Park[VC](1)
Bronze Copper	2	23-Jun	SUS:Vernon AT [AB&NABA]	only singles	18-Aug	SUS:Flatbrookville [TH]
Bog Copper	No c or n NJ records in 2007					
Coral Hairstreak	13	16-Jun	MON:Allaire SP [JM](1)	16 on Sandy Hook 4JC [KK]	13-Jul	SUS:Sunrise Mtn [JB](3)
Acadian Hairstreak	No NJ records in 2007; last in 2005					
Edwards' Hairstreak	9	21-Jun	SUS:Sunrise Mtn [TH](1)	55 SUS:AT above Mecca Lk 6/24 [JS]	10-Jul	SUS:Crater Lk Rd [JB](2)
Banded Hairstreak	42	11-Jun	ESS:Bloomfield [VC](1)	213 Springdale 4JC 7/7	21-Jul	SOM:Duke Farms 4JC[MG](1)
Hickory Hairstreak	10	19-Jun	MON:Allaire [JM](1)	5 on Crater Lk Rd on 6/25 [JB,MB] and 7/10 [JB,MB]	13-Jul	SUS:Stillwater [TS](1)
Striped Hairstreak	15	19-Jun	MON:Allaire [JM](1)	15 on Springdale 4JC 7/7	24-Aug	MOR:Schooley Mtn [VC](1)
Oak Hairstreak	3	24-Jun	SUS:Bear Swamp WMA[JS](4)	4 at Bear Swamp WMA [JS] on 6/24	26-Jun	SUS:Crater Lk Rd [JB](1)
Brown Elfin	2	7-May	SUS:Stillwater [TS](1)	2 on 6/7 Crater Lake Rd.	7-Jun	SUS:Crater Lk Rd [JB,MB](2)
Frosted Elfin	No n NJ records in 2007; last in 2005					
Henry's Elfin	5	22-Apr	MON:Allaire SP [JS](3)	16 at Sandy Hook 4/24 [KK]	16-May	MON:Allaire SP [JM](7)
Eastern Pine Elfin	10	13-May	SUS:Flatbrookville[TH](1)	7 SUS:Flatbrookville [Odes]	8-Jun	SUS:DWGNRA [DB](1)
Olive Juniper Hairstreak	31	26-Apr	SUS:Walpack [Barlow](2)	17 SOM:Raritan4JC in Somerset	22-Jul	SUS:Walpack NABA [WW](1)
White M Hairstreak	12	15-May	SUS:Hardytown [KW](1)	10 on Springdale 4JC 7/7	24-Sep	MON:Thompson Pk [VC](1)
Gray Hairstreak	49	8-May	MON:Big Brook [VC](1)	8 at Big Brook Pk. 8/8 [VC]	16-Oct	MON:Big Brook Pk [VC](1)
Red-banded Hairstreak	59	16-May	MON:Allaire [JM](5)	34 PAS:West Paterson [VC]	30-Sep	SOM:Negri Nepote [PW](1)
Eastern Tailed -Blue	154	5-May	MON:Thompson Pk [VC](35)	308 SOM:Duke Farms 4JC	14-Oct	SOM:Somerset [PW,CW](1)
Spring Azure	35	30-Mar	SUS:Byram Twp [JB,MB](1)	28 MON:Allaire SP [JM]	28-Jun	MON:Sandy Hook[KK](2)
Summer Azure	81	3-Jun	SUS:Walpack [TH](2)	11 MOR:Great Swamp 4JC	8-Oct	MON:Thompson Pk [VC](1)
Appalachian Azure	3	25-May	MOR:Black River WMA[TH](3)	4 on 6/5 SUS:Frankford	5-Jun	SUS:Frankford Twp [FW](4)
Northern Metalmark	9	26-Jun	SUS:KVSP [TH](2)	51 on Springdale 4JC 7/7 incl 32 at White Lake [JB]	21-Jul	SUS:KVSP [TH](4)
American Snout	10	9-Jun	SUS:High Point [JB](1)	4 at MON: Sandy Hook	18-Sep	MON:Thompson Pk[VC](1)
Variegated Fritillary	32	3-Jun	SUS:Whittingham [JB](1)	10 MON:Colts Neck 8/11 [VC,JS]	21-Oct	WAR:White Lake [TH,JB](1)
Great Spangled Fritillary	125	1-Jun	SUS:White Lk [TH](1)	503 on Springdale 4JC 7/7	6-Oct	MOR:Willowood [JB](3)
Aphrodite	3	19-Jul	MOR:Schooley Mtn [VC](1)	singles only on three days	7-Aug	SUS:Vernon AT [VC](1)
Silver-bordered Fritillary	7	20-May	MID:Mounts Mills [JS](4)	7 at SUS:Vernon:Crater Rd 7/24 [TH]	9-Sep	MID:Mounts Mills [JS](10)
Meadow Fritillary	32	10-May	SUS:Vernon AT[TH](2)	c50 SUS:DWGNRA Van Ness [TS]	25-Sep	SUS:Vernon AT [VC](2)
Silvery Checkerspot	No records from NJ. A 2006 report was the first in a long time.					
Harris' Checkerspot	No NJ reports since 2003					
Pearl Crescent	184	5-May	MON:Thompson Pk [VC](2)	149 MER:Mercer 4JC 7/8	21-Oct	SOM:Negri Nepote [PW](1)
Northern Crescent	no recent records from NJ. Last in 1996					
Baltimore Checkerspot	20	adults 17-Jun	SUS:Vernon:Canal Rd Larvae only 5/23-5/28[VC,JS] adults 6/17[TH,JH](2)	154 Springdale 4JC 7/7 new high; 64+ SUS:Frankford 7/7 [TH]	14-Jul	MOR:Kay Environ Center [JB](1)
Question Mark	75	27-Mar	MON:Big Brook [VC](1)	12 Springdale 4JC 7/7	11-Oct	MON:Sandy Hook [TH](1)
Eastern Comma	90	14-Mar	BER:Waldwick Twp [DB] & SOM:Somerset [PM](1)	38 Springdale 4JC 7/7	21-Oct	WAR:White Lake[JB](2) SUS:Newton [TH](1)
Gray Comma	no reports since 2004.					
Compton Tortoiseshell	19	27-Mar	PAS:Weis Environ Cent.[Risdon](6)	12 on Springdale 4JC 7/7	8-Oct	SUS:Stillwater [TS](1)
Mourning Cloak	69	3-Mar	PAS:Garret Mt [PB,FP](1)	52 on Springdale 4JC 7/7	31-Oct	PAS:West Paterson [FP](1)
Milbert's Tortoiseshell	3	3-Jun	SUS:KVSP [JB](1)	Three sightings, all singles	7-Jul	Springdale 4JC(1)
American Lady	153	20-Apr	ESS:Montclair [AB](1)	216 Springdale 4JC 7/7, new high	22-Oct	MOR:Willowood [JB](1)
Painted Lady	13	22-May	MON:Big Brook [VC](1)	3 on Raritan 4JC 7/22	26-Sep	SOM:Duke Farms [PW](1)
Red Admiral	192	21-Apr	PAS:Garret Mt [Klizas](1)	316 on Springdale 4JC 7/7, new high	22-Oct	BER:DeKorte[LG](2) MOR:Wildcat Ridge [TH](1)
Common Buckeye	38	20-May	MON:Assunpink [JS](1)	10 MID:Mounts Mills [JS]	22-Oct	MOR:Willowood [JB](1)
Red-spotted Purple	70	25-May	MOR:Brookside [FK](1)	22 on Springdale 4JC 7/7	9-Oct	MON:Allaire SP [JM](1)
White Admiral	2	3-Jun	SUS:Walpack [TS](1)	both singletons	3-Jun	SUS:Montague [GT](1)
Viceroy	76	22-May	MON:Thompson Pk [VC](1)	10 SUS:Vernon AT [9/4, VC]	9-Oct	MOR:Willowood [TH](1)
Hackberry Emperor	35	3-Jun	SUS:Montague [Tudor](4)	20 at Montague 6/15 [TH]	19-Sep	MID:North Brunswick [SL](1)
Tawny Emperor	22	17-Jun	SUS:Whittingham [TH](1)	21 Springdale 4JC 7/7	14-Jul	SUS:Andover [JS](1)
Northern Pearly-Eye	27	18-Jun	SUS:Stillwater [TH](1)	15 on Springdale 4JC 7/7	14-Aug	PAS:West Paterson [VC](1)
Eyed Brown	6	24-Jun	SUS:Vernon NABA trip(100+)	100+ on 6/24 at Vernon [NABA]	12-Jul	SUS:Vernon AT [VC](9)
Appalachian Brown	40	7-Jun	SUS:KVSP [TH](1)	63 Springdale 4JC 7/7	9-Sep	MON:Allaire SP [JM](1)
Little Wood-Satyr	103	20-May	SUS:Flatbrookville [TH](1)	266 Great Swamp 4JC 6/30	6-Sep	SUS:KVSP [SW,WW](1)

Species	# reports	Earliest Date	Earliest Record	MAXIMUM Season Count	Lastest Date	Latest Record
Common Ringlet	45	20-May	SUS:Flatbrookville [TH](3)	59 SUS:Stillwater 5/29 [JB]	5-Sep	SUS:High Pt SP 9/5 [TH](2)
Common Wood-Nymph	88	19-Jun	MOR:Willowood [TH](3)	212 Sprngdale 4JC 7/7	9-Sep	MID:Mounts Mills [JS](1)
Monarch	275	24-Apr	MON:Sandy Hook [KK](1)	300-500/day KVSP in late sept [TH]	1-Nov	WAR:Raccoon Ridge[BH](1)
Queen	No NJ records since the unique 2001 record					
Silver-spotted Skipper	141	15-May	SOM:Duke Farms [PW](1)	76 Great Swamp 4JC 6/30		
Long-tailed Skipper	Last nNJ record in 2005. Fairly common in Cape May area in 2007.					
Hoary Edge	19	28-May	MOR:Wildcat Ridge [TH](1)	9 on Springdale 4JC 7/7		
Southern Cloudywing	16	8-Jun	MOR:Willowood [TH](1)	7 at Wildcat Ridge 6/27 [TH]	7-Jul	SUS:Springdale 4JC(9)
Northern Cloudywing	30	21-May	MOR:Wildcat Ridge [TH](2)	3 on Allaire 4JC 7/1	2-Sep	PAS:West Paterson [FP](1)
Dreamy Duskywing	9	9-May	SUS:Sunrise Mtn [FW](1)	37 SUS:KVSP on 6/7 [TH]	26-Jul	ESS:Hilltop Reserve [VC](1)
Sleepy Duskywing	No records from nNJ compared with 8 reports from 5 sites in 2006					
Juvenal's Duskywing	39	22-Apr	MON:Allaire SP [JS](2)	15 MOR:Wildcat Ridge 5/26 [TH]	24-Jun	SUS:Whittingham [JB](1)
Horace's Duskywing	46	26-May	MOR:Wildcat Ridge [TH](1)	18 SOM:Fairview Farms 9/2	30-Sep	SUS:Sunrise Mtn [JB](1)
Wild Indigo Duskywing	67	10-May	PAS:West Paterson [VC](1)	95 Raritan 4JC 7/22	7-Oct	SUS:Whittingham [JB](1)
Common Checkered-Skipper	34	23-Apr	MON:Sandy Hook [KK](1)	65 MON:Thompson Pk 9/18 [VC]	21-Oct	WAR:White Lake [TH](1)
Common Sootywing	15	28-Jun	MON:Thompson Pk [VC](1)	8 at Thompson Pk 8/14 [VC]	27-Aug	BER:DeKorte Pk [VC](6)
Arctic Skipper	Not found at High Point State Park on several visits in season.					
Swarthy Skipper	21	17-Jun	MID:Mounts Mills [JS](1)	75+ MON:Marlboro 8/8 [VC]	30-Sep	SOM:Negri Nepote [PW](1)
Least Skipper	118	1-Jun	SUS:Swartswood SP[TH](1)	372 Great Swamp 4JC 6/30	8-Oct	MON:Thompson Pk [VC](3)
European Skipper	32	30-May	SOM:Fairview Farm [TH](2)	40 Great Swamp 4JC 6/30	8-Jul	SUS: Walkkill 4JC 7/8(7)
Fieri Skipper	29	7-Jul	SUS:Springdale 4JC(1)	5 MON:Thompson Pk 10/8 [VC]	18-Oct	SOM:Somerset 10/18[PW](1)
Leonard's Skipper	6	24-Aug	SUS:Fredon [SW,VW](1)	2 SUS:Vernon AT [VC]	25-Sep	SUS:Vernon AT [VC](2)
Cobweb Skipper	3	20-May	SUS:Flatbrookville [Odes](1)	Three sightings, all singles	24-May	SUS:Flatbrookville [TH](1)
Indian Skipper	13	21-May	MOR:Wildcat Ridge [TH](1)	9 SUS:Crater Lk Rd 6/7 [JB]	9-Jun	SUS:High Point[NABA](2)
Peck's Skipper	107	22-May	Several places in WAR SOM WAR	105 Raritan 4JC 7/22	19-Oct	SOM:Somerset [PW&JB2](1)
Tawny-edged Skipper	57	21-May	SOM:Somerset [PW](1)	37 Raritan 4JC 7/22	8-Oct	MON:Thompson Pk [VC](2)
Crossline Skipper	24	17-Jun	WAR:White Lk [JB,MB](2)	20+ SUS:Flatbrookville 7/16 [TH]	9-Sep	MID:Mounts Mills [JS,CW](1)
Long Dash	11	30-May	MOR:Mendham Twp [TH](1)	5 DWGNRA on 6/3 [Odes] & Willowood on 6/9 [JS]	26-Jun	SUS:Canal Rd [VC](1)
Northern Broken-Dash	58	12-Jun	MOR:Willowood [TH](1)	112 Great Swamp 4JC 6/30	5-Aug	MOR:Schooley Mtn [JS,CW](4)
Little Glassywing	58	1-Jun	SOM:Somerset [PW](1)	450 on Great Swamp 4JC 6/30	11-Aug	MON:Thompson Pk [VC](3)
Sachem	86	22-May	SOM:Somerset[PW,CW](1)	243 Raritan 4JC 7/22	1-Nov	PAS:West Paterson [FP](1)
Arogos Skipper	No reports in 2007					
Delaware Skipper	43	17-Jun	WAR:White Lk [JB,MB](2)	94 Great Swamp 4JC 6/30	8-Aug	MON:Big Brook Pk [VC](1)
Mulberry Wing	11	7-Jul	Springdale 4JC(10)	36 High Pt SP 7/22 [JB,MB]	22-Jul	MID:Helmetta on Raritan 4JC(13);SUS:High Pt SP (36)[JB,MB]
Hobomok Skipper	47	23-May	SUS:Canal Rd [VC](1)	50 SUS:Stokes SF 6/9[NABA]	6-Jul	SOM:Duke Farm [PW](2)
Zabulon Skipper	94	20-May	MID:Mounts Mills [JS](1)	50+ MOR:Willowood 8/12 [NABA]	30-Sep	SOM:Somerset [MG,JB2](1)
Broad-winged Skipper	47	28-Jun	MON:Sandy Hook 4JC(1)	33 MON: Thompson Pk 8/14 [VC]	27-Aug	BER:DeKorte Pk [VC](12)
Dion Skipper	18	30-Jun	MOR:Great Swamp 4JC(6)	19 SUS:Springdale 4JC 7/7	27-Jul	Raritan 4JC 7/22 (3)
Black Dash	28	30-Jun	MOR:Great Swamp 4JC(46)	50 Springdale 4JC 7/7	28-Jul	SUS:Crater Lk Rd [TH](2)
Dun Skipper	76	1-Jun	SOM:Somerset [PW](1)	134 Springdale 4JC 7/7	9-Oct	MOR:Willowood [TH](1)
Dusted Skipper	6	20-May	MON:Assunpink [JS](1)	9 MOR:Wildcat Ridge [NABA]	5-Jun	SUS:Flatbrookville [TH](1)
Monk Skipper	No records since the "totally unexpected" report in 2005.					
Pepper and Salt Skipper	4	31-May	SUS:High Point [TH](21)	21 High Point on 5/31 [TH]	15-Jun	SUS:High Point [JH](6)
Common Roadside-Skipper	1	19-Jun	MON:Allaire SP [JM](1)	only one nNJ record in 2007		
Ocola Skipper	1	27-Aug	BER:DeKorte Park[VC](1)	only one nNJ record in 2007		

Looking Forward to 2008: Nectar Sources, Predation, Host information

Our daily observations of butterflies provide lots of opportunities to add to the remarkably meager knowledge regarding many of our species---even some common species. Here are three topics that would enrich the next Pearly Eye.

NECTAR SOURCES: There is increasing interest in planting butterfly gardens or considering butterflies in habitat restoration, with the emphasis on native plants. But many of the most commonly used nectar sources are exotics. How do native species such as Milkweeds and Mountain Mints compete with Thistles and Knapweeds. Attractiveness may also vary from place to place. Documenting nectar sources will provide valuable information.

PREDATION: For the population, predation on adult butterflies is trivial compared to the unseen predation on eggs and larvae. Nonetheless a lot of ecological theory, for example, regarding mimicry, hinges on the vulnerability of adults to predators. A predation record can include date, location, species of predator and prey, and the type of plant (usually a flower). I find it particularly challenging to get good photos of predation events.

CATERPILLAR HOSTS: Ultimately the availability of hosts is crucial for perpetuating butterfly populations, and competition between invasive species (such as Garlic Mustard) and native wildflowers, has had a profound impact on some butterflies. In many areas it is hard to find the native cresses (mustards) due to the combined impact of deer, Garlic Mustard and Stilt Grass. Documenting the plants that females lay eggs on is a first step. Following through to successful

Annotated List of North and Central New Jersey Butterflies for 2007
Edited by Michael Gochfeld with major contributions from Tom Halliwell & Ken Witkowski

Pipevine Swallowtail: Highly local, but often common, particularly along the Palisades (BER) where Dutchman's Pipe grows profusely. Also recorded in SUS, PAS, MOR and MON counties. Still rare in SOM and MID. 26 records mainly from north, about half from the Palisades; also SUS:KVSP & MOR:Schooley Mtn (21 on 8/24). At KVSP laying on Dutchman's Pipe 7/17 [TH]. Lots of larvae produced but nearly all predated. "To my knowledge no Pipevines have reproduced in the wild in nwNJ"[TH]. "I don't see Pipevine Swallowtail every year in my area so this was a good year"[TH]. New to GS4JC 6/30 (2)[CW]. Rare in MID:Monroe (9/5 [TJ]) and one from MON: Thompson Pk 9/10, [VC].

Pipevine is the distasteful model for several Batesian mimics: Black, Spicebush, and black female Tiger Swallowtails, Red-spotted Purple and some moths. (See article by Ries & Mullen in American Butterflies Fall/winter 2007 vol 15 No 3/4).

Zebra Swallowtail: No records in 2007 following the 2006 record from MON. "We get records with approximately records every 2-3 years"[TH].

Black Swallowtail: "It seemed an average year" in nwNJ, [TH] but below average in cNJ [MG]. High counts 7/22 (56) R4JC [MG] and 7/8 (49) MC4JC on 7/8[FB].

Giant Swallowtail: Four sightings of singles are 6/8 SUS:Pochuck Crk Appalachian Tr [VC], 8/24 SUS:Wallkill [KW], 8/25 SUS:KVSP [LG], nectaring on *Buddleia*. Its host *Xanthoxylum americanum* is abundant. 9/6-9/7. SUS:Paulinskill Lk, Ridge.[RD,EM]. (See article by R. Dirig this issue).

Eastern Tiger Swallowtail. Generally considered a "good year" with "much more than usual"[KW]. High count before mid-May only 10/day. Max 7/22 (149) R4JC. Clear early peak in late May, followed by a larger and longer mid-summer peak from mid-July to early August. Seen throughout Sept until 9/27.

Spicebush Swallowtail: Throughout May, max=3/day until 5/30 (15) BER:Palisades. Small early peak in June; larger peak in late-July continuing thru Aug. In nwNJ:The second brood (August) seemed more numerous than usual with double-figure counts from late July to mid-Aug at several locations. [TH]. New high 7/22 (35) on R4JC.

Checkered White: An erratic species well known for ephemeral colonies. No Sandy Hook records in 2007; none at Newark Airport on 3 visits in Aug-Sept. The only 2007 record was 8/9 (1) at SUS: Lafayette Twp; Hyper Humus[JB].

Cabbage White: This was a typical year in nwNJ [TH], but was a big flight year in cNJ. New highs of (1493) on S4JC 7/7 and (2385) on R4JC 7/22 also 6/24 (2000) SUS:Whittingham [JB], but new low 7/8 MC4JC. Flying from 3/22 ESS: Belleville [VC] to 11/21 MID:Piscataway [MG]. Mainly singles until 4/23; large peak until end of May. Then larger peak from 6/10 to late-July. Lower in Aug, but counts of 100+ through 1st week of Sept. Another smaller peak evident in late Sept-early Oct.

Falcate Orangetip: Disjunct distribution in nwNJ and MON with virtually no records in between. Early records from MON:Allaire & Assunpink 4/22 [JS,CW,SL], then only from SUS Stokes, Waterloo, Flatbrookville, DWGNRA from 5/8 to 5/24 (MOB). On 5/20 an Olson-Odes trip estimated 35 at Flatbrookville, but only 2 females. These fly constantly stopping briefly to nectar at *Rubus* or Garlic Mustard. Host at SUS:Flatbrookville is Tower Mustard (*Arabis glabra*)[TH]

Clouded Sulphur: An unidentified Sulphur was reported at Edgeboro Dump on Jan 12th. "For the most part, poor numbers again, with a bit of a pick up late in the season"[TH], and higher counts than 2006[KW]. Few double-digit counts in nwNJ [TH] or cNJ [MG], none until 6/30 (23) GS4JC. Peak 1st half of July; 2nd peak in Aug, and larger peak in late-Sept thru early Oct. Last on 10/23, with no later reports. On 8/7 at Vernon, outnumbered Orange Sulphur [VC].

Orange Sulphur: Generally low numbers most of the season in nwNJ, picking up in Sept-Oct.[TH]. At WNWR higher than 2006 [KW]. Low year in cNJ [MG]. First on 3/27 then no records until 4/23. A First peak from 4/23 to 5/22 with a max of 18/day). Then only single digits until 6/24 to 7/13 when a larger peak yielded the year's only triple digit counts on 6/30 (221) GS4JC, 7/1 (130) A4JC, 7/7 (207) S4JC, and 7/8 (108) WR4JC. Later peaks 7/21 (SOM), 8/5-9/2 and 9/20-10/22. Then abruptly disappeared with only three later records (last on 11/25).

Cloudless Sulphur: In nwNJ good flight year [TH], in cNJ average [MG]. Several records from SUS [SW,WW]. The 21 records include 18 singles.

Little Yellow: No NJ records in 2007.

Harvester: An exciting year. In addition to traditional Scherman-Hoffman population (reported only 1x,10/20[LG]), it was seen again in SOM:Somerset (max=6) [PW,CW,SL, JB2,MG], and new colony found at Brookside Park, Mendham Twp (MOR) found by A.Koster (see article this issue); peak on 9/4 (7) [mob]. Broods in 5/L, Jul-Aug and 9/L-10/E. 5/23 **Brookside record is more than two weeks earlier and 10/20 SHS record more than a month later than previous records.**

American Copper: "A very local but common species, usually absent from intervenient areas. In in nwNJ, a typical year. "[TH]. The same can be said for cNJ. Single digits until 5/20, then clear peak in late May; larger peak from 6/28-7/7. 3rd peak apparent in mid-Aug. with only single digits after 9/4. .

Bronze Copper: A highlight of 2007 was the discovery of Bronze Copper the first since 1996, found on a 6/23 NABA field trip to Appalachian Trail in Vernon (SUS) by Ahmet Baytas. Another at SUS: Flatbrookville 8/18 [TH] in a Little Bluestem field. (see Bronze Copper articles, this issue)

Bog Copper: No reports. "I made no trips to Mashipacong Bogs, the only known place for the species in nwNJ." [TH].

Coral Hairstreak: Almost all hairstreaks were scarce, but Corals seem positively depressed. Reports only from SUS (9x), MON (4x) and MOR (1x).

Acadian Hairstreak: No 2007 records; sought at SUS:Sparta site without success—again” [TH]. It’s not clear why this species should be disappearing.

Edward’s Hairstreak: Only three locations. Earliest 6/21 from SUS: Sunrise Mtn [TH]. Latest on 7/13 (1)SUS:KVSP [TH]. MAX 6/24 (55) SUS:AT above Mecca [TH]. Other sites include S4JC (only 1 on 7/7). “one at KVSP 7/13 was out of typical habitat, but only a mile from a former colony.” [TH].

Banded Hairstreak: A poor year all around. “Lackluster year to me except at Crater Lake Rd”. [TH]. Scarce in cNJ [MG]. Unrecorded in many places. [TH]. 7/6 (170) SUS:Crater Lk Rd [TH], 7/7 (213) S4JC, 7/10 (108) Crater Lk Rd [JB,MB].

Hickory Hairstreak: A tricky identification leading to both under and over-reporting. Photo documentation a good idea anytime. “Probably an average year” [TH]. Regularly recorded only in SUS and MON. A consistent spot is Crater Lk Rd.

Striped Hairstreak: Another scarce species in 2007. Earliest 6/19 at MON:Allaire [JM] with intermittent records to 7/22 (1) R4JC, and a “very fresh, very late” report from MOR:Schooley Mtn on 8/24 [VC], 10 days later than previous late record. Most records from SUS; very few elsewhere in region.

Oak Hairstreak: A usually rare, erratic species with three reports: 6/24 (4) SUS: Bear Swamp WMA [JS] and 6/26 (1) Bear Swamp [TH] and 1 at SUS:CraterLk Rd [JB,MB]. “Otherwise none. But that is typical for this rarity” [TH].

Brown Elfin: Only two reports. 5/7 (1)SUS: Stillwater 1 [TS] and 6/7 (2) SUS:Crater Lk Rd[JB,MB], ties previous late record.

Henry’s Elfin: Only five reports, all from MON 4/22-5/16, which ties previous late record.

Frosted Elfin: MON:Assumpink WMA has had the only colony in our region, but none found there in 2007. Recent records are: 2001: 5/5 (1); 2002: 5/4 (2); 2003: 5/4 (3), 5/7 (4), 5/12 (1); 2004:several unsuccessful searches after habitat severely degraded. 2005: 5/14 (1) plus several unsuccessful searches earlier in May. 2006: no reports. 2007: 4/22 (0), 5/20 (0).

Eastern Pine Elfin: Another species with disjunct distribution, occurs SUS-WAR and pine barrens (reaching MON). In nw NJ “Seemingly did very well this year. several sightings in their usual haunts, especially in areas of the Delaware Water Gap NRA like Flatbrookville and Walpack.”[TH]. One MON:Allaire report 5/16 (2) [JM], ties previous late record.

Olive Juniper Hairstreak: “I saw more than usual of both broods and at numerous sites around my region” [TH]. Earliest 4/26 (1) SUS:Walpack “very fresh, very early” (AB2). 5/14 (10+) at Walpack was “my highest ever in NW NJ”[TH]. First brood seen until 6/3 at Walpack and DWGNRA [TH,PB]. A 6/19 record from MOR: Willowwood was considered a “late 1st

brood” record [TH, AK]. 2nd brood appeared 7/6 at SUS:Crater Lk Rd [TH] fresh, and peaked in late July 7/22 (17) SOM-R4JC in Williams Yard[CW,PW]. Mostly gone by 7/31, but two Aug singleton records include a very late record 8/25 SUS:Walpack on a NABA trip [SW,WW].

White M Hairstreak: An erratic species, but a fairly good year. “Often I see none for the season”[TH]. Earliest 5/15 (1) SUS:Hardytown [KW], then none until 7/6 (2) SUS: Crater Lk Rd. Last on 9/27 at MON: Thompson Pk. [VC]. Peak 7/7 (10) on S4JC, new high and only the 2nd time on that count.

Gray Hairstreak: Records scattered over the entire region 5/8-10/16, but low numbers with peak only 8 on 8/8 MON: Big Brook Pk [VC]. “This is not a common butterfly in northwest NJ,...a better-than-average year”[TH]. The impression in SOM is that it was a poor year for this species [MG, PW].

Red-banded Hairstreak: A good year for this species which was a very rare visitor only 15 years ago. “The species seemed to do well even in the north [TH]. The 54 records include SUS=2, BER=4 PAS=2, MOR=8, MID=1, SOM= 22;MON=15

Eastern Tailed-Blue: In nwNJ “Seemed to be an average year” [TH], but seemed like a very low year in Central NJ [MG], but 7/22 (162) was new high for R4JC. Common in MON in early May, then low numbers until 5/20 with a small peak, then single digits from 5/27 to 6/19, with a second low peak from 6/21 to 7/13 with a max=139 (GS4JC 6/30). 3rd peak 7/L to Aug and probable 4th peak in mid-Sept.

Spring Azure Complex: For the most part, observers are not distinguishing the various groups that have been reported to be discrete species such as the Pine Barrens Azure and Cherry Gall Azure, and some don’t try to distinguish Spring and Summer Azure. Earliest report 3/30 is typical (2001 to 2006 1st dates between 3/15 and 4/12). Latest 6/28 at MON:Sandy Hook [KK], and 7/12 SUS:Appalachian Trail [VC] probably represent other taxa.

Summer Azure: Low year throughout. Earliest reported as “Summer” 6/3 at Walpack [TH]. Hard to discern a pattern; only two double digit days: 6/9 (10) SUS:High Pt SP[JB]and 6/30 (11)GS4JC. But an apparent peak in mid-June more pronounced in cNJ (MON, MER)

Appalachian Azure: “A few individuals at known colonies. But I would have expected bigger numbers”[TH]. Only three reports. 5/25 (3) MOR: Black River WMA [TH]; 5/29 (1) MOR:Mt.Olive [TH] and 6/5 (4) SUS: Frankford Twp [FW]. SOM: Sourlands, previously a stronghold., not checked in May.

Northern Metalmark: Only 9 records. “The KVSP colony seemed in normal numbers”[TH]. 7/7 (32) WAR:White Lake [JB] was the major source for the total of 51 on the S4JC.

American Snout: Very scarce in 2007. None at WNWR [KW]. Earliest 6/9 SUS:High Pt NABA trip. Latest 8/11 SUS:DWGNRA (BO). But MAX=4 at MON:Sandy Hooks (KOK). Only Somerset record 8/9[PM] Reported as scarce in sNJ as well [WK].

Variagated Fritillary: 20 yrs ago considered a rare southern stray, mainly to Cape May, but steadily increasing records in recent years. "Appeared to be a modest influx; seen at several places. White Lake had multiples for an extended period." [TH]. "An above average year in Somerset Co." [MG]

Great Spangled Fritillary: In nwNJ "Common and widespread, but not many big counts" [TH]; a poor year in most cNJ locations [MG]. Earliest 6/1 (1) WAR:White Lk was "my earliest date ever" [TH]. Single digits only until mid-June. Large counts 6/30 (168) on GS4JC and 7/7 (503) S4JC were not unusual [CW,WW]. Many double digit reports first 3 weeks of Jul, then declines. Small peak in 8/L. Scattered records (no double digits) in Sept to 10/6.

Aphrodite: "None seen by me, but that's not unusual. Very local and rare" [TH]. Only 3 singleton records. 7/19 MOR:Schooley Mtn [VC]; 7/21 SUS:Kittatiny Ridge [FW]; 8/7 SUS:Vernon AT [VC]. A good species for photodocumentation.

Silver-bordered Fritillary: A highly local, habitat vulnerable species. Only 7 records (MID=2 and SUS=5), missed at MON:Allaire where seen 2006. Earliest 5/20 (4) MID:Mount Mills [JS]. Latest 9/9 and peak 10 same place [JS, CW, PW SL]. Crater Lk colony continues [TH,JB]. Missed 2nd yr in a row on the R4JC. Apparently gone from the Dellenbach sandpit marsh (Pigeon Swamp SP), due to a deliberate habitat restoration, planting Red Maple and Sweet Gum, to destroy the early successional stage [MG]. Host plant in Dellenbach and Monroe was Lance-leaf Violet.

Silvery Checkerspot: No records in 2007. Sight report in 2006.

Harris' Checkerspot: Not found in 2007. Last reported in 2003.

Meadow Fritillary: In nwNJ "The colonies I visited seemed to yield average to below average counts." [TH]. New colony found at Duke Farms 4JC, nectaring on Sneezeweed, which they then proceeded to mow the following week. Peak 5/14 c50 DWGNRA [TS]. The 32 records show double digit counts from mid-May to early Jun, with another peak in early July (15 on S4JC) & 7/22(10+) WAR:White Lk and another peak in late Aug: 8/30 (25+) White Lake [TH].

Pearl Crescent: This normally ubiquitous and common species was scarce in cNJ [MG] and MON [VC]. In nwNJ "Seemed an average year at best" [TH]. No obvious peak in May with a max of 16 5/28 SUS:Vernon Canal Rd [JS]. Even scarcer until end of June 6/30 (67)GS4JC; 7/1 (61) A4JC. More respectable numbers in 7/E: 7/6 (100+) MON:Marlboro [VC], 7/7 (102) S4JC; 7/8 (149) MC4JC, 7/8 (108) WR4JC, but still way below expectation. Apparent 2nd peak 3rd week of July with 7/19 (100+) MOR:Schooley Mtn [VC] and 50 there on 7/25; and 7/22 (97) on R4JC. 3rd peak 8/m and 4th peak in late Sept with double digits from 9/19 to 9/30 various localities.

Baltimore Checkerspot: "Both the Vernon and Augusta Hill colonies produced good numbers. Probably an average year" [TH]. Three sightings of "many larvae" on 5/16, and only larvae until end of May at SUS:Canal Road where sighted repeatedly through June. S4JC count of 154 was highest ever.

7/1 (34) A4JC. However, The SUS: Stillwater Pond site yielded none [JB]. This species is very vulnerable to habitat loss.

Question Mark: A "very worn" individ flying on record late date, Jan 6 at SOM:Fairview Farm [JK] was included in the 2006 *Pearly Eye*. First reported 3/27 MON:Big Brook [VC], then not seen again until 4/23 at Sandy Hook [KK]. First nNJ record 5/12 BER: Palisades [VC]. In nwNJ numbers "Seemed about average" [TH]. All reports are single digits except 7/7 (12) on S4JC. Slight peaks 6/26-7/12 and 8/16 (7) SUS:Vernon [VC], and only singles thereafter. First dark "summer form" on 5/24. Orange form noted again 9/26. It was missed entirely on R4JC for first time in 19 years.

Eastern Comma: In nw NJ "Seemed about average, though fewer sightings in fall than expected" [TH]. No double digits until 7/1 SUS:Montague [JB] and 7/3 SUS:Walpack [TH]. Peak of 38 on S4JC, then virtually only single digits through Oct 21. Lack of Nov records is unusual.

Compton Tortoiseshell: "A typical year, though only one fall sighting. The new brood at end of June well represented at Wildcat Ridge, which is typical" [TH]. 5/14 record from Walpack mentions "worn" [TH] then no sightings until "very fresh" on 6/26 SUS:Wantage [SW,WW]. After 7/13, only two Oct records: 10/3 (1) SUS:Flatbrookville [TH] and 7/8 (1) SUS:Stillwater [TS].

Mourning Cloak: Lived up to reputation as "earliest" Jan 4 & 3/3 (2) PAS:Garret Mtn [PB, FP]. First double digit 3/30 (16) SUS: Walpack [AK]. Then numerous 7/7 (52) S4JC. In nwNJ "Fairly typical but like many of anglewings, seemingly scarce in fall" [TH]. Not evenly distributed, of 69 records only 5 in SOM and 8 in MON, all others are from MOR and PAS northward.

Milbert's Tortoiseshell: It's too soon to determine a "typical year for this species" [TH]. Only three records, all from SUS: 6/3 (1) KVSP [JB], 6/22 (1) Walpack [JB], and 7/7 (1) S4JC. Was it just a low year or were there few visits to known locations?

American Lady: In nwNJ "Definitely an uptick from last year. Seen regularly, but not extremely numerous" [TH]. Except for (15) at MON:Big Brook on 5/22 [VC], no double digit counts until 6/29 with (28) at SUS:Crater Lk Rd. This peak continued to at least 7/24 (10+) Crater Lk Rd. Slight resurgence on 7/22 (23) R4JC and (15) High Pt [JB]. Small third peak in south suggested around Aug 11-14 with double digit counts in MON.

Painted Lady: Only 12 records, half in MON, the others scattered. Max of only (3) 7/22 R4JC. In nwNJ "I saw none" [TH]. Scattered records in a non-flight year raise the suspicion of releases from captive-reared commercial caterpillars.

Red Admiral: This species was flying in Cape May in Jan 2007 and again in Jan 2008 (WK); not previously known to overwinter. (See article on Red Admiral migration in Wisconsin this issue). Overall a banner year in some locations. In nwNJ "improved from last year. Not in great numbers, but seen regularly. Only single digits until 6/23 (60+) seen on NABA trip to Vernon. Then large numbers through July, after

which decidedly less common. Single digits in many locations in Aug-Oct. Big counts on several 4JC including 6/28 (212)SH4JC, 6/30 (79) GS4JC, 7/1 (137) A4JC, 7/7 (316) S4JC (new high), 7/8(44)MC4JC(new high), 7/8 (223) at Wallkill, 7/21 (50) D4JC, but 7/22 only (9) R4JC.

Common Buckeye: Probably a normal year [MG]. In nwNJ "A few sightings, which is rather typical"[TH]. Most records in cNJ with only a few in north: SUS=8, PAS=2, MOR=2.

Red-spotted Purple: "Not particularly common this year"[TH]. First peak in mid-June 6/15 (10+) at SUS:Montague [TH] and 6/21 (6):SUS:Stokes[TH]. No clear peak thereafter, with stragglers mainly in SOM and MON in early Oct.

White Admiral: The white-marked morph, called Banded Purple, is mainly a northern species, becoming the predominant morph north of the range of the distasteful Pipevine Model (see Reis & Mullen article in American Butterflies Fall/winter 2007). Only two reports for 2007: 6/3 at SUS:Walpack [TS], and 6/3 a roadkill at SUS:Montague [GT].

Viceroy: In nwNJ "Seemed an average year"[TH]. With only one double-digit day it's difficult to discern peaks, but probable peak in mid-June (max=5), again in mid-Jul max=6, and again mid-Aug to early Sept. with a 9/4 peak (10) SUS:Vernon[VC].

Hackberry Emperor: In nwNJ "Probably a typical year or a bit below average. I saw few second brood individuals; didn't often visit the strongholds along the Delaware River" First brood in first half of June; fresh individuals seen in 7/L, and "very worn" 8/11. on Aug 11. Another fresh brood in mid-Aug 8/17(1) SUS:Swartwood[TH] & 8/18 (1) SUS:Fredon [SW,WW], with scattered records thereafter to 9/19.

Tawny Emperor: In nw NJ seemingly "a very good year. Widespread and in good numbers" [TH]. "Although we have lots of Hackberry trees and a fair number of Hackberry Emperor's, I don't have any SOM:Somerset records for Tawny Emperor. It seems to have bipolar disorder, being common in nwNJ and also near Cape May"[MG]. Most records are singles.

Northern Pearly-Eye: "Seemed an average season" [TH]. Records were only from SUS-MOR-WAR-PAS. Regular on Sussex trips in July and MOR:Schooley Mtn in July and early Aug [VC].

Eyed Brown: "The Vernon colony at the AT lands appeared typically numerous. I didn't visit any of the localities where I have seen small numbers in the past" [TH]. Only six records, including 50 to 100+ at Vernon AT from 6/23 to 6/28 [VC,TH,SW,WW].

Appalachian Brown: In nwNJ "Widespread and common; seemed to be in normal numbers"[TH]. After 7/8 no more than 3/day at any location. Most records are from SUS-WAR. Fewer records and smaller numbers in SOM-MID-MON.

Little Wood-Satyr: "Typical or a bit lower-than-usual numbers. In nwNJ only one noticeable peak in late May-early

June." GS4JC "often gets a second regime of high numbers around 7/1"[TH]. Highest numbers on 6/30 (266) GS4JC and 7/1 (154) A4JC. Typically scarce in July; after 7/7, high count was 5 at several locations, but mostly singles from late July onward with a late record at MOR:Convent Sta on 8/14 [JG] and a very late record 9/6 SUS:KVSP [SW,WW], more than 2 weeks after previous late record.

Common Ringlet: "Present at the usual places, but I didn't see big numbers. It's not pushing south of the Highlands and Ridge & Valley provinces presently"[TH]. "We keep looking for it locally in cNJ (SOM, MID)"[MG]. Appears to be a clear peak in 5/L; then a resurgence or continuation around 6/7 to 6/13. Another peak apparent in late Jul 7/28 (19) SUS:Crater Lk Rd [JB]. No records south of MOR, suggesting that the rapid colonization of the early 90s is slowing down.

Common Wood-Nymph: In nwNJ "Appeared to be a normal year"[TH]. Respectable showings on several 4JC including 6/30 (148) GS4JC; 7/7 (212) S4JC; 7/8 (134) MC4JC, 7/8 (184) WR4JC. Double digit counts continued to 8/18 after which there were few sightings through 9/9.

Monarch: In nwNJ "an excellent year both in the breeding season and fall migration, compared to the awful 2004 and 2005 seasons"[TH]. Sightings in late Apr 4/24 MON: Sandy Hook [KK] and 5/5 SOM:Somerset [PM] presaged a good season. No double digit days until 6/30 (28) GS4JC. Triple digit days included 7/7 (136) S4JC, 7/22 (176) R4JC, 8/7 & 8/16 (100+) at SUS:Vernon[VC]. Then numbers dropped off dramatically; only (50+) at Vernon on 9/25, but "hundreds" at Sandy Hook migrating at 10/min on 9/30 [CW], was impressive. At KVSP there were several days in late Sept with 300-500 Monarchs [TH]. Double digits at WAR:Raccoon Ridge to 10/21 [BH]

Silver-spotted Skipper: In nwNJ "a typical year"[TH], but not at all typical in cNJ where numbers seemed very low [MG] and low in MON as well [VC]. Peak 6/24 to 7/7 with many double digit days and again 7/22 to 7/31. Last double-digit day 8/14 (16) MON:Thompson Pk[VC]. Only singles after 9/10.

Long-tailed Skipper: No records in our area; reported commonly from Cape May. (see Kerling article below)

Hoary-Edge: Recorded only from SUS, MOR, MON. July records only from SUS. In nwNJ "Appeared to be in fine numbers at the local haunts I visited such as KVSP and Wildcat Ridge, where up to 7 on 6/27 laying on *Desmodium canadense*"[TH].

Southern Cloudywing: Recorded from SUS=4x, MOR=3x, SOM=2x, and MON=5x "I saw this at more nw NJ spots than previously. The SUS:Flatbrookville colony appears stable. Also in Blirstown Twp. and SUS:Montague. Two broods were noted at MOR:Willowwood...[which may be] the farthest north we've seen the August brood?"[TH]. Recorded sporadically to 7/5 (1 fresh) MOR:Schooley Mt [VC]; then two Aug records, and a new late report from 9/2 (2) SOM:Fairview Farms (previous late record 8/31/06).

Northern Cloudywing: More numerous and more northern than preceding species. Peak numbers in early June. In nwNJ "Seemed in normal numbers. The 7/6 individual is my latest ever" [TH]. First records in MOR 5/21; 2/3 of records are from SUS. No MON records until 6/16. Fresh individual 7/26 at ESS:Hilltop Res [VC] is two weeks later than previous record.

Dreamy Duskywing: Only 9 records (SUS=5; MOR=2; SOM=1; MON=1) "Excellent numbers [30+] at MOR:Wildcat Ridge and good numbers [10] at SUS:Sparta Mountain. But this is normal at these locations"[TH]. No timely visits to SOM:Sourlands where this species is regular. A rare suburban record was 5/11 (1) SOM:Somerset in Williams yard [PW,CW].

Sleepy Duskywing: No reports for 2007. "I didn't make it to the Kittatinny ridgetop stronghold in the right time frame this year." [TH].

Juvenal's Duskywing: In nwNJ "Seemed to be a typical year. No big counts like last year however" [TH]. Seen regularly in most places throughout May until mid June, with only two later records 6/17 (1) WAR:White Lake [JB] and a 6/24 "1 worn individual" SUS:Whittingham [JB].

Horace's Duskywing: In nwNJ "A banner year! Lots of sightings. I usually see one or two, sometimes none. I saw a late one 9/30 at the top of Sunrise Mountain of all places. Willowood's 18 on the 8/12 NABA trip was superb" [TH]. But none at WNWR [KW]. This species is known to have a spring brood which is usually overlooked until late June when the more numerous Juvenal's have faded away. However, the excellent photographic documentation appears to support the 5/26 (3) MOR: Wildcat Ridge [NABA] record.

Wild Indigo Duskywing: This was generally a slow year in cNJ, but "Seemed about normal, perhaps a bit down" in nwNJ [TH]. First reported 5/10 PAS:West Paterson, then not again until 5/21 after which reports occurred sporadically. Only 4 records in May and 5 in June. 1st brood max 6/30(16) on GS4JC. Becoming more regular with 2nd brood in early July.

Common Checkered-Skipper: Traditionally a "southern immigrant", showing up mainly at Cape May and coastal localities in late summer. Has expanded greatly in past 10-15 yrs. Consistent July records over 5 years at a New Brunswick site, suggested a permanent colony, rather than random arrivals year after year. [MG] The early records 4/23 at Sandy Hook (previous early record 4/24/06) and 5/20 at MID:Mounts Mills, represent the spring brood. Even SUS:Vernon had early Jun (6/2) records [TH,JS] suggesting overwintering rather than summer immigrants. Most records (70%) are in cNJ: MER=6, MON=8, SOM=6, MID=3. In nwNJ "Not nearly as good as last year. Fewer sightings and lower numbers" [TH].

Common Sootywing: I have the impression that this species has declined greatly in cNJ for no apparent reason. It is a weedy species, relying on ubiquitous weedy hosts, mainly Lambs Quarters, but also Amaranths and Ragweed. In nwNJ "This species is not very common. It was nice to find at the WAR:White Lake and at DePew Island DWGNRA" [TH]. Only 15 records: SUS=7, WAR=1, BER=1, MOR=1, MON=5.

Arctic Skipper: A search of usual habitat at SUS:High Point SP on 6/9 turned up "None again" I checked the area a few times at appropriate dates and I know some others did as well. It's huge. It may be hanging on, away from roads, but I'm not optimistic" [TH]. This species was marginal in NJ and may have disappeared.

Swarthy Skipper: In nwNJ "a few in August, but only in the southern part of my area (e.g., Willowood)." [TH]. "I think this species has declined as well locally in cNJ" [MG]. Only 13 widely scattered reports of 1-4 individs in MOR, MID, and MON until an unprecedented 8/8(75+) MON:Big Brook Pk [VC]. Thereafter double digits continued to mid-Aug, then only 1s and 2s through until 9/30 (1) SOM:Negri-Nepote [PW]. The previous latest record was 9/21/03.

Least Skipper: In nwNJ "Not terribly abundant. Good counts from Vernon and Wallkill River NWR, but these spots often have much larger counts. Unimpressive elsewhere though widespread and common" [TH]. Interesting phenology. First brood seen daily in SUS in early June, but mainly small numbers except for 6/8 (35) SUS:Vernon [VC] and 6/17(50+) SUS:Canal Rd [JH]. Then large numbers appear around 6/21 continuing through about 7/8 (the main 4JC period), and definitely declining by mid-July, except 7/22 (66) R4JC. Numbers drop to single digits for most of the first half of Aug, then pick up again, with last double-digit count 9/4 (55) at Vernon [VC]. No triple-digit counts until 6/23 (200+) NABA trip to Vernon; 6/26 (100+) Canal Rd [VC], and 6/28 (100+) Vernon AT [TH]. 4JCs yielded the highest count 6/30 (372) GS4JC, 7/7 (107) S4JC. 7/8 (114) WR4JC, but only 13 on MC4JC same day (7/8) (when no skippers were common).

European Skipper: In nwNJ "Seemingly not as abundant as usual" [TH]. This seems understated, there were no triple digit days, and no clear peaks.

Fiery Skipper: In nwNJ "Apparently a nice flight inland. I had several sightings beginning on 7/7 at Newton Meadows on the Springdale count" [TH]. 7/8 (1) WR4JC [JB] was 1st refuge record. Only 4 of 24 records from MON. Regular in mid-Oct in SOM:Somerset [PW].

Leonard's Skipper: Only 4 reports. This species listed by NJDEP as "special concern" probably warrants threatened status. In nwNJ "I saw only one: 8/25 at KVSP. However, one or two per season is about normal for me" [TH] "We were not able to find any survivors from the colony behind our house (SOM:Somerset), which was developed in 2006. However, the corridor and nectar sources were left, so it could have survived." [MG] The Flatbrookville Colony was not found this year either [8/25, SW, WW], however on 8/24 Wanders had their first yard record (SUS:Fredon). Reports on 9/18 (1) MON:Thompson Pk [VC] and 9/25 (2) "very fresh" at SUS:Vernon AT along Pochuck Crk [VC] are unusually late.

Cobweb Skipper: Only three records. "Two sightings in the Flatbrookville area are good for me. This is a rather rare butterfly in northwest NJ," [TH]. The two sightings were a mile apart on 5/20 and 5/24. The only other record was at MON:Thompson Pk on 5/24 [VC]. All were singles.

Indian Skipper: In nwNJ "Scattered around in small numbers. Fairly typical"[TH]. The 13 reports are distributed: SUS=6, MOR=5, SOM=1 and MON=1. For the most part this species does not penetrate south of MOR and nSOM counties. The sight report 5/24 (1) from MON:Thompson Pk [VC] is unprecedented.

Peck's Skipper: In nwNJ "typical or below average numbers. Willowwood had good counts, but that's typical. Other places seemed a bit low"[TH] and likewise except for the high count of 105 on the SOM-MID: R4JC, there were very low numbers in SOM which is perhaps the center of distribution. Very few at SOM:Somerset [MG] and almost absent at SOM:Duke Farms [PW]. The new high on 7/22 (105) for R4JC reflects the late timing of the 2007 count, which caught the mid-summer brood, usually missed. The first brood was widespread and seen regularly, but with few double digit counts. A hiatus from 6/26 (when a worn individual seen at KVSP to 7/20 when the 2nd or is it 3rd brood emerged.

Tawny-edged Skipper: In nw NJ "Other than a few good counts (e.g., 8/12 (25) on NABA Willowwood trip) I felt that this was down a bit this year"[TH]. The same was true in cNJ. A long first brood persisted from late May to about 7/8, followed by a weeklong hiatus, before a new, more numerous brood emerged (7/17) and persisted most of Aug. Scattered singles in Sept.

Crossline Skipper: In nwNJ "Seemed about average" [TH], but decidedly uncommon in cNJ, almost absent from SOM. Of 24 records SUS=15, WAR=1, MOR=1, MID=2, MON=4, MER=1 with no clear pattern. Absent in mid-July with 2nd brood emerging around 7/22, and probably 3rd brood 8/14 (3) "all fresh" MON:Thompson Pk [VC].

Long Dash: "I didn't see many, but didn't often look for them. This is one species for which you need to visit their specific local colonies. Probably a normal year"[TH]. Only 11 records from 30 May to 26 June, with max 6/3 (5) DWGNRA [Odes] and 6/9 (5) at MOR:Willowwood [JS]. Colonies reported from High Point/Stokes, Flatbrookville, White Lake, Mendham, Willowood, Swartwood, Walpack, and Canal Rd.

Northern Broken Dash: In nwNJ "Appeared to be lower numbers than usual"[TH]. Way down in recent years. "This used to be the commonest skipper in our yard (SOM:Somerset), but I saw very few this year."[MG]. 1st brood in June peaked on 6/30 (112) on GS4JC. Double digits also on 4JC on 7/7 and 7/8, continuing to 7/24 (10) SUS:Crater Lk [TH]. Latest record 8/5.

Little Glassywing: In nwNJ "More numerous than N. Broken Dash, but not impressive. Probably somewhat lower than normal"[TH]. New early 1st record 6/1 SOM:Somerset [PW] (previous early record 6/11/02). High numbers on GS4JC (450) and S4JC (239) Low throughout cNJ [MG] with only 10 on the R4JC. No gap in records in June, but increasing numbers around 6/25 probably a second brood. None after 7/25 until the 8/14 record of 3 "all fresh" at MON:Thompson Pk [VC].

Sachem: In nwNJ "I Didn't see it, but that's typical"[TH]. Abundant this year in cNJ, particularly Somerset with multiple records (both male and female) in third week of May (SOM:Somerset, PW) suggesting that this species survived the relatively mild winter nearby. For much of the summer the most numerous butterfly in many gardens. Surprisingly no records in June, but seen regularly in many places in cNJ from 7/8 onward. First and only MOR record 8/5 Willowood [JS, CW]. Earliest PAS record on 8/14 and BER record on 8/27. No reports from SUS or WAR. Latest 11/1 PAS:West Paterson[FP] ties previous late record.

Arogos Skipper: No reports in 2007. "Didn't see, but only looked briefly one time. There are only a few areas in the Roxbury area that have had populations, and most are off limits to visitation" [TH].

Delaware Skipper: This species has an odd distribution being common in nwNJ and MON, but scarce in between. In nwNJ "Seemed about normal" [TH]. "Another species that seems to have declined in central NJ in recent years"[MG]. First brood from 6/M to 7/M with high counts 6/30 (94) GS4JC and 7/7 (88) S4JC. Apparently another smaller brood in mid-July. One Aug record 8/8 MON:Big Brook was "very fresh" [VC].

Mulberry Wing: In nwNJ "The places I see them had them in regular numbers"[TH]. Records from 7/7 S4JC, 7/8 WR4JC and from 7/22 R4JC, and SUS:Sparta Mtn & Newton and WAR:White Lk & Bear Crk Preserve[TH].

Hobomok Skipper: In nwNJ "Widespread and common, but no big numbers"[TH], except for 6/9 (50) NABA trip to High Point/Stokes. Except 5/30 (1) BER:Palisades, 6/21 (1) MON:Allaire [JM] and 7/6 (2) SOM: Duke [PW], all records are SUS-WAR-MOR.

Zabulon Skipper: In nwNJ "Seemed to have an excellent year. Seemed to be everywhere, especially the second brood. Reasonably good numbers too"[TH]. "This was true in cNJ as well"[MG]. Broods may overlap. First brood from 5/L to 6/E. New fresh individuals around 6/5 to 7/E. None seen from 7/8 to 7/25 even on the four 4JCs. 3rd brood from 7/L to 8/M or 8/L. Another fresh brood in mid-Sept.

Broad-winged Skipper: This *Phragmites* specialist which sometimes reaches great abundance in coastal phrags, was not numerous at all in 2007. In nwNJ "Seemed a typical season"[TH]. Records are from SUS-MOR-SOM-MID-MON. First on 6/28 SH4JC ties previous early record. Only single digits until mid-Aug, then numbers increased., but not recorded on most days in late Aug.

Dion Skipper: In nwNJ "I saw more than usual this year. On 7/7 (9) SUS:Newton Meadows (S4JC), where I noted the species a few additional times. One at KVSP for the first time ever"[TH]. Away from SUS, it was recorded on the 6/30 (6) GS4JC & 7/22 (3) MID:R4JC and 8/11 (2):WAR:White LK[JB,MB].

Black Dash: In nwNJ "Did not seem terribly common, but the comments for Mulberry Wing probably apply here too"[TH].

More readily found in nNJ than cNJ, with one record 7/8 (5) A4JC and another 7/22 (2) MID:R4JC. On 7/14 (12) SUS: Fredon was the Wanders' highest yard count ever.

Dun Skipper: In nwNJ "Probably a typical year. The 10/9 individual at Willowwood was my latest ever in the region by far"[TH]. First brood with low numbers through most of June. Large numbers appear suddenly 6/30 (117) GS4JC and double digits continue to 7/22, including 7/7 (134)S4JC. Very few Aug records scattered from SUS to MON, then unprecedented 10/9 record at MOR:Willowwood [TH] (previous late record 10/6/96).

Dusted Skipper: In nwNJ "Seemed to be doing well in its local haunts. No big numbers, but that's typical"[TH]. Only 6

Contributors: The following people contributed sightings for this report, and are indicated by bracketed initials in the text and Table. Those who sent season summaries shown in **bold**.

M. Anderson[MA], C.Aquila[CA], F. Bader[FB], A.Barlow[AB2], M.Barrett[MB], A.Baytas[AB], P.Belardo[PB2], C.Bernzweig[CB], P.Both[PB], **J.Burgiel[JB]**, J.Burger[JB2], D.Burnside[DB], B.Clough[BC], J.Connor[JC], V.Corsello[VC], C.Dorsey[CD], R.Dufort[RD], G.Freeman[GF], L.Gangi[LG], J.Glassberg[JG], **M.Gochfeld[MG]**, L.Groves[LG2], **T.Halliwell[TH]**, B.Hardiman[BH], J.Harrington[JH], T.Jawidzik [TJ], FA.Jenik[FJ], A.Jensen[AJ], F. & J. Kahan[FK], K.Keating[KK], W.Kerling[WK], J.Klizas[JK], A.Koster[AK], R.Lane[RL], S.Lee[SL], J.McKee[JM], D.McNicholas[DM], E.McQueen[EM2], JE&G.Mahler[EM], S.Mitchell[SM], N.Mitchell[NM], J&K.Moser[KM], P&B Murray[PM], B.Olson Odes trips [Odes], F.Pfeiffer[FP], M.Pollock[MP], R.Radis[RR], S.Richart[SR],K.Risdon[KR], J.Rottkamp[JR], J.Springer[JS], T.Sudol[TS], P.Sutton[PS], G. Tudor [GT], S. Wainwright[SW2], S.Walter[SW3], S.Wander[SW], W.Wander[WW], F.Weber[FW], C.Williams[CW], P.Williams[PW], **K.Witkowski[KW]**, N.Woods[NW].

Five individuals: J.Burgiel, V.Corsello, T.Halliwell, P.Williams and J.Springer, contributed 70% of the observations. In addition S.Wainwright submitted over 400 Ocean Co. records.

Dainty Sulphur New to New Jersey

The photographic record of Dainty Sulphur at Cape May Bird Observatory (Goshen) by Michael Crewe on 9/28 was particularly gratifying. It evidenced again the importance of photographs since the butterfly was not identified in the field, but subsequently from a photograph. Dainty Sulphur was included in *Butterflies of New Jersey* on the strength of "it is a regular immigrant in the West to the Great Lakes and

records between 5/20 (1) MON;Assunpink [JS] and 6/5 (1) SUS: Flatbrookeville [TH].

Pepper and Salt Skipper: "I twice noted small numbers at the High Point SP colony. It's been a while since there have been good numbers reported"[TH]. This included the first sighting on 5/31 of 21 individuals [TH] and the last on 6/15 with 6 nectaring on clover (JH). No sightings away from High Point.

Common Roadside-Skipper: This rare species reported only once, 6/19 MON:Allaire SP [JM].

Ocola Skipper – Only one record in 2007, 8/27 (1) BER: DeKorte Pk [VC].

Other Citations:

NABA: NABA-North Jersey Butterfly Club field trip. Mob=many observers

4JC=Fourth of July Counts:

A4JC=MON:Allaire (J. McKee),

D4JC=SOM: Duke Farms (M.Gochfeld),

GB4JC=BER:Greenbrook Sanctuary (N.Slowik)

GS4JC=MOR:Great Swamp (C.Williams),

MC4JC=Mercer County (F.Bader),

R4JC=SOM-MID:Raritan (M. Gochfeld),

SH4JC=MON:Sandy Hook (K.Keating),

S4JC=SUS-WAR:Springdale (W.Wander)

WR4JC=SUS:Wallkill River NWR (K.Witkowski).

ABBREVIATIONS and number of records by county.

All locations include the first three letters of the county in

capital letters. BER=Bergen (134), ESS=Essex(70),

HUD=Hudson(1), HUN=Hunterdon(37), MER=Mercer (223),

MID=Middlesex ((120), MON=Monmouth(766),

MOR=Morris(636), PAS=Passaic(103) SOM=Somerset(786),

SUS=Sussex(1658), UNI=Union(0), WAR=Warren(174),

AT=Appalachian Trail,

GSNWR=Great Swamp National Wildlife Refuge

KVSP=Kittatinny Valley State Park, Mt=Mountain, Pk=Park

PVT=Paulinskill Valley Trail

Stony Brook=Stony Brook-Millstone Watershed Reserve

SHS=Sherman-Hoffman Sanctuary, Twp=Township

WMA=Wildlife Management Area

WRNWR=Wallkill River National Wildlife Refuge

6/E= early June, 7/M=mid-July 8/L = Late August.

northern Plains, and several records from Maryland and Pennsylvania, but we didn't go so far as to predict its occurrence in NJ. David Wright indicated that this butterfly is a rare southern immigrant to our area [the northeast] from the western population, while the southern population "has no migration tendencies".

Bronze Copper in New Jersey 2007

by Various Contributors

After the hiatus of a decade, during which we lamented the disappearance of Bronze Copper from the north Jersey fauna, A. Baytas discovered a Bronze Copper on a NABA field trip to Vernon (SUS), along the boardwalk in the Appalachian Trail lands on 6/23. On 8/18 T.Halliwell found a female nectaring on Mountain Mint at the "riverbend farm" at Flatbrookville (SUS). P.Sutton, T. Knipper and others saw a worn male Bronze Copper at Cape May Pt SP (9/27-9/28). These are all intensively visited areas, suggesting that the species has not been overlooked in recent years. The main host, Curled Dock (*Rumex crispus*) is widespread and abundant. So why is the Copper so rare?

As of 1997, the Opler County Atlas showed records for only Sussex, Mercer, Burlington, and Cape May Counties (*Butterflies of NJ*). The Wanders reported that there were four colonies known in Sussex and the Suttons reported three colonies in Cumberland and Salem. The Rutgers Univ. entomologic collection included a 1910 specimen from Rutherford/Carlstadt (Bergen) and a 1948 specimen from Chatham (Morris), suggesting that the species had been previously more widespread. J. Glassberg reported that the species was declining over much of the north, while H. Pavulaan indicated that there were still good populations on the DelMarVa Peninsula.

The weakening of New Jersey's wetland protection laws under the conservative but not conservation-minded administration in the 1990s, gave us little optimism regarding this species, and indeed it went unrecorded in nNJ for a decade. Things were hardly better in sNJ New Jersey, P.Sutton reported that Bronze Coppers had been seen as ones or twos on the Belleplain 4th of July Count in 1993, 1994, 1995 and 2001 and on other dates in 1997, and noted a Higbee Beach observation in 1991. These records ran from June 24th through Sept 22nd, consistent with two broods (6/L and Sept), which unfortunately doesn't correspond well with the 4JCs. Thus except for a single 2001 record the species was unrecorded from New Jersey from 1997 through 2006.

The South Jersey Bronze Copper observation elicited substantial comment.

By Pat Sutton (Sept 27th 2007)

Teresa Knipper, BJ Pinnock, & I had an AMAZING find at the Cape May Point State Park 9/27/07 (Thursday), around Noon: A male Bronze Copper nectaring on Saltmarsh Fleabane on the edge of Bunker Pond, the pond visible from the Hawkwatch Platform. This butterfly is Endangered in NJ.

D. Wright: (lead author of the *Checklist of Butterflies of Cape May County, NJ*) wrote "That is amazing. There are known colonies in Salem and Cumberland, but none that I am aware of that far south on the peninsula. I have found females many miles from the nearest known colony or wetland habitat, but never a male. The species as a whole is doing pretty well in Pennsylvania this year with many new sightings and a few new county records. In New Jersey I

suspect the butterfly is expanding its range along Delaware Bay.

D. Schweitzer added: Bronze Copper butterfly is a good colonist and populations come and go normally. Unfortunately in NJ colonization is not keeping up with losses. The spread of Phragmites has probably had a lot to do with its decline here in southern NJ.

New Harvester Colony in Brookside, Morris County

by Alice J. Koster

Walking by myself a mile from my Brookside home on May 23, 2007 I spotted a butterfly landing on a Beech tree. The trail is part of Patriots' Path in the Dismal Harmony Natural Area, Mendham Township, Morris Co.. I identified it as a Harvester. Sharing my discovery was delayed as six friends tried a few days later and found no Harvester. Chris Williams said, "Alice, we believe you, but where's the picture?" The following Tuesday Fred Kahan found one in the same location and documented it with an excellent slideshow; Tom Halliwell followed with a good picture on May 30. As the summer progressed we had sightings during May 23-June 5, July 22-Aug 13 and Sept 1-Oct 8. It remains unclear whether there were overlaps or if we had seen three broods.

Observations proved illuminating. The Harvester (*Feniseca tarquinius*) is very localized. It does not nectar on flowers. It was often seen basking on the Beech tree leaves or on a Witch Hazel in the sunlit glen. It also would also get sap from a Maple. Most of the time it was zipping around like a whirlwind. As the season progressed, the sightings occurred earlier in the day, corresponding to the orientation of the glen to the sun. Most of the early sightings were 1 or 2, but by Sept 3 or 4 were seen. On Labor Day Jenny Harrington and I saw 4 in the usual spot and 3 more upstream.

The Harvester caterpillar is carnivorous and eats Woolly Aphids that infest several tree species including Beech. Four different locations of aphids were found at Brookside. Since the area has many Beech trees, there are probably many more aphid sites to search. I was delighted to share my finding of a new site with several of the NABA members. I'll return early spring to anticipate this elusive butterfly!

EDITOR'S NOTE: In addition to Beech, the Harvester feeds on Woolly Aphids (*Schizoneura*, *Pemphigus* and *Prosophila*) on Alder and Ash, and David Iftner reported them associated with Winterberry (*Ilex verticillata*) and Balsam-Apple (*Echinostyis lobata*), while L. Kudzma suggested they might be associated with Tulip Tree at Annandale. The colony discovered by P. and C. Williams in 2006 along the Delaware-Raritan Canal in Somerset, is apparently associated with Alder. We found 6 there on 8/24/07. The well-known Scherman-Hoffman Sanctuary population was not reported until the new late 10/20 report by L. Gangi. M.Gochfeld

Southern New Jersey Highlights (2007)

by Pat Sutton

Giant Swallowtails in Western New York

by Robert Dirig (Cornell)

On Aug. 26, 2007, I visited the Rochester area in Monroe Co., N.Y., to view abundant Giant Swallowtail eggs, larvae, and adults in the wild, through the courtesy of members of the Rochester Butterfly Club. The huge yellow-and-brown butterflies sailed gracefully about, usually along fencerows and forest edges, stopping occasionally to oviposit and take nectar at flowers. The eggs are globular, yellow to rusty-red, about 1 mm in diameter, and laid on the top of leaflets. Seeing these caterpillars in nature was delightful and instructive: They are wonderful bird dropping mimics that rest in plain sight on the top of foodplant leaflets, with a subtle silk mat alongside, sometimes several larvae on one shrub, and usually on smaller bushes growing in dappled shade. They grow from 5 mm to 5 cm long, the last instar being quite striking indeed. If disturbed, long red osmeteria shoot out from behind the head, emitting a fruity pungence.

Two native plants serve as larval foodplants Prickly Ash (*Zanthoxylum americanum*) and rarer Hop Tree or Wafer Ash (*Ptelea trifoliata*), both in the rue family (Rutaceae), which also includes citrus. Both plants favor soils high in lime. Cultivated shrubs of the same family, like Fraxinella or Gas Plant (*Dictamnus albus*), may also occasionally host larvae.

I followed up the thrill of seeing these butterflies near Rochester (where I was told they have been regular residents since summer 2005), by searching in Tompkins Co. near Ithaca, where there had been several reports of adults. On Sept. 1st and 2nd I found larvae on Prickly Ash in three places, proving their colonization in this county as well. One small population of naturalized Hop Trees did not reveal any larvae or eggs, but it is on top of a gorge cliff, and perhaps female Giants would follow the base of the canyon from the Cayuga Lake shore to seek foodplants? I also saw two adults on Sept. 2nd, a fresh male patrolling, and a worn, somewhat ragged female nectaring at Joe Pye Weeds. Finding fresh Giants in the Finger Lakes next spring would suggest their successful overwintering.

At the New York State Fair in Syracuse, I also found two Giant Swallowtail specimens in 4-H entomology collections from Genesee County, N.Y., both very ragged, collected on 30 Aug. 2006 and 21 May 2007. This adds to the growing record of localities for this special southern visitor -- and is an illustration of the important contributions that teen entomologists can make.

ED: NOTE: It sounds like careful checking of Prickly Ash in NW NJ might be fruitful.

A Highlight was the Bronze Copper (9/27) (see article above). The nearest semi-active colony that I know of is 30 miles north of Cape May Point along the Maurice River in Cumberland. The Army Corps of Engineer's marsh restoration project in Cape May Point State Park and The Nature Conservancy's Cape May Migratory Bird Refuge (completed in 2006 and 2007) resulted in a profusion of wetland wildflowers where Phragmites had formerly prevailed.

It was an excellent spring for Red-banded and Hessel's Hairstreaks in South Jersey. On 5/21 we tallied 75-100 Red-banded along in Dennisville, New Jersey (Cape May Co.), many of which were nectaring on Wild Black Cherry blossoms. W.Kerling & I saw 7-8 Hessel's nectaring at Sand Myrtle on Rt. 72 in the Pine Barrens on May 7, 2007. This was the same day a National Guard F-16 dropped flares at the Warren Grove bombing range which set a fire that spread across much of the Pine Barrens, including this site. Jack Connor saw Hessel's at the Franklin Parker Preserve (Chatsworth) 5/10, Michael O'Brien & Louise Zemaitis saw 4-5 individuals on Old Robbins Trail (in Belleplain State Forest off Jakes Landing Road) on May 20.

In addition, two 2nd brood Hessel's Hairstreaks were discovered in South Jersey: 7/19 on Belleplain, 4JC, by Will Kerling in Karen & Brian Johnson's butterfly garden in Eldora (not far from the White Cedar area on Old Robbins Trail), also a known location for Hessel's Hairstreaks in spring, and one was photographed 7/31 on the Cumberland 4JC, by Sandra Keller in the Millville WMA on Rt. 555 at the Buckshutem Creek crossing (a known location for Hessel's Hairstreak in spring).

On May 20, 2007, M. O'Brien and L. Zemaitis discovered a Common Roadside Skipper at Dennisville, only the second sighting of the species in Cape May County (the first record was 5/18/1997 at the same location).

Anise Swallowtail Report from Southern NJ

by Caroline McCann (abridged from her email 8/8/2007)

I live in Barrington, NJ. We do rear butterflies.... We planted parsley plants from Home Depot.... They sat outside for a few days. I found several swallowtail caterpillars.... When the butterflies emerged... I had 2 Black Swallowtails and 2 Anise Swallowtails. I bought more parsley.... I caught an adult on my Butterfly bush, it was an Anise and it... gave us eggs! We raised two caterpillars.... one emerged, it was an Anise. I don't know if the parsley brought the Anise Swallowtail to the Butterfly bush or vice-versa.

ED:NOTE There is negligible likelihood of unassisted colonization of NJ by Anise Swallowtail, but it is obviously worth knowing about this report (still awaiting photo documentation).

Cape May & Salem 2007

by Will Kerling

2007 was a great year for southern emigrants in Cape May County! It was also a year of sunshine. I recorded a butterflies on 248 days during the year. Cloudless Sulphurs occur annually arriving from the south in late summer, but numbers vary dramatically from year to year. They came through in good numbers in 2007, but were not as numerous as in 2006. I didn't see or hear reports of Little Yellow. Sleepy Orange is recorded almost annually and I saw three of them on a Sept 2 trip to Salem County with the Dowdells and Pat Sutton.

There were almost daily occurrences of Long-tailed Skippers at the Cape May Bird Observatory gardens in Goshen or at Cape May Point from mid-August through late-October. It was also a great year for Common Checkered-Skipper with a first report from the Rea farm (West Cape May) on May 17th, into November, with up to

10 per day, and the last record a fresh male at Rea Farm on Nov. 27th.

Another South Jersey specialty is Clouded Skipper recorded at several locations from Aug 9th to Nov 1st at Avalaon, Woodbine, and Goshen. Fiery Skippers appeared in mid-August and were unusually numerous on some days with several dozen recorded. Ocola Skippers were also seen on several occasions from mid-Sept to mid-Oct at Cape May Point and Goshen, but numbers were actually lower than in some recent years.

On July 20, I photographed a Dion Skipper along Route 83 next to the crossing power line. This was much brighter than the Sussex County ones seen during their NABA Count. David Wright thinks we may have a different subspecies.

Red Admirals have invaded Wisconsin:

Fond Du Lac Reporter June 28 2007

By Colleen Kottke ckottke@fdlreporter.com

An abundance of butterflies has a lot of Wisconsin residents scratching their heads and picking the gossamer-winged beauties off the grills of their vehicles.... The population explosion of the Red Admiral butterfly is attracting attention among local and state experts as well.... "The eruption is really bizarre," said Bill Volkert,... "I really don't have an explanation for it." However, Phil Pelliteri,... the University of Wisconsin Extension *etymologist*: "We initially thought it was a new insect feeding on the nettle when in fact it was the caterpillar of the Red Admiral butterfly. So I was expecting this," said Pelliteri. "For whatever reasons, the parasites and diseases that normally

keep the population in check have not had the impact they normally do. They're out of sync right now, but over time, things will come back into a normal balance." While exploring the back roads... *former botanist* Mike Reese... has noticed the surges in the Red Admiral population. "One gentleman told me that there were so many flying around by his garage door that he couldn't close it. Apparently, the sensor was so sensitive that the multitude of Red Admirals flying around triggered the door to stop while it was closing one day,"

EDITOR'S NOTE: The *italics* are mine. Aside from wondering why they asked an "etymologist" or how someone becomes a "former botanist", it was challenging to imagine butterflies so dense that they interfered with the garage door sensor.---M Gochfeld

BUTTERFLY SITES IN NJ

A valuable and under-utilized resources on the NABA-North Jersey web page are the directions and checklists for many different NJ butterfly sites. This is not consistently updated, and it is apparent that there are many wonderful areas for which documentation has not been provided. Here is the list of site information accessible as of February 23, 2008. If your favorite site isn't on the list, contribute a write-up, using the existing write-ups for the format, and send to springer@naba.org.

Bergen County: Celery Farm & DeKorte State Park

Essex County: Mills Reservation

Middlesex County: none listed

Hunterdon County: none listed

Monmouth County: Pocity Park, Sandy Hook

Morris County: Great Swamp NWR, Mountside Park

Ocean County: Chatsworth, Colliers Mills, Lakehurst

Somerset County: Sherman-Hoffman

Sussex County: High Point State Park, Kittatinny Valley State Park, Swartwood State Park, Wawayanda State Park, Whittingham WMA

Warren County: White Lake, Yards Creek

Mercer County 4JC Summary for 2007

by Frank Bader

The Fifth Annual Mercer Butterfly Count, sponsored by the Washington Crossing Audubon Society was held on July 8, in hot, clear weather. My thanks to the 15 participants who tallied 36 species, compared to 40, 41, and 40 species in the prior three years. The 1235 individuals was our lowest ever. The reason for the low numbers is unclear, although the weather was very good for butterflies (although a little hot for the watchers). There was some speculation that high levels of Gypsy Moth spraying may have been the cause,

but no proof. New for the count was Cloudless Sulfur. Many butterflies previously seen on the count were missed. The *Satyrrium* Hairstreak numbers were particularly low, and new lows were set for Cabbage White, Summer Azure, Mourning Cloak, Silver-spotted Skipper, Common Sootywing (scarce throughout NJ this year), and the three dark "witches": N Broken Dash, Little Glassy Wing and Dun Skipper. The only new highs were 44 Red Admirals, 5 Viceroy's, and 6 Horace Duskywings.

Raritan 4JC

Michael Gochfeld

The Raritan Count extending from the Raritan River in Somerset south to Princeton, covers parts of Somerset and Middlesex Counties. (the circle extends into Mercer County, but that part of the circle has not been covered in many years). 2007 marked the 19th year for this count. New or tied high counts included E. Tiger Swallowtail (149), Spicebush Swallowtail (35, previous high 20), Cabbage White (2385), E. Tailed Blue (162), Monarch (176), Horace Duskywing (13), Southern Cloudywing (2, only 2nd record), Peck's Skipper (105, previous high 36), Tawny-edged

Skipper (37, only singles previously), Sachem (243, previous high 116, not recorded in first 11 years), yielding the highest ever total individual count (although subtracting Cabbage White, yielded a more "average" individual count. The species count (45) was second highest and for the second year in a row, no new species were added. At the low end: Pearl Crescent (97) was almost the lowest ever, while Question Mark was missed for the first time in 19 years.

New York State Butterfly

NY School children voted for the "Red-spotted Purple or White Admiral" as the state butterfly narrowly edging out the Karner Blue, with Black Swallowtail, Milbert's Tortoiseshell and Mourning Cloak far behind. The photograph accompanying the news story shows a White Admiral (also known as Banded Purple).

New Jersey designated the Honey Bee as its "State Bug" in 1974. As far as I can tell from the following web site [http://www.netstate.com/states/tables/state_butterflies.htm]

only half the states have designated a State Butterfly, and NJ is not among them. 17 of 25 states have either the Monarch or a Swallowtail. The NY survey looks rather idiosyncratic, only a few schools involved in the "voting". For NJ NABA needs to have its voice heard, before some well-meaning person pre-empts the designation. Surely we have suggestions. I'll start with Hessel's Hairstreak. [MG]

New Jersey Bibliography: IDENTIFICATION and DISTRIBUTION:

*Indicates the book uses all or almost all NABA names.

Brock, J.P. & K. Kaufman. 2003. Butterflies of North America. Hillstar Editions, Tucson, AZ.

*Cech, R. and G. Tudor. 2005. Butterflies of the East Coast. Princeton Univ Press, Princeton

*Glassberg, J. 1999. Butterflies through Binoculars, Boston to Washington. Oxford Univ. Press., New York.

*Gochfeld, M and Burger, J. 1997. Butterflies of New Jersey: A Guide to Their Status, Distribution, Conservation, and Appreciation. Rutgers University Press, New Brunswick,

*NABA. Checklist of North American Butterflies---2nd Edition. North American Butterfly Association. www.naba.org/order.html

Opler, P. A. 1998. A Field Guide to Eastern Butterflies. Houghton Mifflin Co., Boston.

Pyle, R. M. 1981. The Audubon Society Field Guide to North American Butterflies. Alfred A. Knopf. New York.

Scott, J. A. 1986. The Butterflies of North America, a Natural History and Field Guide. Stanford University Press

Monarch Winter Quarters in Jeopardy

March 7, 2008 NEW YORK TIMES

Loggers Invaded Butterfly Haven, Photos Show

By Andrew C. Revkin

Illegal loggers have chopped their way deep into unique forest reserves in a mountain range in central Mexico where millions of monarch butterflies from eastern North America roost for the winter, according to researchers who posted satellite photographs of the area on a NASA Web site.

Forests of Oyamel Fir trees in Michoacán and Mexico States have for thousands of years been a winter haven for the resplendent orange and black butterflies, the most famous "charismatic megafauna" of the insect world, said Lincoln P. Brower, a professor emeritus of biology at Sweet

Briar College in Virginia, who has studied the butterflies and their shrinking winter habitat for decades.

The images, posted online at earthobservatory.nasa.gov, show fresh clear-cutting in an area that held large butterfly colonies last year, as seen in aerial surveys, said Daniel Slayback, a NASA geographer.

"There are a number of sawmills around the area that are busy eating away at the forest," Dr. Slayback said. "These are organized groups that go in armed sometimes. This is wholesale clear-cutting."

2007 NABA-NORTH JERSEY Meetings and Field Trips

Meetings:

Jan. 2 "The Green Marvel vs. The Horrid Zale, The Sequel" moth program by Wade Wander

Feb. 6 "The Butterflies of the Choruh Valley--Turkey" by Ahmet Baytas

Mar. 6 "Name That Butterfly" by Marge Barrett

April 3 "Exotic Beauty: The People, Landscapes, and Butterflies of Mexico" by Jeff Glassberg

May 1 "Butterflies of Kenya" by Fred and Patti Pfeifer

June 5 "Canyonlands" by Wade and Sharon Wander

July--no program

August 7 "It's August--What Butterflies Are Left?" by Tom Halliwell

Sept. 4 "Black Hills of South Dakota". By Jeff Glassberg

Oct. 1 "Insect Pollinators: Backyard and Beyond" with Michael Pollock in conjunction with Guild of Natural Science Illustrators

Nov. 13 "Exploring New Dimensions in Nature Photography" by Fred Kahan

Dec. 4 Members' Night

2007 NABA-NORTH JERSEY Field Trips:

May 5 Sandy Hook

May 12 Pine Barrens

May 26 Wild Cat Ridge, Morris Co.

June 9 High Point State Park, Sussex Co.

June 23 Appalachian Trail Lands, Vernon, Sussex Co.

Aug. 12--Willowood Arboretum, Fairview Farms--Morris and Somerset County

Aug. 25 Walpack Area-Sussex County

Sept. 9-11 Cape May

The Pearly-Eye 2007 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 activities of the club and to provide an overview of the status of butterflies in northern New Jersey in 2007 (from Mercer and Monmouth counties north). Editor-Michael Gochfeld (54 Hollywood Avenue, Somerset, NJ 08873). gochfeld@ehsi.rutgers.edu

The Club meets on the first Tuesday of the month (except in July when there is usually no regular meeting and in November when it meets 2nd Tuesday) at 7:30 pm 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> (click on chapters).

The officers for 2007-2008 are:

Michael Pollock, president (michael.pollock@njudubon.org)

Joe Burgiel, vice-president (burgiel@alum.mit.edu)

Deedee Burnside, treasurer (deedeeburnside@optonline.net)

Alice Koster, secretary (ajkoster@aol.com)

See: <http://www.naba.org/chapters/nabani/boyear.html> for additional information and photographs of some 2007 butterflies.

Membership in the NABA-North Jersey Butterfly Club is included with annual membership in the North American Butterfly Association. (NABA Membership Services, 4 Delaware Road, Morristown, NJ 07960 or go to website: <http://www.naba.org> for further information

Web-based Resource on Endangered Pollinators

This is a valuable resource, not just for rare butterflies, but other pollinators as well.

http://www.xerces.org/Pollinator_Red_List/

The Lepidoptera page

http://www.xerces.org/Pollinator_Red_List/Table_Lepidoptera.htm

Lists the following NJ butterflies (and former NJ butterflies), each with a profile

Hessel's Hairstreak
Frosted Elfin
Northern Metalmark
Regal Fritillary
Mitchell's Satyr
Persius Duskywing
Arogos Skipper
Rare Skipper

4th of July Butterfly Counts - 2007

	S. Hook (6/28)	G. Swamp (6/30)	Allaire (7/7)	Springdale (7/7)	Mercer (7/8)	Wallkill (7/8)	Greenbrook (7/14)	Duke Farm (7/21)	Raritan (7/22)
Pipeline Swallowtail		2		1			8		
Black Swallowtail	1	7	32	13	49	23		9	56
Eastern Tiger Swallowtail	3	18	3	25	22	3	9	40	149
Spicebush Swallowtail	5	2	11	22	5	2	4	3	35
Cabbage White	314	1727	285	1493	345	576	98	568	2386
Clouded Sulphur	7	23	4	92	15	89		12	13
Orange Sulphur	88	221	130	207	82	108		80	80
Cloudless Sulphur					1				
American Copper	257		82	63		6			1
Coral Hairstreak	16	2	1	3					
Edwards' Hairstreak				1					
Banded Hairstreak		19	2	213	3	12	2	1	
Hickory Hairstreak		1		4		1			
Striped Hairstreak			1	15			1		1
Juniper Hairstreak				3					17
White M Hairstreak				10					
Gray Hairstreak	2	1	3	1	7				3
Red-banded Hairstreak	1	1	2					1	
Eastern Tailed-Blue	42	139	93	45	104	25		154	162
"Summer" Azure	8	11	2	8	8	1	1	1	8
Northern Metalmark				51					
American Snout	4								
Variegated Fritillary			2	4					1
Great Spangled Fritillary		168		503	35	60		4	12
Meadow Fritillary				15		3		6	2
Pearl Crescent	9	67	61	162	149	108		19	97
Baltimore Checkerspot		1		154		34			
Question Mark	9	8	1	12	5	9	1	2	
Eastern Comma		7		38	2	11	1	2	2
Compton Tortoiseshell				12					
Mourning Cloak	1	3		52		5		1	
Milbert's Tortoiseshell				1					
American Lady	8	18	38	216	7	11		4	23
Painted Lady		2							3
Red Admiral	212	79	137	316	44	223	15	50	9
Common Buckeye			3	1	1			1	1
"Red-spotted Purple"				22	6	1		13	7
Viceroy				1	5	2			6
Hackberry Emperor	4								
Tawny Emperor	1			21		1	1		
Northern Pearly-Eye		4		15		1			
Eyed Brown						2			
Appalachian Brown		27	6	63	2	7			2
Little Wood-Satyr	15	266	154	15	20	4	5	1	2
Common Ringlet						1			
Common Wood-Nymph		148	44	212	134	184		3	10
Monarch	3	28	48	136	43	60	2	45	176
Silver-spotted Skipper	47	76	27	118	8	13	3	5	40
Hoary Edge	5			9					
Southern Cloudywing	2		3						2
Northern Cloudywing				5					
Horace's Duskywing		3		1	6			5	13
Wild Indigo Duskywing		16	2	5	23			9	95
Common Checkered-Skipper						1			1
Common Sootywing				2	2	1			
Swarthy Skipper	2		4						
Least Skipper		372	15	107		114		2	66
European Skipper		40		14	13	7			
Fiery Skipper				1		1			
Peck's Skipper		11							105
Tawny-edged Skipper	1	1			1			1	37
Crossline Skipper		2		4	1				1
Northern Broken-Dash	6	112	8	41	29	8		5	11
Little Glassywing	5	450	75	239	38	12			10
Sachem					4			2	243
Delaware Skipper		94	7	88	5	26			4
Mulberry Wing				10		1			13
Hobomok Skipper		9							
Zabulon Skipper		8		1					
Broad-winged Skipper	1			1		3		1	5
Dion Skipper		6		19		2			3
Black Dash		46	5	50		9			2
Dun Skipper	1	117	23	134	11	24	4	4	2
TOTAL SPECIES	31	44	34	59	36	44	15	32	45
TOTAL INDIVIDUALS	1080	4363	1314	5090	1235	1795	155	1054	3917