NJ Division of Fish and Wildlife Endangered and Nongame Species Program

Species Status Review of Lepidoptera (Butterflies): Final Report

Report Presented to the NJ Endangered and Nongame Species Advisory Committee on January 21, 2015 With Recommendations for Action

> Prepared by: Endangered and Nongame Species Program New Jersey Division of Fish and Wildlife Trenton, NJ January 2015



Executive Summary

- Project Manager for this status review was Melanie Mason, Endangered and Nongame Species Program.
- The statuses of 51 butterfly species were reviewed using the Delphi Technique. Due to the considerable number of resident butterfly species in NJ, the original 46 species on the list under assessment were derived from a variety of sources and presented to ENSAC where they were approved at the November 2013 meeting. Sources used to assemble the species list included one or more of the following: regional SGCN lists, NatureServe "S Ranks" and "G Ranks" and current listing statuses in NJ and in neighboring regions, as well as consultations with experts in the field of NJ butterfly distribution and life histories. The remaining 5 species were added following Round one's call for species additions by panelists.
- Seven reviewers participated during the entire assessment. Eight reviewers were originally solicited for the panel, but one dropped out before completing the first round. Reviewers included experts from the Division of Fish & Wildlife (Endangered and Nongame Species Program [ENSP]), Stockton College, The Nature Conservancy, Philadelphia Academy of Sciences, and private consultants with butterfly expertise.
- Reviewers were provided information pertaining to the species under review. Distributed materials included: New Jersey distributions maps (pre-1970 to current) by ENSP for species for which there was locational data in the Biotics database, NatureServe distribution data (G and S ranks), federal listing and nearby states' listings (if applicable), IUCN Red List status, Xerces Red List status and ENSP-endorsed survey data, as well as survey data from panelists. Information was sent electronically to each panelist via email with care taken to protect the identities of the panelists.
- Round 1 began on January 13, 2014, and Round 4, the final round, was completed on November 17, 2014. Initial results information is presented in tables 1 and 2.
- 85% (six out of seven) consensus was achieved on 39 of 51 species and 83% (five out of six) consensus was achieved on one species (Table 3).
 - Seven species were voted Secure/Stable.
 - Eight species were voted Special Concern.
 - Four species were voted Threatened.
 - Five species were voted Endangered.
 - Fifteen species were determined to be Not Applicable.
 - Twelve species remained unresolved after four rounds.
- ENSP biologists reviewed all results and made status recommendations as presented in tables 4 and 5 (and Appendix I) prior to the ENSAC review. The ENSAC considered tables 3, 4 and 5, the reviewers' comments, and ENSP comments, at their January 2015 meeting.
- The ENSAC made status recommendations as presented in Table 6. Their recommendations were recorded in the final minutes of their January 21, 2015 meeting.

Table 1. Overall Species Status Changes.

Change Summary	
New Species Added to List	8
Species Removed/Delisted	3
Species Uplisted (e.g. SC to E)	5
Species Downlisted (e.g. E to SC)	0
No Consensus	12
Species Assessed but not listed	19
No change	4
Total	51

Table 2. Consensus Per Round

_

Round Summary				
Round # # Consensu				
1	1			
2	26			
3	4			
4	8			
No Consensus	12			
Total Species	51			

Results after 4 rounds, Butterflies (Order Lepidoptera):

Table 3. Scientific and common names of all assessed species, their previous status in NJ (if any), their status change (if any), and round consensus was reached (if any). Species that did not reach an 85% (or 83% in one case) consensus are blank in the "Consensus Reached Round #" column as well as indicated "No Consensus" under consensus status.

			Consensus	
Scientific Name	Common Name	Current NJ Status	Reached Round #	Consensus Status
Amblyscirtes hegon	Pepper and Salt Skipper	Undetermined	Kouliu #	No Consensus
Amorysentes negon	Common Roadside	Ondetermined		
Amblyscirtes vialis	Skipper	Undetermined		No Consensus
Anthocharis midea	Falcate Orangetip	Undetermined	3	Stable/Secure
Atlides halesus	Great Purple Hairstreak	Undetermined	2	Not Applicable
Atrytone arogos	Arogos Skipper	Endangered	1	Endangered
Atrytonopsis hiana	Dusted Skipper	Undetermined	4	Special Concern
Autochton cellus	Golden Banded Skipper	Undetermined	2	Not Applicable
Boloria selene	Silver-bordered Fritillary	Threatened	2	Endangered
Calephelis borealis	Northern Metalmark	Special Concern	2	Endangered
Callophrys hesseli	Hessel's Hairstreak	Special Concern	4	Special Concern
Callophrys irus	Frosted Elfin	Threatened	2	Threatened
Callophrys polios	Hoary Elfin	Special Concern	4	Threatened
Carterocephalus				
palaemon	Arctic Skipper	Undetermined	3	Not Applicable
Celastrina neglectamajor	Appalachian Azure	Undetermined		No Consensus
Chlosyne harrisii	Harris' Checkerspot	Special Concern	2	Not Applicable
Chlosyne nycteis	Silvery Checkerspot	Undetermined	2	Not Applicable
Danaus plexippus	Monarch	Undetermined	2	Special Concern
Erora laeta	Early Hairstreak	Undetermined	2	Not Applicable
Erynnis brizo	Sleepy Duskywing	Undetermined	4	Special Concern
Erynnis lucilius	Columbine Duskywing	Undetermined	2	Not Applicable
Erynnis martialis	Mottled Duskywing	Undetermined	2	Not Applicable
Erynnis persius	Persius Duskywing	Undetermined	2	Not Applicable
Euphydryas phaeton	Baltimore Checkerspot	Undetermined	2	Special Concern
Euphyes bimacula	Two-spotted Skipper	Special Concern	4	Threatened
Euphyes dion	Dion Skipper	Undetermined	2	Stable/Secure
Fenisica tarquinius	Harvester	Undetermined	4	Stable/Secure
Hesperia attalus	Dotted Skipper	Special Concern		No Consensus
Hesperia leonardus	Leonard's Skipper	Special Concern		No Consensus
Lycaena epixanthe	Bog Copper	Undetermined	2	Stable/Secure
Lycaena hyllus	Bronze Copper	Endangered	2	Endangered
Neonympha helicta	Georgia (Helicta) Satyr	Special Concern	3	Threatened
Neonympha m. mitchellii	Mitchell's Satyr	Endangered	2	Not Applicable

			Consensus	
Scientific Name	Common Name	Current NJ Status	Reached Round #	Consensus Status
Nymphalis milberti	Milbert's Tortoiseshell	Undetermined	4	Not Applicable
Nymphalis vaualbum	Compton Tortoiseshell	Undetermined	2	Special Concern
Papilio cresphontes	Giant Swallowtail	Undetermined	3	Stable/Secure
Parrhasius m-album	White-M Hairstreak	Undetermined	2	Secure/Stable
Pieris oleracea	Mustard (Eastern veined) White	Undetermined	2	Not Applicable
Pieris virginiensis	West Virginia White	Undetermined	2	Not Applicable
Polygonia progne	Gray Comma	Undetermined		No Consensus
Pontia protodice	Checkered White	Threatened		No Consensus
Problema bulenta	Rare Skipper	Undetermined		No Consensus
Pyrgus centaureae	Appalachian Grizzled			
wyandot	Skipper	Endangered	2	Not Applicable
Satyrium acadica	Acadian Hairstreak	Undetermined	2	Endangered
Satyrium caryaevorus	Hickory Hairstreak	Undetermined	4	Special Concern
Satyrium edwardsii	Edwards' Hairstreak	Undetermined		No Consensus
Satyrium favonius ontario	Northern Oak Hairstreak	Undetermined		No Consensus
Satyrium titus	Coral Hairstreak	Undetermined		No Consensus
Satyrodes eurydice	Eyed Brown	Undetermined	2	Special Concern
Speyeria aphrodite	Aphrodite Fritillary	Undetermined		No Consensus
Speyeria idalia	Regal Fritillary	Undetermined	2	Not Applicable
Staphylus hayhurstii	Hayhurst's Scallopwing	Undetermined	2	Stable/Secure

Table 4. Species for which 85% consensus was not reached, with recommended status proposed by ENSP.

									ENSP
									Recommended
Scientific Name	Common Name	Previous Status		Delpl	ni Pan	elists	' Vote	es	Status
			E	т	sc	s	U	NA	
Celastrina	Appalachian					2	2		Undetermined-
neglectamajor	Azure	Undetermined				3	3		Unknown
Amblyscirtes hegon	Pepper and Salt Skipper	Undetermined	2	4	1				Threatened
Amblyscirtes vialis	Common Roadside Skipper	Undetermined	1	5	1				Threatened
Hesperia attalus	Dotted Skipper	Special Concern	1	5	1				Threatened
Hesperia leonardus	Leonard's Skipper	Special Concern	2	5					Threatened
Polygonia progne	Gray Comma	Undetermined		5	1		1		Threatened
Pontia protodice	Checkered White	Threatened		1			2	4	Special Concern
Problema bulenta	Rare Skipper	Undetermined			2	5			Special Concern
Satyrium edwardsii	Edwards' Hairstreak	Undetermined			2	5			Secure-Stable
Satyrium favonius ontario	Northern Oak Hairstreak	Undetermined			5	2			Special Concern
Satyrium titus	Coral Hairstreak	Undetermined			2	5			Secure-Stable
	Aphrodite						4	2	Undetermined-
Speyeria aphrodite	Fritillary	Undetermined					4	2	Unknown

Table 5. Species for which consensus was reached for a status that differs from the ENSP recommendation.

			Delphi Consensus	ENSP Recommended
Scientific Name	Common Name	Previous Status	Status	Status
Chlosyne harrisii	Harris' Checkerspot	Special Concern	NA	Special Concern
Neonympha m. mitchellii	Mitchell's Satyr	Endangered	NA	Endangered
Pyrgus centaureae wyandot	Appalachian Grizzled Skipper	Endangered	NA	Endangered
Carterocephalus palaemon*	Arctic Skipper	Undetermined	NA	Undetermined- Unknown*
Chlosyne nycteis*	Silvery Checkerspot	Undetermined	NA	Undetermined- Unknown*
Erynnis lucilius*	Columbine Duskywing	Undetermined	NA	Undetermined- Unknown*

* ENSP suggest that the conservative approach is to maintain these species as "Undetermined-Unknown" rather than NA (Not Applicable/not found in the State) due to the potential for extant habitat and/or recolonization, based on the Delphi panelists' comments.

Table 6. Summary table used for the ENSAC review, organized by ENSP Recommended
Status, and including the ENSAC recommended adoptions.

Scientific Name	Common Name	Current Status	Delphi Consensus	ENSP Recommended Status	ENSAC Recommendation (adopted at 1/21/2015 meeting)
Delevis esteres	Silver-bordered	Ŧ	-	F	-
Boloria selene	Fritillary Northern	Т	E	E	E
Calephelis borealis	Metalmark	SC	E	Е	E
Lycaena hyllus	Bronze Copper	E	E	E	E
Atrytone arogos	Arogos Skipper	E	E	E	E
Neonympha m. mitchellii	Mitchell's Satyr	E	NA	E	E
Pyrgus centaureae wyandot	Appalachian Grizzled Skipper	E	NA	E	E
Satyrium acadica	Acadian Hairstreak	U	E	E	E
Amblyscirtes hegon	Pepper and Salt Skipper	U	none	т	т
Amblyscirtes vialis	Common Roadside Skipper	U	none	т	т
Callophrys irus	Frosted Elfin	Т	Т	Т	Т
Callophrys polios	Hoary Elfin	SC	Т	Т	Т
	Two-spotted				
Euphyes bimacula	Skipper	SC	Т	Т	Т
Hesperia attalus	Dotted Skipper	SC	none	Т	Т
Hesperia leonardus	Leonard's Skipper	SC	none	Т	Т
Neonympha helicta	Georgia (Helicta) Satyr	SC	т	т	т
Polygonia progne	Gray Comma	U	none	Т	Т
Atrytonopsis hiana	Dusted Skipper	U	SC	SC	SC
Callophrys hesseli	Hessel's Hairstreak	SC	SC	SC	SC
Chlosyne harrisii	Harris' Checkerspot	SC	NA	SC	SC
Danaus plexippus	Monarch	U	SC	SC	SC
Erynnis brizo	Sleepy Duskywing	U	SC	SC	SC
Euphydryas	Baltimore				
phaeton	Checkerspot	U	SC	SC	SC
Nymphalis	Compton				
vaualbum	Tortoiseshell	U	SC	SC	SC
Pontia protodice	Checkered White	Т	none	SC	Т
Problema bulenta	Rare Skipper	U	none	SC	SC
Satyrium caryaevorus	Hickory Hairstreak	U	SC	SC	SC

Scientific Name	Common Name	Current Status	Delphi Consensus	ENSP Recommended Status	ENSAC Recommendation (adopted at 1/21/2015 meeting)
Satyrium favonius	Northern Oak				
ontario	Hairstreak	U	none	SC	SC
Satyrodes eurydice	Eyed Brown	U	SC	SC	SC
Anthocharis midea	Falcate Orangetip	U	S	S	S
Euphyes dion	Dion Skipper	U	S	S	S
Fenisica tarquinius	Harvester	U	S	S	S
Lycaena epixanthe	Bog Copper	U	S	S	S
Papilio cresphontes	Giant Swallowtail	U	S	S	S
Parrhasius m-album	White-M Hairstreak	U	S	S	S
Satyrium edwardsii	Edwards' Hairstreak	U	none	S	S
Satyrium titus	Coral Hairstreak	U	none	S	S
Staphylus hayhurstii	Hayhurst's Scallopwing	U	S	S	S
Carterocephalus					
palaemon	Arctic Skipper	U	NA	U	U
Celastrina					
neglectamajor	Appalachian Azure	U	none	U	U
Chlosyne nycteis	Silvery Checkerspot	U	NA	U	U
Erynnis lucilius	Columbine Duskywing	U	NA	U	U
Speyeria aphrodite	Aphrodite Fritillary	U	none	U	U
Atlides halesus	Great Purple Hairstreak	U	NA	NA	NA
Autochton cellus	Golden Banded Skipper	U	NA	NA	NA
Erora laeta	Early Hairstreak	U	NA	NA	NA
Erynnis martialis	Mottled Duskywing	U	NA	NA	NA
Erynnis persius	Persius Duskywing	U	NA	NA	NA
Nymphalis milberti	Milbert's Tortoiseshell	U	NA	NA	NA
Pieris oleracea	Mustard (Eastern veined) White	U	NA	NA	NA
Pieris virginiensis	West Virginia White	U	NA	NA	NA
Speyeria idalia	Regal Fritillary	U	NA	NA	NA

Appendix I. Summary of Delphi Comments with Justifications for ENSP Recommendations:

Appalachian Azure: 3 Secure, 3 Unknown, 1 No Opinion. Secure argue that host plant is abundant and no real sign of decline or hard to ID so can't say for sure it's declining. U comments cite lack of info to assign any status (multitude of apparent sightings may be wrong), S or otherwise.

ENSP Recommendation: Unknown

The Azure complex of species is a problematic group of species to work with due to identification and taxonomic uncertainties related to how the species and sub-species should be classified. The panel was unable to come to consensus on the status of this species in NJ and the ENSP will recommend this species to be listed as having an unknown status until more data are available.

Pepper and Salt Skipper: 2 Endangered, 4 Threatened, 1 Special Concern. 'E' argue that High Point colony is resident and stable, food source not threatened but species is indirect beneficiary of reduced mowing; E status would provide needed recognition for proper mgt. 'T' argues only one strong colony and could be subject to mismanagement, restricted in NJ. 'SC' argues that no specific threat is identified so hard to justify a listing higher that SC (can't take immediate action), it is scarce and on the edge of range so may even be NA. ENSP Recommendation: Threatened

There is consensus to list (as E or T) this species from the Delphi review and ENSP recommends listing this species as Threatened based on the majority voting.

Common Roadside Skipper: 1 Endangered, 5 Threatened, 1 Special Concern. 'E' doesn't want to compromise on a disappearing species, don't know cause for decline and cannot develop "clear plan of action" but can only draw attention to it, something an E status could possibly do. 'T' argue that numbers are small, sporadic occurrences, moving to middle to try to compromise (at least 3 votes from E), habitat loss, not understood enough, state should protect. SC-reduced indigenous species but unknown threats, they form short-lived colonies and permanent which may explain "historic populations now lost," shouldn't list higher than SC until a plan of action can be developed.

ENSP Recommendation: Threatened

There is consensus to list this species from the Delphi review and ENSP recommends listing this species as Threatened based on the majority voting.

Dotted Skipper: 1 Endangered, 5 Threatened, 1 Special Concern. 'E' argues drastic range reduction, difficult or inconsistent finding them in remaining areas. 'T' argues only one reliable location with small numbers, uncommon and local but cannot ID reason for decline (habitat appears intact), hard to find, moving to middle to reach consensus. SC argues that small pop size is not enough evidence for imminent disappearance for a mobile butterfly that feeds on common plants but may be at risk due to poor land management.

ENSP Recommendation: Threatened

There is consensus to list this species from the Delphi review and ENSP recommends listing this species as Threatened based on the fact that the majority voting.

Leonard's Skipper: 2 Endangered, 5 Threatened. 'E' argues historic populations extirpated or declining significantly. 'T' argue sporadic sightings, habitat appears to be intact (despite decline in numbers), colonies persist despite low numbers, can't ID a specific threat, many moved from E to attempt to reach consensus.

ENSP Recommendation: Threatened

There is consensus to list this species from the Delphi review and ENSP recommends listing this species as Threatened based on the majority vote.

Mitchell's Satyr: This species reached a NA consensus during round 2 for the reason that it appears to be extirpated from NJ. However, this species is listed as Federally Endangered, which automatically gives it State endangered status.

ENSP recommendation: Endangered.

Gray Comma: 5 Threatened, 1 Special Concern, 1 Unknown. Threatened argues used to be more widespread, rarely reported, new colony may not be stable or should be listed and moving towards middle. SC argues not enough data to suggest T due to unsteady presence in state.

ENSP Recommendation: Threatened

The majority of the panelists (5 out of 7) were in favor of a Threatened status and 6 out of 7 recommended listing this species. ENSP recommends a Threatened status for this species.

Checkered White: 1 Threatened, 2 Unknown, 4 Not Applicable. Divided as to whether it is resident, etc.

ENSP Recommendation: Special Concern

This species generated a great deal of discussion and different opinions within the panel. It has been a resident species for some time with extensive historic records and a persistent population at the Newark Airport (a point of disagreement among some panelists). The establishment, eruption, and subsequent decline of a large population in southern New Jersey from 2011 through 2014 shows that this species is able to colonize and fully occupy suitable habitat when it becomes available. This also shows the complexity of dealing with eruptive species that utilize highly disturbed habitats (preferred habitats including landfills, airports, roadsides, fallow fields, etc.). Due to the species' current Threatened status and that this species is highly restricted within NJ after years of extensive declines, the ENSP recommends this species be categorized as Special Concern. **Rare Skipper**: 2 Special Concern, 5 Secure. SC argue population estimates it may not be stable due to anecdotal nature of population studies, sea level rise may be a threat, G2 status in NJ and rarity around NJ justifies listing despite possible security within state. Secure argue moving towards consensus, locally common, stable in NJ despite declines elsewhere, threats outlined are not imminent.

ENSP Recommendation: Special Concern

The majority (5 of 7) of the panelists voted for this species to be listed as apparently secure. The arguments for listing versus not listing were divided along the lines of the species' status in NJ versus range-wide. Within NJ, this species is reasonably secure and can generally be found in suitable habitat. The ENSP recommends that this species be listed as Special Concern due to the regional concern for this species and NJ's role in maintaining it.

Edwards' Hairstreak: 2 Special Concern, 5 Secure.

ENSP Recommendation: Secure-Stable

The majority (5 of 7) of the panelists voted for this species to be listed as apparently secure and the ENSP recommends it be listed as such until additional data are available to list otherwise.

Northern Oak Hairstreak: 5 Special Concern, 2 Secure. Some SC want higher ranks, secure votes argue that it is hard to ID so doesn't warrant listing.

ENSP Recommendation: Special Concern

The majority (5 of 7) of the panelists voted for this species to be listed as Special Concern and ENSP will recommend it be listed as Special Concern. By definition Special Concern species can include any species that warrants special attention because of some evidence of decline, inherent vulnerability to environmental deterioration, or habitat modification that would result in their becoming a Threatened species. This category would also be applied to species that meet the foregoing criteria and for which there is little understanding of their current population status in the state

Coral Hairstreak: 2 Special Concern, 5 Secure. No one wants to give.

ENSP Recommendation: Secure-Stable

The majority (5 of 7) of the panelists voted for this species to be listed as apparently secure and the ENSP recommends it be listed as such until additional data are available.

Aphrodite Fritillary: 4 Unknown, 2 Not Applicable, 1 No Opinion. Most arguments were difficult identifying, or unknown as to permanent residency. Consensus not to list. ENSP Recommendation: Unknown-Undetermined

The panel could not reach consensus on the status of this species in NJ and opinions leaned towards an unknown status in NJ. ENSP recommends this species to be listed as having an unknown status until additional data are available.

APPENDIX II

RESULTS OF ALL REVIEW ROUNDS

Rounds with Comments for Each Species

*Any species with an asterisk next to its "Proposed Status" indicates 100% consensus. Please note that while Mitchell's Satyr reached consensus for "Not Applicable: Extirpated", ENSP recommends that the current Federal status should be maintained.

SPECIES: Pepper and Salt Skipper (Amblyscirtes hegon)

NO Consensus Reached

Proposed status: Referred to ENSAC

Tally and Overall Certainty per Round

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Overall Certainty
Round 1	2	0	2	1	0	2	0	6.2
Round 2	2	0	4	0	1	0	0	Not Calc
Round 3	2	1	4	0	0	0	0	6.29
Round 4	2	4	1	0	0	0	0	6.14

Round 1

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	2	0	2	1	0	2	0	6.2

Justifications:

Tallied Votes:

Endangered	
Individual Certainty No	Notes
7 Or	Only two colonies (i.e., sites supporting more than one individual) are known.
	My understanding is that it is a rare species that has historically been rare in NJ and is potentially declining. My experience is limited with this skipper.
Average Certainty: 6	

Threatened NO VOTES

Special Concern	
Individual Certainty	Notes
7	Secure: Almost no records prior to the 1990s. Rare and very local in NW New Jersey. One reliable colony known, with numbers in most years in varying from a few to the low 20s, but apparently holding steady. A very few also reported from other locations.
5	Rare and local. Only significant population at High Point SP. Not clear if overall population is increasing or decreasing.
Average Certainty: 6	

Stable/Secure	
Individual Certainty	Notes
7	Apparently Secure. Very localized species in NJ that probably warrants greater attention.
Average Certainty:	
7	

Other	
Individual Certainty	Notes
Not indicated	No Opinion
Not indicated	No Opinion
Average Certainty:	
Not calculated	

Consensus (85%) Reached in Round 1? NO

Round 2

Tallied Votes	<u>s:</u>							
Status	Endangered	Threatened	Special	Secure	Unknown	No Opinion	Not	Certainty
			Concern			Opinion	Applicable	
Count	2	0	4	0	1	0	0	Not Calc

Endangered	% of Votes: 28.
ndividual Certainty	Notes
6	Not very familiar with this species but round 1 comments have convinced me to mark as endangered.

Average Certainty: Not Calculated

Threatened NO	VOTES
Special Concern	% of Votes: 57.1
Individual Certainty	Notes

7	One reliable colony known, with numbers in most years varying from a few to the low 20s, but apparently holding steady. A very few also reported from other locations.
5	Based on comments from other voters, moving vote from No Opinion.
6	Rare and local. Only significant population is at High Point SP but scattered reports elsewhere. Not clear if overall population is increasing or decreasing.
7	Same assessment as per Round 1 comments.
Average Certainty:	6.25
Stable/Secure	NO VOTES
Other	% of Votes: 14.3
Individual Certainty	Notes
4	Unknown: Lack of consensus points to need to determine whether this is a peripheral species or a truly indigenous species that is reduced to a remnant. Certainly two small populations points to E, but is there a specific threat that can be identified and managed? Scarcity alone, at the edge of the range, might make it NA.

Average Certainty: 4

Consensus (85%) Reached in Round 2? NO

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	2	1	4	0	0	0	0	6.29

Justifications:

Endangered	% of Votes: 28.6
Individual Certainty	Notes
8	What else to say? We know of only two sites that support multiple individuals. Just because one of these populations seems reasonably stable is no reason for complacency. Arctic Skipper has disappeared from this same location. High Point SP has been very receptive to management recommendations, but listing this species could help maintain their awareness—and caution with their mowing regime.
	Round 1 and 2 comments have convinced me to keep as endangered.
6	Panelist voting for threatened: "ONE reliable colony known" If there's only ONE known colony, shouldn't it be listed as endangered? This makes me vote for E that much more confident.
Average Certainty:	7
Threatened	% of Votes: 14.3
Individual Certainty	Notes
8	We have a majority in favor of listing but split. I am in favor of threatened as the middle of the road but I would put it somewhere between SC and T.
Average Certainty:	<u>8</u>
Special Concern	% of Votes: 57.1
Individual Certainty	Notes
6	Rare and local. Only significant population is at High Point SP but scattered reports elsewhere. Not clear if overall population is increasing or decreasing.
7	One reliable colony known in northern NJ, with numbers in most years varying from a few to the low 20s, but apparently holding steady. A very few also reported from other locations.
4	I would change to SC with the reservation that lack of consensus points to need to determine whether this is a peripheral species or a truly indigenous species that is reduced to a remnant. Certainly two small populations points to T or E, if there were specific threat that could be identified and managed. Scarcity alone, at the edge of the range, might make it NA.
5	I am keeping my vote as Special Concern, the category that drew 4 of the 7 votes last time. SJBF log has no data for this species, so basing vote mostly on comments of other panelists.
Average Certainty:	<u>5.5</u>
Stable/Secure	NO VOTES
Other	NO VOTES
	Consensus (85%) Reached in Round 3? NO

Round 4

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	2	4	1	0	0	0	0	6.14

Justifications:

Endangered	% of Votes: 28.6
Individual Certainty	Notes
8	The High Point colony has persisted since at least 1993, which certainly indicates that this species is established as a resident, and so deserves to be listed. Individuals there appear to be highly dependent on roadside Wild Geranium as a nectar source. This resource isn't immediately threatened, and park management has been cooperative in managing this roadside area for butterflies in general, but I believe that listing Pepper and Salt Skipper would be an important additional encouragement for management to continue resisting the universal maintenance imperative for mowing, mowing, and more mowing.
6	Sticking with Endangered. Maybe I could switch my vote to Threatened, but nothing lower than that has convinced me otherwise. Any citations?
Average Certainty:	7
Threatened	% of Votes: 57.1
Individual Certainty	Notes

Inreatened	% of votes: 57.1
Individual Certainty	Notes
6	With only one strong colony, this species is at least Threatened.
6	Moving my vote up to Threatened since even though there are reliably double digit numbers at the High Point SP colony, the site is vulnerable to mismanagement whether accidental or otherwise.
5	I am changing my vote to Threatened (from SC) based on comments from several panelists in Round 3.
8	Threatened: this species is very restricted in NJ and warrants a threatened status.
	Average Certainty: 6.25
Special Concern	% of Votes: 14.3
Individual Certainty	Notes
4	I hold to SC with the proviso that, if there were specific threat that could be identified and managed, two small populations points to T or E. It's pretty clear that there is not enough information to manage the species. E implies immediate action is required, but how can that be applied when we don't know what to do? Scarcity alone, at the edge of the range, might make it NA.
	Average Certainty: 4
Stable/Secure	NO VOTES
<u>Other</u>	NO VOTES
	Consensus (85%) Reached? NO
	Proposed Status: <u>Referred to ENSAC</u>
SPECIES: Commo	n Roadside Skipper (<i>Amblyscirtes vialis)</i>

NO Consensus Reached

Proposed status: <u>Refer to ENSAC</u>

Tally and Overall Certainty per Round

Status	Endangered	Threatened	Special	Secure	Unknown	No	Not	Overall
			Concern			Opinion	Applicable	Certainty
Round 1	2	0	3	1	0	1	0	5.83
Round 2	2	3	2	0	0	0	0	6
Round 3	2	4	1	0	0	0	0	Not Calc
Round 4	1	5	1	0	0	0	0	6.29

Round 1

Tallied Votes:

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	2	0	3	1	0	1	0	5.83

Justifications:

Individual Certainty	Notes
7	Only one consistent colony (of <5 individuals) is known in northern NJ.
7	Rare. Many historic populations have been extirpated. Need to find more populations and known ones should be monitored.
	Average Certainty: 7
Threatened <u>N</u>	NO VOTES
Special Concern	
ndividual Certainty	Notes
4	Perhaps more common in the past. Rare and very local now. Recently most reliable in suitable habitat on the Kittatinny Ridge in Warren County, but these areas are not well covered because of their more difficult access. Until recently, also at Dennisville in Cape May County, but not observed there since 2010. Other counties with past records are Sussex, Passaic, and Ocean.
5	Most reliable population found in Worthington SF in Warren County. Otherwise sporadic within the state.
	Based on the little data we have from SJBF Log, this species seems at best a "Species of Special Concern." Gochfeld and Burger note that is rare and sporadic. The log reflects that: we have compiled only 8 reports, all from a single site (the Dennisville Railroad Tracks), 6 of those from a single year (2008), and none in our three most recent years, when we had far more observers participating in our effort. Again, my Confidence
5	Level is low because I do not believe we know this species very well. I will be interested to hear the votes from participants in northern and central NJ. This seems an exceedingly rare resident in the southern half of the state. If others vote for Threatened (based on simple state-wide rarity), I would go along.
5	Level is low because I do not believe we know this species very well. I will be interested to hear the votes from participants in northern and central NJ. This seems an exceedingly rare resident in the southern half of the state.
-	Level is low because I do not believe we know this species very well. I will be interested to hear the votes from participants in northern and central NJ. This seems an exceedingly rare resident in the southern half of the state. If others vote for Threatened (based on simple state-wide rarity), I would go along.
Stable/Secure	Level is low because I do not believe we know this species very well. I will be interested to hear the votes from participants in northern and central NJ. This seems an exceedingly rare resident in the southern half of the state. If others vote for Threatened (based on simple state-wide rarity), I would go along. <u>Average Certainty: 4.67</u>
Stable/Secure	Level is low because I do not believe we know this species very well. I will be interested to hear the votes from participants in northern and central NJ. This seems an exceedingly rare resident in the southern half of the state. If others vote for Threatened (based on simple state-wide rarity), I would go along.
Stable/Secure	Level is low because I do not believe we know this species very well. I will be interested to hear the votes from participants in northern and central NJ. This seems an exceedingly rare resident in the southern half of the state. If others vote for Threatened (based on simple state-wide rarity), I would go along. <u>Average Certainty: 4.67</u>
Stable/Secure	Level is low because I do not believe we know this species very well. I will be interested to hear the votes from participants in northern and central NJ. This seems an exceedingly rare resident in the southern half of the state. If others vote for Threatened (based on simple state-wide rarity), I would go along. <u>Average Certainty: 4.67</u> Notes
Stable/Secure ndividual Certainty	Level is low because I do not believe we know this species very well. I will be interested to hear the votes from participants in northern and central NJ. This seems an exceedingly rare resident in the southern half of the state. If others vote for Threatened (based on simple state-wide rarity), I would go along. <u>Average Certainty: 4.67</u> Notes Apparently Secure. Very localized species in NJ.

Individual Certainty Notes

Average Certainty: Not calculated

Consensus (85%) Reached in Round 1? NO

Round 2

Status E	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	2	3	2	0	0	0	0	6
Justifications:								
Endangered					% (of Votes: 28.6		
Individual Certain	ty Notes							
8	See round	d 1 comments from	n panelists.					
8		iable colonies knov s). And South Jers			the Kittatinny rid	lge and both ve	ery small (< 5	
					Ave	erage Certainty	/: 8	
Threatened					% c	of Votes: 42.9		
Individual Certain	ity Notes							
3	Rare and locations.	very local. Other t	han the Kittatir	nny Ridge site	e(s?) in Warren (County, I know	of no recently re	liable
6	voters fro Project ha	ns an exceedingly m other areas in th as compiled only 8 ar (2008), and none	e state I am ch reports in six y	nanging my vo rears, all from	te from Special a single site (th	Concern to The Dennisville F	reatened. The SRR), 6 of those fr	SJBF om a
7	Same ass	essment as per R	ound 1 comme	nts.				
					Ave	erage Certainty	/: 5.33	
Special Concerr	n				% c	of Votes: 28.6		
Individual Certain	ity Notes							
4	there are lived color Can any t	ns to be a truly indi no threats specifie nies, as well as mo hreats be identified f consensus could	d. Not a habita ore permanent d and managed	t specialist (C ones, which r ነ? Scarcity ar	ech and Tudor 2 nay account for	2005) but seer the "historic po	ns like it forms sl pulations" now l	hort- ost.
6	Most relia	ble population fou	nd in Worthingt	on SF in War	ren County. Otł	herwise sporad	dic within the stat	ie.
					Ave	erage Certainty	<u>/: 5</u>	
Stable/Secure	NO VOTES							
Other	NO VOTES							

Consensus (85%) Reached in Round 2? NO

Status En	ndangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certaint
Count	2	4	1	0	0	0	0	Not Cal
ustifications:								
Endangered	/ Notes				%	of Votes: 28.6		
7	don't kno	y North Jersey colo w the reasons for it Ridge), but those s	s rarity or the s	pecific threat	s it faces (altho			we
	All round	1 & 2 comments fo	or endangered	AND threater	ied make me vo	ote for endange	red.	
8	Historic p	opulations in Camo	den and Ocean	county for S	NJ. Extirpated r	NOW.		
					Av	erage Certainty	<u>/: 7.5</u>	
hreatened					%	of Votes: 57.1		
ndividual Certainty	/ Notes							
4		very local. Two or I reports from south				atinny Ridge in	Warren County.	
6	Populatio	n found in Worthin	gton SF in War	ren County is	s very small. Ot	herwise sporad	dic within the state	е.
8	We have	consensus to list a	nd threatened	is the middle.				
Not Indicated		nd: 2 for E, 3 for T, m SJBF log last Ro		ı keeping my	vote at T which	seems the cor	npromise vote. D	Data
					Av	erage Certainty	: Not Calculate	<u>d</u>
Special Concern					%	of Votes: 14.3		
ndividual Certainty	/ Notes							
3	there are more per believe th decline a	ns to be a truly indi no threats specifie manent ones, whic hat we have to know re grounds for SC. n be developed, an	d. Habitat is va h may account v specific threa It doesn't do m	ries througho for the "histo ts that can be uch good to l	out range, and it ric populations" e identified and ist a lot of speci	forms short-liv now lost. Befo managed. Sca	ed colonies, as w re going to T or E rcity and apparen	vell as 5, I it
					Av	erage Certainty	<u>/: 3</u>	
Stable/Secure	NO VOTES							
Other	NO VOTES							

	langered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	1	5	1	0	0	0	0	6.29
ustifications:								
Indangered					% c	f Votes: 14.3		
ndividual Certainty	Notes							
7	such spec action" fo	go with the "middle" cies we do not knov r them except to bri ance of doing that.	w the cause(s) ing them to a le	of decline, ar	nd at the momen on that might ge	t we cannot de	evelop a "clear pl . An "E" listing m	an of
hreatened					% c	f Votes: 71.4		
ndividual Certainty	Notes							
6		very small number at least Threatene			ewer or even nor	ne in the rema	inder of the state	, this
6	Populatio	n found in Worthing	gton SF in War	ren County is	very small. Oth	erwise sporadi	c within the state	9.
8		my vote from Enda E. See previous R			et closer to the 8	5% consensus	s, though I still fe	el it
0		always threats to a		cies. All rang	es, even for con	mon species	has been drastic	ally
	reduced.	Habitat loss = threa	at.					
6	Threatene poorly-un	Habitat loss = threa ed: Keeping my vo derstood and vulne irn why it is so rare.	te for this statuerable species					
6 8	Threatene poorly-un late to lea	ed: Keeping my vo derstood and vulne	te for this statuerable species t	that the state	should be worki	ng to protect.	It could soon be	
-	Threatene poorly-un late to lea	ed: Keeping my vo derstood and vulne arn why it is so rare.	te for this statuerable species t	that the state	should be worki	ng to protect.	It could soon be ed status.	
-	Threatene poorly-un late to lea	ed: Keeping my vo derstood and vulne arn why it is so rare.	te for this statuerable species t	that the state	should be worki probably warrant <u>Ave</u>	ng to protect. s an endanger	It could soon be ed status. <u>: 6.8</u>	
8	Threatene poorly-un late to lea	ed: Keeping my vo derstood and vulne arn why it is so rare.	te for this statuerable species t	that the state	should be worki probably warrant <u>Ave</u>	ng to protect. s an endanger <u>rage Certaint</u> y	It could soon be ed status. <u>: 6.8</u>	
8 Special Concern	Threatene poorly-un- late to lea Threatene Notes This seen there are more perr believe th decline ar unless a o roadside	ed: Keeping my vo derstood and vulne arn why it is so rare.	te for this statuerable species is declined sign species declined sign genous specie d. Habitat varie h may account v specific threat It doesn't do m can be develo ppression may	that the state ificantly and p is that is reduct the sthroughout for the "histo ts that can be uch good to l ped, and in th	should be worki probably warrant <u>Ave</u> % c ced, but the reas range, and it for ric populations" i e identified and r ist a lot of specie is case that see	ng to protect. s an endanger rage Certainty f Votes: 14.3 ons for its rari ms short-lived now lost. Befor nanaged. Scar es as T or E, a ms unlikely. M	It could soon be ed status. <u>6.8</u> ty remain unclea colonies, as well e going to T or E city and apparer nd it may do han y guess is that	too r and l as <u>E, l</u> nt m,
8 Special Concern ndividual Certainty	Threatene poorly-un- late to lea Threatene Notes This seen there are more perr believe th decline ar unless a o roadside	ed: Keeping my vo derstood and vulne im why it is so rare. ed: this species has no this species has no threats specifie manent ones, which iat we have to know re grounds for SC. clear plan of action mowing and fire su	te for this statuerable species is declined sign species declined sign genous specie d. Habitat varie h may account v specific threat It doesn't do m can be develo ppression may	that the state ificantly and p is that is reduct the sthroughout for the "histo ts that can be uch good to l ped, and in th	should be worki probably warrant <u>Ave</u> % c ced, but the reas range, and it for ric populations" r e identified and r ist a lot of specie is case that see tors, possibly alo	ng to protect. s an endanger rage Certainty f Votes: 14.3 ons for its rari ms short-lived now lost. Befor nanaged. Scar es as T or E, a ms unlikely. M	It could soon be red status. <u>c</u> 6.8 ty remain unclea colonies, as welly colonies, as welly colonies, as welly colonies, as welly colonies, as welly colonies, as welly colonies, as welly to a colonies, as the colonies, as the colonies, to a colonies, as the colonies, as the colonies, the colonies, as the colonies, as the colonies, to a colonies, as the colonies, as the colonies, the colonies, as the colonies, as the colonies, as the colonies, the colonies, as the colonies, a	too r and l as <u>E, l</u> nt m,
8 Special Concern Individual Certainty 3	Threatene poorly-un- late to lea Threatene Notes This seen there are more perr believe th decline ar unless a o roadside	ed: Keeping my vo derstood and vulne im why it is so rare. ed: this species has no this species has no threats specifie manent ones, which iat we have to know re grounds for SC. clear plan of action mowing and fire su	te for this statuerable species is declined sign species declined sign genous specie d. Habitat varie h may account v specific threat It doesn't do m can be develo ppression may	that the state ificantly and p is that is reduct the sthroughout for the "histo ts that can be uch good to l ped, and in th	should be worki probably warrant <u>Ave</u> % c ced, but the reas range, and it for ric populations" r e identified and r ist a lot of specie is case that see tors, possibly alo	ng to protect. s an endanger rage Certainty f Votes: 14.3 ons for its rari ms short-lived now lost. Befor nanaged. Scau s as T or E, a ms unlikely. M ong with ORVs	It could soon be red status. <u>c</u> 6.8 ty remain unclea colonies, as welly colonies, as welly colonies, as welly colonies, as welly colonies, as welly colonies, as welly colonies, as welly to a colonies, as the colonies, as the colonies, to a colonies, as the colonies, as the colonies, the colonies, as the colonies, as the colonies, to a colonies, as the colonies, as the colonies, the colonies, as the colonies, as the colonies, as the colonies, the colonies, as the colonies, a	too r and l as <u>E, l</u> nt m,
8 Special Concern Individual Certainty 3 Stable/Secure	Threatene poorly-un- late to lea Threatene Notes This seen there are more perr believe th decline ar unless a o roadside i protect iso	ed: Keeping my vo derstood and vulne im why it is so rare. ed: this species has no this species has no threats specifie manent ones, which iat we have to know re grounds for SC. clear plan of action mowing and fire su	te for this statuerable species is declined sign species declined sign genous specie d. Habitat varie h may account v specific threat It doesn't do m can be develo ppression may	that the state ificantly and p is that is reduct the sthroughout for the "histo ts that can be uch good to l ped, and in th	should be worki probably warrant <u>Ave</u> % c ced, but the reas range, and it for ric populations" r e identified and r ist a lot of specie is case that see tors, possibly alo	ng to protect. s an endanger rage Certainty f Votes: 14.3 ons for its rari ms short-lived now lost. Befor nanaged. Scau s as T or E, a ms unlikely. M ong with ORVs	It could soon be red status. <u>c</u> 6.8 ty remain unclea colonies, as welly colonies, as welly colonies, as welly colonies, as welly colonies, as welly colonies, as welly colonies, as welly to a colonies, as the colonies, as the colonies, to a colonies, as the colonies, as the colonies, the colonies, as the colonies, as the colonies, to a colonies, as the colonies, as the colonies, the colonies, as the colonies, as the colonies, as the colonies, the colonies, as the colonies, a	too r and l as <u>E, l</u> nt m,
8 Special Concern Individual Certainty 3 Stable/Secure	Threatene poorly-un- late to lead Threatene Notes This seen there are more perr believe th decline ar unless a o roadside protect iso	ed: Keeping my vo derstood and vulne im why it is so rare. ed: this species has no threats specifie manent ones, which re grounds for SC. I clear plan of action mowing and fire su olated occurrences	te for this statuerable species is declined sign species declined sign genous specie d. Habitat varie h may account v specific threat It doesn't do m can be develo ppression may	that the state ificantly and p ificantly and p is that is reduc s throughout for the "histo ts that can be uch good to ped, and in th be major fac	should be worki probably warrant <u>Ave</u> % c ced, but the reas range, and it for ric populations" r e identified and r ist a lot of specie is case that see tors, possibly alo	ng to protect. s an endanger rage Certainty f Votes: 14.3 ons for its rari ms short-lived now lost. Befor nanaged. Scau s as T or E, a ms unlikely. M ong with ORVs	It could soon be red status. <u>c</u> 6.8 ty remain unclea colonies, as welly colonies, as welly colonies, as welly colonies, as welly colonies, as welly colonies, as welly colonies, as welly to a colonies, as the colonies, as the colonies, to a colonies, as the colonies, as the colonies, the colonies, as the colonies, as the colonies, to a colonies, as the colonies, as the colonies, the colonies, as the colonies, as the colonies, as the colonies, the colonies, as the colonies, a	too r and l as <u>E, l</u> nt m,

SPECIES: Falcate Orangetip

Anthocharis midea

Consensus reached in Round 3

Proposed status: Stable/Secure

Tally and Overall Certainty per Round

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Overall Certainty
Round 1								
Round 2	0	0	1	5	0	1	0	6.71
Round 3	0	0	1	6	0	0	0	7

Round 1

Species did not undergo first round assessment. Species added in Round 2 as per a panelist's request.

			Rou	nd 2				
Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	0	0	1	5	0	1	0	6.71
Justifications:								
Endangered	NO VOTES							
Threatened	NO VOTES							
Special Conce	ern				% (of Votes: 14.3		
Individual Cert	ainty Notes							
8		gh still can be four ry. Species prefer ecies.						
					Ave	erage Certainty	/: 8	
Stable/Secure	9				% (of Votes: 71.4		
Individual Cert	ainty Notes							
Individual Cert	Secure- D	oing well in Susse It is reasonable to					013 reported a go	ood
	Secure- D showing. Apparently flight perio Records/y reports/yea		ask whether of a Jersey this se counts seem to ow of 25 report y, if ever, nume	ems an uncor indicate "App s to a high of rous, howeve	ies really needs nmon but fairly arently Secure" 48; total reports r: individual co	s to be listed. reliable butterf (at least on th s for six years =	ily. Given the sho e Coastal Plain). = 210; average	ort
7	Secure- D showing. Apparently flight perio Records/y reports/yes single digit	It is reasonable to / Secure- In South d, the SJBF Log c ear range from a le ar = 35. It is rarely ts. Its status elsev / Secure- Uncomn	ask whether of Jersey this see counts seem to ow of 25 report y, if ever, nume where in the sta	r not this spec ems an uncor indicate "App is to a high of rrous, howeve ate may be dif	ies really needs nmon but fairly arently Secure" 48; total reports r: individual co ferent.	s to be listed. reliable butterf (at least on th s for six years = unts/records a	ily. Given the sho e Coastal Plain). = 210; average re almost always	ort in the
7 6	Secure- D showing. Apparently flight perio Records/y reports/yea single digit Apparently be mostly Apparently	It is reasonable to / Secure- In South d, the SJBF Log c ear range from a le ar = 35. It is rarely ts. Its status elsev / Secure- Uncomn	ask whether of a Jersey this se counts seem to ow of 25 report y, if ever, nume where in the sta non and local b ot seem to be a	r not this spec ems an uncor indicate "App s to a high of orous, howeve ate may be dif out found in bo	nmon but fairly arently Secure" 48; total reports r: individual co ferent. th north and so	s to be listed. reliable butterf (at least on th s for six years = unts/records a uth New Jerse	ly. Given the sho e Coastal Plain). = 210; average re almost always ey. Numbers app	ort in the ear to

Average Certainty: 6.6

					Ave	rage Certainty	<u>. 0.0</u>	
Other					% c	of Votes: 14.3	3	
Individual Certain	nty Notes							
6	No Opinio numbers.	on: Waiting to see v	what others ha	ve to say on t	his. Looks to be	fairly widespre	ead and in mode	rate
					Ave	rage Certainty	<u>/: 6</u>	
		Consen	sus (85%) Rea	ached in Roun	id 2? NO			
			Rou	und 3				
Tallied Votes:								
Status	Endangered	Threatened	Special	Secure	Unknown	No	Not	Certaint
Count	0	0	Concern 1	6	0	Opinion 0	Applicable 0	7
Justifications:								
Endangered	NO VOTES							
-								
Threatened	NO VOTES							
0	_				0/ -			
Special Concern Individual Certain					% C	of Votes: 14.3		
8	Even tho past cent Barren sp	ugh still can be fou ury. Species prefer pecies.	nd throughout	the state, indi habitats which	vidual numbers l n are threatened	nave dropped by developme	considerably with ent. Is NOT a cor	hin the re Pine
					Ave	rage Certainty	<u>/: 8</u>	
Stable/Secure					% c	of Votes: 85.7		
Individual Certain	nty Notes							
7	Secure: suggest r	Doing well at many no problems there.	locations in S	ussex and Wa	arren Counties.	The southern	NJ reports for 20	13
7	Secure in	North Jersey with	many sites rep	porting multipl	e individuals anr	ually.		
6	Apparent central N	ly Secure. Uncomi J.	mon and local	but widesprea	ad in both northe	rn and southe	rn NJ, very rare i	n
7	This spec	cies seems Secure	but I would sa	y that it shoul	d be monitored n	nore closely.		
7	l go along	g with the view that	this is Appare	ntly Secure. V	Videspread and	without any id	entified threats.	
7	Keeping south.	vote Apparently Se	cure, same as	last time, agr	ee with majority:	numbers see	m stable in north	and
					Ave	rage Certainty	/: 6.8	

Other

NO VOTES Consensus (85%) Reached in Round 3? YES

SPECIES: Great Purple Hairstreak

Atlides halesus

Consensus reached in Round 2

Proposed status: Not Applicable (Extirpated)*

Round 1

Tally and Overall Certainty per Round

Status	Endangered	Threatened	Special	Secure	Unknown	No	Not	Overall
			Concern			Opinion	Applicable	Certainty
Round 1	0	0	0	0	1	1	5	6.5
Round 2	0	0	0	0	0	0	7	6.57

Status I	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	0	0	0	0	1	1	5	6.5
Endangered	NO VOTES							
Threatened	NO VOTES							
Special Concern	NO VOTES							
Secure	NO VOTES							
Other								
Individual Certain	nty Notes							
6	Not Applic proper hat	able: <u>Historical</u> : P bitat from Delmarva	robably reside a Peninsula so	nt in the 19 th outh.	century†. No re	cent records.	Fairly common in	
6	Not Applic	able: <u>Extirpated</u> if	ever resident					
8	Not Applic	able: <u>Extirpated</u> . L	Incertain wheth	her ever a res	ident.			
7	Not Applic	able: <u>Extirpated</u> .						
5	Unknown:	Host plant exists a	as far north as	Mullica River				
7	NOT Appli	icable: <u>Historic an</u> c	d probably <u>exti</u>	rpated				
Not indicated	No Opinio	n						
					Ave	erage Certaint	V: Not Calculated	l

Average Certainty: Not Calculated

Consensus (85%) Reached? NO

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	0	0	0	0	0	0	7	6.57

Justifications:

Endangered	<u>NO VOTES</u>	
Threatened	<u>NO VOTES</u>	
Special Concern	<u>NO VOTES</u>	
Stable/Secure	<u>NO VOTES</u>	
Other		% of Votes: 100
Individual Certainty	Notes	
7	Not Applicable: Extirpated	

7	Not Applicable: Extirpated
5	No basis for any choice but Not Applicable. <u>Extirpated</u> since 1800s, but is there a chance it will turn up again? Host plant exists as far north as Mullica River watershed
7	Not Applicable: Agree with other voters that records are only historic. Extirpated now, if ever present.
6	Not Applicable: Probably extirpated.
6	Not Applicable: Extirpated if ever resident.
8	Not Applicable: Extirpated, if ever resident.
7	Same assessment as per Round 1 comments.
	Average Certainty: 6.57
	Consensus (85%) Reached? YES

SPECIES: Arogos Skipper

Atrytone arogos

Consensus reached in <u>Round 1</u>

Proposed status: ENDANGERED*

Tally and Overall Certainty per Round

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Overall Certainty
Round 1	7	0	0	0	0	0	0	6.86

	Round 1									
Status Endangered Threatened Special Secure Unknown No Not Certa Concern Opinion Applicable								Certainty		
	Count	7	0	0	0	0	0	0	6.86	

Justifications:

Endangered	
Individual Certainty	Notes

7	Formerly considered extirpated, Arogos Skipper is now known from two areas in NJ, one each in Morris County and at Fort Dix/McGuire AFB. The Morris County population continues in single digit numbers in only two or three very small colonies. I have no current information regarding the status of the McGuire AFB/Fort Dix population.
6	Only two populations in the state. Northern population mostly unprotected.
7	This opinion is relevant only to the population in northern NJ, which is at the vanishing point in one or two known locations. The southern population, if it is the same species, may merit a T designation, as it is apparently less rare, though very local.
8	Already on the endangered list. Most historic populations believed to be extirpated. Known populations (Fort Dix) should be monitored and historic population and surrounding areas should be rechecked.
6	Extremely restricted occurrence; strongly affected by fire suppression, but now threatened by controlled burning
8	One of our rarest butterflies in NJ and in the Eastern US. It has suffered range wide declines in the Eastern U.S. Several Pinelands colonies lost in Penn SF. Still present on Ft. Dix in good numbers (20+ individuals observed at one location) as of 2012 and 2013 and is probably the stronghold in NJ. Northern NJ colonies have been greatly reduced over the last two years and without immediate action will likely be lost.
6	This is an Endangered Species in NJ, by my understanding. Only a single report on the SJBF Log from 2008 (Dale Schweitzer and Will Kerling, Fort Dix).
	Average Certainty: 6.86
	Consensus (85%) Reached in Round 1? YES

SPECIES: Dusted Skipper

Atrytonopsis hiana

Consensus reached in Round 4

Proposed status: SPECIAL CONCERN

Tally and Overall Certainty per Round

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Overall Certainty
Round 1	1	0	1	5	0	0	0	5.57
Round 2	0	1	1	5	0	0	0	5.71
Round 3	0	0	4	3	0	0	0	6.43
Round 4	0	0	6	1	0	0	0	6.5

Round 1

Tallied Votes:

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	1	0	1	5	0	0	0	5.57

Justifications:

Endangered	
Individual Certainty	Notes
6	A rare and thinly dispersed skipper. Not any recent records of this occurring? Does not occur in any historic Pine Barren habitats.
	Average Certainty: 6
Threatened	NO VOTES
Special Concern	
Individual Certainty	Notes
7	Numbers have greatly declined in northern NJ, with very few colonies known. If the situation in southern NJ is similar, may merit a higher classification.
	Average Certainty: 7
Stable/Secure	
Individual Certainty	Notes
6	Secure- Apparently very rare in the first half of the 20 th century, Dusted Skipper is uncommon and local now. Though usually seen in small numbers, it is widespread in open and dry areas in much of the state.
5	Apparently Secure- Uncommon but found throughout the state.
4	Apparently Secure. Multiple sites in southern counties, but habitat is restricted due to lack of fire, etc. Airports, power lines and other annually mowed areas. Short flight season may limit observations.
7	Apparently Secure.
4	The SJBF Log has only 23 reports in six years of this early-season species. Is it the short flight in out-of-the- way places that suppresses our numbers? Or is it less common in South Jersey today than it was twenty years ago? My understanding is that is more numerous (at least more often found) in North Jersey. I vote a shaky "Apparently Secure" with Confidence Level of only 4, since Log numbers seem low, and I am relying on secondhand information about its status elsewhere in the state.
Other	Average Certainty: 5.2

Consensus (85%) Reached in Round 1? NO

Round 2

Tallied Votes:

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty	
Count	0	1	1	5	0	0	0	5.71	

Justifications:

Endangered <u>NO VOTES</u>

<u>O VOTES</u>					
	% of Votes: 14.3				
Notes					
Originally I put it as endangered with a confidence level at 6. Now, I will lower my status and put threatened but increase my confidence level to 7. It is a rare skipper in both north and south NJ. Being rare in both halves of the state it deserves protection. None of the comments in the "secure/stable" fields from round 1 have convinced me to lower my status assessment any lower.					
	Average Certainty: 7				
	% of Votes: 14.3				
Notes					
	Average Certainty: 7				
	% of Votes: 71.4				
Notes					
Apparently Secure- Uncommon and local. Usually in very small nur	nbers, but widespread in suitable habitat.				
Airports, power lines and other annually mowed areas. Short flight s species would probably benefit from habitat restoration in the pine b	eason may limit observations. This arrens. That does not seem to be a				
Apparently Secure- Uncommon but found throughout the state.					
Same assessment as per Round 1 comments.					
	Average Certainty: 5.2				
	Notes Originally I put it as endangered with a confidence level at 6. Now, I but increase my confidence level to 7. It is a rare skipper in both not halves of the state it deserves protection. None of the comments in have convinced me to lower my status assessment any lower. Notes Now very scattered in both North (where reports come from 4:8 site observations up north are of single individuals. Bluestem-dominated is vulnerable to development and mismanagement. Notes Notes Apparently Secure- Uncommon and local. Usually in very small nur Apparently Secure. Multiple sites in southern counties, but habitat is Airports, power lines and other annually mowed areas. Short flight s species would probably benefit from habitat restoration in the pine b criterion for listing, however. SC might be justifiable due to loss of or management practices. Apparently Secure- A tough call between Apparently Secure and Sp 23 reports in six years. Is it seldom found because of early flight set Apparently Secure- Uncommon but found throughout the state.				

Consensus (85%) Reached in Round 2? NO

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	0	0	4	3	0	0	0	6.43
Justifications:								
F								
Endangered	NO VOTES							
Threatened	NO VOTES							

Special Concern	% of Votes: 57.1
Individual Certainty	Notes
7	I remain solidly with Special Concern. This species is actively searched for in North Jersey (especially as it continues to disappear), so it's not a matter of the short flight season curtailing the number of observations. Two of those voting Apparently Secure note that SC might be justifiable—and it is.
	It is a rare skipper in both north and south NJ. Being rare in both halves of the state, it deserves some sort o listing. Vulnerable to development and mismanagement.
7	Def not "found throughout the state." Not sure about "widespread" either with the couple places that I know where they occur.
8	This species is on the edge for me and we need to target more research work at it.
6	I am keeping my vote as Special Concern, the category that drew 5 of the 7 votes last time. Rationale was detailed in Rounds 1 & 2.
	Average Certainty: 7
Stable/Secure	% of Votes: 42.9
Individual Certainty	Notes
6	Apparently Secure: Uncommon and local. Usually seen in small numbers, but widespread in suitable habita at least in northern NJ.
6	Apparently Secure: Uncommon but found throughout the state.
5	I stick to Apparently Secure on the grounds that rarity per se is not justification for listing in the absence of definite threats. It's another species probably less common than in the past because of reduction in open grasslands of the right type: Airports, power lines and other annually mowed areas. Multiple sites in souther counties, but habitat is restricted due to lack of fire, etc. Short flight season may limit observations. This species would probably benefit from habitat restoration in the pine barrens. That does not seem to be a criterion for listing, however.
	Average Certainty: 5.7
Other I	NO VOTES Consensus (85%) Reached in Round 3? NO

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	0	0	6	1	0	0	0	6.5
Justifications:	:							
Endangered	NO VOTES							
Threatened	NO VOTES							
Special Cond	cern				% c	of Votes: 85.7		
Individual Cer	rtainty Notes							

6	Rare and local in northern NJ, in very small numbers at one or two somewhat reliable sites, but found only sporadically in suitable habitat elsewhere, I am elevating my assessment to "Special Concern".
6	Moving my vote up to SC. Uncommon and local. Usually seen in small numbers. Needs more study to understand if it's just local or declining.
7	I cannot ignore the marked decline in this species in the North to a handful of sites with only 5 or so individuals. It definitely needs to be watched.
	Staying with Species of Concern due to the Round 3 comments.
7	Comments for Apparently Secure did not match up with my experience and current data on it: "widespread" and "found throughout the state" and "multiple sites in southern counties." Neither is the case for southern NJ, especially the Pine Barrens so not sure how those claims can be made. Please list where it occurs and citations on current or historic data when it can occur also. This would be beneficial to panelists and the NJDEP.
Not Indicated	Special Concern: I am keeping my vote as Special Concern, the category that drew 5 of the 7 votes in both Rounds 2 and 3. Rationale was detailed in Rounds 1 & 2.
8	Special concern: this species has declined significantly and warrants listing and research.
	Average Certainty: 6.8
Stable/Secure	% of Votes: 14.3
Individual Certainty	Notes
5	I stick to Apparently Secure on the grounds that rarity per se is not justification for listing in the absence of definite threats. It's another species probably less common than in the past because of reduction in open grasslands of the right type: Airports, power lines and other annually mowed areas. Multiple sites in southern counties, but habitat is restricted due to lack of fire, etc. Short flight season may limit observations. This species would probably benefit from habitat restoration in the pine barrens. That does not seem to be a criterion for listing, however.
	Average Certainty: 5
Other	NO VOTES
other	Consensus (85%) Reached? YES
SPECIES: Golden	Banded Skipper
	Autochton cellus
	Consensus reached in <u>Round 2</u>
	Proposed status: Not Applicable (Extirpated)*
Tally and Overall (Certainty per Round

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Overall Certainty
Round 1	0	0	0	0	0	2	5	6.4
Round 2	0	0	0	0	0	0	7	6.71

Round 1

Tallied Votes:

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	0	0	0	0	0	2	5	6.4
Justifications:								
Endangered	NO VOTES							
Threatened	NO VOTES							
Special Conce	rn <u>NO VOTES</u>							
Stable/Secure	NO VOTES							
Other								
Individual Certa	ainty Notes							
6	Not Applica similarity w	able: <u>Extirpated</u> . I <i>r</i> ith Silver-spotted	^D robably never Skipper. Only	resident in N a very few ol	ew Jersey. Pos d records.	sibly overlook	ed because of	
6	Not Applica	able: <u>Extirpated</u> if	ever resident					
8	Not Applica	able: <u>Extirpated</u> . U	Incertain wheth	ner ever a res	ident.			
5	Not Applica	able: <u>Extirpated</u> .						
Not indicate	d No Opinior	ı						
7	Not Applica	able: <u>Historic spec</u>	cies and likely t	o have been <u>i</u>	extirpated.			
Not indicate	d No Opinior	ı						
					Ave	rage Certainty	<u>/ NA: 6.4</u>	

Consensus (85%) Reached in Round 1? NO

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	0	0	0	0	0	0	7	6.71
Justifications:								
Endangered	NO VOTES							
Threatened	NO VOTES							
Special Conce	rn <u>NO VOTES</u>							
Stable/Secure	NO VOTES							

Other	% of Votes: 100
Individual Certainty	Notes
7	Not Applicable: Extirpated
6	Not Applicable: Extirpated, if it ever was indigenous. No records to support anything else.
7	Not Applicable: Agree with voters who note that records are very old; species <u>extirpated</u> now (if it ever was a resident).
6	Not Applicable: Probably never a resident, thus extirpated.
6	Not Applicable: Extirpated if ever resident.
8	Not Applicable: Extirpated, if ever resident.
7	Same assessment as per Round 1 comments.
	Average Certainty: 6.71
	Consensus (85%) Reached in Round 2? YES

SPECIES: Silver-bordered Fritillary

Boloria selene

Consensus reached in Round 2

Proposed status: ENDANGERED*

Tally and Overall Certainty per Round

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Overall Certainty
Round 1	5	1	0	0	0	1	0	6.67
Round 2	7	0	0	0	0	0	0	6.86

Round 1

Tallied Votes:

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	5	1	0	0	0	1	0	6.67

Justifications:

Endangered	
Individual Certainty	Notes
	Never common, not one single individual was reported in NJ in 2013. One of the two previous Sussex
	County strongholds has been flooded by beaver activity. The other Sussex colony, along with the ones in
7	Middlesex and Monmouth Counties also proved barren. In the last decade, two individuals from other

Middlesex and Monmouth Counties also proved barren. In the last decade, two individuals from other Sussex County locations were reported. One hopes the species survives somewhere in NJ.

5		of butterflies and s pears to be main c		nd are drama	tically down in p	ast decade. Lo	oss of appropriate)
8	one know	Formerly much more widespread; number of known sites has greatly declined in recent years. Possibly only one known colony left in northwestern NJ, and central Jersey site highly vulnerable to mismanagement by utility company.						
7		opulations have de NJ anymore? Habit				Only a few re	main in NNJ. Do	any
8	wide sprea	IJ populations have ad population decr s observed over th	eases prior to t	this time perio				
					Ave	erage Certainty	<u>/: 7</u>	
Threatened								
Individual Cer	tainty Notes							
5	observers full, statev	2008:2013 and no have more familia wide status. If Sou ed or Extirpated.	rity with the sp	ecies, of cou	rse, so I would c	ertainly defer t	o their opinions f	
					Ave	erage Certainty	<u>/: 5</u>	
Stable/Secur								
Individual Cer	tainty Notes							
Not indicat	ted No Opinio	n						
					Ave	erage Certainty	: Not calculate	<u>4</u>
		Consen	sus (85%) Rea	ched in Roun	id 1? NO			
			Rou	nd 2				
Chathing	Endersered	Thursday	Cresiel	Carry	Listersure	Nia	Net	Cartain
Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certain
Count	7	0	0	0	0	0	0	6.86
Justifications:								
Endangered					% (of Votes: 100		
Individual Cer	tainty Notes							
8	County st Middlesex	nmon, not one sing rongholds has bee and Monmouth C ounty locations we	n destroyed by ounties also pr	beaver activ oved barren.	ity. The other Su In the last deca	ussex colony, a	along with the one luals from other	es in

4	Pretty clearly always a peripheral species in NJ, but with predictable presence and clearly on the decline. For NJ, E is justifiable but might be overreaching, since the causes of the decline are not certain and it isn't clear what management needs would be.
6	Gochfeld and Burger 1997 report a few records from three SNJ counties: Burlington, Cumberland, and Ocean: in the 1990s, and reference two apparently extant colonies at the time of publication. We have no records on the SJBF Log 2008:2013 and no observer I know knows where a current colony exists on the Coastal Plain. Am moving my vote to Endangered (from Threatened), based on comments from voters who know its grim status in NNJ.
8	See round 1 panelist comments.
6	Numbers of butterflies and sites where found are dramatically down in past decade. Loss of appropriate wetland habitat appears to be main cause. This species appears to be almost gone from the state.
8	Another species on the verge of winking out, if it hasn't already. None were observed at the 2 known Sussex County sites in 2013.
7	Same assessment as per Round 1 comments.
	Average Certainty: 6.86
Threatened	NO VOTES
Special Concern	NO VOTES
Stable/Secure	NO VOTES
Other	NO VOTES

Consensus (85%) Reached after Round 2? YES

SPECIES: Northern Metalmark

Calephelis borealis

Consensus reached in Round 2

Proposed status: ENDANGERED*

Tally and Overall Certainty per Round

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Overall Certainty
Round 1	4	1	0	0	0	2	0	7.2
Round 2	7	0	0	0	0	0	0	6.85

Round 1

Tallied Votes:

Concern Opinion Applicable	Status Endangered Threatened Special Secure Unknown No Not Concern Opinion Applicable	Certainty
----------------------------	---	-----------

Count	4	1	0	0	0	2	0	7.2
Justifications:								
Endangered								
Individual Certainty	Notes							
8	Unfortuna developm additional known Sti shrinking	y declining since the tely the required hent. This butterfly habitat are limited liwater/Fredon pop fast. Two small co	abitat is a fair never travels . Manageme bulations are E blonies survive	ly early success very far from wh nt of known colo Extirpated. The e in Sussex Cou	ion one which here it emerge nies is require largest known nty. Other co	a disappears na es so chances c ed if the species remaining colo lonies are unkn	turally as well as of finding suitabl s is to survive. ony (Warren Cou own.	s from e Гhe unty) is
8	apparently	limited range; one / due to habitat de uire vigilant manaç	gradation sind					
7	Population	ns are rare. Howe	ver, where the	ey do occur, abu	ndance is higł	n. Habitats aren	't being manage	ed.
8	NJ which habitat ma	ies and declined c may be its strongh anagement is not i at this time.	old. Without	further action th	is species will This is proba	likely be extirpa ably one of our i	ated within 10 ye most imperiled	
					<u>Av</u>	erage Certainty	<u>r: 7.75</u>	
Threatened								

Individual Certainty Notes 5 Very local in only a few sites in Sussex and Warren counties. Number of sites definitely reduced decade. Special Concern NO VOTES Stable/Secure NO VOTES	
5 decade. <u>Average Certainty: 5</u> Special Concern <u>NO VOTES</u>	
Special Concern <u>NO VOTES</u>	t in past
Stable/Secure <u>NO VOTES</u>	
Other	
Individual Certainty Notes	
Not indicated No Opinion	
Not indicated No Opinion	
Average Certainty: Not cal	<u>culated</u>
Consensus (85%) Reached in Round 1? NO	

Round 2

Tallied Votes:

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	7	0	0	0	0	0	0	6.85

Justifications:

Endangered	% of Votes: 100
Individual Certainty	v Notes
8	Very vulnerable to loss of habitat. The only known remaining strong colony (Warren County) has declined sharply in the past five years. Two very small colonies in Sussex County survive. Other colonies are unknown.
4	All opinion seems to point to 1. Fewer than 3 known sites and 2. specific threat of loss of habitat/host plant, requiring management to insure future persistence
6	Comments from other voters about the apparently grim situation (only two or three colonies remaining) have led to my vote.
8	See Round 1 panelist comments
6	Declining in recent decades and now rare and very local in NW part of state with a couple of known small colonies. Single host plant with apparently additional requirements needed. Because of succession, will not survive in the state without active management.
8	We will be very lucky if we do not lose this species within 5:10 years. The Stillwater-Hardwick metapopulation has been devastated, their habitat overwhelmed by invasive species (barberry, Morrow's honeysuckle, autumn olive, Japanese stilt grass). Only known colonies, at White Lake Natural Area and Kittatinny Valley SP, are similarly threatened and will require ongoing habitat management.
8	Same assessment as per Round 1 comments.
	Average Certainty: 6.86
Threatened	NO VOTES
Special Concern	NO VOTES
Stable/Secure	NO VOTES
Other	NO VOTES
	Consensus (85%) Reached in Round 2? YES

SPECIES: Hessel's Hairstreak

Callophrys hesseli

Consensus reached in Round 4

Proposed status: SPECIAL CONCERN*

Tally and Overall Certainty per Round

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Overall Certainty
Round 1	1	1	3	2	0	0	0	6.29

F	Round 2	0	1	5	1	0	0	0	6.6
F	Round 3	0	2	4	1	0	0	0	6.57
	Round	0	0	7	0	0	0	0	6.29
	4								

Round 1

Tallied Votes:

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	1	1	3	2	0	0	0	6.29

Justifications:

6

Endangered Individual Certainty	Notes
6	Not described until 1950, some prior records of Juniper Hairstreak probably refer to this species. Rare and extremely local. Depends on a single habitat, White Cedar Swamps. Recently only a handful of records each year primarily from two locations, Warren Grove, Burlington County, and Chatsworth, Monmouth County, with only five individuals reported in 2013. Gochfeld and Burger† list it as having been recorded in the past also in Atlantic, Cape May, and Ocean Counties, so possibly other colonies may still be extant.
	Average Certainty: 6

Individual Certainty Notes 8 This species is highly localized and could potentially have lost considerable habitat due to from Hurricane Sandy. This species appears to have declined rangewide and now has hig populations. It is probably secure in the NJ pinelands but this may become a population si species. Average Certainty: 8	ghly disjunct
from Hurricane Sandy. This species appears to have declined rangewide and now has high populations. It is probably secure in the NJ pinelands but this may become a population s species.	ghly disjunct
Average Certainty: 8	
	<u>i</u>
Special Concern	
Individual Certainty Notes	
Known from only a few locations, but a comprehensive survey of Atlantic White Cedar bog discover additional colonies. Habitat vulnerable to deer browsing of regenerating cedar.	is would probably

I have recorded this species in at least ten different cedar bogs. Hard to find, but it seems where there is a
 large cedar bog, the butterfly should be there.

This species is on the state's "Special Concern" list and I'd vote to leave it there. It seems to be holding its own, however. Observers find it regularly in season at a number of sites. My Confidence Level is undermined a little by the fact that this is a charismatic butterfly regularly pursued by many observers. That attention may be inflating our numbers some.

Average Certainty: 6.67

Stable/Secure	
Individual Certainty	Notes
5	Apparently Secure- Doesn't seem to be decreasing. Many potential sites are difficult to survey.
5	Apparently Stable: Not easy to observe in proportion to likely abundance. Occurs widely and fairly consistently.

Average Certainty: 5

Other

NO VOTES

Consensus (85%) Reached in Round 1? NO

Round 2

Tallied Votes:

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty	
Count	0	1	5	1	0	0	0	6.6	
Justifications:									
Endangered	NO VOTES								
Threatened					% c	of Votes: 14.3			
Individual Certa	ainty Notes								
	is a tree to	ly known from a "f opper butterfly, the hould be there with	y are hard to fi	nd, however i					
8	If anything Atlantic white cedar is more threatened than the butterfly thuseventually the butterfly. White cedar is the number one food source for deer, which is over abundant in NJ so it is very difficult for these cedar bogs to regenerate. Also, white cedar is extremely salt intolerant, thus being threatened by climate change with sea level rise and all the road salt being dumped for snow storms.								
					Ave	erage Certainty	<u>/: 8</u>		
Special Conce	ern				% c	of Votes: 71.4	Ļ		
Individual Certa	ainty Notes								
7	Known on	ly in very small nu	mbers from a f	ew locations,	but unknown co	lonies are pos	sible.		
6	OCN) and probably a	The SJBF log has 48 reports of this species in six years from five counties (ATL, BUR, CMY, CUM, and OCN) and about a dozen different bogs. Numbers are generally only in the single digits, however, and probably a little inflated (compared to other species) because this is a charismatic butterfly pursued each year by many observers.							
6		reported from only red and so should							
7	population	Meets the Threatened criterion of having narrow habitat affinities, plus there is little understanding of current population status (because observer attention is concentrated on a very few sites)—therefore by definition it qualifies for Special Concern.							
7	Same ass	essment as per Ro	ound 1 comme	nts.					
					Ave	erage Certainty	/: 6.6		
Stable/Secure)				% c	of Votes: 14.3	5		
Individual Certa	ainty Notes								
5	consistent	y stable. Not easy ly. Host plant is no io justify SC, T or I	t all that sever					ats	

Average Certainty: 5

Other <u>NO VOTES</u>

Consensus (85%) Reached in Round 2? NO

			Rou	ind 3				
Status	Endangered	Threatened	Special	Secure	Unknown	No	Not	Certair
Count	0	2	Concern 4	1	0	Opinion 0	Applicable 0	6.57
Justifications <i>:</i> Endangered	NO VOTES							
hreatened					%	of Votes: 28.6		
ndividual Certai	nty Notes							
6	plus there a very few It is not on	repeat my earlier ; is little understand sites)—therefore ly known from a "f p butterfly, they a	ding of current by definition it we locations	population sta qualifies for T but at least te	atus (because o Fhreatened. n different cedai	bserver attenti r bogs that I ha	on is concentrate ave surveyed. Sir	ed on
8	If anything cedar is th cedar bog with sea le	hould be there with Atlantic white cec e number one foo s to regenerate. A evel rise and all the hy other butterfly s	dar is more thre d source for de lso cedar is ex e road salt beir	eatened than eer, which are tremely salt ir ng dumped fo	e over abundant ntolerant, thus b r snow storms.	in NJ so it is v eing threatene	ery difficult for the	ese
					Ave	erage Certaint	<u>y: 7</u>	
Special Concer	n				%	of Votes: 57.1		
Individual Certain	Known on only as a s	ly in small number small population. And nt at Special Conc	Also, it probab					resent
6		reported from only ed and so should						
8		d be listed due to agement planning					nore when it com	es to
7		ing my vote as Sp Rounds 1 & 2.	ecial Concern,	the category	that drew 5 of th	ne 7 votes last	time. Rationale	was
					<u>Ave</u>	erage Certaint	<u>y: 6.8</u>	
Stable/Secure					%	of Votes: 14.3		
Individual Certaii	nty Notes							

APPARENTLY STABLE. Not easy to observe in proportion to likely abundance. Occurs widely and fairly consistently. Host plant is not all that severely threatened and is being actively managed. No other threats

5

identified to justify SC, T or E.

Average Certainty: 5

Other NO VOTES

Consensus (85%) Reached in Round 3? NO

Status	Endangered	Threatened	Special	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	0	0	Concern 7	0	0	0 0	0	6.29
Justifications:								
Endangered	NO VOTES							
Threatened	NO VOTES							
Special Conce	ern				% c	of Votes: 100		
Individual Cert	ainty Notes							
5	could be n	small numbers at s nore common thar lar habitat.						
6		reported from only ed and so should are study.						
7	vote to Sp	nat this species me ecial Concern, in t pulation status.						
4	state will r	to Special Concer ely on volunteer el ing the finding and	fforts to monito	r these specie	es, I worry that li			at the
8	bogs. Thu Barrens. T difficult to Again, eve	ld be a Species of s more than a "few They are difficult to find, does not mea en though this is a	v locations" and o find because of an it is rareor collected butte	d "very few (co of their tree-to even uncom	oncentrated) site opping behavior, mon.	es." from all ard but just becau	ound the NJ Pine use something is	9
6		any insect for that		und 2 and 3 fe	or reasons detai	led in earlier ro	ounds.	
8		oncern: This speci Ind in suitable hab						
					Ave	erage Certainty	/: 6.3	
Stable/Secure	NO VOTES							

Consensus (85%) Reached? YES

SPECIES: Frosted Elfin

Callophrys irus

Consensus reached in <u>Round 2</u>

Proposed status: THREATENED

Tally and Overall Certainty per Round

Status	Endangered	Threatened	Special	Secure	Unknown	No	Not	Overall
			Concern			Opinion	Applicable	Certainty
Round 1	1	5	1	0	0	0	0	6.14
Round 2	1	6	0	0	0	0	0	5.86

Round 1

Tallied Votes:

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	1	5	1	0	0	0	0	6.14

Justifications:

Endangered	
Individual Certainty	Notes
8	This species has declined considerably in NJ and nationally and NJ may contain some of the best remaining populations in the country. Several sites in NJ have been lost or declined due to poor habitat management.
	Average Certainty: 8
Threatened	
Individual Certainty	Notes
6	Historically also known from NW New Jersey, but now with the only known stronghold at Lizard Tail Preserve in Cape May County, and a scattered report or two from elsewhere in Cape May and Atlantic Counties. The colony at Assunpink WMA has been <u>Extirpated</u> for more than a decade.
5	Locally uncommon with very restricted habitat.
7	Occurs in relatively few sites, some of which are actively managed in its favor. Apparently no recent records from AC Airport, which was a stronghold. Highly vulnerable to deer browsing of host plant.
7	Stronghold for this species is in many places in Cape May county. Populations seem to be okay using observational data but they still need to be monitored.
5	The species is classified as Threatened at the moment (I believe), but I worry that hoary elfin actually may be more vulnerable. At least two apparently strong, dependable populations of frosted elfin exist in South Jersey: Lizard Tail Swamp Preserve (Cape May Co) and in/around the Atlantic City Airport (Atlantic County). The SJBF log has a handful of reports from other sites as well. I would not like to vote to undermine protection for frosted elfin, but I want to underscore that, at least according to NJPB Log data, hoary may be in a more precarious position.

					Ave	erage Certainty	<u>/: 6</u>	
Special Conce Individual Certa								
5	Vulnerabl	le to habitat loss, b	ut apparently s	table at sever		erage Certainty	<u>/: 5</u>	
Stable/Secure	<u>NO VOTES</u>							
Other	<u>NO VOTES</u>							
		Consen	sus (85%) Rea	ched in Roun	d 1? NO			
			Rou	nd 2				
Tallied Votes:				_				
Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	1	6	0	0	0	0	0	5.86
Justifications:								
Endangered Individual Certa	inty Notes				% (of Votes: 14.3		
7	After reac	ding Round 1 comn bund 1 should be e d for them but not a	levated to enda					
					Ave	erage Certainty	<u>/: 7</u>	
Threatened					% (of Votes: 85.7		
Individual Certa	inty Notes							
6	Having a	very restricted hab	itat, and appare	ently with only	/ two strong col	onies remainin	g.	
3		le to habitat/host pl pecies may be relia			dely than C. pol	ios, making it l	hard to justify T, e	except
5	Preserve, (some in is less stu is probab	⁵ has 148 reports of , where it often foun double digits) are f udied (only 4 report ly undercounted. I because of the con	nd in high doub rom the Dennis s) because it is am leaving my	le digits and e ville RR track mostly within vote at Threa	even occasional s. Another colo a no access/sp atened (rather th	ly in triple digit ony in/around t becial permit a nan moving do	ts. Another 34 re he Atlantic City A rea. The airport c wn to Special	ports irport olony
6	Locally ur	ncommon with very	restricted habi	tat.				
		arable then llean,	since it occurs	on more sites	a como of which	n are actively n	nanaged in its fav	(or
7	Less vuin			on more sites				

Average Certainty: 5.7

Special Concern NO VOTES

Stable/Secure NO VOTES

Other <u>NO VOTES</u>

Consensus (85%) Reached in Round 2? YES

SPECIES: Hoary Elfin

Callophrys polios

Consensus reached in Round 4

Proposed status: THREATENED

Tally and Overall Certainty per Round

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Overall Certainty
Round 1	2	0	4	1	0	0	0	6.29
Round 2	2	1	4	0	0	0	0	6.57
Round 3	1	5	1	0	0	0	0	6.29
Round 4	1	6	0	0	0	0	0	6.43

Round 1

Tallied Votes	3:							
Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	2	0	4	1	0	0	0	6.29

Justifications:

Individual Certainty Notes 7 Population concentrated in one main colony site, which is vulnerable to collecting and fire. 7 Only remaining populations in NJ are in and near Warren Grove. Previous historic populations do not exist. They do not occur anywhere else in the Pine Barrens as far as I know. Its host plant bearberry is not very fire tolerant either. Habitats for this species are being burned and managed for the forests, but not the species itself and host plant. 8 Average Certainty: 7.5 Threatened NO VOTES Special Concern Special Concern	Endangered	
 Only remaining populations in NJ are in and near Warren Grove. Previous historic populations do not exist. They do not occur anywhere else in the Pine Barrens as far as I know. Its host plant bearberry is not very fire tolerant either. Habitats for this species are being burned and managed for the forests, but not the species itself and host plant. Average Certainty: 7.5 Threatened NO VOTES	Individual Certainty	Notes
8 They do not occur anywhere else in the Pine Barrens as far as I know. Its host plant bearberry is not very fire tolerant either. Habitats for this species are being burned and managed for the forests, but not the species itself and host plant. 8 Average Certainty: 7.5 Threatened NO VOTES	7	Population concentrated in one main colony site, which is vulnerable to collecting and fire.
Threatened <u>NO VOTES</u>	8	They do not occur anywhere else in the Pine Barrens as far as I know. Its host plant bearberry is not very fire tolerant either. Habitats for this species are being burned and managed for the forests, but not the species
		Average Certainty: 7.5
Special Concern	Threatened	NO VOTES
•	Special Concern	
Individual Certainty Notes	Individual Certainty	Notes

- 5 Most patches of Bearberry in Pinelands don't support this butterfly.
- 5 Restricted range/habitat, but apparently stable in areas where it occurs

8	This species appears to have been declining in much of its southern range and it highly restricted by its habitat type in NJ. It also very vulnerable to forest management activities and habitat change in NJ.
5	This species is often numerous at its best known site, Warren Grove, where it is regularly seen in double digit numbers. That has long been the case at that site (fide Gochfeld and Burger). However, all but 4 of 37 SJBF Log records over the past six years come from that single area. It is currently listed as a "Species of Special Concern." I would lean that way since the numbers are so good there, but I have chosen a low 5 for Confidence Level because no other colonies that I know seem to compare to that Warren Grove site. If a large fire destroyed all Warren Grove's bearberry at a critical time of year, where and how would this species survive in the state while the bearberry recovered? Is "Threatened" possibly a more accurate status?

Average Certainty: 5.75

ndividual Certainty	Notes							
6		y Secure: Historica Burlington County				al. But good	populations at Wa	arren
					Ave	erage Certainty	<u>y: 6</u>	
Other <u>NO VOTES</u>	<u>S</u>							
		_						
		Consen	sus (85%) Rea	ched in Roun	d 1? NO			
			Rou	nd 2				
Fallied Votes: Status Enda	angered	Threatened	Special	Secure	Unknown	No	Not	Certainty
Count	2	1	Concern 4	0	0	Opinion 0	Applicable 0	6.57
ndangered					% c	of Votes: 28.6		
Justifications: Endangered ndividual Certainty	Notes				% c	of Votes: 28.6		
Endangered	Populatior collected f elfin is in V an openin Range Rd Elsewhere	n not threatened by for over 50 years a Warren Grove. Jus g with an abundan l. If you go 50 mete a in the Pine Barre re the host plant is	and the species at one population nee of bearberry ers into the dwa an does support	does still occ on. Warren Gr y, which is no arf forest thou	Range Rd and th cur. However, th ove is large, yes t fire tolerant. Ar gh, you will still	e "bearberry f e only known s, but they only n example of t see bearberry	lats" have been population of hoa y occur where the his would be Bon ' but NOT the but	ere is nbing
Endangered ndividual Certainty	Populatior collected f elfin is in N an openin Range Rd Elsewhere everywhere Previous p	or over 50 years a Warren Grove. Jus g with an abundan I. If you go 50 mete a in the Pine Barre	and the species st one population nee of bearberry ers into the dwa en does support s. o occur in Cam	does still occ on. Warren Gr y, which is no arf forest thou bearberry (C den County, (Range Rd and th sur. However, th ove is large, yes t fire tolerant. Ar gh, you will still hatsworth) but t Cumberland Con	e "bearberry f e only known s, but they only n example of t see bearberry he butterfly do	lats" have been population of hoa y occur where the his would be Bon but NOT the but bes not occur	ere is hbing terfly.
Endangered ndividual Certainty	Populatior collected f elfin is in V an openin Range Rd Elsewhere everywher Previous p not anymo	or over 50 years a Warren Grove. Jus g with an abundan I. If you go 50 mete e in the Pine Barre re the host plant is populations used to	and the species st one population dec of bearbern ers into the dwa in does support s. o occur in Cam they should no re population is	does still occo on. Warren Gr y, which is not arf forest thou bearberry (C den County, (ot be endange s concentrated	Range Rd and th cur. However, th ove is large, yes t fire tolerant. Ar gh, you will still hatsworth) but t Cumberland Con- ered.	e "bearberry f e only known s, but they only n example of the see bearberry he butterfly do unty, Chatswo	lats" have been population of hoa y occur where the his would be Bon but NOT the but pes not occur rth, and Lakehurs ove makes this	ere is hbing terfly. st, but
Endangered ndividual Certainty 8	Populatior collected f elfin is in V an openin Range Rd Elsewhere everywher Previous p not anymo	or over 50 years a Warren Grove. Jus g with an abundar I. If you go 50 meta in the Pine Barre re the host plant is populations used to ore. Hard to argue nat almost the enti ghly vulnerable to	and the species st one population dec of bearbern ers into the dwa in does support s. o occur in Cam they should no re population is	does still occo on. Warren Gr y, which is not arf forest thou bearberry (C den County, (ot be endange s concentrated	Range Rd and th cur. However, th ove is large, yes t fire tolerant. Ar gh, you will still hatsworth) but t Cumberland Coe ered. d in one location s fire, and their r	e "bearberry f e only known s, but they only n example of the see bearberry he butterfly do unty, Chatswo	lats" have been population of hoa y occur where the his would be Bom but NOT the but yes not occur rth, and Lakehurs ove makes this probably constant	ere is hbing terfly. st, but
Endangered ndividual Certainty 8	Populatior collected f elfin is in V an openin Range Rd Elsewhere everywher Previous p not anymo	or over 50 years a Warren Grove. Jus g with an abundar I. If you go 50 meta in the Pine Barre re the host plant is populations used to ore. Hard to argue nat almost the enti ghly vulnerable to	and the species st one population dec of bearbern ers into the dwa in does support s. o occur in Cam they should no re population is	does still occo on. Warren Gr y, which is not arf forest thou bearberry (C den County, (ot be endange s concentrated	Range Rd and th cur. However, th ove is large, yes t fire tolerant. Ar gh, you will still hatsworth) but t Cumberland Coe red. d in one location s fire, and their r	e "bearberry f e only known s, but they only n example of ti see bearberry he butterfly do unty, Chatswo n at Warren Gr numbers are p	lats" have been population of hoa y occur where the his would be Borr but NOT the but pes not occur rth, and Lakehurs ove makes this probably constant	ere is hbing terfly. st, but

section of the Warren Grove bearberry flats, where it is regularly seen in double digit numbers. However, all but 4 of 37 SJBF Log records over the past six years come from that single, relatively small area. As far as I know, no other significant colony exists anywhere in the state. The situation of this species is at least as precarious as frosted elfin's and probably more so. If a fire destroyed that single bearberry section (in that fire-prone area), how would this species survive in New Jersey?

Average Certainty: 6

Special Concern	% of Votes: 57.14
Individual Certainty	Notes
7	Though the population seems to be fairly stable, it is confined to a very few locations which are vulnerable to fire.
5	Restricted range/habitat, but apparently stable in areas where it occurs, not enough evidence of immediate threat to support T or E
5	Good colonies at Warren Grove and Lakehurst. Most patches of Bearberry in Pinelands don't support this butterfly but larger patches should and should be sought out.
7	Same assessment as per Round 1 comments.
	Average Certainty: 6
Stable/Secure	NO VOTES
Other	<u>NO VOTES</u>

Consensus (85%) Reached in Round 2? NO

Round 3

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	1	5	1	0	0	0	0	6.29

Justifications:

6

Endangered	% of Votes: 14.3
Individual Certainty	Notes
8	The only known population for hoary elfin is Warren Grove or close to it. Just ONE population. There are a couple scattered populations around it but dwindling. If a fire comes through which is very likely to happen since Warren Grove is the second highest fire frequency habitat in the country the population will get extirpated. All previous known populations in NJ have are now gone, including Camden County, Cumberland County, Chatsworth and Lakehurst. How is this species not endangered with one location that can potentially be wiped out and all other known populations are now gone?
	Average Certainty: 8
Threatened	% of Votes: 71.4
Individual Certainty	Notes

6

I am raising my assessment to Threatened because almost the entire known population is confined to a single site, a site which is surrounded by area susceptible to fire. Also since 1970, four other sites occupied by this species no longer are. Fortunately the population at the remaining site appears to be stable, despite possible collecting.

ndividual Certainty	Notes							
7	I am backing off a notch from E to T, because even though this species is confined to perhaps only two colonies it does not meet the E definition of "in immediate danger," but it does meet the T criteria of restricted range and narrow habitat affinities (plus its habitat is highly vulnerable to fire, which could put Hoary Elfin in immediate danger very quickly).							
5	Reliable colonies at Warren Grove and Lakehurst, but both sites would be vulnerable to fire. Most patches of Bearberry in Pinelands don't support this butterfly but larger patches should and should be sought out. To my mind, the status of this butterfly is similar to Frosted Elfin but a little more widespread.							
7	it could be	Il agree that this sp threatened by po easonably imperile	or state land m	anagement, I	would say that	it is greater th	an SC. I do not f	eel
6	Two voters last Round chose E. Four chose SC; one chose T. Can we compromise at T – for the reasons detailed by several voters last time, including a vote for SC? This is a vulnerable species apparently extant only in a handful of colonies, where fire is likely. It seems to me more endangered than frosted (which is more widespread and probably more numerous): which we agreed was a T species.							
					Ave	erage Certaint	y: 6.2	
Special Concern	Notes				% c	of Votes: 14.3		
					<u>Ave</u>	erage Certaint	<u>y: 5</u>	
Stable/Secure	NO VOTES							
Other	NO VOTES							
		0		al a d'a Dava				
		Consen	sus (85%) Rea	nd 4				
			Rou	nu 4				
Status End	angered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certa
Count	1	6	0	0	0	0	0	6.4
Justifications:								
Endangered					% c	of Votes: 14.3	3	
Individual Certainty	Notes							
		species I will still no					previous Round around it. There	- 10

gene flow with any other populations outside of the state and not in NJ since it's the only location. Warren Grove being the second highest fire frequency area in the country has a high chance of one fire extirpating this population. All historic populations in NJ are now gone including ones in Camden and Cumberland County along with Chatsworth and Lakehurst.

I don't see how this species can be any less than endangered.

8

No evidence suggests collecting hurts populations. Paul Ehrlich actually proved they don't do any damage at all doing a population study at Stanford with a fritillary species and he was purposely collecting every individual for five years.

Average Certainty: 8

Threatened	% of Votes: 85.7
Individual Certainty	/ Notes
6	As stated in Round 3, almost our entire known population is confined to a single site, one which is surrounded by habitat susceptible to fire. Also since 1970, four other sites occupied by this species no longer are. Fortunately the population at the remaining site appears to be stable despite possible collecting.
5	Reliable colonies at Warren Grove and Lakehurst, but both sites would be vulnerable to fire. Most patches of Bearberry in Pinelands don't support this butterfly but larger patches should and should be sought out. This species doesn't appear to be in immediate danger so Endangered classification not justified.
7	I remain with Threatened for reasons stated earlier: narrow habitat affinities, and only 2 known colonies, that are highly vulnerable to fire.
4	I'll join the consensus on threatened, but I worry that listing will potentially create new problems and perhaps curtail needed research, rather than insuring that it occurs.
7	Threatened. After Round 3, we were within one vote for a majority voting for Threatened. I sincerely hope we get that majority this time. The reasons for T (if not E) have been detailed by several panelists: most importantly, this is a species apparently confined to two relatively small, fire-prone sites. It seems to me a species more threatened than frosted elfin (which we agreed deserved T) because it exists in fewer sites.
8	Threatened: The restricted range and potential threats warrant this species being listed as Threatened.
	Average Certainty: 6.2
Special Concern	NO VOTES
Stable/Secure	NO VOTES
Other	NO VOTES

Consensus (85%) Reached? YES

SPECIES: Arctic Skipper

Carterocephalus palaemon

Consensus reached in Round 3

Proposed status: Not Applicable

Tally and Overall Certainty per Round

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Overall Certainty
Round 1	1	0	0	0	0	2	4	6.6
Round 2	2	0	0	0	0	0	5	6.14
Round 3	1	0	0	0	1	0	5	7

Tallied Votes.	:							
Status	Endangered	Threatened	Special	Secure	Unknown	No	Not	Certainty

			Concern			Opinion	Applicable		
Count	1	0	0	0	0	2	4	6.	
Justifications:									
Endangered									
Individual Certainty	Notes								
5		lations might still ally still be found		check histori	c specimens t	o find old locals	where this species		
					<u>A</u>	verage Certainty	r: <u>5</u>		
Threatened	NO VOTES								
Special Concern	NO VOTES								
Stable/Secure	<u>NO VOTES</u>								
Other									
Individual Certainty	Notes								
8	Not Applica New Jersey	ble: <u>Historical</u> , po report, a single	ossibly <u>Extirpate</u> individual in 200	e <u>d</u> : Formerly)5. Locally co	known from o ommon in nor	ne location in Si thern New Engla	ussex County. Last and.		
6	Not Applica	ble: Extirpated.							
7		Not Applicable: <u>Historical</u> . The only known colony has apparently winked out, but it's possible others are out there in remote northern sedge meadows.							
Not indicated	No Opinion	: No explanation							
7	Not Applica not a reside	ble: On edge of t ent species.	the species rang	ge and the sn	nall colony tha	t occurred here	winked out. Probal	bly	
Not indicated	No Opinion								
					<u>A</u>	verage Certainty	<u>/ NA: 7</u>		
		Concer							
		Consen	sus (85%) Read	ched in Round	d 1? NO				

Tallied Votes:			Rou	nd 2				
Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	2	0	0	0	0	0	5	6.14
Justifications. Endangered					% c	of Votes: 28.6		
Individual Cer	rtainty Notes							
6		oulations can still po an still potentially b		und. Need to	check historic sp	pecimens to fin	nd old locals whe	re this
7		y extirpated since t 30-year requireme				colony since 20	005, but since it o	annot

Average Certainty: 6.5

Threatened	NO VOTES
Special Concern	NO VOTES
Stable/Secure	NO VOTES
Other	% of Votes: 71.4
Individual Certainty	Notes
8	Not Applicable: <u>Historical</u>
3	Not Applicable: <u>Extirpated</u> but if it was present in the 2000s, it raises the question of how we are supposed to treat species seen within the past thirty years [see under West Virginia White].
6	Not Applicable: Agree with voters who note it is probably not a resident species.
6	Not Applicable: <u>Historic</u> . Only ever known in state from one site at High Point SP which is on the southern edge of its range. Hasn't been seen there for a decade despite yearly searching.
7	Same assessment as per Round 1 comments.
	Average Certainty: 6

Consensus (85%) Reached in Round 2? NO

Count 1 0 0 0 1 0 5 7 Justifications: Individual Certainty Notes % of Votes: 14.3 1<									
Count 1 0 0 0 1 0 5 7 Justifications: Endangered % of Votes: 14.3 Individual Certainty Notes 6 Small populations can still potentially be found. Need to check historic specimens to find old locals where this species can still potentially be found. 6 Small populations can still potentially be found. 6 Small populations can still potentially be found. 6 No VOTES Special Concern No VOTES Stable/Secure No VOTES Other Motes **********************************	Status	Endangered	Threatened		Secure	Unknown			Certain
Endangered % of Votes: 14.3 Individual Certainty Notes 6 Small populations can still potentially be found. Need to check historic specimens to find old locals where this species can still potentially be found. 6 Moreage Certainty: 6 Threatened NO VOTES Special Concern NO VOTES Stable/Secure NO VOTES Other % of Votes: 85.7 Individual Certainty Notes	Count	1	0	0	0	1	0	5	7
Individual Certainty Notes Individual Certainty Notes Small populations can still potentially be found. Need to check historic specimens to find old locals where this species can still potentially be found. Average Certainty: 6 Threatened NO VOTES Special Concern NO VOTES Stable/Secure NO VOTES Other % of Votes: 85.7 Individual Certainty Notes	Justifications:								
6 Small populations can still potentially be found. Need to check historic specimens to find old locals where this species can still potentially be found. 6 Average Certainty: 6 Threatened NO VOTES Special Concern NO VOTES Stable/Secure NO VOTES Other % of Votes: 85.7 Individual Certainty Notes						% (of Votes: 14.3		
6 species can still potentially be found. Average Certainty: 6 Threatened NO VOTES Special Concern NO VOTES Stable/Secure NO VOTES Other % of Votes: 85.7 Individual Certainty Notes	Individual Certa	ainty Notes							
Threatened NO VOTES Special Concern NO VOTES Stable/Secure NO VOTES Other % of Votes: 85.7	6				und. Need to	check historic s	pecimens to fil	nd old locals whe	ere this
Special Concern NO VOTES Stable/Secure NO VOTES Other % of Votes: 85.7 Individual Certainty Notes						Ave	erage Certainty	<u>/: 6</u>	
Stable/Secure NO VOTES Other % of Votes: 85.7 Individual Certainty Notes	Threatened	NO VOTES							
Other % of Votes: 85.7 Individual Certainty Notes	Special Conce	ern NO VOTES							
Individual Certainty Notes	Stable/Secure	NO VOTES							
	Other					% (of Votes: 85.7		
NOT APPLICABLE: Historical: The last report was of a single individual in 2005, at the site of New Jersey's	Individual Certa	ainty Notes							
		NOT APP	LICABLE: Historic	al: The last rep	port was of a	single individual	in 2005, at the	e site of New Jers	sey's

Individual Certainty	Notes
7	previously only known colony. Re-colonization seems doubtful.
	UNKNOWN: I would LIKE to consider this species NOT APPLICABLE because it has apparently been
	extirpated (not seen at the single known colony site in 9 years). However, according to the
	instructions/clarifications sent by Melanie on March 31, there must be no records for at least 30 YEARS to
	consider a species Not Applicable due to being Extirpated. If NOT APPLICABLE is not applicable, one must
	assign a conservation status. Although the most obvious choice might be Endangered, I have strong objections to "cluttering" the list of Endangered species that are known to be still extant in NJ with those that
	can reasonably be considered extirpated even if they do not meet the 30 year criterion. The limited attention
8	and resources available for monitoring and management of listed species should be directed toward those
	species that are still here. I therefore vote UNKNOWN, since I consider it legitimate to say that we don't
	have enough information to know whether Arctic Skipper is still resident in NJ.
7	NOT APPLICABLE: Extirpated.
	NOT APPLICABLE: This is a hard one but I am not confident that it could be a self-sustaining resident
7	species. Was the colony a random colonization (NA) or was it a relic of the past (SC, T, E)?
	NOT APPLICABLE. In terms of recent history, clearly a peripheral species with a temporary colony or two.
7	"The species does not occur in New Jersey with regularity or predictability" Conceivably a victim of climate
	change.
7	Keeping vote same as last time, agree with majority: not a resident species.
	Average Carteinty, Unknown, 9
	<u>Average Certainty: Unknown: 8</u> Not Applicable: 7
	Consensus (85%) Reached? YES
SPECIES: Appalach	ian Azure

Celastrina neglectamajor

NO Consensus reached

Proposed status: Referred to ENSAC

Tally and Overall Certainty per Round

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Overall Certainty
Round 1	0	0	0	3	2	2	0	6.2
Round 2	0	0	0	4	2	1	0	5.86
Round 3	0	0	0	3	3	1	0	6.28
Round 4	0	0	0	3	3	1	0	5.71

Tallied Votes:								
Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	0	0	0	3	2	2	0	6.2
Justifications:								
Endangered	NO VOTES							
Threatened	NO VOTES							

Special Concern NO VOTES

Stable/Secure Individual Certainty	Notes
6	Apparently Secure- Only recently separated from Spring Azure with which together with Summer Azure it is easily confused. Very local; never very far from only known food plant, Black Cohosh. Several small colonies in northern NJ. Population remains small and possibly declining.
5	Apparently Secure- Widespread but local in swath of state where host plant is found.
7	Apparently Secure but should probably have a better survey effort made to determine its status better.
	Average Certainty: 6
Other	
Individual Certainty	Notes
7	Unknown: Difficult to evaluate status because of confusion with 'Summer' Spring Azure, which may also utilize the same larval host plant.
7 6	
	utilize the same larval host plant.
6	utilize the same larval host plant. Unknown: This species of in the azure complex needs to be worked on further.

Consensus (85%) Reached in Round 1? NO

Tallied Votes:								
Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	0	0	0	4	2	1	0	5.86
Justifications:	ŗ							
Endangered	NO VOTES							
Lindangered	NOVOILS							
Threatened	NO VOTES							
Special Cond	cern NO VOTES							
Stable/Secur	-				% c	of Votes: 57.1		
Individual Cer	rtainty Notes							
	Apparentl	y Secure- Widespr	ead but local n	ear Black Coł	nosh. Populatio	n mav be decl	inina.	
6	, ipparoni	,						
	Apparentl	y Secure- Agree w	ith voters who	note that this	recently-recoan	ized species n	eeds more study.	
5	, .pp	,, ig. co ii			,			
	Apparentl	y Secure- Widespr	ead but local ir	swath of stat	te where host pl	ant is found.		

6

7

6

Same assessment as per Round 1 comments.

Other	% of Votes: 42.9
Individual Certainty	Notes
5	The justifications for S all seem to underline the lack of certainty about the species status.
6	No Opinion: Part of the azure complex. D. Wright & H. Pavulaan are the only ones really qualified to assess azures in NJ.
6	Unknown: This species is so recently described and so difficult to separate from other azures that we do not have adequate information regarding its population status.
	Average Certainty: 57

Average Certainty: 5.7

Average Certainty: 6

Consensus (85%) Reached in Round 2? NO

Round 3

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certai
Count	0	0	0	3	3	1	0	6.28
Justifications:								
Endangered	NO VOTES							
Threatened	NO VOTES							
Special Conc	ern NO VOTES							
Stable/Secure	-				% c	of Votes: 42.9		
Individual Cert	tainty Notes							
6		Secure-Widespr sessment of its sta		ear its host pl	ant, Black Cohc	osh. I see no r	eason to change	my
6	Apparently	Secure- Widespr	ead but local ir	n swath of sta	te where host pl	lant is found.		

	Average Certainty: 5.7
Other	% of Votes: 57.1
Individual Certainty	Notes

UNKNOWN: This species is so recently described and so difficult to separate from other azures (mere association with Black Cohosh is not sufficient) that we do not have adequate information regarding its population status.

Individual Certainty	Notes
7	UNKNOWN: Recently described species in the azure complex that D. Wright and H. Pavulaan are the only ones really qualified to assess azures in NJ. They have done a thorough assessment for all the species in the state including this one. No one else would come close to knowing the butterfly's status or distribution other than these two.
8	NO OPINION: We have consensus to not list this species and the rest is in the details which is telling. We obviously need some better understanding of this species. I will go with the majority on this.
6	I stay with U. The justifications for S all seem to underline the lack of certainty about the species status. It is reported as local and widespread, but there is concern about confusion with other members of the genus.
	Average Certainty: Unknown: 6.3

No Opinion: 8

Consensus (85%) Reached in Round 3? NO

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certaint	
Count	0	0	0	3	3	1	0	5.71	
Justifications:									
Endangered	NO VOTES								
Threatened	NO VOTES								
Special Conce	rn NO VOTES								
Stable/Secure					% c	of Votes: 42.9)		
Individual Certa	inty Notes								
Not Indicate		/ Secure- Widespr	read but local r	near its host p	lant, Black Coho	osh, this specie	es shows no sign	of	
6	taxon from	v Secure- Widespr other azure taxor of the adults.						sh this	
5	Apparently troubled.	v Secure. Until we	e know more al	bout this enigi	matic species (a	nd how to ider	ntify it), we can't s	say it's	
					Ave	erage Certainty	<u>/: 5.5</u>		
Other					% c	of Votes: 57.1			
Individual Certa	inty Notes								
7	Unknown:	I am not persuade	ed that enough	is generally k	known about this	s species to as	sign a status.		
6	status. It is	Unknown: I stay with U. The justifications for S all seem to underline the lack of certainty about the species status. It is reported as local and widespread, but there is concern about confusion with other members of the genus.							
8	this specie	n: Unless you are s. They have not cur historically and	only done their						

8 Unknown: further research needed

Average Certainty: 7.3

Consensus (85%) Reached? NO

Proposed Status: _____Referred to ENSAC_____

SPECIES: Harris' Checkerspot

Chlosyne harrisii

Consensus reached in Round 2

Proposed status: Not Applicable (Extirpated)

Tally and Overall Certainty per Round

Status	Endangered	Threatened	Special	Secure	Unknown	No	Not	Overall
			Concern			Opinion	Applicable	Certainty
Round 1	1	0	1	0	0	2	3	5.8
Round 2	1	0	0	0	0	0	6	5.43

Round 1

Tallied Votes: Endangered Threatened Special Secure Unknown No Not Status Certainty Concern Opinion Applicable 0 0 0 Count 5.8 1 3 1 2 Justifications: Endangered Individual Certainty Notes Potentially extirpated but small populations could potentially exist. Need to look at collected specimens to 5 find old locals where they did occur and recheck. Average Certainty: 5 Threatened NO VOTES **Special Concern** Individual Certainty Notes Maintain SC status in the event a colony is discovered but this species is likely extirpated and should be 7 considered historic. NJ was on the southern end of its range. I would go with the majority opinion. Average Certainty: 7 Stable/Secure NO VOTES Other Individual Certainty Notes

5

Not Applicable: <u>Historical</u>: Formerly resident in northern NJ; reported in the 1940s[†]. No recent records.

Currently of	declining in	southern	New	York.
--------------	--------------	----------	-----	-------

- 4 Not Applicable: <u>Extirpated</u>.
- Not Applicable: <u>Historical</u>. No colonies currently known, but we still hold out some hope. Climate change could be an issue.
- Not indicated No Opinion
- Not indicated No Opinion

Average Certainty: NA: 5.67

Consensus (85%) Reached in Round 1? NO

Round 2

Tallied Votes:

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	1	0	0	0	0	0	6	5.43

Justifications:

Endangered	% of Votes: 14.3
Individual Certainty	Notes
5	Potentially extirpated but small populations could still potentially exist. Need to look at collected specimens to find old locals where they did occur and recheck.
	Average Certainty: 5
Threatened	<u>NO VOTES</u>
Special Concern	<u>NO VOTES</u>
Stable/Secure	NO VOTES
Other	% of Votes: 85.7
Individual Certainty	Notes
5	Not Applicable: <u>Historical</u>
5	Not Applicable: <u>Extirpated</u> . The arguments for keeping this listed seem based on hope, rather than data, but if it was present in the 1990s, it raises the question of how we are supposed to treat species last seen within the past thirty years [see under West Virginia White].
5	Not Applicable: No recent records. Extirpated.
5	Not Applicable: <u>Historical</u> . Last confirmed report that I know of is from 1996. However, I still hold out hope that a small colony will be found in northern NJ. Food plant is still extant.
7	Not Applicable: Probably <u>Extirpated</u> , but does not meet the 30-year requirement for no confirmed reports. Not reliably reported since 2000, despite active searching. I therefore reluctantly change to Endangered as the only possible fit, though I do not like to clutter the list of extant Endangered species with those for which there is very little likelihood that they still exist here.

6

Not Applicable: Probably extirpated.

Average Certainty: 5.5

Consensus (85%) Reached in Round 2? YES

SPECIES: Silvery Checkerspot

Chlosyne nycteis

Consensus reached in Round 2

Proposed status: Not Applicable

Tally and Overall Certainty per Round

Status	Endangered	Threatened	Special	Secure	Unknown	No	Not	Overall
			Concern			Opinion	Applicable	Certainty
Round 1	0	0	0	0	0	2	5	6.4
Round 2	1	0	0	0	1	0	5	Not Calc

			Rou	nd 1				
Tallied Votes:								
Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	0	0	0	0	0	2	5	6.4
Justifications:								
Endangered	<u>NO VOTES</u>							
Threatened	NO VOTES							
Special Concer	n <u>NO VOTES</u>							
Stable/Secure	NO VOTES							
Other								
Individual Certai	nty Notes							
6	widespread	able: <u>Historical</u> : F d inland in easterr ern Pennsylvania.						ork
6	Not Applica	able <u>:</u> <u>Extirpated</u> .						
8		able: <u>Historical</u> . 20 I owing to similarit			as not supporte	d by documer	ntation. Possibly	
5	Not Applica	able: Most likely <u>E</u>	<u>xtirpated</u>					
Not indicated	No Opinior	ı						

7 Not Applicable: <u>Historic</u>

Not indicated No Opinion

Average Certainty NA: 6.4

Consensus (85%) Reached in Round 1? NO

Round 2

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	1	0	0	0	1	0	5	Not Calc
ustifications:								
Indangered					% c	of Votes: 14.3	1	
ndividual Certai	inty Notes							
5	did histori Camden, still be a c	I am going to throw cally occur in the s and Gloucester co colony or two some looked at to see w	tate and were unties, all of w where as unlik	quite common hich are not re ely as it may	n. Some of these eally looked at fo be. Just someth hese counties.	e common locator or butterflies. 7	ations were Saler Fhere could poter er. Historic specin	m, ntially
Threatened	<u>NO VOTES</u>							
Special Conce	rn <u>NO VOTES</u>							
Special Conce Stable/Secure	rn <u>NO VOTES</u> <u>NO VOTES</u>							
Stable/Secure Other	<u>NO VOTES</u>				% c	of Votes: 85.7		
Stable/Secure	<u>NO VOTES</u>				% c	of Votes: 85.7		
Stable/Secure	NO VOTES	cable: Historical			% c	of Votes: 85.7		_
Stable/Secure Other ndividual Certa	NO VOTES inty Notes Not Applic Not Applic 1990s, as	cable: Historical cable: Extirpated. the state maps ind past thirty years [s	dicate, it raises	the question	this might recolor of how we are s	onize? But if it	t was present in t	
Stable/Secure Other ndividual Certa	NO VOTES inty Notes Not Applic Not Applic 1990s, as within the	cable: Extirpated.	dicate, it raises see under Wes	the question t Virginia Whi	this might recolor of how we are s	onize? But if it	t was present in t	
Stable/Secure Other ndividual Certa 6	NO VOTES inty Notes Not Applic 1990s, as within the Not Applic	cable: Extirpated. the state maps inc past thirty years [s	dicate, it raises see under Wes	the question t Virginia Whi	this might recolor of how we are s	onize? But if it	t was present in t	
Stable/Secure Other ndividual Certa 6 6 5	NO VOTES inty Notes Not Applic 1990s, as within the Not Applic d Not Applic	cable: Extirpated. the state maps inc past thirty years [s cable: No recent re cable: Extirpated No known sites, a	dicate, it raises see under Wes cords. Probabl	the question t Virginia Whi y extirpated.	this might recolor of how we are s te].	onize? But if it upposed to tra	t was present in t eat species last s	een
Stable/Secure Other ndividual Certa 6 6 5 Not Indicated	NO VOTES inty Notes Not Applic 1990s, as within the Not Applic d Not Applic Unknown: Pearl Cres	cable: Extirpated. the state maps inc past thirty years [s cable: No recent re cable: Extirpated No known sites, a	dicate, it raises see under Wes cords. Probabl	the question t Virginia Whi y extirpated. evaluate past	this might recolor of how we are s te].	onize? But if it upposed to tra	t was present in t eat species last s	een

Consensus (85%) Reached in Round 2? YES

Danaus plexippus

Consensus reached in Round 2

Proposed status: SPECIAL CONCERN

Tally and Overall Certainty per Round

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Overall Certainty
Round 1								
Round 2	0	0	6	1	0	0	0	6.14

Round 1

Species did not undergo first round assessment. Species added in Round 2 as per a panelist's request.

			Rou	nd 2						
Tallied Votes:										
Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty		
Count	0	0	6	1	0	0	0	6.14		
Justifications:										
Endangered	NO VOTES									
Threatened	NO VOTES									
Special Conce	ern				% (of Votes: 85.7	7			
Individual Certa	ainty Notes									
6	though at le This specie down year most frequ The news f The design species' sta	eports in double d east part of it for 2 es seems in its ov such as 2013. C ented reported sp from its wintering lation that we giv atus in the state of the designation.	2013 can be att on category. It is on the SJBF log becies and/or m area in the Mes e it seems to de	ributed to we s far more nu it has been fo lost numerous kican mountai epend on how	ather conditions merous than an or several of ou s (the species w ins, however, in v we understand	s. ry other specie r years among vith the highest dicates that it i l our role: are	s on this list, eve the top two or th totals of individu is very troubled th we focused on a	n in a ree als). nere.		
7		0 years this speci vill not exist anym ent.								
5	yearly imm to do with o means to re	Not sure how to handle because of special circumstance at this juncture for this iconic species. Nonresident, yearly immigrant that breeds within the state with significant decline in numbers in recent years having mostly to do with circumstances outside the state. Numbers should be monitored going forward. Species has means to recover but hard to say in early 2014 that the numbers within the state are stable because of the recent decline.								
8	least Speci	oopulations crash ial Concern until i tremely low numl	t can be determ	nined whether	r any recovery o	occurs (which s	seems doubtful at	this		

was done for Golden-winged Warbler.

7

National declines might warrant species listing as SC. Probably would be a species better addressed at a Federal Level from a conservation point of view.

Average Certainty: 6.33

Stable/Secure	% of Votes: 14.3
Individual Certainty	Notes
5	Many threats cited in other areas are not likely to apply in NJ, but fate of migrant populations is out of NJ's hands. Current fluctuations may not be evidence of major decline. S seems most justified, as demonstrably secure has to be doubted, given current situation in other parts of the continent.
	Average Certainty: 5
Other <u>NO VOTE</u>	Consensus (85%) Reached? YES
SPECIES: Early Hai	irstreak
	Erora laeta
	Consensus reached in <u>Round 2</u>

Proposed status: Not Applicable (Extirpated)*

Tally and Overall Certainty per Round

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Overall Certainty
Round 1	0	0	0	0	0	2	5	7
Round 2	0	0	0	0	0	0	7	6.71

Round 1

Tallied Votes:								
Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	0	0	0	0	0	2	5	7
Justifications:								
Endangered	NO VOTES							
Threatened	NO VOTES							
Special Conce	ern <u>NO VOTES</u>							
Stable/Secure	NO VOTES							
Other								
Individual Certa	ainty Notes							

7

Not Applicable: No definite records†. Could occur in New Jersey†. Rare and local New England south

through	Appalachians.
---------	---------------

6	Not Applicable: Extirpated if ever resident
8	Not Applicable: <u>Extirpated</u> . Based on a single literature record, uncertain whether ever a resident.
7	Not Applicable – <u>Extirpated</u> .
Not indicated	No Opinion
7	Not Applicable: NJ on edge of range and probably not a resident species.
Not indicated	No Opinion
	Average Certainty NA: 7

Consensus (85%) Reached in Round 1? NO

Round 2

Tallied Votes:

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	0	0	0	0	0	0	7	6.71
Justifications:								
Endangered	NO VOTES							
Threatened	NO VOTES							
Special Conce	rn <u>NO VOTES</u>							
Stable/Secure	NO VOTES							
Other					% (of Votes: 100		
Individual Certa	ainty Notes							
7	Not Applica	able: Extirpated						
6	Not Applica	able: Extirpated, i	f it ever was in	digenous. No	records to supp	oort anything e	lse.	
6	Not Applica	able: Agree with v	oters who note	it is uncertair	whether this s	pecies was eve	er resident in NJ.	
7	Not Applica	able: Probably ha	s never been a	NJ resident, t	hus extirpated.			
6	Not Applica	able: Extirpated if	ever resident.					
8	Not Applica	able: Extirpated, if	ever resident.					
7	Same asse	essment as per Ro	ound 1 comme	nts.				

Average Certainty: 6.71

Consensus (85%) Reached in Round 2? YES

SPECIES: Sleepy Duskywing

Erynnis brizo

Consensus reached in Round 4

Proposed status: Special Concern

Tally and Overall Certainty per Round

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Overall Certainty
Round 1								
Round 2	0	0	3	3	0	1	0	Not Calc
Round 3	0	0	5	2	0	0	0	6.43
Round 4	0	0	6	1	0	0	0	6.67

Round 1

Species did not undergo first round assessment. Species added in Round 2 as per a panelist's request.

Tallied Votes:								
Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	0	0	3	3	0	1	0	Not Calc
Justifications:								
Endangered	NO VOTES							
Threatened	NO VOTES							
Special Conc Individual Cer					% (of Votes: 42.9)	
5	of them in also perha counts. F	The SJBF log has compiled only 44 reports for this species in total over six years (~7 reports/year), almost all of them in the single digits. Its early flight season in mostly out-of-the-way areas in the Pine Barrens: and also perhaps the difficulty of its identification for some observers: might be contributing factors to those low counts. However, my vote (pending other panelists' comments on this species) is that we consider it for "Special Concern."						nd Iow
8	Declined dramatically in the past century from NNJ. Has declined in the peripheral part of the Pine Barrens, such as Camden and Cumberland counties. Found in Cape May country in the recent decade? Has not been found in Chatsworth in past 5 (10?) years. Can be found in Warren Grove but it is very uncommon. Threatened by gypsy moth spraying being an oak feeder.							
	I would ev	ven consider threat	ened for next r	ound.				
5	,	in North Jersey (< s better, may merit		,,	ways seen in ve	ry low number	s. If South Jerse	зy

Average Certainty: 6

Stable/Secure	% of Votes: 42.9
Individual Certainty	Notes
6	Apparently Secure- Locally common in northern NJ, especially along ridge tops. Apparently not declining. More common in southern NJ, particularly in the Pine Barrens.
6	Apparently Secure- Uncommon and local but widespread. Found on ridge-tops in NW part of state, but most common in Pinelands or Pinelands outliers.
Not Indicated	Apparently Secure- widespread sightings in NJ.
	Average Certainty: Not Calculated
Other	% of Votes: 14.3
Individual Certainty	Notes
7	Waiting to see what others have to say on this. Small numbers, widespread in southern New Jersey

Average Certainty: 7

Consensus (85%) Reached in Round 2? NO

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	0	0	5	2	0	0	0	6.43
Justifications:								
Endangered	NO VOTES							
Threatened	NO VOTES							
Special Conc	ern				% (of Votes: 71.4		
Individual Cert	ainty Notes							
5	the decline	Locally common in small numbers in north-western NJ, but apparently holding steady. However, considering the declines particularly in the Pine Barrens reported by panelists from southern NJ, I am revising my assessment to Special Concern.						
6		I remain with SC since the comments from South Jersey indicate declines, low numbers, and only scattered reports, so the situation is similar to NNJ.						
	Very glad t sent us.	o see other panel	lists voting for s	species of cor	ncern when this	wasn't original	ly on the list NJD	ΈP
8	such as Ca found in Cl	ramatically in the amden and Cumb natsworth in past d by gypsy moth s	erland counties 5 (10?) years.	s. Found in Ca Can be found	ape May county in Warren Grov	in recent deca	de? Has not bee	
	Agree with	other species of	concern comm	ents 100%				

Individual Certainty	Notes
	No butterfly species is safe on ridge tops with climate change.
7	There is an even split on this one and I would lean towards the SC listing in order to have it on the conservation radar.
7	Round 2 was our first compilation of comments on this species. I am more convinced it deserves SC now that I have read other panelists' comments.
	Average Certainty: 6.6
Stable/Secure	% of Votes: 28.6

Individual Certainty	Notes
6	Apparently Secure- Uncommon but widespread. Found along ridge tops in Sussex and Warren counties and pineland remnants in southern and central NJ.
6	Apparently Secure- Small numbers, widespread in southern New Jersey, no threats identified.
	Average Certainty: 6

Other NO VOTES

Consensus (85%) Reached in Round 3? NO

Round 4

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	0	0	6	1	0	0	0	6.67
Justifications:								
Endangered	NO VOTES							
Threatened	NO VOTES							
Special Conce	ern				% c	of Votes: 85.7	,	
Individual Certa	ainty Notes							
6		cally common in n Barrens solidify t				holding steady	, declines particu	larly
Not Indicate		v vote to SC based NJ appear to be		of declines fi	rom southern N.	J panelists. Sr	nall ridge-top colo	onies
6		pecies for which it s population statu		ul to have a c	entralized datab	base of reports	in order to better	
	0	th SC. See Round				,		
8	Theats we		-,		ar nabitat, ana g	JI - J		

Special Concern: Keeping my vote for this status. It may once have been widespread in southern NJ, but

6 da	ta from SJBF log (2008:2014) do not support that interpretation now.
------	--

Special Concern: This species has declined considerably and needs further research and surveying. 8

Average	Certainty:	6.8

Stable/Secure	% of Votes: 14.3
Individual Certainty	Notes
	Apparently Secure- Small numbers, widespread in southern New Jersey, including 2014, no threats identified.
	Average Certainty: 6
Other NO VOTES	
	Consensus (85%) Reached? YES
SPECIES: Columbine	Duskywing
Er	ynnis lucilius
	Consensus reached in <u>Round 2</u>

Proposed status: Unknown

Tally and Overall Certainty per Round

Stable/Secure NO VOTES

Status	Endangered	Threatened	Special	Secure	Unknown	No	Not	Overall
			Concern			Opinion	Applicable	Certainty
Round 1	1	0	0	0	2	4	0	6
Round 2	1	0	0	0	3	1	2	6.14

Round 1											
Tallied Votes:											
Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty			
Count	1	0	0	0	2	4	0	6			
Justifications:											
Endangered	Seture Martine										
Individual Certa	iinty Notes										
5		ns potentially can s in the field.	still exist. Host	plant is comm	on in NNJ? Dus	skywings have	always been diff	icult			
					Ave	erage Certainty	<u>/: 5</u>				
Threatened	<u>NO VOTES</u>										
Special Conce	rn <u>NO VOTES</u>										

Other	
Individual Certainty	Notes
8	Unknown: Very difficult to separate from Wild Indigo Duskywing. Its host plant and preferred habitat are common in northern New Jersey.
3	No Opinion: Don't know of any recent records but difficult to tell from Wild Indigo Duskywing
7	Unknown: Difficult to evaluate past and present population status owing to near-impossibility of separating this species from Wild Indigo Duskywing (which may also utilize its columbine host plant).
Not indicated	No Opinion
7	No Opinion: <u>Historic</u>
Not indicated	No Opinion
	Average Certainty U: 7.5

Consensus (85%) Reached in Round 1? NO

Round 2

Tallied Votes:

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certair
Count	1	0	0	0	3	1	2	6.14
Justifications:								
Endangered					% c	of Votes: 14.3		
Individual Certa	ainty Notes							
6	identify co	ns can still potentia mpared with the co and looking at histo	ommon wild inc	digo duskywir	ig, thus the impo	ortance of colle	ecting specimens.	
					Ave	rage Certainty	<u>. 6</u>	
Threatened	NO VOTES							
Special Conce	ern <u>NO VOTES</u>							
Stable/Secure	NO VOTES							
Other					% c	of Votes: 85.7		
Individual Certa	ainty Notes							
8		Very difficult to se n northern New Je		ild Indigo Dus	kywing. Its hos	t plant and pre	ferred habitat are	
5	Unknown	U is the best choic	ce, given difficu	ulty in ID and	lack of specific i	nformation.		
6		able: Apparently n				ate. Certainty	undercut by difficu	ulty

No Opinion: Don't know of any recent records but difficult to tell from Wild Indigo Duskywing so I truly don't have any opinion on this species.
 Unknown: Difficult to evaluate past and present population status owing to near-impossibility of separating this species from Wild Indigo Duskywing (which may also utilize its columbine host plant).
 Same assessment as per Round 1 comments.

SPECIES: Mottled Duskywing

Erynnis martialis

Consensus reached in Round 2

Consensus (85%) Reached in Round 2? YES

Proposed status: Not Applicable (Extirpated)*

Tally and Overall Certainty per Round

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Overall Certainty
Round 1	0	0	0	0	0	2	5	6.4
Round 2	0	0	0	0	0	0	7	6.17

	Round 1												
Tallied Votes	:												
Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty					
Count	0	0	0	0	0	2	5	6.4					
Justifications	:												
Endangered	NO VOTES												
Threatened	<u>NO VOTES</u>												
Special Con	cern <u>NO VOTES</u>												
Stable/Secu	re <u>NO VOTES</u>												
Other													
Individual Ce	rtainty Notes												
6		able: <u>Historical,</u> po sent from NE US. nia.											

6 Not Applicable: Extirpated.

ated.

5 Not Applicable: Probably Extirpated.

Not indicated No Opinion

7 Not Applicable: Extirpated

Not indicated No Opinion

Average Certainty NA: 6.4

Consensus (85%) Reached in Round 1? NO

Round 2

Т	allied Votes:								
	Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
	Count	0	0	0	0	0	0	7	6.17
	ustifications:								
E	ndangered	<u>NO VOTES</u>							
T	hreatened	NO VOTES							
S	pecial Conc	ern <u>NO VOTES</u>							
S	table/Secure	e <u>NO VOTES</u>							
о	ther					% c	of Votes: 100		
In	dividual Cert	ainty Notes							
	6	Not Applic	able: Extirpated						
	4		able: Extirpated b					ow we are suppo	sed
	-	10 11021 39					gina wincj.		
	6	Not Applic	able: Extirpated.						
	5	Not Applic	able: Extirpated.						
	Not Indicat	ed Not Applic	cable: Extirpated						
	8		cable: Extirpated. I					s the early 1990s,	and
	8	Same ass	essment as per Ro	ound 1 comme	nts.				

Average Certainty: 6.17

SPECIES: Persius Duskywing

Erynnis persius

Consensus reached in <u>Round 2</u>

Proposed status: Not Applicable

Tally and Overall Certainty per Round

Status	Endangered	Threatened	Special	Secure	Unknown	No	Not	Overall
			Concern			Opinion	Applicable	Certainty
Round 1	0	0	0	0	1	2	4	6
Round 2	0	0	0	0	2	0	5	6.29

Status Endangered Threatened Special Secure Unknown No Not Applicable Centail Count 0 0 0 1 2 4 6 Justifications:				Not					
Status Endangered Threatened Special Concern Secure Unknown No Not Option Applicable Count 0 0 0 0 1 2 4 6 Justifications: Image: Concern NO YOTES Image: Concern NO YOTES Image: Concern NO YOTES Special Concern NO YOTES Image: Concern NO YOTES Image: Concern Image: Concern	Tallied Votes:								
Count0001246Justifications:EndangeredNOVOTESNovOTESSpecial ConcernNO VOTESNot VOTESStable/SecureNot VOTESOtherIndividual CertaintyNotesOtherIndividual CertaintyNotesOtherIndividual CertaintyNotesOtherIndividual CertaintyNotesIndividual CertaintyNotesIndividual CertaintyNotesIndividual CertaintyNotesIndividual CertaintyNotesIndividual CertaintyNot Applicable: Extirpated: May never have been in New Jersey. Not described until 1936†. Most old records probably were of Wild Indigo Duskywing. Extremely rare in the east, confined to a few locations in eastern New England‡.6Not Applicable: Extirpated if ever residentJuskywing.5Not Applicable: Potentially extirpated.Not Applicable: Potentially extirpated.7Not Applicable: Potentially extirpated.7Not Applicable: Historic7Not Applicable: Historic7 <th></th> <th>Endangered</th> <th>Threatened</th> <th></th> <th>Secure</th> <th>Unknown</th> <th></th> <th></th> <th>Certaint</th>		Endangered	Threatened		Secure	Unknown			Certaint
Endangered NO VOTES Threatened NO VOTES Special Concern NO VOTES Stable/Secure NO VOTES Stable/Secure Not VOTES Other Individual Certainty Individual Certainty Notes 5 Not Applicable: Extirpated: May never have been in New Jersey. Not described until 1936†. Most old records probably were of Wild Indigo Duskywing. Extremely rare in the east, confined to a few locations in eastern New England‡. 6 Not Applicable: Extirpated if ever resident 7 Unknown: Difficult to evaluate past and present population status owing to similarity to Wild Indigo Duskywing. 5 Not Applicable: Potentially extirpated. Not indicated No Opinion 7 Not Applicable: Potentially extirpated. 7 Not Applicable: Potentially extirpated.	Count	0	0	0	0	1			6
Threatened NO VOTES Special Concern NO VOTES Stable/Secure NO VOTES Other Not Applicable: Extirpated: May never have been in New Jersey. Not described until 1936†. Most old records probably were of Wild Indigo Duskywing. Extremely rare in the east, confined to a few locations in eastern New England‡. 6 Not Applicable: Extirpated if ever resident 7 Unknown: Difficult to evaluate past and present population status owing to similarity to Wild Indigo Duskywing. 5 Not Applicable: Potentially extirpated. Not indicated Not Opinion 7 Not Applicable: Historic	Justifications:								
Special Concern NO VOTES Stable/Secure NO VOTES Other Not Applicable: Extirpated: May never have been in New Jersey. Not described until 1936†. Most old records probably were of Wild Indigo Duskywing. Extremely rare in the east, confined to a few locations in eastern New England‡. 6 Not Applicable: Extirpated if ever resident 7 Unknown: Difficult to evaluate past and present population status owing to similarity to Wild Indigo Duskywing. 5 Not Applicable: Potentially extirpated. Not indicated No Opinion 7 Not Applicable: Historic	Endangered	NO VOTES							
Stable/Secure NO VOTES Other Notes Individual Certainty Notes 5 Not Applicable: Extirpated: May never have been in New Jersey. Not described until 1936†. Most old records probably were of Wild Indigo Duskywing. Extremely rare in the east, confined to a few locations in eastern New England‡. 6 Not Applicable: Extirpated if ever resident 7 Unknown: Difficult to evaluate past and present population status owing to similarity to Wild Indigo Duskywing. 5 Not Applicable: Potentially extirpated. Not indicated No Opinion 7 Not Applicable: Historic	Threatened	NO VOTES							
Other Individual Certainty Notes 1ndividual Certainty Not Applicable: Extirpated: May never have been in New Jersey. Not described until 1936†. Most old records probably were of Wild Indigo Duskywing. Extremely rare in the east, confined to a few locations in eastern New England‡. 6 Not Applicable: Extirpated if ever resident 7 Unknown: Difficult to evaluate past and present population status owing to similarity to Wild Indigo Duskywing. 5 Not Applicable: Potentially extirpated. Not indicated No Opinion 7 Not Applicable: Historic	Special Conce	ern <u>NO VOTES</u>							
Individual Certainty Notes 5 Not Applicable: <u>Extirpated</u> : May never have been in New Jersey. Not described until 1936†. Most old records probably were of Wild Indigo Duskywing. Extremely rare in the east, confined to a few locations in eastern New England‡. 6 Not Applicable: <u>Extirpated</u> if ever resident 7 Unknown: Difficult to evaluate past and present population status owing to similarity to Wild Indigo Duskywing. 5 Not Applicable: Potentially <u>extirpated</u> . Not indicated No Opinion 7 Not Applicable: <u>Historic</u>	Stable/Secure	NO VOTES							
 Not Applicable: Extirpated: May never have been in New Jersey. Not described until 1936[†]. Most old records probably were of Wild Indigo Duskywing. Extremely rare in the east, confined to a few locations in eastern New England[‡]. Not Applicable: Extirpated if ever resident Unknown: Difficult to evaluate past and present population status owing to similarity to Wild Indigo Duskywing. Not Applicable: Potentially extirpated. Not Applicable: Potentially extirpated. Not Applicable: Potentially extirpated. Not Applicable: Potentially extirpated. 	- · ·	ainty Notes							
 7 Unknown: Difficult to evaluate past and present population status owing to similarity to Wild Indigo Duskywing. 5 Not Applicable: Potentially <u>extirpated</u>. Not indicated No Opinion 7 Not Applicable: <u>Historic</u> 		Not Applic records pr	obably were of Wi	May never ha Id Indigo Dusk	ve been in Ne sywing. Extre	w Jersey. Not o mely rare in the	described until east, confined	1936†. Most ol to a few locatior	d ns in
 7 Duskywing. 5 Not Applicable: Potentially <u>extirpated</u>. Not indicated No Opinion 7 Not Applicable: <u>Historic</u> 	6	Not Applic	Not Applicable: Extirpated if ever resident						
Not indicated No Opinion 7 Not Applicable: <u>Historic</u>	7			te past and pre	esent populati	on status owing	to similarity to	Wild Indigo	
7 Not Applicable: <u>Historic</u>	5	Not Applic	able: Potentially <u>e</u>	xtirpated.					
	Not indicate	ed No Opinio	n						
Not indicated No Opinion	7	Not Applic	able: <u>Historic</u>						
	Not indicate	ed No Opinio	n						

Average Certainty U: 7 NA: 5.75

Consensus (85%) Reached in Round 1? NO

Round 2

Tallied Votes:									
Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty	
Count	0	0	0	0	2	0	5	6.29	
Justifications:									
Endangered	NO VOTES								
Threatened	NO VOTES								
Special Conce	ern <u>NO VOTES</u>								
Stable/Secure	<u>NO VOTES</u>								
Other					% c	of Votes: 100			
Individual Certa	ainty Notes								
7		May never have l rare in the east, c					ndigo Duskywing		
5	Not Applic	able: <u>Extirpated</u> , if	f it ever was ind	digenous. No	records to supp	ort anything el	se.		
7	Not Applic	able: If it was ever	r present here,	it is now appa	arently <u>extirpate</u>	<u>d</u> .			
5	Not Applic	able: <u>Extirpated</u> .							
6	Extirpated	if ever resident.							
7		Unknown: Difficult to evaluate past and present population status owing to similarity to Wild Indigo Duskywing.							
7	Same ass	essment as per Ro	ound 1 comme	nts.					
					Ave	erage Certainty	/: 6.14		

Consensus (85%) Reached in Round 2? YES

SPECIES: Baltimore Checkerspot

Euphydryas phaeton

Consensus reached in Round 2

Proposed status: SPECIAL CONCERN

Tally and Overall Certainty per Round

Status	Endangered	Threatened	Special	Secure	Unknown	No	Not Applicable	Overall
Round 1	1	0	Concern 4	0	0	Opinion 2	Applicable 0	Certainty 6.2
Round 2	1	0	6	0	0	0	0	6.71
			Rou	nd 1				
Tallied Votes: Status	Endangered	Threatened	Special	Secure	Unknown	No	Not	Certainty
_			Concern			Opinion	Applicable	
Count	1	0	4	0	0	2	0	6.2
Justifications:								
Endangered								
ndividual Cert	tainty Notes							
7	Historical	ly used to be comr	non throughout	the state. Ve		g populations. erage Certainty		
Threatened	<u>NO VOTES</u>							
Special Conc	ern							
ndividual Cert	tainty Notes							
6		ly declining though as where it was on				ver, in the pas	t few years even i	in
5	Widespre	ad but local in nort	hern part of sta	te. Number	of sites where fo	ound is definite	ly down.	
6		to be a general dec sing out to success					land in northern l	NJ is
7		ies appears to hav effort to determine						
					Ave	erage Certainty	<u>/: 6</u>	
Stable/Secure	e <u>NO VOTES</u>							
Other								
Individual Cert	tainty Notes							
Not indicat	ed No Opinic	n						
Not indicat	South Jer counties.	on: "Always rare in sey observers hav North & Central N us. It seems not b	e mentioned to lew Jersey obse	me that they ervers should	have recorded be the people r	this species in	the southern eigl	ht
					Δνα	arage Certaint	/ Not calculated	

Average Certainty: Not calculated

Consensus (85%) Reached in Round 1? NO

Round 2

	Endangered	Threatened	Special	Secure	Unknown	No	Not	Certainty
Count	1	0	Concern 6	0	0	Opinion 0	Applicable 0	6.71
lustifications:								
Endangered					% c	of Votes: 14.3		
ndividual Certa	inty Notes							
8	has decli when it d Not much	h being endangere ned tremendously i id historically occur n literature on butte	n over 50 year in SNJ. rfly species, es	s. It being abs	sent in SNJ is en	lough for me t	o say it is endang	jered
	previous	locations that are n	ow gone.					
					Ave	rage Certainty	/: 8	
Threatened	NO VOTES							
Special Conce	rn				% c	of Votes: 85.7		
ndividual Certa								
8		ead but local in nort dramatically in the						
5		No clear threat is identified, although habitat/host plant loss seems to be the main vulnerability and decline seems to be generally supported.						
6	observers	Apparently no longer found on the Coastal Plain. No SJBF records, 2008:2013, and no South Jersey observers have mentioned to me that they have recorded this species in the southern eight counties. Based on this and comments of other voters, I have changed my vote.						
6	•	ead but local in nort of succession and						
		Not ready to consider a higher status until a comprehensive survey of its habitats provides a better idea of its population status.						
7								
7 7	Same as	sessment as per Ro	ound 1 comme	ents.				
	Same as	sessment as per Ro	ound 1 comme	ents.	Ave	rage Certainty	<u>/: 6.5</u>	
	Same ass <u>NO VOTES</u>		ound 1 comme	ents.	Ave	erage Certainty	<u>r. 6.5</u>	

Consensus (85%) Reached in Round 2? YES

SPECIES: Two-spotted Skipper

Euphyes bimacula

Consensus reached in Round 4

Proposed status: Threatened

Tally and Overall Certainty per Round

Status	Endangered	Threatened	Special	Secure	Unknown	No	Not	Overall
			Concern			Opinion	Applicable	Certainty
Round 1	1	2	1	0	1	2	0	6
Round 2	1	5	1	0	0	0	0	5.86
Round 3	1	5	1	0	0	0	0	6.29
Round 4	0	6	1	0	0	0	0	6.57

Concern Opinion Applicable	Tallied Votes:								
Justifications: Endangered Individual Certainty Notes A rare skipper of wetland habitats that are being overgrown. Already a species of concern, this species should be elevated because of the loss of habitat that has already and will continue to occur. Management plans need to be placed to keep this skipper going extinct in the state. Breatened Individual Certainty Notes Threatened Individual Certainty Notes 5 Very rare with limited declining habitat. 5 Very rare with limited declining habitat. This is another skipper (after Leonard's) with a current state status of "Species of Special Concern" that I would like to see at least considered for "Threatened" status. Like dotted skipper, this species is limited to relatively inaccessible Pine Barrens areas which are not often investigated by field observers, so that undercuts my Confidence level. However, based on the scarcity of records- only 15 reports (totaling only 24 individuals), 12 of which from the same limited area in Parker Preserve (and most by Stephen Mason during his intensive survey of the Preserve): this seems a species to consider for a change of status. Unlike dotted skipper, it is an eye-catching easy ID – but we have even fewer records. My sense is that two-spotted could be rarer than dotted and more vulnerable. Again, I admit my Confidence Level is low. It is a species of	Status	Endangered	Threatened		Secure	Unknown			Certainty
Endangered Individual Certainty Notes A rare skipper of wetland habitats that are being overgrown. Already a species of concern, this species should be elevated because of the loss of habitat that has already and will continue to occur. Management plans need to be placed to keep this skipper going extinct in the state. 8 Plans need to be placed to keep this skipper going extinct in the state. Average Certainty: 8 Threatened Individual Certainty Notes 5 Very rare with limited declining habitat. 5 Very rare with limited declining habitat. This is another skipper (after Leonard's) with a current state status of "Species of Special Concern" that I would like to see at least considered for "Threatened" status. Like dotted skipper, this species is limited to relatively inaccessible Pine Barrens areas which are not often investigated by field observers, so that undercuts my Confidence level. However, based on the scarcity of records- only 15 reports (totaling only 24 individuals), 12 of which from the same limited area in Parker Preserve (and most by Stephen Mason during his intensive survey of the Preserve): this seems a species to consider for a change of status. Unlike dotted skipper, it is an eye-catching easy ID - but we have even fewer records. My sense is that two-spotted could be rarer than dotted and more vulnerable. Again, I admit my Confidence Level is low. It is a species of muck, and so chasing it requires special determination: which might suppress the count and so make the species seem less numerous than it actually is. I hope that is the case and that I am wrong	Count	1	2	1		1	2		6
Individual Certainty Notes A rare skipper of wetland habitats that are being overgrown. Already a species of concern, this species should be elevated because of the loss of habitat that has already and will continue to occur. Management plans need to be placed to keep this skipper going extinct in the state. 8 Average Certainty: 8 Fhreatened Average Certainty: 8 5 Very rare with limited declining habitat. 5 Very rare with limited declining habitat. 6 This is another skipper (after Leonard's) with a current state status of "Species of Special Concern" that I would like to see at least considered for "Threatened" status. Like dotted skipper, this species is limited to relatively inaccessible Pine Barrens areas which are not often investigated by field observers, so that undercuts my Confidence level. However, based on the sacrity of records- only 15 reports (totaling only 24 individuals), 12 of which from the same limited area in Parker Preserve (and most by Stephen Mason during his intensive survey of the Preserve): this seems a species to consider for a change of status. Unlike dotted skipper, it is an eye-catching easy ID – but we have even fewer records. My sense is that two-spotted could be rarer than dotted and more vulnerable. Again, I admit my Confidence Level is low. It is a species of muck, and so chasing it requires special determination: which might suppress the count and so make the species seem less numerous than it actually is. I hope that is the case and that I am wrong in worrying about this butterfly.	Justifications:								
A rare skipper of wetland habitats that are being overgrown. Already a species of concern, this species should be elevated because of the loss of habitat that has already and will continue to occur. Management plans need to be placed to keep this skipper going extinct in the state. 8 Plans need to be placed to keep this skipper going extinct in the state. Average Certainty: 8 Threatened Individual Certainty Notes 5 Very rare with limited declining habitat. This is another skipper (after Leonard's) with a current state status of "Species of Special Concern" that I would like to see at least considered for "Threatened" status. Like dotted skipper, this species is limited to relatively inaccessible Pine Barrens areas which are not often investigated by field observers, so that undercuts my Confidence level. However, based on the scarcity of records- only 15 reports (totaling only 24 individuals), 12 of which from the same limited area in Parker Preserve (and most by Stephen Mason during his intensive survey of the Preserve): this seems a species to consider for a change of status. Unlike dotted skipper, it is an eye-catching easy ID – but we have even fewer records. My sense is that two-spotted could be rarer than dotted and more vulnerable. Again, I admit my Confidence Level is low. It is a species of muck, and so chasing it requires special determination: which might suppress the count and so make the species seem less numerous than it actually is. I hope that is the case and that I am wrong in worrying about this butterfly.	Endangered								
 should be elevated because of the loss of habitat that has already and will continue to occur. Management plans need to be placed to keep this skipper going extinct in the state. <u>Average Certainty: 8</u> Threatened ndividual Certainty Notes 5 Very rare with limited declining habitat. This is another skipper (after Leonard's) with a current state status of "Species of Special Concern" that I would like to see at least considered for "Threatened" status. Like dotted skipper, this species is limited to relatively inaccessible Pine Barrens areas which are not often investigated by field observers, so that undercuts my Confidence level. However, based on the scarcity of records- only 15 reports (totaling only 24 individuals), 12 of which from the same limited area in Parker Preserve (and most by Stephen Mason during his intensive survey of the Preserve): this seems a species to consider for a change of status. Unlike dotted skipper, it is an eye-catching easy ID - but we have even fewer records. My sense is that two-spotted could be rarer than dotted and more vulnerable. Again, I admit my Confidence Level is low. It is a species of muck, and so chasing it requires special determination: which might suppress the count and so make the species seem less numerous than it actually is. I hope that is the case and that I am wrong in worrying about this butterfly.	ndividual Certai	nty Notes							
Individual Certainty Notes 5 Very rare with limited declining habitat. 5 Very rare with limited declining habitat. This is another skipper (after Leonard's) with a current state status of "Species of Special Concern" that I would like to see at least considered for "Threatened" status. Like dotted skipper, this species is limited to relatively inaccessible Pine Barrens areas which are not often investigated by field observers, so that undercuts my Confidence level. However, based on the scarcity of records- only 15 reports (totaling only 24 individuals), 12 of which from the same limited area in Parker Preserve (and most by Stephen Mason during his intensive survey of the Preserve): this seems a species to consider for a change of status. Unlike dotted skipper, it is an eye-catching easy ID – but we have even fewer records. My sense is that two-spotted could be rarer than dotted and more vulnerable. Again, I admit my Confidence Level is low. It is a species of muck, and so chasing it requires special determination: which might suppress the count and so make the species seem less numerous than it actually is. I hope that is the case and that I am wrong in worrying about this butterfly.	8	should be	elevated because	of the loss of h	habitat that ha	as already and w ct in the state.	ill continue to	occur. Manageme	ent
5 Very rare with limited declining habitat. 5 Very rare with limited declining habitat. This is another skipper (after Leonard's) with a current state status of "Species of Special Concern" that I would like to see at least considered for "Threatened" status. Like dotted skipper, this species is limited to relatively inaccessible Pine Barrens areas which are not often investigated by field observers, so that undercuts my Confidence level. However, based on the scarcity of records- only 15 reports (totaling only 24 individuals), 12 of which from the same limited area in Parker Preserve (and most by Stephen Mason during his intensive survey of the Preserve): this seems a species to consider for a change of status. Unlike dotted skipper, it is an eye-catching easy ID – but we have even fewer records. My sense is that two-spotted could be rarer than dotted and more vulnerable. Again, I admit my Confidence Level is low. It is a species of muck, and so chasing it requires special determination: which might suppress the count and so make the species seem less numerous than it actually is. I hope that is the case and that I am wrong in worrying about this butterfly.									
This is another skipper (after Leonard's) with a current state status of "Species of Special Concern" that I would like to see at least considered for "Threatened" status. Like dotted skipper, this species is limited to relatively inaccessible Pine Barrens areas which are not often investigated by field observers, so that undercuts my Confidence level. However, based on the scarcity of records– only 15 reports (totaling only 24 individuals), 12 of which from the same limited area in Parker Preserve (and most by Stephen Mason during his intensive survey of the Preserve): this seems a species to consider for a change of status. Unlike dotted skipper, it is an eye-catching easy ID – but we have even fewer records. My sense is that two-spotted could be rarer than dotted and more vulnerable. Again, I admit my Confidence Level is low. It is a species of muck, and so chasing it requires special determination: which might suppress the count and so make the species seem less numerous than it actually is. I hope that is the case and that I am wrong in worrying about this butterfly.	ndividual Certai	nty Notes							
 would like to see at least considered for "Threatened" status. Like dotted skipper, this species is limited to relatively inaccessible Pine Barrens areas which are not often investigated by field observers, so that undercuts my Confidence level. However, based on the scarcity of records- only 15 reports (totaling only 24 individuals), 12 of which from the same limited area in Parker Preserve (and most by Stephen Mason during his intensive survey of the Preserve): this seems a species to consider for a change of status. Unlike dotted skipper, it is an eye-catching easy ID - but we have even fewer records. My sense is that two-spotted could be rarer than dotted and more vulnerable. Again, I admit my Confidence Level is low. It is a species of muck, and so chasing it requires special determination: which might suppress the count and so make the species seem less numerous than it actually is. I hope that is the case and that I am wrong in worrying about this butterfly. 	5	Very rare	with limited declini	ng habitat.					
Average Certainty: 4.5	4	would like relatively undercuts individual his intens skipper, it be rarer tl muck, and species s	to see at least con inaccessible Pine I s my Confidence le s), 12 of which fror ive survey of the P t is an eye-catching han dotted and mo d so chasing it requ eem less numerou	nsidered for "Th Barrens areas vel. However, n the same limi reserve): this s g easy ID – but re vulnerable. uires special de	hreatened" sta which are not based on the ited area in P seems a speci we have ever Again, I admi etermination:	atus. Like dotted often investigate scarcity of reco arker Preserve (es to consider fo n fewer records. t my Confidence which might sup	skipper, this ed by field obs rds– only 15 r and most by S or a change of My sense is E Level is low. press the cour	species is limited f servers, so that eports (totaling on Stephen Mason du status. Unlike du that two-spotted c It is a species of nt and so make the	to Ily 24 uring otted could e
						Ave	erage Certaint	<u>/: 4.5</u>	

Special Concern	
Individual Certainty	Notes
8	Formally widespread species that is now highly localized in NJ and declining regionally.

Average Certainty: 8

Stable/Secure NO VOTES

Other	
Individual Certainty	Notes
5	Unknown: Possibly more common in the past, Two-spotted Skipper is rare and very local now. Currently known from only two locations in NJ. None reported from the Parker River WMA in Burlington County. I have no current information regarding the colony at the Lakehurst Bog in Ocean County. Other bogs with suitable habitat probably get less coverage.
Not Indicated	No Opinion
Not Indicated	No Opinion
	Average Certainty U: 5

Consensus (85%) Reached in Round 1? NO

Round 2

Tallied V	otes:							
Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	1	5	1	0	0	0	0	5.86

Justifications:

Endangered	% of Votes: 14.3
Individual Certainty	Notes
	A rare skipper of wetland habitats that are being overgrown. Already a species of concern, this species should be elevated because of the loss of habitat that has already and will continue to occur. Management plans need to be placed to keep this skipper from going extinct in the state.
8	This species does stray from wetland habitats into the uplands. Males do also seem to be territorial and will perch on tops of plants. It is an easy species to ID. My point is that with all these characteristics of this skipper, if it is around somewhere, it would be easy to find. However, it is rarely encountered in the Pine Barrens and SNJ.
	Host plant is known among caterpillar farmers, but has not been published.
	Average Certainty: 8
Threatened	% of Votes: 71.4
Individual Certainty	Notes
3	Apparently rare and local. Possibly declining.
7	Comments from voters in first round have raised my confidence level to 7 that this is a Threatened Species. The SJBF Log has only 15 reports (totaling only 24 individuals), 12 of which from the same limited area in Parker Preserve (and most by Stephen Mason during his intensive survey of the Preserve). Unlike dotted skipper, it is an eye-catching & easy ID – yet we have even fewer records.
	Management with the Weiter data to the Management of the string of the s

Very rare with limited declining habitat. Only current locations known to me are one site each in Burlington and Ocean counties. However, finding other sites would take a directed concerted effort so this species may

6	6	be underreported.
6	6	Absent from North Jersey and occurs at only a handful of sites in South Jersey, where the habitat is vulnerable to succession.
7	7	Same assessment as per Round 1 comments.

Average Certainty: 5.8

Special Concern	% of Votes: 14.3
Individual Certainty	Notes
4	Except for wetland succession, no clear threats identified. Not considered a strict habitat specialist (Cech and Tudor 2005). Is this a case where rarity alone is the main factor creating a perceived threat? It seems too widespread for T or E, but certainly isn't S. SC is the best option. It seems it is clearly SC in north, if not T or E, but not clearly so in southern counties
	Average Certainty: 4
Stable/Secure	NO VOTES
Other	NO VOTES

Consensus (85%) Reached in Round 2? NO

Round 3

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	1	5	1	0	0	0	0	6.29

Justifications:

6

Endangered	% of Votes: 14.2			
Individual Certainty	Notes			
8	A rare skipper of wetland habitats that are being overgrown. Already a species of concern, this species should be elevated because of the loss of habitat that has already and will continue to occur. Management plans need to be placed to keep this skipper from going extinct in the state. This species does stray from wetland habitats into the uplands. Males do also seem to be territorial and will perch on tops of plants. It is an easy species to ID. My point is that with all these characteristics of this skipper, if it is around somewhere, it would be easy to find and ID. However, it is rarely encountered in the			
	Pine Barrens and SNJ.			
	Host plant is known among caterpillar farmers, but has not been published.			
	Average Certainty: 8			
Threatened	% of Votes: 71.4			
Individual Certainty	Notes			
6	Rare and local with limited declining habitat. Known mainly from only two sites, but other ones may exist in abandoned and possibly even active cranberry bogs scattered through the Pine Barrens.			

Succession at the limited number of known sites should not be considered a minor threat, since these wetland areas are not being managed to improve or at least stabilize the situation.

Very rare with limited declining habitat. Only current locations known to me are one site each in Burlington

Individual Certainty	Notes				
5	and Ocean counties. However, finding other sites would take a directed concerted effort so this species may be underreported.				
8	We have consensus to list and majority is threatened.				
6	I am keeping my vote as Threatened, the category that drew 5 of the 7 votes last time. Rationale was detailed in Rounds 1 & 2.				
	Average Certainty: 6.2				
Special Concern	% of Votes: 14.3				
Individual Certainty	Notes				

Individual Certainty	Notes
5	Except for wetland succession, no clear threats identified. Hard to tell whether this is a case where rarity alone is the main factor creating a perceived threat. I am concerned that the habitat is hard to survey and the species may be underreported more than threatened. Not much known about ecology, so it is not clear what can be done for it. It certainly isn't S*. SC is the best option. The NatureServe and BAMONA maps suggest that this might be a species that is having trouble because of climate change. BAMONA lists the host as Carex trichocarpa Muhl. ex Willd. hairyfruit sedge, which has a distribution in NJ similar to that of the skipper. If the sedge species is declining, it might be a factor.

Average Certainty: 5

Stable/Secure	NO VOTES

Other NO VOTES

Consensus (85%) Reached in Round 3? NO

Round 4

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	0	6	1	0	0	0	0	6.57
Justifications:								
Endangered	NO VOTES							
Threatened					0/ /	of Votes: 85.7	,	
Individual Certai	ntv Notes				/0 (01 Voles. 05.7		
6	colonies m	Rare and very local with declining habitat. Known only from two sites, though with a small chance that other colonies may exist in abandoned cranberry bogs somewhere in the Pine Barrens, I will stick with "Threatened".						
6	one site ea	Very rare with limited declining habitat. Only current locations known to me are one site each in Burlington and Ocean counties. However, finding other sites would take a directed concerted effort so this species may be underreported.						
6	The majori	ty seems to be se	ettling on Threa	tened, and I v	will stay there.			
		my vote from Endering than its curre						

8	"Other ones (sites) may exist" This panel cannot speculate this on any species, not just this one.
7	Threatened: Keeping my vote for this category (could be persuaded to up to E) for reasons detailed in earlier rounds. Again, I am unconvinced by the "rarity alone" argument as a reason not to list a species. This seems to me a vulnerable species that we should be working to protect. It could soon be too late to learn why it is so rare.
8	Threatened: this species is very restricted in NJ and needs further surveying and research directed at it.
	Average Certainty: 6.83
ial Concern	% of Votes: 14.3
idual Certainty	Notes

Special Concern	% of Votes: 14.3
Individual Certainty	Notes
5	Except for wetland succession, no clear threats identified. Hard to tell whether this is a case where rarity alone is the main factor creating a perceived threat. I am concerned that the habitat is hard to survey and the species may be underreported more than threatened. Not much known about ecology, so it is not clear what can be done for it if it were listed as T or E. It certainly isn't S*. SC is the best option.
	Average Certainty: 5
Stable/Secure	NO VOTES
Other	NO VOTES
	Consensus (85%) Reached? YES
SPECIES: Dion Ski	pper
	Euphyes dion
	Consensus reached in <u>Round 2</u>
	Proposed status: <u>Secure</u>

Tally and Overall Certainty per Round

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Overall Certainty
Round 1	0	0	3	4	0	0	0	6
Round 2	0	0	1	6	0	0	0	6.29

Round 1

Tal	llied Votes	S:							
9	Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
(Count	0	0	3	4	0	0	0	6

Justifications:

Endangered	NO VOTES
------------	----------

Threatened <u>NO VOTES</u>

 Wetland habitat is relatively secure from development, though possibly vulnerable to succe Uncommon throughout the Pine Barrens but still reliable to find in the right places at the rig However, again, it is uncommon. This species should be monitored to figure out population Highly localized species but widespread in NJ. Large numbers observed in suitable habita 		
	Individual Certainty	Notes
	6	Known from only a relatively small number of sites, though occurs in good numbers at some colonies. Wetland habitat is relatively secure from development, though possibly vulnerable to succession
	8	Uncommon throughout the Pine Barrens but still reliable to find in the right places at the right times. However, again, it is uncommon. This species should be monitored to figure out population abundances.
	8	Highly localized species but widespread in NJ. Large numbers observed in suitable habitat on Ft. Dix during 2012. Appears to have declined range wide and should probably warrant great concern in NJ.

Average Certainty: 7.33

Stable/Secure	
Individual Certainty	Notes
6	Secure- Uncommon to rare and local in wet habitats, but widespread. While not seen in large numbers, it does not appear to be declining.
5	Apparently Secure- Found throughout the state in grass wetlands.
4	Apparently Secure. Widespread observations, consistent across years.
5	I would vote "Apparently Secure." The SJBF Log has 40+ reports, which is not that many, but they come from a wide variety of sites and this is a wetland species that generally requires observers to track into inaccessible, mosquito-infested areas. Furthermore, it is not an easy ID. My sense is that if we had more veteran and sharp-eyed observers willing to wade into muck in mid:summer, we would have more records. Two of our best and most diligent observers, Will Kerling and Brian Johnson, counted 117 in one site in 2012.

Average Certainty: 5

Other <u>NO VOTES</u>

Consensus (85%) Reached in Round 1? NO

Round 2

Tallied Votes:								
Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	0	0	1	6	0	0	0	6.29
Justifications:								
Endangered	NO VOTES							
Threatened	NO VOTES							
meatened								
Special Conc	ern				% o	of Votes: 14.3		
Individual Cert	ainty Notes							

See round 1 comments for species of concern. Though it is "widespread," it is still "uncommon to rare." SJBC log helps a lot with data/numbers/locations. My concern out of many is that these dion skipper records that were very numerous were on a good day where all individuals were out. 2012 could have been an outbreak

year for the species too. Hard to determine population dynamics with just observational data.

Average Certainty: 8

Stable/Secure	% of Votes: 85.7
Individual Certainty	Notes
6	Apparently Secure- Often in small numbers, but does not seem to be declining.
5	Apparently Secure. Widespread observations, consistent across years. In the absence of identified threats or clear evidence of decline, SC is not warranted.
6	Apparently Secure- The SJBF Log has 40+ reports, which is not that many, but they come from a wide variety of sites and sometimes in high numbers (e.g. 117 one day/one site). If more observers who knew how to ID this species explored bogs and muddy river edges, reports would probably go up.
6	Apparently Secure- Found throughout the state in grass wetlands. Not found in all suitable habitats but numbers don't seem to be significantly declining.
6	Apparently Secure- Uncommon and local in North Jersey, but appears to be more widespread and more common in South Jersey.
7	Same assessment as per Round 1 comments.
	Average Certainty: 6
Other <u>NO VOTES</u>	<u>S</u>
	Consensus (85%) Reached in Round 2? YES

SPECIES: Harvester

8

Fenisica tarquinius

Consensus reached in Round 4

Proposed status: Secure

Tally and Overall Certainty per Round

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Overall Certainty
Round 1	0	1	2	3	1	0	0	5.71
Round 2	0	1	2	3	1	0	0	6.14
Round 3	0	1	3	3	0	0	0	6.29
Round 4	0	0	1	6	0	0	0	6.29

Round 1

Tallied Votes	S <i>:</i>							
Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	0	1	2	3	1	0	0	5.71

Justifications:

Endangered <u>NO VOTES</u>

Threatened	
Individual Certainty	Notes
7	Not many known populations for this species. When encountered, it's usually one at a time. Some new areas for this species have been found in south NJ. Gloucester, Camden, and Salem counties should be searched for more.
	Average Certainty: 7
Special Concern	
Individual Certainty	Notes
7	Occurs in small numbers in widely scattered colonies and is dependent on an ephemeral larval host that in turn is partially dependent on American Beech that in turn is vulnerable to beech blight. Probably somewhat more common than sightings suggest, since colonies can be hard to locate.
4	I lean toward "Species of Special Concern" but admit a low confidence level. Our two dozen SJBF Log records come from only the recent two years (zero reports for first four years, 2008:11), and all but two of those records are limited to a handful of sites in Gloucester County (with two reports from a single site in Burlington Co). This seems is a tough species to find in southern NJ. In more than twenty years chasing butterflies here, I'd never seen one in this part of the state until last summer (2013). Gochfeld & Burger 1997 note its current status is "poorly known." That seems still the case, at least in the southern half of the state. See pdf of spreadsheet for SJBF Log records.
	Average Certainty: 5.5
Stable/Secure	
Individual Certainty	Notes
Individual Certainty	Notes Apparently Secure- Never common. Very small colonies persist at NJAS Scherman-Hoffman Sanctuary in Somerset County, Dismal Harmony Nature Area in Morris County, and Flatbrook-Roy WMA in Sussex County. Larger ones at Tatum Park in Monmouth County, and Chestnut Branch Park in Gloucester County. Occasional, one-off reports scattered elsewhere. Somewhat better numbers from Burlington and Gloucester Counties. Population remains very small.
	Apparently Secure- Never common. Very small colonies persist at NJAS Scherman-Hoffman Sanctuary in Somerset County, Dismal Harmony Nature Area in Morris County, and Flatbrook-Roy WMA in Sussex County. Larger ones at Tatum Park in Monmouth County, and Chestnut Branch Park in Gloucester County. Occasional, one-off reports scattered elsewhere. Somewhat better numbers from Burlington and Gloucester
6	Apparently Secure- Never common. Very small colonies persist at NJAS Scherman-Hoffman Sanctuary in Somerset County, Dismal Harmony Nature Area in Morris County, and Flatbrook-Roy WMA in Sussex County. Larger ones at Tatum Park in Monmouth County, and Chestnut Branch Park in Gloucester County. Occasional, one-off reports scattered elsewhere. Somewhat better numbers from Burlington and Gloucester Counties. Population remains very small. Secure- Normal population appears to consist of a number of local colonies that disappear but then pop up elsewhere. Harvesters feeding on beech-feeding aphids appear to be more common than those feeding on
6	Apparently Secure- Never common. Very small colonies persist at NJAS Scherman-Hoffman Sanctuary in Somerset County, Dismal Harmony Nature Area in Morris County, and Flatbrook-Roy WMA in Sussex County. Larger ones at Tatum Park in Monmouth County, and Chestnut Branch Park in Gloucester County. Occasional, one-off reports scattered elsewhere. Somewhat better numbers from Burlington and Gloucester Counties. Population remains very small. Secure- Normal population appears to consist of a number of local colonies that disappear but then pop up elsewhere. Harvesters feeding on beech-feeding aphids appear to be more common than those feeding on alder-feeding aphids. Apparently Secure- but probably should be monitored to determine factors influencing abundance and survival at known sites and further searching done to discover new colonies/populations as number of
6	Apparently Secure- Never common. Very small colonies persist at NJAS Scherman-Hoffman Sanctuary in Somerset County, Dismal Harmony Nature Area in Morris County, and Flatbrook-Roy WMA in Sussex County. Larger ones at Tatum Park in Monmouth County, and Chestnut Branch Park in Gloucester County. Occasional, one-off reports scattered elsewhere. Somewhat better numbers from Burlington and Gloucester Counties. Population remains very small. Secure- Normal population appears to consist of a number of local colonies that disappear but then pop up elsewhere. Harvesters feeding on beech-feeding aphids appear to be more common than those feeding on alder-feeding aphids. Apparently Secure- but probably should be monitored to determine factors influencing abundance and survival at known sites and further searching done to discover new colonies/populations as number of known/reported sites in small
6 6 3	Apparently Secure- Never common. Very small colonies persist at NJAS Scherman-Hoffman Sanctuary in Somerset County, Dismal Harmony Nature Area in Morris County, and Flatbrook-Roy WMA in Sussex County. Larger ones at Tatum Park in Monmouth County, and Chestnut Branch Park in Gloucester County. Occasional, one-off reports scattered elsewhere. Somewhat better numbers from Burlington and Gloucester Counties. Population remains very small. Secure- Normal population appears to consist of a number of local colonies that disappear but then pop up elsewhere. Harvesters feeding on beech-feeding aphids appear to be more common than those feeding on alder-feeding aphids. Apparently Secure- but probably should be monitored to determine factors influencing abundance and survival at known sites and further searching done to discover new colonies/populations as number of known/reported sites in small
6 6 3 Other	Apparently Secure- Never common. Very small colonies persist at NJAS Scherman-Hoffman Sanctuary in Somerset County, Dismal Harmony Nature Area in Morris County, and Flatbrook-Roy WMA in Sussex County. Larger ones at Tatum Park in Monmouth County, and Chestnut Branch Park in Gloucester County. Occasional, one-off reports scattered elsewhere. Somewhat better numbers from Burlington and Gloucester Counties. Population remains very small. Secure- Normal population appears to consist of a number of local colonies that disappear but then pop up elsewhere. Harvesters feeding on beech-feeding aphids appear to be more common than those feeding on alder-feeding aphids. Apparently Secure- but probably should be monitored to determine factors influencing abundance and survival at known sites and further searching done to discover new colonies/populations as number of known/reported sites in small

Consensus (85%) Reached in Round 1? NO

Round 2

Status	Endangered	Threatened	Special	Secure	Unknown	No	Not	Certaint		
Count	0	1	Concern 2	3	1	Opinion 0	Applicable 0	6.14		
	-			-		-	-			
ustifications:										
Endangered	NO VOTES									
Threatened					% c	of Votes: 14.3				
ndividual Certai	inty Notes									
7	abundanc as threate	known populations e. This information ened for now. Yes, flies are reviewed.	i is common ar more data nee	nong panelist ds to be colle	s, I'm sure but th cted for this spe	hat is enough cies and can l	for me to classify be used for next t			
					Ave	erage Certainty	<u>y: 7</u>			
Special Concer	m				% c	of Votes: 28.6				
Individual Certai	inty Notes									
6	2008:11), reports fro until last s	Two dozen SJBF Log records come from only the recent two years (zero reports for first four years, 2008:11), and all but two of those records are limited to a handful of sites in Gloucester County (with two reports from a single site in Burlington Co). In twenty+ years pursuing butterflies I had never seen one in SNJ until last summer (2013). Gochfeld & Burger 1997 note its current status is "poorly known." That seems still the case, at least in the southern half of the state.								
6		r meets two criteria abitat affinities," bu n status."								
					Ave	erage Certaint	<u>y: 5.5</u>			
Stable/Secure					% c	of Votes: 42.9				
Individual Certai	inty Notes									
6	Apparentl stable.	y Secure- Widely o	listributed in N	J in scattered	small colonies.	Numbers sma	all but apparently			
6	in souther	Apparently Secure- Local with widespread colonies in mostly northern NJ but new colonies are being found in southern NJ as people learn its habitat. Probably underreported since colonies usually found in small open areas in woods near water and adults don't normally come to flowers.								
7	Same ass	essment as per Ro	ound 1 comme	nts.						
					Ave	erage Certaint	y: 6.33			
Other					% c	of Votes: 14.3	3			
Individual Certai	inty Notes									
6		: All the first round finite threats identif				igh doubt as to	o whether it is see	cure,		
6					nce of decline.	igh doubt as te erage Certaint		cure,		

Consensus (85%) Reached in Round 2? NO

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	0	1	3	3	0	0	0	6.29
ustifications:								
ndangered	NO VOTES							
hreatened	cinty Notoo				% c	f Votes: 14.3		
	ainty Notes							
	abundand that is end	known populations e unless they are l ough for me to clas and a lot of others)	having an "up" ssify them as th	year. This information in the second se	ormation is comi now. Yes, more	non among pa data needs to	anelists, I'm sure be collected for	, but
7	and 'narro populatior other spec	"Harvester meets tr bw habitat affinities n status." I agree w cies, unless a popu I. Maybe that is the	but it merits S with this statement with this statement with this statement with the statement with statement with the state	Species Conce ent a lot and v ith scientific m	ern because 'the vell said. Howev nethods are appl	re is little unde er, as mentior ied is used, al	erstanding of cur ed many times v I population data	rent vith is
					Ave	rage Certainty	<u> </u>	
Special Conce					% c	f Votes: 42.9		
ndividual Certa	ainty Notes							
6	small ove	ith the individual the rall population size te status because t	and "narrow h	abitat affinitie	s",', though I	believe that S		
8	distributio	ies appears to war n. SC allows us to higher rank.						to be
6	SCseer	pecies that drew d ns an erratic speci y Stable. Details a	es that we nee	d to understa	nd better. I just			as
					Ave	rage Certainty	: 6.67	
Stable/Secure	•				% c	f Votes: 42.9		
ndividual Certa								
6	number o "erratic," " upgrade f establishe	y Secure. Althoug f individuals, most 'sporadic", "rare," e rom Special Conce ed to keep track of k, and Oak Hairstre	have persisted etc. (citations in ern, but it would all reports of a	for many yea Gochfeld an be extremel pparently thin	rrs. Apparently h d Burger). Upor y helpful if a cen ly-dispersed spe	as always been further consider the second s	n essentially "loo deration, I am wil ase could be	
6	in souther	y Secure. Local w m NJ as people lea voods near water a	arn its habitat. I	Probably unde	erreported since			
5	identified. case whe	hose who say App Rarity in itself not re it seems inappro nreatened. There s	evidence of de opriate to confe	cline. I agree er a status like	that it is likely to threatened or e	be underrepo	rted. This is ano	ther

Average Certainty: 5.7

Other NO VOTES

Count Opinion Applicable Count 0 0 1 6 0 0 6.29 Justifications: Endangered NO VOTES			Conser	isus (85%) Rea	ached in Roun	ia 3? NO			
Count Opinion Applicable Count 0 0 1 6 0 0 0 6.29 Justifications: Interview Interview 0				Roι	und 4				
Count 0 0 1 6 0 0 0 6.29 Justifications: Endangered NO VOTES No VOTES 1 6 0 0 0 6.29 Special Concern NO VOTES % of Votes: 14.3 1	Status E	Endangered	Threatened		Secure	Unknown			Certaint
Endangered NO VOTES Intreatemed NO VOTES Special Concern % of Votes: 1.3 Individual Cartainiy Notes 7 Will lower my T vote to SC from my Round 3 comments and others: 7 Will lower my T vote to SC from my Round 3 comments and others: 8 Approxem Robidual Cartainiy Notes 7 Will lower my T vote to SC from my Round 3 comments and others: 1 Lower and Cartainiy 1 Notes 8 Apparently Secure- Local with widespread, mostly very small colonies in northerm NJ with some new colonies found in the southerm part of the state. While the population remains small, there seems to be no evidence that it is declining. 6 Apparently Secure- I have seen no evidence either in the literature, personally or presented by other panelists that this local species is in decline. While it is true individuals may show up in one place and not be found the next year, there are a number of persistent colonies: Dismal Harmony Natural Area, Schermann Hoffmann Sanctuary, Tatum Park, etc. To me this species doesn't belong with the other species we're classifying as Special Concern or rarer. 7 Ig with those who say Apparently Secure, because it is widespread, and no definite threats have been identified. Rarity in itself not evidence of decline. I agree that it is likely to be underreported. This is another case where it seems inappropriate to confer a status like threatened or endangered on a species that is not epilelawer. There seems no official reason to list it as SC 7 Apparently Secure. As with checkered white, I've decided to change my vote - this time from SC to Apparently Secure. Than not entirely comfortable with that vote (con	Count	0	0		6	0			6.29
Endangered NO VOTES Intreatemed NO VOTES Special Concern % of Votes: 1.3 Individual Cartainiy Notes 7 Will lower my T vote to SC from my Round 3 comments and others: 7 Will lower my T vote to SC from my Round 3 comments and others: 8 Approxem Robidual Cartainiy Notes 7 Will lower my T vote to SC from my Round 3 comments and others: 1 Lower and Cartainiy 1 Notes 8 Apparently Secure- Local with widespread, mostly very small colonies in northerm NJ with some new colonies found in the southerm part of the state. While the population remains small, there seems to be no evidence that it is declining. 6 Apparently Secure- I have seen no evidence either in the literature, personally or presented by other panelists that this local species is in decline. While it is true individuals may show up in one place and not be found the next year, there are a number of persistent colonies: Dismal Harmony Natural Area, Schermann Hoffmann Sanctuary, Tatum Park, etc. To me this species doesn't belong with the other species we're classifying as Special Concern or rarer. 7 Ig with those who say Apparently Secure, because it is widespread, and no definite threats have been identified. Rarity in itself not evidence of decline. I agree that it is likely to be underreported. This is another case where it seems inappropriate to confer a status like threatened or endangered on a species that is not epilelawer. There seems no official reason to list it as SC 7 Apparently Secure. As with checkered white, I've decided to change my vote - this time from SC to Apparently Secure. Than not entirely comfortable with that vote (con	lustifications -								
Threatened NO VOTES Special Concer Note Individual Catination Neme 7 Will lower my T vote to SC from my Round 3 comments and others. 7 Will lower my T vote to SC from my Round 3 comments and others. Catination Catination 6 Apparently Secure - Local with widespread, mostly very small colonies in northern NJ with some new colonies from the southerm part of the state. While the population remains small, there seems to be no evidence that it is local appacetes is in decline. While it is true individuals may show up in one place and not be found in the southerm part of the state. While it is true individuals may show up in one place and not be found in the southerm part of the state. While it is true individuals may show up in one place and not be found in the southerm part of the state. While it is true individuals may show up in one place and not be found in the southerm part of the state. While it is true individuals may show up in one place and not be found in the next year, there are a number of persistent colonies. Dismal Harmony Natural Aree, Schermanne Hoffmann Sanchuary, Tatum Park, etc. To me this species doesn't belong with the other species we're classifying as Special Concern or rare. 7 Apparently Secure. Thinly dispersed, but apparently has always been so. There is no persuasive evidence of decline. I agree that it is likely to be underreported. This is another case where it seems inappropriate to corfer a status like threatened or endangered on a species that is is another species we're classifying as Special Concern or rare. 7 Igo with those who say Apparently Secure, be		NO VOTES							
Special Concerning Notes 7 Will lower my T vote to SC from my Round 3 comments and others. 7 Will lower my T vote to SC from my Round 3 comments and others. Bable/Secure Argare Cartainty. 7 Robidual Certainty Notes Stable/Secure Ye of Votes: 8:7 Individual Certainty Notes Apparently Secure- Local with widespread, mostly very small colonies in northern NJ with some new colonies found in the southern part of the state. While the population remains small, there seems to be no evidence that it is declining. 6 Apparently Secure- I have seen no evidence either in the literature, personally or presented by other panelists that this local species is in decline. While it is true individual Smay show up in one place and not be found the next year, there are a number of persistent colonies: Dismal Harmony Natural Area, Schermann-Hoffman Sanctuary, Talum Park, etc. To ne this species doesn't belong with the other species we're classifying as Special Concern or rarer. 7 Apparently Secure. Thinly dispersed, but apparently has always been so. There is no persuasive evidence of decline. J agree that it is likely to be undereported. This is another case where it a seems in happropriate to confer a status like threatened or endangered on a species that is not globally threatened. There seems no official reason to list t as SC 7 Igo with those who say Apparently Secure, because it is widespread, and no definite threats have been rease where it a seem is happropricis to confer a status like threatened or endangered on a	-								
Advisual Certainty Notes 7 Will lower my T vote to SC from my Round 3 comments and others. 7 Will lower my T vote to SC from my Round 3 comments and others. Stable/Secure Xerrage Certainty: T Stable/Secure % of Votes: 85.7 Individual Certainty Notes 6 Apparently Secure- Local with widespread, mostly very small colonies in northern NJ with some new colonies tound in the southern part of the state. While the population remains small, there seems to be no evidence that it is declining. 6 Apparently Secure- I have seen no evidence either in the literature, personally or presented by other panelists that this local species is in decline. While it is true individuals may show up in one place and not be found the next year, there are a number of persistent colonies: Dismal Harmony Natural Area, Schermann-Hoffmann Sanctuary, Tatum Park, etc. To me this species doesn't belong with the other species we're classifying as Special Concern or rarer. 7 Apparently Secure. Thinly dispersed, but apparently has always been so. There is no persuasive evidence of decline—in fact reports seem to be increasing, whether from actual population increase or more widespread searching. 7 I go with those who say Apparently Secure, because it is widespread, and no definite threats have been identified. Rarity in itself not evidence of decline. I agree that it is likely to be underreported. This is another case where it seems inappropriate to confer a status like threatened end or adangered on a species that is not globally threatened. There seems no official reaso						0/			
Apparently Secure - Inverse Network Apparently Secure - Local with widespread, mostly very small colonies in northern NJ with some new colonies for that it is declining. Apparently Secure - Local with widespread, mostly very small colonies in northern NJ with some new colonies for that it is declining. Apparently Secure - I have seen no evidence either in the literature, personally or presented by other panelists that this local species is in decline. While it is true individuals may show up in one piace and not be found the next year, there are a number of persistent colonies: Dismal Harmony Natural Area, Schermann-Hoffmann Sanctuary. Tatum Park, etc. To me this species doesn't belong with the other species we're classifying as Special Concern or rarer. Apparently Secure. Thinly dispersed, but apparently has always been so. There is no persuasive evidence of decline—in fact reports seem to be increasing, whether from actual population increase or more widespread searching. I go with those who say Apparently Secure, because it is widespread, and no definite threats have been icdentified. Rarity in itself not evidence of decline. I agree that it is likely to be underreported. This is another case where it seems no official reason to list it as SC Apparently Secure- As with checkered white, I've decided to change my vote – this time from SC to Apparently Secure. As with checkered white, I've decided to prove this species could fail quickly into trouble. apparently Secure. As with checkered white, I've decided to change my vote – this time from SC to Apparently Secure. As with checkered white, I've decided to change my vote – this time from SC to Apparently Secure. As with checkered white, I've decided to prove this species could fail	•					% (of Votes: 14.3		
Apparently Secure - Inverse Network Apparently Secure - Local with widespread, mostly very small colonies in northern NJ with some new colonies for that it is declining. Apparently Secure - Local with widespread, mostly very small colonies in northern NJ with some new colonies for that it is declining. Apparently Secure - I have seen no evidence either in the literature, personally or presented by other panelists that this local species is in decline. While it is true individuals may show up in one piace and not be found the next year, there are a number of persistent colonies: Dismal Harmony Natural Area, Schermann-Hoffmann Sanctuary. Tatum Park, etc. To me this species doesn't belong with the other species we're classifying as Special Concern or rarer. Apparently Secure. Thinly dispersed, but apparently has always been so. There is no persuasive evidence of decline—in fact reports seem to be increasing, whether from actual population increase or more widespread searching. I go with those who say Apparently Secure, because it is widespread, and no definite threats have been icdentified. Rarity in itself not evidence of decline. I agree that it is likely to be underreported. This is another case where it seems no official reason to list it as SC Apparently Secure- As with checkered white, I've decided to change my vote – this time from SC to Apparently Secure. As with checkered white, I've decided to prove this species could fail quickly into trouble. apparently Secure. As with checkered white, I've decided to change my vote – this time from SC to Apparently Secure. As with checkered white, I've decided to change my vote – this time from SC to Apparently Secure. As with checkered white, I've decided to prove this species could fail	7	Will lower	mv T vote to SC	from mv Round	3 comments	and others.			
Stable/Secure % of Votes: 8.7 Individual Certainty Notes 6 Apparently Secure - Local with widespread, mostly very small colonies in northern NJ with some new colonies found in the southern part of the state. While the population remains small, there seems to be no evidence that it is declining. 6 Apparently Secure - I have seen no evidence either in the literature, personally or presented by other panelists that this local species is in decline. While it is true individuals may show up in one place and not be found the next year, there are a number of persistent colonies: Dismal Harmony Natural Area, Schermann-Hoffmann Sanctuary, Tatum Park, etc. To me this species doesn't belong with the other species we're classifying as Special Concern or rare. 6 Apparently Secure. Thinly dispersed, but apparently has always been so. There is no persuasive evidence of decline—in fact reports seem to be increasing, whether from actual population increase or more widespread searching. 7 Igo with those who say Apparently Secure, because it is widespread, and no definite threats have been identified. Rarity in itself not evidence of decline. I agree that it is likely to be underreported. This is another case where it seems inappropriate to confer a status like threatened or endangered on a species that is not globally threatened. There seems no official reason to list it as SC 3 Apparently Secure. Atthough this species warrants further study. 3 Apparently Secure. Atthough this species warrants further study.			,				arage Certaint	w. 7	
Individual Certainty Notes Apparently Secure- Local with widespread, mostly very small colonies in northern NJ with some new colonies found in the southern part of the state. While the population remains small, there seems to be no evidence that it is declining. 6 Apparently Secure- I have seen no evidence either in the literature, personally or presented by other panelists that this local species is in decline. While it is true individuals may show up in one place and not be found the next year, there are a number of persistent colonies: Dismal Harmony Natural Area, Schemmann-Hoffmann Sanctuary, Tatum Park, etc. To me this species doesn't belong with the other species we're classifying as Special Concern or rarer. 6 Apparently Secure. Thinly dispersed, but apparently has always been so. There is no persuasive evidence of decline—in fact reports seem to be increasing, whether from actual population increase or more widespread searching. 7 I go with those who say Apparently Secure, because it is widespread, and no definite threats have been identified. Rarity in itself not evidence of decline. I agree that it is likely to be underreported. This is another case where it seems inappropriate to confer a status like threatened or endangered on a species that is not globally threatened. There seems no official reason to list it as SC 5 Apparently Secure. As with checkered white, I've decided to change my vote – this time from SC to Apparently Secure. I am not entirely comfortable with that vote (confidence level 5), but I will go along with the four voters from Round 3 as it seems we do not have the data to prove this species could fall quickly into trouble. 8 Apparently Secure. Alt						<u>Aw</u>	rage ocnam	<u>y. r</u>	
Individual Certainty Notes Apparently Secure- Local with widespread, mostly very small colonies in northern NJ with some new colonies found in the southern part of the state. While the population remains small, there seems to be no evidence that it is declining. 6 Apparently Secure- I have seen no evidence either in the literature, personally or presented by other panelists that this local species is in decline. While it is true individuals may show up in one place and not be found the next year, there are a number of persistent colonies: Dismal Harmony Natural Area, Schemmann-Hoffmann Sanctuary, Tatum Park, etc. To me this species doesn't belong with the other species we're classifying as Special Concern or rarer. 6 Apparently Secure. Thinly dispersed, but apparently has always been so. There is no persuasive evidence of decline—in fact reports seem to be increasing, whether from actual population increase or more widespread searching. 7 I go with those who say Apparently Secure, because it is widespread, and no definite threats have been identified. Rarity in itself not evidence of decline. I agree that it is likely to be underreported. This is another case where it seems inappropriate to confer a status like threatened or endangered on a species that is not globally threatened. There seems no official reason to list it as SC 5 Apparently Secure. As with checkered white, I've decided to change my vote – this time from SC to Apparently Secure. I am not entirely comfortable with that vote (confidence level 5), but I will go along with the four voters from Round 3 as it seems we do not have the data to prove this species could fall quickly into trouble. 8 Apparently Secure. Alt									
 Apparently Secure - Local with widespread, mostly very small colonies in northern NJ with some new colonies found in the southern part of the state. While the population remains small, there seems to be no evidence that it is declining. Apparently Secure - I have seen no evidence either in the literature, personally or presented by other panelists that this local species is in decline. While it is true individuals may show up in one place and not be found the next year, there are a number of persistent colonies: Dismal Harmony Natural Area, Schermann-Hoffmann Sanctuary, Tatum Park, etc. To me this species doesn't belong with the other species we're classifying as Special Concern or rarer. Apparently Secure. Thinly dispersed, but apparently has always been so. There is no persuasive evidence of decline—in fact reports seem to be increasing, whether from actual population increase or more widespread searching. I go with those who say Apparently Secure, because it is widespread, and no definite threats have been identified. Rarity in itself not evidence of decline a tatus like threatened or endangered on a species that is not globally threatened. There seems no official reason to list it as SC Apparently Secure. As with checkered white, I've decided to change my vote – this time from SC to Apparently Secure. I am not entirely comfortable with that vote (confidence level 5), but I will go along with the four voters from Round 3 as it seems we do not have the data to prove this species could fall quickly into trouble. Apparently Secure. Although this species warrants further study. 	Stable/Secure	ntv Notes				% (of Votes: 85.	7	
 panelists that this local species is in decline. While it is true individuals may show up in one place and not be found the next year, there are a number of persistent colonies: Dismal Harmony Natural Area, Schermann-Hoffmann Sanctuary, Tatum Park, etc. To me this species doesn't belong with the other species we're classifying as Special Concern or rarer. Apparently Secure. Thinly dispersed, but apparently has always been so. There is no persuasive evidence of decline—in fact reports seem to be increasing, whether from actual population increase or more widespread searching. I go with those who say Apparently Secure, because it is widespread, and no definite threats have been identified. Rarity in itself not evidence of decline. I agree that it is likely to be underreported. This is another case where it seems inappropriate to confer a status like threatened or endangered on a species that is not globally threatened. There seems no official reason to list it as SC Apparently Secure. As with checkered white, I've decided to change my vote – this time from SC to Apparently Secure. I am not entirely comfortable with that vote (confidence level 5), but I will go along with the four voters from Round 3 as it seems we do not have the data to prove this species could fall quickly into trouble. Apparently Secure. Although this species warrants further study. 	6	found in the	he southern part o						
 decline—in fact reports seem to be increasing, whether from actual population increase or more widespread searching. I go with those who say Apparently Secure, because it is widespread, and no definite threats have been identified. Rarity in itself not evidence of decline. I agree that it is likely to be underreported. This is another case where it seems inappropriate to confer a status like threatened or endangered on a species that is not globally threatened. There seems no official reason to list it as SC Apparently Secure- As with checkered white, I've decided to change my vote – this time from SC to Apparently Secure. I am not entirely comfortable with that vote (confidence level 5), but I will go along with the four voters from Round 3 as it seems we do not have the data to prove this species could fall quickly into trouble. Apparently Secure. Although this species warrants further study. 	6	panelists found the Hoffmann	that this local spect next year, there a Sanctuary, Tatun	cies is in declin ire a number of n Park, etc. To	e. While it is persistent co	true individuals i Ionies: Dismal I	may show up i Harmony Natu	n one place and ral Area, Scherm	ann-
 identified. Rarity in itself not evidence of decline. I agree that it is likely to be underreported. This is another case where it seems inappropriate to confer a status like threatened or endangered on a species that is not globally threatened. There seems no official reason to list it as SC Apparently Secure- As with checkered white, I've decided to change my vote – this time from SC to Apparently Secure. I am not entirely comfortable with that vote (confidence level 5), but I will go along with the four voters from Round 3 as it seems we do not have the data to prove this species could fall quickly into trouble. Apparently Secure. Although this species warrants further study. 	7	decline-	in fact reports see						
 Apparently Secure. I am not entirely comfortable with that vote (confidence level 5), but I will go along with the four voters from Round 3 as it seems we do not have the data to prove this species could fall quickly into trouble. Apparently Secure. Although this species warrants further study. 	5	identified. case whe	Rarity in itself not re it seems inappr	t evidence of de opriate to confe	ecline. I agree er a status like	that it is likely to threatened or e	be underrep	orted. This is ano	ther
	5	Apparentl the four ve	y Secure. I am no	ot entirely comfe	ortable with th	at vote (confide	nce level 5), b	ut I will go along	
Average Certainty: 6.2	8	Apparentl	y Secure. Althoug	gh this species	warrants furth	ner study.			
						Ave	erage Certaint	y: 6.2	

Consensus (85%) Reached in Round 3? NO

Other NO VOTES

Consensus (85%) Reached? Yes

SPECIES: Dotted Skipper

Hesperia attalus

No Consensus Reached

Proposed status: <u>Referred to ENSAC</u>

Tally and Overall Certainty per Round

Status	Endangered	Threatened	Special	Secure	Unknown	No	Not	Overall
			Concern			Opinion	Applicable	Certainty
Round 1	1	0	5	0	0	1	0	5.67
Round 2	1	3	3	0	0	0	0	6.29
Round 3	1	5	1	0	0	0	0	6.14
Round 4	1	5	1	0	0	0	0	6.29

Round 1

Tallied Votes:

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	1	0	5	0	0	1	0	5.67

Justifications:

Endangered	
Individual Certainty	Notes
8	All historic populations have been extirpated except Double Trouble State Park and Lakehurst. Colliers Mill might be gone also? New records at Franklin Parker Preserve, however, they are tiny populations soon to be extirpated. This may be the second rarest skipper in the state of NJ that has not been potentially extirpated yet right after arogos skipper.
	Average Certainty: 8
Threatened Special Concern	NO VOTES
Individual Certainty	Notes
4	Historically very rare and local. As of 1997 Gochfeld and Burger† state "Although highly local, it may occur over most of the Pine Barrens." Only three records in 2013, all at Colliers Mills WMA (Burlington County). This species continues in small numbers. Other colonies may exist in the Pine Barrens.
5	Uncommon and local. Population should be monitored.
4	Scattered sightings

The SJBF Log has only 24 reports of this species, about half from Franklin Parker Preserve by Stephen Mason during his multiyear survey there. The high counts on the log are two reports of four individuals; most are reports of one or two individuals. I'd vote for Species of Special Concern. My confidence level is only 5 because this is a species of the "heart" of Pine Barrens where observers do not go often enough, and so I do not believe that we know this species very well.

Average Certainty: 5.2

Other								
Individual Certainty	Notes							
Not Indicated	No Opinion							
					Ave	erage Certainty	Not calculated	
		Consen	sus (85%) Rea	ched in Roun	d 12 NO			
			Rou					
Tallied Votes:								
	langered	Threatened			Unknown	No Opinion	Not Applicable	Certaint
	langered 1		Rou	nd 2				Certaint 6.29
Status End	Ŭ	Threatened	Rou Special Concern	nd 2 Secure	Unknown	Opinion	Applicable	Certaint 6.29

All historic populations have been extirpated except Double Trouble State Park and Lakenurst. Colliers Mill might be gone also? New records at Franklin Parker Preserve, however, they are tiny populations soon to be extirpated. This may be the second rarest skipper in the state of NJ that has not been potentially extirpated yet right after arogos skipper.

Fire suppression is resulting in habitat for this skipper species.

Average Certainty: 8

Threatened% of Votes: 42.9Individual CertaintyNotes5Apparently very few reports in recent years.5The combination of comments from other voters and the few records on the SJBF Log has led me to change
my vote from Special Concern to Threatened. The SJBF Log has only 24 reports of this species in six years,
about half from Franklin Parker Preserve by Stephen Mason during his multiyear survey there. The high
counts are two reports of four individuals; most are reports of one or two individuals.6Apparently few populations, all with low numbers.Average Certainty: 5.33

Special Concern

8

5

% of Votes: 42.9

Individual Certainty	Notes
6	Not enough evidence on specific threats for T or E but distribution restricted to pine barrens and not common.
6	Uncommon and local. Probably underreported sites in the Pinelands. Additional sites would be found with more extensive searching.
8	Same assessment as per Round 1 comments.
	Average Certainty: 6.67
Stable/Secure	NO VOTES
Other	NO VOTES
	Consensus (85%) Reached in Round 2? NO

			Rou	nd 3				
Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	1	5	1	0	0	0	0	6.14
Justifications:								
Endangered					% c	of Votes: 14.3		_
Individual Certai	nty Notes							
8	Mill might to be extir arogos sk Comment threatene SJBF Log	ric populations hav be gone also? Ney pated. This may be ipper. Fire suppres s made for SOC di d were "few reports cited in Round 2 is ations soon to be g	w records at Fr e the second ra sion is resultin dn't seem to ha s" and "few pop s useful stating	anklin Parker arest skipper i g in habitat lo ave any data pulations." Ho	Preserve, howe n NJ that has no ss for this skipp suggesting it sh w many populati t reports are from	ever, they are to be been extirpa er species. ould be SOC. ions do you kr m FPP but as	tiny populations s ated yet right after Comment made how of? mentioned, they a	oon r for
Threatened						orage Certainty of Votes: 71.4		
Individual Certai	nty Notes							
5	A skipper Threatene	definitely in trouble ed.	e. In view of m	ost of the con	nments from Ro	und 2, I am ind	clined to stay with	1

I would try to persuade those who voted for SC to change to E or T with the following points: (1) As I mentioned for Leonard's Skipper, I don't believe that a SPECIFIC threat needs to be identified for an obviously declining species to be classified as E or T, because in most cases we are unlikely to ever discover the reason(s) for the decline of a given species. And (2) I don't think we should vote based on what we think would be found if only more searching were done. Are many species "probably underreported"? Sure—so much land is either private or otherwise inaccessible that we can never know what MIGHT be there. It seems to me to be reasonable to base our evaluation only on what is actually known about a species' current numbers and distribution. It would be unlikely that a species that is declining or has disappeared from known locations has a thriving population in some unknown spot, since any factors causing its decline are probably widespread.

ndividual Certai	inty Notes							
5		n and local in the milar downward ve illy intact.						
8		consensus to list a in as bad a shape this year.						t this
6		d: 1 for E, 3 for T, n SJBF log last Ro		keeping my	vote at T which	seems the con	npromise vote.	Data
					Ave	erage Certainty	<u>/: 6.2</u>	
Special Concer	m				°/ c	of Votes: 14.3	2	
Individual Certai					78 0	N VOICES. 14.5	,	
4	nectaring. fire sup moderate a Narrow ha attempts to obsessive	1/ha) making esti pression and prob at New Jersey occ bitat specialists lik o prevent disturba roadside mowing ttion with private c	bably in some p currences. (e this form a g nce rather than and use of coo	laces excessi roup that see manage it. F I season gras	ve prescribed b m to be at risk fi ossibly nonnativ s. These are iss Pinelands Comr	urning. Threat rom poor land ve plants are p sues that DEP	probablylow of management that bart of the problem could help deal toose to do so.	or at m and
	nectaring. fire sup moderate a Narrow ha attempts to obsessive	pression and prob at New Jersey occ bitat specialists lik o prevent disturba roadside mowing	mation impossi bably in some p currences. ke this form a g ince rather than and use of coo	laces excessi roup that see manage it. F I season gras	ve prescribed b m to be at risk fi ossibly nonnativ s. These are iss Pinelands Comr	urning. Threat rom poor land ve plants are p sues that DEP nission, if it ch	probablylow of management that bart of the problem could help deal toose to do so.	or at m and
Stable/Secure	nectaring. fire sup moderate a Narrow hai attempts to obsessive in coopera	pression and prob at New Jersey occ bitat specialists lik o prevent disturba roadside mowing	mation impossi bably in some p currences. ke this form a g ince rather than and use of coo	laces excessi roup that see manage it. F I season gras	ve prescribed b m to be at risk fi ossibly nonnativ s. These are iss Pinelands Comr	urning. Threat rom poor land ve plants are p sues that DEP nission, if it ch	probablylow of management that bart of the problem could help deal toose to do so.	or at m and
4 Stable/Secure Other	nectaring. fire supp moderate a Narrow hal attempts to obsessive in coopera	pression and prot at New Jersey occ bitat specialists lik o prevent disturba roadside mowing ttion with private c	mation impossi bably in some p currences. ke this form a g ince rather than and use of coo	laces excessi roup that see manage it. F l season gras oups and the	ve prescribed b m to be at risk fi ossibly nonnativ s. These are iss Pinelands Comr <u>Ave</u>	urning. Threat rom poor land ve plants are p sues that DEP nission, if it ch	probablylow of management that bart of the problem could help deal toose to do so.	or at m and
Stable/Secure	nectaring. fire supp moderate a Narrow hal attempts to obsessive in coopera	pression and prot at New Jersey occ bitat specialists lik o prevent disturba roadside mowing ttion with private c	mation impossi pably in some p currences. «e this form a g ince rather than and use of coo conservation gro	laces excessi roup that see manage it. F l season gras oups and the	ve prescribed b m to be at risk fi ossibly nonnativ s. These are iss Pinelands Comr <u>Ave</u>	urning. Threat rom poor land ve plants are p sues that DEP nission, if it ch	probablylow of management that bart of the problem could help deal toose to do so.	or at m and
Stable/Secure	nectaring. fire supp moderate a Narrow hal attempts to obsessive in coopera	pression and prot at New Jersey occ bitat specialists lik o prevent disturba roadside mowing ttion with private c	mation impossi pably in some p currences. «e this form a g ince rather than and use of coo conservation gro	laces excessi roup that see manage it. F l season gras oups and the	ve prescribed b m to be at risk fi ossibly nonnativ s. These are iss Pinelands Comr <u>Ave</u>	urning. Threat rom poor land ve plants are p sues that DEP nission, if it ch	probablylow of management that bart of the problem could help deal toose to do so.	or at m and

Endangered	% of Votes: 14.3
Individual Certainty	Notes
	Going against the majority and sticking with Endangered. This species could be the rarest after Argos. All the historic populations are extirpated. The few areas where they remain are in low numbers and are at the risk of being extirpated. They were found at FPP a few years ago, but the past two years, they have not been seen. Another recent location, Colliers Mill has also been inconsistent when finding them. All this meaning, even when they are found, they aren't in high numbers.
8	Any butterfly that has had dramatic range reduction should be endangered. I cannot express enough that we have to look at their historic ranges and see if they still occur in places or not. This is a species that has clearly lost a high percentage of their original range.

Average Certainty: 8

Threatened	% of Votes: 71.4
Individual Certainty	
6	A skipper definitely in trouble: only one, known, reasonably reliable location and that with only small numbers. I will stay with "Threatened".
5	Uncommon and local in the Pinelands. Colliers Mills colony is still extant but small. This species appears to be on a similar downward vector as Leonard's Skipper. The reason for this decline is unclear since habitat is still basically intact.
7	The majority of panelists have settled on Threatened, and I will stay there.
6	Threatened: Keeping my vote for T (would move to E) for reasons stated in Round 2. This is a hard-to-find butterfly apparently surviving in very few colonies and possibly now gone from Parker Preserve (no reports from there on SJBF log 2012:2014).
8	Threatened. This species is very restricted in NJ and in need of protection and further research.
	Average Certainty: 6.4
Special Concern	% of Votes: 14.3
Individual Certainty	^v Notes
4	 evidence of imminent disappearance with these mobile species that feed on common plants. NatureServe: In some places the species is very sparsely distributed over thousands of hectares (densities probably <1/ha) making estimation impossible. At other places adults are rather concentrated at least for nectaring. fire suppression and probably in some places excessive prescribed burning. Threat probablylow or moderate at New Jersey occurrences. Narrow habitat specialists like this form a group that seem to be at risk from poor land management that attempts to prevent disturbance rather than manage it. Possibly nonnative plants are part of the problem and obsessive roadside mowing and use of cool season grass. These are issues that DEP could help deal with, in cooperation with private conservation groups and the Pinelands Commission, if it chose to do so.
	Average Certainty: 4
Stable/Secure	NO VOTES
Other	NO VOTES
	Consensus (85%) Reached? NO
	Proposed Status:Referred to ENSAC
SPECIES: Leonard	d's Skipper
	Hesperia leonardus
	No Consensus Reached
	Proposed status: <u>Referred to ENSAC</u>

Tally and Overall Certainty per Round

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Overall Certainty
Round 1	2	2	3	0	0	0	0	6.43
Round 2	3	3	1	0	0	0	0	6.71
Round 3	3	4	0	0	0	0	0	6.43
Round 4	2	5	0	0	0	0	0	6.71

Round 1

Tallied Votes:

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	2	2	3	0	0	0	0	6.43

Justifications:

7

-	
Individual Certainty	Notes
8	Almost all historic populations have been <u>Extirpated</u> . Known locations (one or two?) should be monitored consistently. Some years this species has not been seen at these known locations.
8	This species has suffered massive declines in NJ over the last several years with several formally large colonies lost. It has always been highly localized in northern NJ but has become even rarer over the last several years. The cause of the decline is not clearly understood.
	Average Certainty: 8
Threatened	
Individual Certainty	Notes
7	Has recently disappeared from several sites, both in northern and southern NJ. Only two sites are known to support more than three individuals. Grassland habitat is highly vulnerable to development/agricultural practices.
5	Like Georgia satyr, this species has a number of South Jersey observers worried. The state's current status is "Species of Special Concern," and my understanding is that it is somewhat more numerous in northwestern NJ. In South Jersey it seems to be struggling to hang on. The SJBF Log has only 18 records of the species in our six years and 10 of those come from the first two years and from a single site (TNC's Mannumuskin River Preserve) where the species has not been reported by any observers since 2009. At the moment the one apparently active site is the restricted access area near the Atlantic City Airport and, as far as we know, numbers there are low. If the Mannumuskin colony has collapsed (as suggested by multiple "negative data" trips there by a number of observers over the last four years), this seems a species in serious trouble in South Jersey. Gochfeld and Burger suggested in 1997, "It should be considered for listing as Threatened." Its status seems to be even weaker today. (The "large colony in Cumberland County [up to 75 seen a day]" that B&G mention was presumably the Mannumuskin colony. I am voting for Threatened for this species – although I realize I may be outvoted/overruled by those who know the species better in the northern half of the state and feel more confident about it.
	Average Certainty: 6
Special Concern	

Once widespread but apparently local and never common, Leonard's Skipper is no longer found in most of
the state. Recorded in single digits in 2013, this species continues precariously. Since the collapse of the
Manumuskin River Preserve (Cumberland County) population in the last decade, there remain no known
strongholds, leaving only one known small colony in Sussex County. However, individuals continue to be
found sporadically at various other locations in NW New Jersey.

- Usually never found in large numbers. Sites where it's been found recently seem to be decreasing.
- Restricted habitat airports etc. Need to be searched for in previously known sites, e.g. Woodbine airport

5

Average Certainty: 5.67

Stable/Secure	NO VOTES
Other	NO VOTES

Consensus (85%) Reached in Round 1? NO

Round	2
-------	---

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty		
Count	3	3	1	0	0	0	0	6.71		
Justifications:										
Endangered					% c	of Votes: 42.9				
Individual Certa	inty Notes									
 See round 1 panelist comments for this species. All historic populations have been extirpated. Current known populations still make it difficult to find individuals. Habitat for this species is threatened by development. Many butterfly watchers have searched for this species in Cape May and Cumberland Counties but have not been successful to locate new populations. 										
8		sey down to one c substantial colonies								
8	Same ass	essment as per R	ound 1 comme	nts.						
					<u>Ave</u>	erage Certainty	: 8			
Threatened		% of Votes: 42.9								
Individual Certa	iinty Notes									
	Deserved	Recorded in single digits in 2013, this species continues precariously. Since the collapse of the Manumuskin River Preserve population in the last decade there remain no known strongholds, leaving only one known small colony in Sussex County. However, individuals continue to be found sporadically at various other locations in NW New Jersey.								
6	River Pres small cold	serve population ir	n the last decad nty. However,	e there rema	in no known stro	ngholds, leavi	ng only one knov	vn		
6 5	River Pres small colo locations The comm species d six years Preserve) excursion	serve population ir ony in Sussex Cour in NW New Jersey ments from other vo eserves at least Th and 10 of those co where the species s. The one known in tell, numbers their	n the last decac nty. However, oters and the re preatened statu ome from our fir s has not been active site is th	e there rema individuals co ecent history s (if not Enda st two years a reported by a ne restricted a	in no known stro ontinue to be fou of this species ir angered). The S and from a single ny of our observ access area nea	ngholds, leavi nd sporadically JBF Log has c e site (TNC's N vers since 2009 r the Atlantic C	ng only one know at various other indicate that this nly 18 records in Jannumuskin Riv a, despite repeat Sity Airport and, a	vn - i our rer ed		
-	River Pressmall color locations The comm species d six years Preserve) excursion as we car Endanger Only seve seen at ar	serve population ir ony in Sussex Cour in NW New Jersey ments from other vo eserves at least Th and 10 of those co where the species s. The one known in tell, numbers their	the last decac nty. However, y. oters and the re- nreatened statu- ome from our fir s has not been a active site is the re are low. (My colonies in Suss ars that there h	e there rema individuals co ecent history of s (if not Enda st two years a reported by a he restricted a confidence l sex County an as been a ste	in no known stro ontinue to be fou of this species ir angered). The S and from a single iny of our observ access area nea evel only 5 beca re now known to eep decline in the	ngholds, leaving nd sporadically South Jersey JBF Log has c e site (TNC's N vers since 2009 r the Atlantic C use this specie me. Mostly 2 e number of sit	ng only one know at various other indicate that this only 18 records in fannumuskin Riv 0, despite repeat ity Airport and, a es may rate 3 individuals ma es where found i	vn our rer ed is far x		

Special Concern	Notos	% of Votes: 14.3								
dividual Certainty	Notes									
6	colonies de		ins widespread i	if rare at leas	t until another y	ear or two of s	e number of rema surveys come up a be tried.			
					Ave	erage Certaint	y: <u>6</u>			
Stable/Secure	NO VOTES									
Other	NO VOTES									
		Consen	sus (85%) Read	ched in Roun	d 2? NO					
			Rour	nd 3						
Status En	dangered	Threatened	Special	Secure	Unknown	No	Not	Certainty		
Count	3	4	Concern 0	0	0	Opinion 0	Applicable 0	6.43		
ustifications:										
ndangered					%	of Votes: 42.9)			
ndividual Certainty	Notes									
7	its decline (manageat	may be, which is	the case here. and Two-spotte	Except for N d Skipper po	orthern Metalma	ark declining n	the specific cause nost likely due to may never know t	()		
		Endangered bec d. Panelists who					se who else voted ed also.			
8	declining th		me and no one				en populations are habitat, etc that sp			
		re from every sec s NOT threatened		." Smith 1910). This is obviou	sly NOT the c	ase anymore. Hov	v is		
6	Round 2 had 3 voters for E, 3 for T, and 1 for SC. I am moving my T vote up to E after reading other panelists' comments and thinking more about the collapse of this species in southern NJ over past 5:10 years. I think we may be about to lose this species in both ends of the state. (I was leaning toward E last time, now more convinced.)									
					Ave	erage Certaint	<u>y: 7</u>			
Threatened					%	of Votes: 57.1				
ndividual Certainty	Notes									
6	River Pres reliable col		n the last decade County. Howeve	e there rema er, individuals	in no known stro continue to be	ongholds, leav	ose of the Manum ing only one or tw cally at various			
		al roliable small c	colonies in Succ	ox County or	e now known to	ma Mastly?	2:3 individuals ma	<i>.</i>		

Only several reliable small colonies in Sussex County are now known to me. Mostly 2:3 individuals max seen at any site and it appears that there has been a steep decline in the number of sites where found in the past decade. What is troubling is the source for this decline since habitat seems to be basically intact. If

- 6 ranked as Endangered, it is not clear to me what immediate action one could take to prevent further decline.
- We have consensus to list and due to recent declines I would go higher than SC. T is the middle of the road for everyone.

I would go along and give it an uncertain T, which I would be more sure of if definite threats could be identified and an accurate number of remaining colonies determined. NatureServe says, "This is another of many declining species of open, dry, grassy habitats in the Northeast...It is not clear whether habitat changes alone suffice to account for decline."

Remains widespread if rare at least until another year or two of surveys come up as low as 2013.

Average Certainty: 4.75

Special Concern	NO VOTES
Stable/Secure	NO VOTES
Other	NO VOTES

4

Consensus (85%) Reached in Round 3? NO

Round 4

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	2	5	0	0	0	0	0	6.71

Justifications:

Endangered	% of Votes: 28.6						
Individual Certainty	Notes						
8	To my knowledge, seen at only 2 locations in North Jersey this year—one of which had only a single individual. This species is in desperate trouble. I don't think the criterion for E should be a single location with an idling bulldozer lurking on the perimeter, which seems to be what some panelists are waiting for, for this and other species.						
	Sticking with Endangered because of previous comments in Round 2 & 3. Panelists who voted threatened, I feel have reasons to vote for E also.						
8	Historic populations are now extirpated. When populations are declining that quickly over time and no one knows why but only can speculate loss of habitat, etc. that species should be on the lookout immediately.						
	"records are from every section of the state." Smith 1910. This is OBVIOUSLY NOT the case anymore. This species SHOULD be listed as Endangered.						
	Average Certainty: 8						
Threatened	% of Votes: 71.4						
Individual Certainty	Notes						
6	While there are no longer any known strongholds of this species, only a small number of reliable sites in Sussex County and possibly another in southern NJ remain. The only one of those I visited this year appeared to have done somewhat better than last. Also, individuals continue to be found sporadically at various other locations.						

Only several reliable small colonies in Sussex County are now known to me. Mostly 2:3 individuals max seen at any site and it appears that there has been a steep decline in the number of sites where found in the past

6	decade. What is troubling is the source for this decline since habitat seems to be basically intact. Would consider moving up to Endangered but doesn't seem to fit in with other species we've already put in that category. Also in the past small colonies of this species have shown a remarkable ability to persist for years at low levels.
4	I would go along and give it an uncertain T, which I would be surer of if definite threats could be identified and an accurate number of remaining colonies determined. NatureServe says, "This is another of many declining species of open, dry, grassy habitats in the NortheastIt is not clear whether habitat changes alone suffice to account for decline." If we agree on threatened, can we agree on what should be done to protect and restore it? How about more fire and cutting? How many are willing to go along with efforts to restore the southern NJ landscape to what it looked like 100 years ago, when these species were apparently common?
7	THREATENED. I am bumping my vote down from E only in the hope that we will get consensus. All voters seem to have agreed last round that this species is in serious trouble: T or E. We are apparently very close to losing this species in southern NJ – only one colony left in existence as far as data from the SJBF log shows.
8	Threatened. This species is threatened and probably justifies being endangered. I will go with threatened to go with the majority. <u>Average Certainty: 6.2</u>
Special Concern	NO VOTES
Stable/Secure	NO VOTES
Other	NO VOTES
	Consensus (85%) Reached? NO
	Proposed Status:Referred to ENSAC
SPECIES: Bog Co	ppper

Lycaena epixanthe

Consensus reached in <u>Round 2</u>

Proposed status: Secure

Tally and Overall Certainty per Round

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Overall Certainty
Round 1	1	0	1	5	0	0	0	5.86
Round 2	1	0	0	6	0	0	0	6

Round 1

Tallied Votes:

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	1	0	1	5	0	0	0	5.86

Justifications:

Endangered	
Individual Certainty	Notes
8	All (?) known populations are abandoned cranberry bogs. These bogs are not being managed and getting overgrown. Cranberry host plants are being out competed and dying. Are there any areas that panelists know where they occur naturally? Habitats aren't being managed where these occur.
	Average Certainty: 8
Threatened	<u>NO VOTES</u>
Special Concern	
Individual Certainty	Notes
6	A survey of abandoned cranberry bogs would likely discover more locations for this species; assignment to any higher status should await results of such a survey.
	Average Certainty: 6
Stable/Secure	
Individual Certainty	Notes
5	Apparently Secure- Historically local and uncommon. Vulnerable to loss of cranberry bogs, especially abandoned ones. Small populations at Mashipacong Bog in Sussex County and Lakehurst Bog in Ocean County. Apparently a good population at Hunter's Mill Bog in Atlantic County. Possibly present in other Pine Barrens bogs not well covered.
5	Apparently Secure- Numbers of any colony can vary from year to year.
4	Apparently Secure seems reasonable. Good population numbers in multiple sites and more sites available, but unoccupied. Noted as sedentary, according to Nature Serve, so local populations ought to be monitored and currently unoccupied sites checked
7	Appears to be stable in NJ with a large distribution and habitat stable. NJ is also on the edge of its range. Apparently Secure because it appears to be declining in the southern portions of its range and this trend could expand.
6	Seems secure and fairly reliable at a number of sites in South Jersey. Regular reports on SJBF Log from all five counties that have Pine Barrens bogs (all but Gloucester, Camden, and Salem). Numbers fluctuate annually and flight season is short, but that has always been the case, apparently.
	Average Certainty: 5.4
Other <u>I</u>	NO VOTES
	Consensus (85%) Reached in Round 1? NO

Round 2

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	1	0	0	6	0	0	0	6

Justifications:

Endangered	% of Votes: 14.3					
Individual Certainty	Notes					
	I stick with this species should be endangered and my confidence level is still 8 because all populations are known from cranberry bogs. These bogs are being overgrown and the host plant, American cranberry, is being outcompeted by other plants.					
8	Realize that this species should NOT be dependent on cranberry bogs to survive. It is great they are using them, but in reality, they should be using cranberry on the sides of streams in the Pine Barrens. Thus, they are not Apparently Secure if they are relying on a habitat that is not natural to them. Yes, a survey of abandoned cranberry bogs would be great, but a survey of Pine Barren streams with an abundance of American cranberry growing on the banks would be the best thing to do.					
	Average Certainty: 8					
Threatened	NO VOTES					
Special Concern	<u>NO VOTES</u>					
Stable/Secure	% of Votes: 85.7					
Individual Certainty						
4	Apparently Secure but vulnerable to loss of cranberry bogs. Small populations at several know sites. Undiscovered populations possible in Pine Barrens.					
6	Apparently Secure seems reasonable. Good population numbers in multiple sites and more sites available, but unoccupied. Noted as sedentary, according to Nature Serve, so local populations ought to be monitored and currently unoccupied sites checked					
6	Apparently Secure- Seems fairly reliable at a number of sites in South Jersey. Regular reports on SJBF Log come from all five counties that have Pine Barrens bogs (all but Gloucester, Camden, and Salem) and from at least a dozen different bogs. Numbers fluctuate annually and flight season is short, but that has always been the case, apparently.					
6	Apparently Secure- Widespread especially in abandoned manmade cranberry bogs in mostly southern NJ. A systematic survey would most likely identify many more sites.					
5	Apparently Secure- I defer to the observations of those more familiar with South Jersey populations.					
7	Same assessment as per Round 1 comments.					
	Average Certainty: 5.6					
Other	NO VOTES					
	Consensus (85%) Reached in Round 2? YES					
SPECIES: Bronze	Copper					
	Lycaena hyllus					
	Consensus reached in <u>Round 2</u>					
	Proposed status: <u>ENDANGERED</u>					

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Overall Certainty
Round 1	4	2	1	0	0	0	0	6.29
Round 2	6	0	1	0	0	0	0	Not calc

Round 1

Tallied Votes:

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	4	2	1	0	0	0	0	6.29

Justifications:

Endangered Individual Certainty	Notes						
5	Only appears to be a couple of metapopulation with small numbers in the state. Wetland habitat loss may be responsible.						
8	Species already on NJDEP endangered list. Historic populations have been lost						
8	Currently highly localized in NJ and probably vulnerable to sea level change in Southern NJ. Widespread population decline throughout NJ though the recent populations found in Northern NJ are a good sign that the species is still hanging on that portion of the State.						
6	Classified as Endangered in the state at the moment. Our log data confirms this status, in my opinion. It's an eye-catching butterfly, easy to ID, and much sought-after, but it is very hard to find anywhere outside its best- known colony. The SJBF Log has compiled 33 records in our six years, but all but a handful come from that single colony at Mannington Marsh: and we do not have one double digit count of the species over our six years.						
	Average Certainty: 6.75						
Threatened							
Individual Certainty	Notes						
6	Local, never common, declining elsewhere though apparently recently holding steady in New Jersey. A few records almost annually from the Wallpack River valley in Sussex County. Better numbers from Cumberland County. Currently classified as Endangered, it is at very least Threatened.						
7	Occurrence in northern NJ is very erratic, with no reliable colony site known; rarely is more than a single individual observed.						
	Average Certainty: 6.5						
Special Concern							
Individual Certainty	Notes						
4	Not demonstrably endangered, given recent sightings of large numbers and further county and watershed records. Little information on population dynamics, but listed as ephemeral (Nature Serve) This suggests it may be overlooked. Should be monitored at known sites to get idea of population persistence and further sites should be sought for. Special concern seems more justifiable than endangered or threatened						
4	records. Little information on population dynamics, but listed as ephemeral (Nature Serve) This suggests it may be overlooked. Should be monitored at known sites to get idea of population persistence and further						
4 Stable/Secure	records. Little information on population dynamics, but listed as ephemeral (Nature Serve) This suggests it may be overlooked. Should be monitored at known sites to get idea of population persistence and further sites should be sought for. Special concern seems more justifiable than endangered or threatened						

Consensus (85%) Reached in Round 1? NO

Round 2

Tallied Votes:

Status E	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certain			
Count	6	0	1	0	0	0	0	Not ca			
Justifications:											
Endangered	ty Notoe				% (of votes: 85.7					
Individual Certain	ity Notes										
6		Highly localized and subject to habitat loss. A very few records in most years spread over a small number of locations in both northern and southern NJ.									
7	The SJBF Log has compiled 33 records of this species in six years, 28 of them from the single, well-known colony at Mannington Marsh in Salem – there is no double digit count of the species over six years. (The other five records come from a single site in Cumberland County, found just last year.) First round comments from other voters add to my confidence that this is a very troubled species in the state.										
8		All comments from round 1 about why this species should be listed as endangered back up my response and confidence.									
5	disturbed,	Only appears to be a couple of metapopulation with small numbers in the state. Does seem to be fond of disturbed, open wetlands where its host plant, Rumex, is found. Because of this colonies appear to be ephemeral.									
7	No colony	/ site known in Nor	th Jersey. Very	scattered oc	currences, almc	st always of si	ngle individuals.				
8	Same ass	sessment as per R	ound 1 comme	nts.							
					Ave	erage Certainty	/: 6.83				
Threatened	<u>NO VOTES</u>										
Special Concerr	n				% (of Votes: 14.3	6				
Individual Certain	ity Notes										
Not indicated	records. L may be ov may have population	Not demonstrably endangered, given recent sightings of large numbers and further county and watershed records. Little information on population dynamics, but listed as ephemeral (Nature Serve) This suggests it may be overlooked. Loss of historical sites is not sufficient evidence of endangerment, since new populations may have appeared and remained undiscovered. Should be monitored at known sites to get idea of population persistence and further sites should be sought for. Special concern seems more justifiable than endangered or threatened.									
					Ave	erage Certainty	: Not Calculated	l			
Stable/Secure	<u>NO VOTES</u>										

SPECIES: Georgia (Helicta) Satyr

Neonympha helicta

Consensus reached in Round 3

Proposed status: THREATENED

Tally and Overall Certainty per Round

Status	Endangered	Threatened	Special	Secure	Unknown	No	Not	Overall
			Concern			Opinion	Applicable	Certainty
Round 1	1	3	2	0	1	0	0	5.71
Round 2	1	5	1	0	0	0	0	6.29
Round 3	1	6	0	0	0	0	0	6.43

Round 1

Tallied Votes:

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	1	3	2	0	1	0	0	5.71

Justifications:

Endangered	
Individual Certainty	Notes
7	Further research needs to be conducted to actually determine what species of "Georgia satyr" occurs in NJ. Is it a distinct species, is it a subspecies, do we have two species, etc? Regardless, the "Georgia satyr" that does occur in the NJ Pine Barrens is rare, mostly because of its preferred wetland savannahs habitats are being grown in with fire suppression.
	Average Certainty: 7
Threatened	
Individual Certainty	Notes
6	Currently know from only a few sites, but surveys of suitable habitats might indicate that it is more widespread. Sedge meadow habitat vulnerable to succession.
8	This species is complicated and some sources list it has being the Helicta Satyr (<i>N. helicta</i>) in NJ (NatureServe has the listed this way). The two species appear to be poorly defined and they are not clearly separated in the Carolinas where both species occur. They are likely to be just one species and NJ's populations could potentially be a unique subspecies. The Georgia Satyrs found on Ft. Dix appear to be double brooded while most of the other NJ populations only have a single brood and the individuals of the different populations appear to be indistinguishable (D. Sweitzer personal communication). This species is very restricted and the NJ Pinelands is isolated from the rest of the range of the species.
	Several observers I know are worried about this species. Its current state status of "Species of Special Concern" may be optimistic. It has apparently declined since Gochfeld and Burger (1997) when they noted it was "sometimes common in abandoned cranberry bogs." That seems no longer the case, at least in areas where observers have access. Only 13 records in last six years, all from a single county (Ocean), and 11 of them from the Lakehurst Bog, with the highest count being 6 individuals on 6:17:10. No records from Parker Preserve, by contrast, with its many abandoned cranberry bogs and where Stephen Mason conducted an intensive survey for butterflies over several years, ending just a couple of years ago. Perhaps this species is

5

doing well in areas that our observers have not explored – e.g. Fort Dix or possibly in the limited access areas of the wetlands inside the Warren Grove Bombing Range Area. But I worry that may not be the case and, unless more knowledgeable observers overrule me, I'd like to vote for T for this species. If the New Jersey Pine Barren population is a separate species as Gochfeld & Burger (also Cech & Tudor 2005: and others) have suggested, then a designation of T for our NJ population seems to me even more justifiable.

Average Certainty: 6.3

Special Co	ncern									
Individual C	Certainty	Notes								
5		Historically this species may have been more common in the mid: 20th century than today [†] . Currently it is considered of Special Concern and is highly local but occasionally common. It is confined to the Pine Barrens, mostly in abandoned cranberry bogs (though active cranberry bogs may not get much coverage). Only two individuals were reported in 2013 (from separate southern NJ sites). This species continues to be of Special Concern.								
5		Rare and	local in only Burlin	gton and Ocea	in counties.					
						Ave	rage Certainty	<u>/: 5</u>		
Stable/Sec	ure		!	NO VOTES						
Other	`artaintı	Notoo								
Individual C	enamy	Notes								
4		Unknown	: Needs more thore	ough surveys ir	n the right hat	oitats				
						Ave	rage Certaint	/: U: 4		
						<u>, , , , , , , , , , , , , , , , , , , </u>	rage containt	<u></u>		
			C		ah ad in Davia					
			Consen	sus (85%) Rea	ched in Roun					
				Rou	nd 2					
Tallied Vote	es:									
Status	Enda	angered	Threatened	Special	Secure	Unknown	No	Not	Certainty	
Count	_	1	E	Concern 1	0	0	Opinion 0	Applicable 0	6.20	
Count		I	5	I	0	0	0	0	6.29	
Justification	ns:									
Endangere	d					%	f Votes: 14.3			
Individual C		Notes				78 0	1 VOICS. 14.	,		
8	_	As many other butterflies, this species if rare and endangered because of the loss of its known habitat, wetland savannahs. Lack of fire is resulting in a decline in these habitats and existing habitats are being overgrown through succession. I have extensive experience in Pine Barren cranberry bogs and this should be endangered. As with the bog copper, this species should not be dependent on cranberry bogs and instead reliant on wetland savannahs. It is never "occasionally common" unless it has an outbreak year like other species. Host plant is known among caterpillar farmers, but have not been published.								
Threatened		Net				% o	f Votes: 71.4			
Individual C	ertainty	Notes								

Currently known from only a very few sites. Apparently has declined strongly with very few records in recent

6	years.
6	This species has clearly declined since Gochfeld & Burger, 1997. The SJBF Log has only 13 records in our six years, all from a single county (Ocean), with 11 of them from the Lakehurst Bog, with the highest count being just 6 individuals on 6:17:10. We have no records from Parker Preserve, despite its many abandoned cranberry bogs, and where an intensive survey for butterflies was conducted by the Philadelphia Academy of Sciences over several years, ending just a couple of years ago.
5	Rare and local in only Burlington and Ocean counties. Principal site where it has been reported recently, Lakehurst, is subject to succession. Whether this is a separate species or subspecies or not, the NJ population is still physically separate from the rest of the range so should be considered to be at least threatened.
6	Another species vulnerable because of restricted range and narrow habitat affinity, plus inaccessibility of habitats makes it difficult to assess population status.
8	Same assessment as per Round 1 comments.
	Average Certainty: 6.2

Special Concern	% of Votes: 14.3
Individual Certainty	Notes
5	SC because of restricted occurrence and lack of good population data and possible threat of habitat/host plant loss. Not enough clear evidence to go with T or E
	Average Certainty: 5
Stable/Secure	NO VOTES
Other I	NO VOTES

Consensus (85%) Reached in Round 2? NO

				Rou	nd 3					
Status	Endan	gered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty	
Count	1		6	0	0	0	0	0	6.43	
Justification										
Endangered % of Votes: 14.3										
Individual Certainty Notes										
As many other butterflies, this species is rare and endangered because of the loss of its known habitat: wetland savannahs. Lack of fire is resulting in a decline of these habitats and existing habitats are being overgrown through succession. I have extensive experience in Pine Barren cranberry bogs and this should be endangered. As with the bog copper, this species should not be dependent on cranberry bogs and instead reliant on wetland savannahs.										
8		How many	panelists have be	en to a spot ev	very year to se	ee double digit r	numbers of this	s species?		
		Host plant i	s known among o	aterpillar farm	ers, but has n	ever been publi	shed.			
							• • • • •	-		

Average Certainty: 8

Threatened	% of Votes: 85.7
Individual Certainty	Notes
6	Due to the very small number of reports and at only one somewhat reliable site, this species is at least Threatened if not Endangered.
7	This species seems to meet all of the stated criteria for Threatened status.
5	Rare and local in only Burlington and Ocean counties. Principal site where it has been reported recently, Lakehurst, is subject to succession. Whether this is a separate species or subspecies or not, the NJ population is still physically separate from the rest of the range so should be considered to be at least threatened.
7	We have consensus to list and I feel it is higher than SC due to its restricted range in general.
5	I would change my opinion to T, because restricted occurrence and threat of habitat/host plant loss are plainly tied to the loss of open savanna habitats in the Pine Barrens. The NatureServe account clearly indicates what the threats are. This is a case where DEP could have a positive influence on management policies that would be of help to maintaining what was historically a more widespread and abundant species.
7	Agree with majority of voters from last round: declining species with limited, unreliable population = T.
	Average Certainty: 6.2

Special Concern	NO VOTES
Stable/Secure	NO VOTES
Other	NO VOTES

Consensus (85%) Reached in Round 3? YES

SPECIES: Mitchell's Satyr

Neonympha mitchellii

Consensus reached in <u>Round 2</u>

Proposed status: Not Applicable (Extirpated)

Tally and Overall Certainty per Round

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Overall Certainty
Round 1	1	0	0	0	0	2	4	7
Round 2	1	0	0	0	0	0	6	7

Tallied Votes:

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certai
Count	1	0	0	0	0	2	4	7
ustifications:								
Indangered								_
ndividual Cert								
7	still a fede	Endangered status erally listed species s Extirpated.						
					Ave	erage Certainty	<u>/: 7</u>	
Threatened	NO VOTES							
Special Conc	ern <u>NO VOTES</u>							
Stable/Secure	NO VOTES							
Other								
ndividual Cert	tainty Notes							
8		cable: <u>Extirpated</u> ir rolina though Cech						ony in
6	Not Applic	cable: <u>Extirpated</u> .						
8	Not Applic	cable: <u>Extirpated</u> .						
6	Not Applic	cable: Probably <u>Ex</u>	tirpated.					
Not indicat	ed No Opinio	n						
Not indicat	ed No Opinio	n						
Not indicat	ed No Opinio	n			Ave	erage Certainty	/: NA: 7	

Consensus (85%) Reached in Round 1? NO

Round 2

Tallied Votes:

Status	Endar	ngered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	1	1	0	0	0	0	0	6	7
Justifications									
Endangered						% of	Votes: 14.3		
Individual Ce	rtainty	Notes							
		Probably ex	tirpated but there	could still be a	small colony	hidden somewl	here in their pr	eferred habitats.	It is

Probably extirpated but there could still be a small colony hidden somewhere in their preferred habitats. It is federally listed. If everyone voted extirpated and a new colony was found, this panel would not look so good.

Average	Certainty:	7

Threatened	NO VOTES
Special Concern	NO VOTES
Stable/Secure	<u>NO VOTES</u>
Other	% of Votes: 85.7
Individual Certainty	Notes
8	Not Applicable: Extirpated
5	Not Applicable: Extirpated. Gone over 30 years and not likely to recolonize, given distance to other populations.
7	Not Applicable: Extirpated.
7	Not Applicable: Extirpated. Unsuccessfully looked for in former habitat for decades.
8	Not Applicable: Not reported since 1985, but since by the time this list becomes official it WILL meet the 30 year requirement, I vote for Extirpated.
7	Not Applicable: Extirpated.
	Average Certainty: 7
	Consensus (85%) Reached in Round 2? YES

SPECIES: Milbert's Tortoiseshell

Nymphalis milberti

Consensus reached in Round 4

Proposed status: Not Applicable

Tally and Overall Certainty per Round

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Overall Certainty
Round 1	1	0	1	0	1	3	1	5.8
Round 2	0	1	1	0	1	0	4	6.1
Round 3	0	0	2	0	0	0	5	6.29
Round 4	0	0	1	0	0	0	6	6.29

Round 1

Tallied Votes:

Concern Opinion Applicable	Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
----------------------------	--------	------------	------------	--------------------	--------	---------	---------------	-------------------	-----------

Count	1	0	1	0	1	3	1	5.8
Justifications:								
Endangered Individual Certainty	Notes							
Individual Certainty	NOLES							
5		e been historic spe ords of this species			owever, were t	nese population	ns or strays? No	
					Ave	rage Certainty:	5	
Threatened	<u>NO VOTES</u>							
Special Concern Individual Certainty	Notes							
6	Historically small num years.	y never common w bers of reports, at	rith almost no r least once sev	ecords in the l eral years in s	ast quarter of th uccession, follc	ne 20 th century. wed by absend	More recently ver	y e
					Ave	rage Certainty:	<u>6</u>	
Stable/Secure	NO VOTES							
Other								
Other Individual Certainty								
	Notes	Small colonies see	em to last only	a few years.	May be mostly	a migrant and r	not a permanent	
Individual Certainty	Notes Unknown: resident. Not Applic		c in occurrence	; colonies occ	asionally becon	ne established	but do not persist. I	Ŋ
Individual Certainty	Notes Unknown: resident. Not Applic	cable: Highly erratic ome eastern periph	c in occurrence	; colonies occ	asionally becon	ne established	but do not persist. I	LΛ
Individual Certainty 4 7	Notes Unknown: resident. Not Applic is on extre No Opinio	cable: Highly erratic eme eastern periph n n: This is a species	s in occurrence ery of range. L	; colonies occ Inlikely to main	asionally becon htain itself as a	ne established permanent res	but do not persist. I ident.	Ŋ
Individual Certainty 4 7 Not indicated	Notes Unknown: resident. Not Applic is on extre No Opinio No Opinio	cable: Highly erratic erne eastern periph n n: This is a species n in NJ.	s in occurrence ery of range. L	; colonies occ Inlikely to main	asionally becon htain itself as a	ne established permanent res	but do not persist. I ident.	U
Individual Certainty 4 7 Not indicated 7	Notes Unknown: resident. Not Applic is on extre No Opinio No Opinio uncommo	cable: Highly erratic erne eastern periph n n: This is a species n in NJ.	s in occurrence ery of range. L	; colonies occ Inlikely to main	asionally becon ntain itself as a its range and a	ne established permanent res	but do not persist. I ident. ighly localized and	Ŋ
Individual Certainty 4 7 Not indicated 7	Notes Unknown: resident. Not Applic is on extre No Opinio No Opinio uncommo	cable: Highly erratic erne eastern periph n n: This is a species n in NJ.	s in occurrence ery of range. L	; colonies occ Inlikely to main	asionally beconntain itself as a its range and a	ne established permanent res	but do not persist. I ident. ighly localized and	UΛ
Individual Certainty 4 7 Not indicated 7	Notes Unknown: resident. Not Applic is on extre No Opinio uncommo	cable: Highly erratic eme eastern periph on n: This is a species n in NJ.	c in occurrence ery of range. L s where NJ is o	; colonies occ Inlikely to main	asionally becon ntain itself as a its range and a <u>Ave</u> <u>Ave</u>	ne established permanent res ppears to be h	but do not persist. I ident. ighly localized and	ΓV
Individual Certainty 4 7 Not indicated 7	Notes Unknown: resident. Not Applic is on extre No Opinio uncommo	cable: Highly erratic eme eastern periph on n: This is a species n in NJ.	s in occurrence ery of range. L	; colonies occ Inlikely to main on the edge of	asionally becon ntain itself as a its range and a <u>Ave</u> <u>Ave</u>	ne established permanent res ppears to be h	but do not persist. I ident. ighly localized and	NJ

Tallied Votes:

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty

Count	0	1	1	0	1	0	4	6.1
Justifications:								
Endangered	<u>NO VOTES</u>							
Threatened					% o	f Votes: 14.3	3	
Individual Certainty	Notes							
7		re now but are th					s or strays. Clearly, own. Bottom line, th	e
					Ave	rage Certainty	<u>/: 7</u>	
Special Concern					% o	f Votes: 14.3		
Individual Certainty	Notes							
6	Very small number of reports in the 21 st century with at least two in 2013, and once several years in succession. While there were almost no records in the last quarter of the 20 th century, it is difficult to say whether or not the species is declining.							
					Ave	rage Certainty	<u>/: 6</u>	
Stable/Secure	<u>NO VOTES</u>							
Other					% o	f Votes: 71.4		
Individual Certainty	Notes							
5		able: A clear G5/I ntified. No point i					and with no clear s to NJ.	
6	Not Applicable: Agree with other voters who note that this species is not a permanent resident in the state.							
5	Not Applicable: Nonresident. Small colonies seem to last only a few years. May be mostly a migrant and not a permanent resident.						not	
7		es is not a perma is unlikely to bec					uals and even small	
7	Unknown:	Further study nee	eded.					
					Ave	rage Certainty	<u>/: 6</u>	

Consensus (85%) Reached in Round 2? NO

Round 3

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	0	0	2	0	0	0	5	6.29
Justifications:								
Endangered	NO VOTES							
Threatened	NO VOTES							

Special Concern	% of Votes: 28.6
Individual Certainty	Notes
6	Difficult to determine of species is declining or not in recent decades. This species could be a resident historically and def could be currently. If so, it should be listed higher than species of concern.
7	This species is on the edge of SC for me and I think warrants further targeted research. SC would put it on the conservation radar and help us work to prevent it from potentially needing a higher status later.
	Average Certainty: 6.5

Stable/Secure NO VOTES

Other	% of Votes: 71.4
Individual Certainty	Notes
6	NOT APPLICABLE: In view of its very sporadic and scattered appearance in the state, this species is most probably not a permanent resident.
7	NOT APPLICABLE: Not a permanent resident.
5	NOT APPLICABLE: Nonresident. Small colonies seem to last only a few years. May be mostly a migrant and not a permanent resident.
7	In this case the logic that should apply has been applied by most responders, as was not the case with <u>Polygonia progne</u> . I can't see much difference, except that this one is not reported to be reproducing in the past few years. A clear G5/N5 species, marginal in NJ, with no clear threats identified. No point in listing it. NA is best. Should not be considered indigenous to NJ.
6	NOT APPLICABLE: I agree with the majority of voters in Round 2: not a proven resident.
	Average Certainty: 6.2

Consensus (85%) Reached in Round 3? NO

Round 4

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	0	0	1	0	0	0	6	6.29
Justifications:								
Endangered	NO VOTES							
Threatened	NO VOTES							
Special Conc	ern				% c	of Votes: 14.3	3	
Individual Cer	tainty Notes							
6		tations on why thing it at SC since n						te. If

Average Certainty: 6

Stable/Secure NO VOTES

Other	% of Votes: 85.7
Individual Certainty	Notes
6	Not Applicable: In view of its very sporadic and scattered appearance in the state, this species is most probably not a permanent resident.
5	Not Applicable: Nonresident. Small colonies seem to last only a few years. May be mostly a migrant and not a permanent resident.
7	Not Applicable: Not a permanent resident.
7	Not Applicable: In this case the logic that should apply has been applied by most responders, as was not the case with Polygonia progne. I can't see much difference, except that this one is not reported to be reproducing in the past few years. A clear G5/N5 species, marginal in NJ, with no clear threats identified. No point in listing it. NA is best. Should not be considered indigenous to NJ.
6	Not Applicable. I agree with the panelists who noted this seems a species not proven to be a permanent resident.
7	Not applicable. Probably not a resident and more data is needed to justify otherwise.
	Average Certainty: 6.3

Consensus (85%) Reached? YES

SPECIES: Compton Tortoiseshell

Nymphalis vaualbum

Consensus reached in Round 2

Proposed status: SPECIAL CONCERN*

Tally and Overall Certainty per Round

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Overall Certainty
Round 1	0	0	4	0	0	3	0	6.2
Round 2	0	0	7	0	0	0	0	6

Round 1

Tallied Votes:

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	0	0	4	0	0	3	0	6.2

Justifications:

Endangered	NO VOTES
------------	----------

Threatened <u>NO VOTES</u>

Special Concern	
Individual Certainty	Notes
8	Historically very rare and local, though in the last part of the 20 th century its numbers seemed to have increased. More recently it has declined and since 2009 it has been very rare to absent. Currently, it might be best to consider it an occasional visitor from the north and possible rare breeder.
4	Uncommon but numbers down dramatically in last decade. Should be monitored going forward.
6	Steep decline in numbers within the past 10 years; unknown whether this is temporary or a trend. Climate change could be a factor.
6	No population studies have occurred with this charismatic species. Reliable populations do occur but hard to keep track of these populations are increasing or decreasing.
	Average Certainty: 6

Stable/Secure NO VOTES

Other

Other	
Individual Certainty	Notes
Not indicated	No Opinion
7	No Opinion: This is a species where NJ is on the edge of its range and appears to be highly localized and uncommon in NJ.
Not indicated	No Opinion
	Average Certainty: Not calculated

Consensus (85%) Reached in Round 1? NO

Round 2

Tallied Votes:

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	0	0	7	0	0	0	0	6
Justifications	:							
Endangered	NO VOTES							
Threatened	NO VOTES							
Special Concern					% c	of Votes: 100		

Individual Certainty	Notes					
7	Steep decline in past decade and rare to absent most recently.					
3	A clear G5/N5 species, marginal in NJ and with no clear threats identified. Hard to see much point in listing it. Not clear if SC is right or if NA is better, since it isn't clear that much could be done about it.					
6	No records in SJBF Log (2008:13) and only scattered reports in SNJ before 2008 (that I know of). This is not a resident of the Coastal Plain. Second-round vote is based on comments from first round comments by others who know this species better.					
6	See round 1 panelists comments for species of concern.					
6	Uncommon but numbers down dramatically in last decade. Should be monitored going forward.					
7	Marked decline in numbers in recent years, with no obvious cause other than perhaps climate change.					
7	Same assessment as per Round 1 comments.					
	Average Certainty: 6					
Stable/Secure	NO VOTES					
Other	NO VOTES					

Consensus (85%) Reached in Round 2? YES

SPECIES: Giant Swallowtail

Papilio cresphontes

Consensus reached in Round 3

Proposed status: Secure

Tally and Overall Certainty per Round

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Overall Certainty
Round 1								
Round 2	0	0	0	4	0	0	3	6
Round 3	0	0	0	6	1	0	0	6.4

Round 1

Species did not undergo first round assessment. Species added in Round 2 as per a panelist's request.

Tallied Votes:

Status	Endangered	Threatened	Special	Secure	Unknown	No	Not	Certainty
Count	0	0	Concern 0	4	0	Opinion 0	Applicable 3	6
Justifications:								
Endangered	NO VOTES							
Threatened	<u>NO VOTES</u>							
Special Conce	ern <u>NO VOTES</u>							
Stable/Secure					%	of Votes: 57.	1	
Individual Certa	ainty Notes							
7	an invasio	y Secure- (At least n in 2008, the pop umbers also report	ulation has co	ntinued to bre	ed in the area a	nd to grow. No	ow locally comm	
5	Apparently be mostly	y Secure- Uncomm stable.	non and local b	out found in bo	oth north and so	uth New Jerse	y. Numbers app	pear to
7		ed in 2006 and wa oulations in limesto				nd stable, if no	t still increasing.	Very
7		y Secure, expandir h makes me wond				aged to insure	persistence of s	pecies
					Ave	erage Certainty	/: 6.5	
Other					% c	of Votes: 42.9)	
Individual Certa	ainty Notes							
4	Not Applic	able: Eruptive spe	cies not prope	rly considered	d an indigenous	species to NJ?	?	
5	that descr repeats of years. No	able: My understa iption on the Coast the same individu ne of the host plan ecome numerous e	tal Plain. The al.) Only from hts listed in Go	SJBF Log has in one garder chfeld and Bu	s only 26 reports i in Salem Coun irger occurs nati	s in six years (a ty has repeate urally on the C	and many of the d sightings in m oastal Plain. Ha	m ultiple as this
7	Not Applic	able: Extirpated as	a NNJ breed	er. When curr	ently occurs in t	he state, it is a	stray.	

Average Certainty: 5.33

Consensus (85%) Reached in Round 2? NO

Round 3

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	0	0	0	6	1	0	0	6.4

Justifications:

Endangered	NO VOTES
Threatened	NO VOTES
Special Concern	NO VOTES

Stable/Secure	% of Votes: 85.7
Individual Certainty	Notes
7	Secure- Starting with a trickle of reports in northern NJ in 2006 and 2007 and an invasion in 2008, the population has continued to breed in the area and to grow. Currently with strong populations in Sussex and Warren Counties.
7	Secure- Over the past 8 years this species has become well established in limestone areas of NNJ, where host plant Prickly Ash seems also to be increasing. I observed 10 second-brood GS on an hour's walk at Kittatinny Valley SP in early August. It also strays widely to other areas (e.g., Bergen, Mercer, and Passaic counties), and also successfully uses Garden Rue as a host plant (as I can attest). Overwintering chrysalises obviously survived the severe winter of 2013:14, so there seems no reason to think Giant Swallowtail will not be resident in NJ for the reasonably long term.
6	Apparently Secure. This species is one of the few whose numbers are clearly recovering within the state from declines which were apparently caused by historic Gypsy Moth spraying. Clearly now breeding populations again in Sussex and Warren counties. Strong flier so should fill its historic range where its host plant, Prickly Ash, can be found.
5	I changed my vote to stable from NOT APPLICABLE. Looking at Smith 1910, he noted this species as <u>Papilio thaos</u> (king swallowtail) which doesn't occur this far north, thus he was seeing giant swallowtail. His reports are from New Brunswick and Trenton. I would like to vote species of concern but realize that it is unlikely with other panelists. They do not breed in SNJ. With climate change though, pushing a lot more individuals northward, this species will eventually become common.
8	We have consensus to not list. Only time will tell with this species. It would be interesting to do some genetic work to see where they came from.
6	Changing my vote from NA to Apparently Secure, based on the comments from panelists in Round 2 about its stable presence in North Jersey (it's an erratic species in South Jersey, with more sightings in 2014 – about a dozen – than in any year since 2007).
	Average Certainty: 6.5

Other	% of Votes: 14.3
Individual Certainty	Notes
6	UNKNOWN: Changing my vote to U. I don't think one can say with any certainty whether this is properly considered indigenous or eruptive. Time will tell, and there is no reason to consider it a likely candidate for listing.
	Average Certainty: 6

Consensus (85%) Reached? YES

Parrhasius m-album

Consensus reached in Round 2

Proposed status: Stable

Tally and Overall Certainty per Round

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Overall Certainty
Round 1								
Round 2	0	0	1	6	0	0	0	6.14

Round 1

Species did not undergo first round assessment. Species added in Round 2 as per a panelist's request.

			Rou	ind 2				
Tallied Votes:								
Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	0	0	1	6	0	0	0	6.14
Justifications:								
Endangered	<u>NO VOTES</u>							
Threatened	<u>NO VOTES</u>							
Special Conce					% c	of Votes: 14.3		
Individual Certa	inty Notes							
6		on throughout the n oak, due to gyp:			feel it is threate	ned at some l	evel, like all other	leps
					Ave	rage Certainty	<u>/: 6</u>	
Stable/Secure					% c	of Votes: 85.7	•	
Individual Certa	inty Notes							
7	Apparently declining.	Secure- Uncomn	non to rare in n	orthern NJ, m	iore common in	southern NJ.	Apparently not	
4		Seems to be Apparently Secure at least, butterfly log shows widespread occurrence, about as common as some of the other hairstreaks – banded, striped.						
7	CMBO But in fall. Tota	Apparently Secure- In South Jersey this species remains an uncommon species, as it was designated on the CMBO Butterfly Checklist (and Gochfeld & Burger) in the 1990s. It is found fairly widely, however, especially in fall. Total reports per year range from low of 17 to high of 48; with more than 200 reports in six years. Individual counts generally are one or two, so it is never numerous.						
6	Apparently common in	Apparently Secure- Uncommon and local but widespread. Found on ridge-tops in NW part of state, but most common in Pinelands or Pinelands outliers.				t most		
7		Secure. Widely d seen per year.				non—usually	only a few, single	9

6

Apparently Secure- widespread but often uncommon.

Average Certainty: 6.16

Other <u>NO VOTES</u>

Consensus (85%) Reached? YES

SPECIES: Mustard (Eastern Veined) White

Pieris oleracea

Consensus reached in Round 2

Proposed status: Not Applicable (Extirpated)*

Tally and Overall Certainty per Round

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Overall Certainty
Round 1	0	0	0	0	0	2	5	6.2
Round 2	0	0	0	0	0	0	7	6.43

Round 1

Tallied Votes:

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	0	0	0	0	0	2	5	6.2

Justifications:

Endangered	NO VOTES
Threatened	NO VOTES

Special Concern NO VOTES

Stable/Secure NO VOTES

Other

Individual Certainty	Notes
5	Not Applicable: <u>Historical</u> or perhaps Hypothetical. No records in the past 45 years. Locally common in northern New York and New England.
6	Not Applicable : <u>Extirpated</u> if ever resident
0	Not Applicable: Extirpated. One specimen record, but probably never a resident.

8

5 Not Applicable: Probably Extirpated.

Not indicated	No Opinion
7	Not Applicable: <u>Historic</u> though it still occurs in Massachusetts. We were on very southern edge of range and it should be considered <u>historic</u> .
Not indicated	No Opinion
	Average Certainty: NA: 6.2

Consensus (85%) Reached in Round 1? NO

Round 2

Tallied Votes:

Status Er	ndangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	0	0	0	0	0	0	7	6.43
Justifications:								
Endangered	NO VOTES							
Threatened	NO VOTES							
Special Concern	NO VOTES							
Stable/Secure	NO VOTES							
Other					% c	of Votes: 100		
Individual Certainty	/ Notes							
6	Not Applica	able: <u>Extirpated</u>						
5	Not Applic	able: <u>Extirpated</u> , if	it ever was inc	digenous. No	records to supp	ort anything els	Se.	
7	Not Applic	able: Agree with ve	oters who note	e it is <u>extirpate</u>	e <u>d</u> if it was ever a	a resident.		
6	Not Applic	able: Probably <u>ext</u>	rpated.					
6	Not Applic	able: <u>Extirpated</u> if	ever resident					
8		able: Apparently <u>e</u> t cannot meet the :					a colony since 20	05,
7	Same asse	essment as per Ro	ound 1 comme	nts.				
					Ave	erage Certainty	: 6.43	

Consensus (85%) Reached in Round 2? YES

SPECIES: West Virginia White

Pieris virginiensis

Consensus reached in Round 2

Proposed status: Not Applicable (Extirpated)*

Tally and Overall Certainty per Round

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Overall Certainty
Round 1	0	0	0	0	0	2	5	7.2
Round 2	0	0	0	0	0	0	7	6.71

Round 1

Tallied Votes:

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	0	0	0	0	0	2	5	7.2
Justifications:								
Endangered	<u>NO VOTES</u>							
Threatened	NO VOTES							
Special Concer	n <u>NO VOTES</u>							
Stable/Secure	NO VOTES							
Other								
Individual Certai	inty Notes							
7		able: <u>Historical, p</u> e Reported as rapid					ans‡. Formerly	
6	Not Applic	able: <u>Extirpated</u> .						
8	Not Applic	able: <u>Extirpated</u>						
8	Not Applica	able: <u>Extirpated</u>						
Not indicated	d No Opinior	ı						
7	Not Applica	able: <u>Historic</u>						
Not indicated	d No Opinior	ſ						

Average Certainty NA: 7.2

Consensus (85%) Reached in Round 1? NO

Round 2

Tallied Votes:

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	0	0	0	0	0	0	7	6.71
Justifications.								
Endangered	NO VOTES							
Enuangereu	NO VOTES							
Threatened	NO VOTES							
Special Con	cern NO VOTES							
Stable/Secur	re <u>NO VOTES</u>							
Other					%	of Votes: 100		
Individual Cer	rtainty Notes				70 C	1 100		
7	Not Appli							

⁷ Not Applicable: Extirpated

NA <u>extirpated</u> seems reasonable, but with grounds for uncertainty. It appears that the listing question is whether the species has a chance of Re-colonizing NJ without human intervention, although it is not clear whether it has been absent for more than 30 years. If it has been less than 30 years, but it is clearly not here now, would it be E or SC or U? I find the instructions don't cover that case: "Clarification on when to rank a species (i.e. assign a status) vs. when to consider it "not applicable" (NA). Assign a conservation status[**what status**, **if it is not now present?**]: Species has historically occurred in NJ (was historically indigenous to NJ), but there have been no confirmed records for more than 30 years AND there remains some possibility of undetected occurrence and/or the species could Re-colonize from nearby

Not Applicable (NA) Species has historically occurred in NJ (was historically indigenous to NJ), but there have been no confirmed records for more than 30 years AND there is very little to no chance of Recolonization without direct and purposeful human assistance. ("extirpated" in Biotics database). Species is not indigenous or should not be considered indigenous to NJ (i.e., NJ is not part of the spp.'s documented range). We have previously defined "indigenous" as regularly occurs in the state with temporal and geographic predictability."

states without directed purposeful human assistance. ("historic" in Biotics database).

- 7 Not Applicable: No recent records. Extirpated.
- 7 Not Applicable: <u>Extirpated</u>.
- 6 Not Applicable: Extirpated
- <u>Extirpated</u>. Apparently no documented records within the past 30 years, and unlikely to be rediscovered or to
 recolonize naturally.
- 8 Same assessment as per Round 1 comments.

Average Certainty: 6.71

SPECIES: Gray Comma

Polygonia progne

No Consensus Reached

Proposed status: Referred to ENSAC

Tally and Overall Certainty per Round

Status	Endangered	Threatened	Special	Secure	Unknown	No	Not	Overall
			Concern			Opinion	Applicable	Certainty
Round 1	1	1	1	0	0	3	1	6
Round 2	1	3	2	0	1	0	0	6.14
Round 3	1	4	1	0	0	0	1	6
Round 4	0	5	1	0	1	0	0	6.14

Round 1

Tallied Votes:

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	1	1	1	0	0	3	1	6

Justifications:

Individual Certainty	Notes
6	Small population localized in one small area of Hunterdon County, where recently proven to be resident.
	Average Certainty: 6
Threatened	
Individual Certainty	Notes
8	Discovery of a colony in Hunterdon County this year has changed the status of this species from very rare visitor to at least threatened breeder. Though the only known colony in state, it seems strong and the site is currently protected. Also it is within the possible range of the species as illustrated by Cech and Tudor‡. <u>Average Certainty:</u> 8
Special Concern	
Individual Certainty	Notes
4	Normally very rarely reported within the state but colony found in Hunterdon County in 2013 which should be monitored going forward.

Average Certainty: 4

Stable/Secure NO VOTES

Other

	Notes							
5	Not Applica	able: This species	s is <u>Extirpated</u> f	rom NJ.				
Not indicated	No Opinion	ı						
7	No Opinion uncommon		s where NJ is a	on the edge o	f its range and a	ppears to be l	highly localized a	nd
Not indicated	No Opinion	I						
					Ave	rage Certainty	<u>y: NA: 5</u>	
		Consen	sus (85%) Rea	ched in Roun	d 1? NO			
			Rou	nd 2				
Tallied Votes:								
Status Enda	angered	Threatened	Special	Secure	Unknown	No	Not	Certain
Count	1	3	Concern 2	0	1	Opinion 0	Applicable 0	6.14
Endangered ndividual Certainty					nowhere else? F		should be endang	gered
7		nt population fou is is the only pop					should be endang	gered
	Average Certainty: 7							
					Ave	rage Certainty	<u>y: 7</u>	
						rage Certainty		
	Notes One colony	in the state, on a	a protected site	. Manageme	% o	f Votes: 42.9		
Individual Certainty	One colony Normally ve which shout there appear	ery rarely reporte	d within the sta going forward. to deer browse	te but colony While new co	nt will be require discovered in He	of Votes: 42.9 ed. unterdon Cou	nty in summer 20 t plant (gooseber	
Individual Certainty 8	One colony Normally w which shou there appea considered Since the n	ery rarely reporte IId be monitored g ars to be subject at least threaten newly discovered from E to T. The	d within the sta going forward. to deer browse ed. population in H	te but colony While new co . Since this th lunterdon Co.	% o nt will be require discovered in He lony is on protect e only known co may occupy a la	of Votes: 42.5 ed. unterdon Cou cted land, hos olony in the sta arger area tha	nty in summer 20 tr plant (gooseber ate should be	ry)
Individual Certainty 8 5	One colony Normally w which shou there appea considered Since the n will switch f	ery rarely reporte IId be monitored g ars to be subject at least threaten newly discovered from E to T. The	d within the sta going forward. to deer browse ed. population in H	te but colony While new co . Since this th lunterdon Co.	% o nt will be require discovered in Hi lony is on protection is only known co may occupy a la d land, but there	of Votes: 42.5 ed. unterdon Cou cted land, hos olony in the sta arger area tha	nty in summer 20 tr plant (gooseber ate should be an currently known p collectors from	ry)
Individual Certainty 8 5 6 Special Concern	One colony Normally w which shou there appea considered Since the n will switch f	ery rarely reporte IId be monitored g ars to be subject at least threaten newly discovered from E to T. The	d within the sta going forward. to deer browse ed. population in H	te but colony While new co . Since this th lunterdon Co.	nt will be require discovered in H lony is on protection only known co may occupy a la d land, but there	of Votes: 42.9 ed. unterdon Cou cted land, hos olony in the sta arger area tha is little to stop	nty in summer 20 at plant (gooseber ate should be an currently known p collectors from <u>y: 6.3</u>	ry)
5	One colony Normally w which shou there appea considered Since the n will switch f	ery rarely reporte IId be monitored g ars to be subject at least threaten newly discovered from E to T. The	d within the sta going forward. to deer browse ed. population in H	te but colony While new co . Since this th lunterdon Co.	nt will be require discovered in H lony is on protection only known co may occupy a la d land, but there	of Votes: 42.9 ed. unterdon Cou cted land, hos olony in the sta arger area tha is little to stop	nty in summer 20 at plant (gooseber ate should be an currently known p collectors from <u>y: 6.3</u>	ry)
Individual Certainty 8 5 6 Special Concern	One colony Normally w which shou there appea considered Since the n will switch f working the Notes	ery rarely reporte Id be monitored g ars to be subject at least threaten wewly discovered from E to T. The ere.	d within the sta going forward. to deer browse ed. population in H known colony i ar (2013) of this ble" or "Specia	te but colony While new co . Since this th lunterdon Co. is on protecte	% o nt will be require discovered in He lony is on protect e only known co may occupy a la d land, but there <u>Ave</u> % o	of Votes: 42.9 ad. unterdon Councted land, hose olony in the state arger area that is little to stop arage Certainty of Votes: 28.6 nely rare (nonin for latter base	nty in summer 20 at plant (gooseber ate should be an currently known p collectors from <u>y: 6.3</u>	ry) n, l s

Stable/Secure	NO VOTES							
Other Individual Certainty	Notes				% of	f Votes: 14.3		
Individual Certainty								
6	The exister	nce of a newly fou	inded/discover	ed colony car	n't be used to est	ablish a statu	S.	
U U					Aver	rage Certainty	<u>/: 6</u>	
		0	(050() D					
		Consen	sus (85%) Rea		d 2? NO			
			Rou	ind 3				
Status Enc	langered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	1	4	1	0	0	0	1	6
hustificationa								
Justifications:								
Endangered	••				% of	f Votes: 14.3		
Individual Certainty	Notes							
		ent population fou						
7		d when it used to left. Period.	be "locally con	nmon" 100 ye	ars ago? Can't g	et much rarer	r than having one	
					Δικο	rado Cortaint	r. 7	
					Aver	rage Certainty	<u>/: 7</u>	
- 1						-	<u>/: 7</u>	
	Notes					rage Certainty f Votes: 57.1	<u>/: 7</u>	
	Notes				% of	f Votes: 57.1		
	With only o	one colony known protected and plar			% of ar a status of Three	f Votes: 57.1 eatened is ap	propriate, even tl	
	With only o the site is p	ne colony known protected and plar ≽ if this colony ren	ns for manager		% of ar a status of Three	f Votes: 57.1 eatened is ap	propriate, even tl	
Individual Certainty	With only o the site is p	protected and plar	ns for manager		% of ar a status of Three	f Votes: 57.1 eatened is ap	propriate, even tl	
Individual Certainty	With only o the site is p be possible An addition	protected and plar e if this colony ren nal individual was	ns for manager nains stable. observed this	ment are bein year, on Lock	% o f ar a status of Thro g made. Future i atong WMA, app	f Votes: 57.1 eatened is ap reduction to S	propriate, even t Special Concern r miles from the	nay
Individual Certainty	With only o the site is p be possible An addition Frenchtowr distributed	protected and plar e if this colony ren nal individual was n colony (and a 3' locally. This sprin	ns for manager nains stable. observed this observed this d was seen las g we discovere	vear, on Lock tyear 3 miles d hundreds o	% of ar a status of Thro g made. Future i atong WMA, app away), suggesti of the Ribes host	f Votes: 57.1 eatened is ap reduction to S roximately 2 1 ng that this sp plant at the o	propriate, even the Special Concern r miles from the pecies may be we riginal location, s	nay ell o if
Individual Certainty	With only o the site is p be possible An addition Frenchtowr distributed that plant is	protected and plar e if this colony ren nal individual was n colony (and a 3' locally. This sprin s common througl	ns for manager nains stable. observed this observed this d was seen las g we discover hout the area (nent are bein year, on Lock it year 3 miles ed hundreds o Gray Comma	% of ar a status of Thro g made. Future i atong WMA, app away), suggesti of the Ribes host may be as well.	f Votes: 57.1 eatened is ap reduction to S roximately 2 1 ng that this sp plant at the o Nevertheless	propriate, even the Special Concern r miles from the pecies may be we riginal location, s its range within t	nay ell o if NJ,
Individual Certainty	With only o the site is p be possible An addition Frenchtowr distributed that plant is	protected and plar e if this colony ren nal individual was n colony (and a 3' locally. This sprin	ns for manager nains stable. observed this observed this d was seen las g we discover hout the area (nent are bein year, on Lock it year 3 miles ed hundreds o Gray Comma	% of ar a status of Thro g made. Future i atong WMA, app away), suggesti of the Ribes host may be as well.	f Votes: 57.1 eatened is ap reduction to S roximately 2 1 ng that this sp plant at the o Nevertheless	propriate, even the Special Concern r miles from the pecies may be we riginal location, s its range within t	nay ell o if NJ,
Individual Certainty	With only o the site is p be possible An addition Frenchtowr distributed that plant is and its hab	protected and plar a if this colony ren and individual was n colony (and a 3' locally. This sprin s common through itat affinity in term	ns for manager nains stable. observed this d was seen las g we discover hout the area (hout the area (hos of its host pl	vear, on Lock tyear, on Lock tyear 3 miles ed hundreds of Gray Comma ant, both appo	% of ar a status of Thro g made. Future of atong WMA, app away), suggesti of the Ribes host may be as well. ear to be restricted	f Votes: 57.1 eatened is ap reduction to S roximately 2 i ng that this s plant at the o Nevertheless ed enough to	propriate, even the Special Concern r miles from the becies may be we riginal location, s its range within t consider it Threa	nay ell o if NJ, tened.
Individual Certainty 5	With only o the site is p be possible An addition Frenchtowr distributed that plant is and its hab Normally ve (max of 15	protected and plar a if this colony ren al individual was n colony (and a 3' locally. This sprin s common through itat affinity in term ery rarely reported individuals in one	ns for manager nains stable. observed this of was seen las g we discover hout the area C ns of its host pl d within the sta e day) which sh	nent are bein year, on Lock t year 3 miles ed hundreds o Gray Comma ant, both app nould be moni	% of ar a status of Thro g made. Future of atong WMA, app away), suggesti of the Ribes host may be as well. ear to be restricted discovered in Hu tored going forwa	f Votes: 57.1 eatened is ap reduction to S roximately 2 in g that this sp plant at the o Nevertheless ed enough to unterdon Cour ard. While ne	propriate, even the Special Concern r miles from the becies may be we riginal location, s its range within t consider it Threa nty in summer 20 ew colony is on	nay ell o if NJ, tened.
Individual Certainty	With only o the site is p be possible An addition Frenchtowr distributed that plant is and its hab Normally w (max of 15 protected la	protected and plar a if this colony ren al individual was n colony (and a 3' locally. This sprin s common through itat affinity in term ery rarely reported individuals in one and, host plant (g	ns for manager nains stable. observed this g we discover hout the area C ns of its host pl d within the sta e day) which sh ooseberry) the	year, on Lock tyear, on Lock tyear 3 miles ed hundreds of Gray Comma ant, both app the but colony ould be moni re appears to	% of ar a status of Thro g made. Future of atong WMA, app away), suggesti of the Ribes host may be as well. ear to be restricted discovered in Hu tored going forwa be subject to der	f Votes: 57.1 eatened is ap reduction to S roximately 2 in g that this sp plant at the o Nevertheless ed enough to unterdon Cour ard. While ne	propriate, even the Special Concern r miles from the becies may be we riginal location, s its range within t consider it Threa nty in summer 20 ew colony is on	nay ell o if NJ, tened.
6	With only o the site is p be possible An addition Frenchtowr distributed that plant is and its hab Normally w (max of 15 protected la	protected and plar a if this colony ren al individual was n colony (and a 3' locally. This sprin s common through itat affinity in term ery rarely reported individuals in one	ns for manager nains stable. observed this g we discover hout the area C ns of its host pl d within the sta e day) which sh ooseberry) the	year, on Lock tyear, on Lock tyear 3 miles ed hundreds of Gray Comma ant, both app the but colony ould be moni re appears to	% of ar a status of Thro g made. Future of atong WMA, app away), suggesti of the Ribes host may be as well. ear to be restricted discovered in Hu tored going forwa be subject to der	f Votes: 57.1 eatened is ap reduction to S roximately 2 in g that this sp plant at the o Nevertheless ed enough to unterdon Cour ard. While ne	propriate, even the Special Concern r miles from the becies may be we riginal location, s its range within t consider it Threa nty in summer 20 ew colony is on	nay ell o if NJ, tened.
Individual Certainty 5	With only o the site is p be possible An addition Frenchtowr distributed that plant is and its hab Normally w (max of 15 protected la known colo	protected and plar a if this colony ren al individual was n colony (and a 3' locally. This sprin s common through itat affinity in term ery rarely reported individuals in one and, host plant (g	ns for manager nains stable. observed this g we discover hout the area (ns of its host pl d within the sta e day) which sh ooseberry) the bould be consid	year, on Lock t year 3 miles ed hundreds of Gray Comma ant, both appe te but colony hould be moni re appears to lered at least	% of ar a status of Thro g made. Future i atong WMA, app away), suggesti of the Ribes host may be as well. ear to be restricted discovered in Hu tored going forwa be subject to dea threatened.	f Votes: 57.1 eatened is ap reduction to S roximately 2 1 ng that this sp plant at the o Nevertheless ed enough to unterdon Cour ard. While ne er browse. Si	propriate, even the Special Concern r miles from the becies may be we riginal location, s its range within t consider it Threa nty in summer 20 ew colony is on nce this the only	nay o if vJ, tened. 13
Individual Certainty 5	With only o the site is p be possible An addition Frenchtowr distributed that plant is and its hab Normally w (max of 15 protected la known colo	protected and plar a if this colony ren al individual was n colony (and a 3' locally. This sprin s common through itat affinity in term ery rarely reported individuals in one and, host plant (g ony in the state sh	ns for manager nains stable. observed this dra was seen las g we discover hout the area (hout the area (hou	year, on Lock t year 3 miles ed hundreds of Gray Comma ant, both appe te but colony hould be moni re appears to lered at least	% of ar a status of Thro g made. Future i atong WMA, app away), suggesti of the Ribes host may be as well. ear to be restricted discovered in Hu tored going forwa be subject to dea threatened.	f Votes: 57.1 eatened is ap reduction to S roximately 2 1 ng that this sp plant at the o Nevertheless ed enough to unterdon Cour ard. While ne er browse. Si	propriate, even the Special Concern r miles from the becies may be we riginal location, s its range within t consider it Threa nty in summer 20 ew colony is on nce this the only	nay o if vJ, tened. 13
ndividual Certainty 5 6 5	With only o the site is p be possible An addition Frenchtowr distributed that plant is and its hab Normally w (max of 15 protected la known colo	protected and plan a if this colony ren nal individual was n colony (and a 3' locally. This sprin s common throug itat affinity in term ery rarely reporter individuals in one and, host plant (g ony in the state sh	ns for manager nains stable. observed this dra was seen las g we discover hout the area (hout the area (hou	year, on Lock t year 3 miles ed hundreds of Gray Comma ant, both appe te but colony hould be moni re appears to lered at least	% of ar a status of Thro g made. Future i atong WMA, app ; away), suggesti of the Ribes host may be as well. ear to be restricted discovered in Hu tored going forwa be subject to der threatened.	f Votes: 57.1 eatened is ap reduction to S roximately 2 1 ng that this sp plant at the o Nevertheless ed enough to unterdon Cour ard. While ne er browse. Si	propriate, even the Special Concern r miles from the becies may be we riginal location, s its range within t consider it Threa nty in summer 20 w colony is on nce this the only ch and say threat	nay o if vJ, tened. 13

Special Concern		% of Votes: 14.3
Individual Certainty	Notes	

Another species that drew wide range of responses in Round 2. I am staying with SC based on comments from others that suggest the one colony very recently reported might be ephemeral. Would like to hear more about the numbers at that colony and whether it was active in 2014. In the meantime, the comment for NA from another panelist, "The existence of a newly found colony can't be used to establish a status," has me leaning toward NA.

Average Certainty: 5

Stable/Secure NO VOTES

5

Other	% of Votes: 14.3
Individual Certainty	Notes
6	The existence of a newly founded/discovered colony does not justify a status. This seems to be a peripheral population of a rather vagrant species that is demonstrably secure globally. That is not the type of situation that justifies T, E or SC. In my view, those categories apply where official protection on a statewide basis is actually or potentially needed.

Average Certainty: 6

Consensus (85%) Reached in Round 3? NO

Round 4

Status I	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certa	
Count	0	5	1	0	1	0	0	6.1	
Justifications:									
Endangered	NO VOTES								
Threatened					% c	of Votes: 71.4			
Individual Certain	nty Notes								
6		The colony discovered 2013 remains in 2014. Though the site is on protected public land, threatened status would seem appropriate until it becomes clear that the colony will survive.							
	Normally	verv rarely reporte	d within the sta	te since N.Lis	on the edge of	its range but k	ocally widespread	4	

Normally very rarely reported within the state since NJ is on the edge of its range but locally widespread colony discovered in Hunterdon County in summer 2013 (max of 15 individuals in one day) which should be monitored going forward (a max of 4 individuals in one day found in 2014). While main part of new colony is on protected land, host plant (gooseberry) there appears to be subject to deer browse. Since this the only known colony in the state should be considered at least threatened.

The Hunterdon Co. colony was active this year, but fewer individuals were observed. The fact that there are historical records from Hunterdon Co. (Shapiro 1966) and elsewhere in the Delaware Valley suggest that this may be a remnant population rather than a newly established one. (Some panelists have suggested that a species newly established in the state is not deserving of protection.) Citations in Gochfeld and Burger indicate that Gray Comma was formerly much more widespread in the state (especially in the north), although scarce and local.

Will lower my status to T from E. Round 3 data is sufficient. It should be listed either way.

6

6

5

Threatened seems appropriate considering its rarity and more research should be conducted to determine its

8 status in NJ.

Average Certainty: 6.2

Special Concern	% of Votes: 14.3						
Individual Certainty	Notes						
5	Special Concern. I am afraid I will be the odd voter out on this one, voting for SC rather than T. I do not think we have enough data on this species to call it Threatened. I think we should save that designation for species whose presence in the state has been proven to be steadier over the years than this species has proven to be so far.						
	Average Certainty: 5						
Stable/Secure	IO VOTES						
Other	% of Votes: 14.3						
Individual Certainty	Notes						
7	Moving toward the middle, I'd agree to UNKNOWN						
	Average Certainty: 7						
	Consensus (85%) Reached? NO						
	Proposed Status:Referred to ENSAC						
SPECIES: Checkere	d White						
	Pontia protodice						

No Consensus Reached

Proposed status: Referred to ENSAC

Tally and Overall Certainty per Round

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Overall Certainty
Round 1	1	2	2	0	0	0	2	6
Round 2	1	1	2	0	1	0	2	6.14
Round 3	1	0	2	0	1	0	3	6.71
Round 4	0	1	0	0	2	0	4	6.43

Round 1

Tallied Votes:

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	1	2	2	0	0	0	2	6

Justifications:

Endangered	
Individual Certainty	Notes

8

Species already on the NJDEP threatened list. New populations have been found in Salem County. In a recent year there was a huge emergence of these populations.

Average Certainty: 8

Individual Certainty	Notes
8	This species is still highly restricted to two populations and vulnerable within NJ. It has shown that it can be highly eruptive after the population growth in Southern NJ over the last several seasons.
5	This species is currently classified as Threatened (I believe) and the SJBF Log data support that status. The SJBF Log had only 2 records over our first four years, 2008:2011, then a burst of 34 records in 2012 and 13 in 2013. We had multiple double digit single: day counts in both those years, but sites seem relatively few, and observers following up earlier reports by driving to the area to see this unusual species may have amplified the numbers (by multiple observations). Most reports are from Salem, far fewer from Cumberland Confidence level undermined by lack of knowledge of the recent sites: are these old stable colonies that our observers simply overlooked earlier (and where the species will continue to appear) or are recent finds better understood as erratic/unpredictable fluctuations of scattered populations that could be eliminated if things go wrong for a year or two? Gochfeld & Burger 1997 note that the species has undergone "a dramatic decline over the past century, particularly in the last fifty years."
	Average Certainty: 6.5
Special Concern	Netza
ndividual Certainty	Notes
4	The discovery of a number of colonies in southern NJ seems to indicate that this species may be better off than we thought. But it still bears monitoring.
6	Historically common, now rare. Occasional visitors to Sandy Hook from Jamaica Bay, NY area. No recent reports from Newark Airport site. More records from Salem and Cape May Counties, but still mainly small numbers.
	Average Certainty: 5
	<u>Average Certainty: 5</u>
- Other	<u>IO VOTES</u>
Stable/Secure <u>N</u> Other Individual Certainty	
- Other	Notes Not Applicable: Peripheral in NJ, so (with the exception of Newark Airport—and not certain if still extant
Other Individual Certainty	Notes Not Applicable: Peripheral in NJ, so (with the exception of Newark Airport—and not certain if still extant there) its occurrence here is not regular or predictable. It has recently been reported from Salem County, but
Other Individual Certainty 7	Notes Not Applicable: Peripheral in NJ, so (with the exception of Newark Airport—and not certain if still extant there) its occurrence here is not regular or predictable. It has recently been reported from Salem County, but it is too soon to determine whether this is an established population. Not Applicable: Although I have only one specimen in collection from 1990s:2000s and have only personally seen it once, SJBF Log has multiple records from 2012:2013, documented by photographs This species is not threatened by habitat loss; the factors affecting its irregular appearance are related to direct and indirect competition (Nature Serve). NA applies because its appearance in New Jersey is too
Other Individual Certainty 7	Notes Notes Not Applicable: Peripheral in NJ, so (with the exception of Newark Airport—and not certain if still extant there) its occurrence here is not regular or predictable. It has recently been reported from Salem County, but it is too soon to determine whether this is an established population. Not Applicable: Although I have only one specimen in collection from 1990s:2000s and have only personally seen it once, SJBF Log has multiple records from 2012:2013, documented by photographs This species is not threatened by habitat loss; the factors affecting its irregular appearance are related to direct and indirect competition (Nature Serve). NA applies because its appearance in New Jersey is too unpredictable for a definite status.
Other Individual Certainty 7	Notes Not Applicable: Peripheral in NJ, so (with the exception of Newark Airport—and not certain if still extant there) its occurrence here is not regular or predictable. It has recently been reported from Salem County, but it is too soon to determine whether this is an established population. Not Applicable: Although I have only one specimen in collection from 1990s:2000s and have only personally seen it once, SJBF Log has multiple records from 2012:2013, documented by photographs This species is not threatened by habitat loss; the factors affecting its irregular appearance are related to direct and indirect competition (Nature Serve). NA applies because its appearance in New Jersey is too unpredictable for a definite status. <u>Average Certainty: 5.5</u>

Status Endangered Threatened Special Secure Unknown No Not Certainty Concern Opinion Applicable

Count	4	4	2	0	4	0	0	6.4.4			
Count	1	1	2	0	1	0	2	6.14			
Justifications:											
Endangered					% c	of Votes: 14.3	•				
Individual Certainty	Notes										
	decline ov	One panelist quoted "Historically common, now rare" and another quoted Burger and Gochfeld "a dramatic decline over the past century" It is great new populations were found of this species and they can have eruption years (like any other species of insect) but this species should be endangered because it used to be common and now is rare.									
8	Period. Remember, we need to realize the status of these species a century ago or half a century ago, where there is very little literature on. We cannot just go by our own memory from previous decades or new populations and records.										
	Average Certainty: 8										
Threatened					% c	of Votes: 14.3	5				
Individual Certainty	Notes										
6		orthern NJ. Popula ctuation and occas			cations in south	nern NJ better	off but subject to	D			
					<u>Ave</u>	erage Certainty	/: 6				
Special Concern					% c	of Votes: 28.6	;				
Individual Certainty	Notes										
5	This is the only species on our list where the comments of other voters have led me to lean toward a positive status change (from Threatened). My confidence level is low, however, as it's tough to get a handle on this species. The SJBF Log had only 2 records over our first four years, 2008:2011, then a burst of 34 records in 2012 and 13 in 2013. We had multiple double-digit single-day counts in both those years. Sites seem relatively few, and observers following up earlier reports by driving to the area to see this unusual species may have amplified the numbers (by multiple observations). Most reports are from Salem, far fewer from Cumberland. The comments from other panelists suggest, however, that the current situation is not so different from what it has been. This seems a tough call between Special Concern and Threatened. If the majority votes for Threatened, I will change my vote back to that.							n this ords in ies om			
8	Same ass	essment as per R	ound 1 commer	nts.							
					Ave	erage Certainty	/: 6.5				
Stable/Secure	NO VOTES										
Other					0/ -	f Votoo 40	0				
Individual Certainty	Notes				% (of Votes: 42.8	5				
5	Not Applic are related	cable: This species d to direct and indi too unpredictable f	rect competitior	n (Nature Serv							
6		able: On the edge areas, it is difficult									
5	occurrence would be h	Although it appea e in NJ, the questi helpful to know if tl would vote Threa	on remains whe here are any sp	ether this spec oring sightings	ies is resident	(i.e., does it ro	utinely overwinte	er). It			

Average Certainty: 5.33

Consensus (85%) Reached in Round 2? NO

Pound 2

			Rou	nd 3						
Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty		
Count	1	0	2	0	1	0	3	6.71		
Justifications:										
Endangered					% c	of Votes: 14.3				
Individual Cer	rtainty Notes									
	decline ov A panelisi are threat population Two pane is done on	elist quoted "Histori ver the past centur t in round 2 quoted ened by habitat los n ecology about the elists suggested thi n a certain species ally used to occur e r resident.	y" "NA: this spec ss (including th at. Habitat loss s species being of butterfly, it v	ies is not thre is one) and th happens eve g "unpredictal will all be unp	eatened by habit here are a few lite ry day. ole." I would like redictable and ju	at loss." All na erature source to say that un ist based on a	tive butterfly spe on butterfly less a population necdotal evidence	cies study æ.		
To answer one panelist's question if there are any Spring broods – Smith 1910 ha April, Camden in May, and 5-mile beach in May. It is great new populations were found of this species and they can have eruption species of insect) but this species should be endangered because it used to be "ca Period.						eruption year	s (like any other			
	Remember we need to realize the status of these species a century ago or half a century ago, where there is very little literature on. We cannot just go by our own memory from previous decades or new population and sighting records.									
					<u>Ave</u>	erage Certainty	<u>/: 8</u>			
Threatened			NO \	/OTES						
Special Cond	cern				% c	of Votes: 28.6				
Individual Cer	rtainty Notes									
8	population	s species warrants ns and if these are be able to maintain	as are protecte	d or at the ve						
6	Several p	Round 2 very divide anelists noted deta as four panelists be	ails for their vot	e last time, bi	ut the views are	very different.	If it is a resident			

Average Certainty: 7

Stable/Secure NO VOTES

Other	% of Votes: 57.1
Individual Certainty	Notes
6	I have changed my vote from Threatened to NOT APPLICABLE to reflect the fact that NJ is on the edge of the range of this species. While it is possible that a few may at times be resident it appears to me that currently most or all of our records are visitors from out of state. The colony at Newark Airport is probably gone, leaving the remainder of northern NJ records to be visitors from across Raritan Bay. Similar reasoning may explain its strong variability in southern NJ.
7	Undetermined/UNKNOWN. Because of its largely unpredictable occurrence it is virtually impossible to determine a population status for this species, and we do not know whether it is actually resident (i.e., overwinters). Considering that "both its nectar source and larval host plants are abundant, and colonies can thrive in extremely marginal habitat," Gochfeld and Burger note simply "Protection of an erratic resident like this species is not practical." I agree.
6	NOT APPLICABLE: On the edge of its range in NJ. Because this is an eruptive, unpredictable species of disturbed areas, it is difficult to consider it for protected status. NA is best category to me.
6	I stick with my two colleagues in voting NA and U here. This species is not threatened by habitat loss; the factors affecting its irregular appearance are related to direct and indirect competition (Nature Serve). NA applies because its appearance in New Jersey is too unpredictable for a definite status. I feel it is mistaken to confer a status like threatened or endangered on peripheral populations that are not part of globally threatened species. It is hard to see what could be done to protect them, when it is not clear whether they are permanent residents.
	Average Certainty: Unknown: 7

Not Applicable: 6

Consensus (85%) Reached in Round 3? NO

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty			
Count	0	1	0	0	2	0	4	6.43			
Justifications:											
Endangered	NO VOTES										
-											
Threatened					% (of Votes: 14.3					
Individual Certa	ainty Notes										
	Will lower my vote from Endangered to Threatened to meet in the middle. However, my reasoning stays the same from Round 3:										
		ist quoted "Histori er the past centur		now rare" and	d another quote	d Burger and G	Sochfeld "A dram	atic			
	A panelist in round 2 quoted "NA: this species is not threatened by habitat loss." All native butterfly species are threatened by habitat loss (including this one) and there are a few literature sources on butterfly population ecology about that. Habitat loss happens every day. Even "common" butterflies now are not nearly as "common" as they were 50+ years ago.										
		ists suggested this a certain species									
8		lly used to occur e ice a year as a re		NJ so that ass	embly means it	is a resident e	ven if it's just bro	oded			

Round 4

Smith 1910 has noted them at Riverton in April, Camden in May, and 5-mile beach in May.

Remember we need to realize that status of these species at least a half century ago and look how much their numbers, occurrences, and breeding populations have dropped.

For Round 4: It is very clear that this species is a resident, thus SHOULD get some kind of status and not "N/A." Furthermore, since it is on the edge of its range it is that much more vulnerable to becoming extirpated for NJ. As one panelist noted "it is not threatened by habitat loss; the factors affecting its irregular appearance are related to direct and indirect competition (Nature Serve" but it is still very much threatened whatever the cause and we can see their location decline in the past how many decades.

It has also been brought up many times among pierid scientists that with the introduction of the cabbage white, many of our native whites are being outcompeted.

Average Certainty: 8

Special Concern NO VOTES

Stable/Secure NC)	V	'C	Т	ES	
------------------	---	---	----	---	----	--

% of Votes: 85.7
Not Applicable: NJ is on the edge of the range of this species, and it would seem that most recent records are of visitors. There remain no known colonies in northern NJ and the same appears to be true for the southern part of the state.
Not Applicable: This species seems to have generated the continued widest spread of opinions probably because of the split in whether panelists think this is a permanent resident or only forms non-persistent colonies. I believe the evidence points to the latter. This combined with the fact that this species is on the edge of its range in NJ and seems to favor disturbed areas point me to NA being the best classification.
Unknown: Consensus appears to be out of reach for this species. It appears that considerably more survey work is necessary, particularly in South Jersey, where it may be resident, to determine its current status.
I stick with NA. This species is not threatened by habitat loss; the factors affecting its irregular appearance are related to direct and indirect competition (Nature Serve). NA applies because its appearance in New Jersey is too unpredictable for a definite status. I feel it is mistaken to confer a status like threatened or endangered on peripheral populations that are not part of globally threatened species. It is hard to see what could be done to protect them, when it is not clear whether they are permanent residents. Furthermore, and this applies to all candidate species, there are downsides to listing, including potential restrictions on collecting, that could interfere with documenting species' actual occurrence. Specimens obtained by field collecting and rearing, etc. may be essential to understanding life history and distribution. Except in the cases where it can be shown to be a threat, it is better on balance not to discourage people from documenting their finds through specimens. This is important, because any such efforts are likely to be carried out by private individuals and groups, not the DEP staff. We need to encourage more surveys and monitoring. Will this happen if many more species are on restrictive lists? The other problem, when the threat is not understood is that endless controversy can ensue. For most of these species, we don't know how to protect their populations. Declines of isolated colonies may be unavoidable, and we lack to tools and the willingness to protect large metapopulations and species that occur at low densities naturally. At least in south Jersey, there is still too much debate over habitat management on the scale that these species probably need. Many were common when fire and cutting were largely unchecked. Now that both are extremely restricted – it took Stockton College years to get State permission for a very limited forest management plan – these species are declining throughout their ranges in southern New Jersey. We know these things, but we persist in seeing the

All this may seem to be beside the point of what the SCIENTIFIC issues are. I feel though, that the categories are so fuzzy and our knowledge of most of these species is so incomplete and subject to revision that there aren't clear, objective criteria. Experience is likely to show that some, possibly many, of the species are in the wrong category. I would rather not list too many in restrictive categories like "E" and "T" given that I don't see unequivocal benefit to the species from being listed. "SC" and "Apparently Secure" can be upgraded, if experience shows there are clear threats that can be managed. It's likely to be harder to get species off the "E" and "T." lists, if we learn they don't belong there.

5

I've decided to change my vote from SC to NA – based on the arguments of the panelists that noted that this species is on the periphery of its range in NJ and its up and down numbers reflect a natural pattern.

8

Unknown: further research needs to be conducted to determine this species status in NJ. I believe it is and has been a resident species that can at times be highly irruptive with South Jersey being a very good example of a large population burst during 2011:2012.

Average Certainty: 6.2

Consensus (85%) Reached? NO

SPECIES: Rare Skipper

Problema bulenta

NO Consensus reached

Proposed status: Referred to ENSAC

Tally and Overall Certainty per Round

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Overall Certainty
Round 1	0	1	1	4	0	1	0	6.17
Round 2	0	1	1	5	0	0	0	6.43
Round 3	0	0	3	4	0	0	0	6.43
Round 4	0	0	2	5	0	0	0	6.33

Round 1

Tallied Votes:

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	0	1	1	4	0	1	0	6.17
Justifications	5.							

Endangered <u>NO VOTES</u>

Threatened

ndividual Certainty	Notes			
	Definitely a species that should be monitored	An uncommon to raro species	at coactal babitate	With clim

7

Definitely a species that should be monitored. An uncommon to rare species at coastal habitats. With climate change and no management plans, it very well could be at risk in the near future.

Average Certainty: 7

Special Conce	rn								
Individual Certa	inty Notes								
8	numbers	cies appears to be s (25 at one site) hav Range wide it appea	e been observ	ed at several	locations proxin	nate to the Wa	iding and Mullica	ies.	
					Ave	rage Certainty	<u>/: 8</u>		
Stable/Secure									
Individual Certa	inty Notes								
5	Secure- (Secure- Continues in modest numbers in various locations near tidal salt marsh in southern NJ.							
5	Apparent	ly Secure- Locally o	common. Num	bers seem to	be stable.				
6	cynosuro	Apparently Secure. Widespread south of the Mullica and fairly consistent from year to year. <i>Spartina cynosuroides</i> is known host, threatened by sea level rise and Phragmites, but larvae can eat Phragmites. Probably at least small populations in all brackish tidal marshes with <i>S cynosuroides</i> S of Mullica.							
6		ly Secure- consiste rsey NABA Counts)							
					Ave	rage Certainty	/: 5.5		
Other									
Individual Certa	inty Notes								
Not Indicate	d No Opini	on							
						• • • • •			
					Ave	erage Certainty	Not calculate	<u>a</u>	
		Consens	sus (85%) Rea	ched in Round	d1? NO				
			Rou	nd 2					
Tallied Votes:									
Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty	
Count	0	1	1	5	0	0	0	6.43	
Justifications:									
Endangered	NO VOTES								
Threatened					% c	of Votes: 14.3			
Individual Certa	inty Notes								
7	can be di this spec	Though it can be found in costal habitats during the right time of year, not many are observed too often. This can be due to the habitat they occur in or they can be thinly dispersed. Regardless, their habitat is a threat to this species due to climate change. A butterfly's habitat being threatened is just as much of a threat to the butterfly as is the habitat.							
					Ave	rage Certainty	<u>/: 7</u>		
Special Conce	rn				% c	of Votes: 14.3			

Individual Certainty	Notes
8	Same assessment as per Round 1 comments.
	Average Certainty: 8
Stable/Secure	% of Votes: 71.4
Individual Certainty	Notes
5	Apparently Secure
6	No definite threats identified. Most locations known since it was first found in NJ still have the species. Only much more intensive surveys could show how many populations exist, but habitat is widespread and host is still common.
7	Apparently Secure- consistently reported each year on the SJBF Log from three or four counties (ATL, CMY, CUM, and sometimes SAL), often in double digits. It is also recorded in good numbers on at least two of the four South Jersey NABA July 4th Counts most years: the Galloway Count & the Cumberland Count.
6	Apparently Secure- Locally common. Numbers seem to be stable.
6	Apparently Secure- based on the opinions of panelists more familiar with this species.
	Average Certainty: 6
Other <u>N</u>	NO VOTES

Consensus (85%) Reached in Round 2? NO

			Rou					
Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certaint
Count	0	0	3	4	0	0	0	6.43
Justifications: Endangered	NO VOTES							
Threatened	NO VOTES							
Special Conce	ern				% (of Votes: 42.9		
Individual Certa	ainty Notes							
7	This can threat to t to the but Cromartie	can be found in co be due to the habit his species due to terfly as the habita a, William J; Schwe m New Jersey. Jou	at they occur ir climate change t. itzer, Dale F.,	n or they can l e. A butterfly's 1993: Biology	be thinly dispers habitat being the of the rare skip	ed. Regardles hreatened is ju per, Problema	s, their habitat is st as much of a t bulenta Hesperii	a hreat
8		for this because ev s range outside of l n.						

Round 3

7

I am keeping my vote as Special Concern, the category that drew 5 of the 7 votes last time. Rationale was detailed in Rounds 1 & 2.

Average Certainty: 7.3

Stable/Secure	% of Votes: 57.1
Individual Certainty	Notes
5	Apparently Secure- Having no clear current threats, and continuing in stable numbers, this species seems to be holding its own.
6	Apparently Secure- Based on the opinions of panelists more familiar with this species. Sea-level rise may eventually threaten its habitat, but I think that's too far in the future to justify a higher listing now.
6	Apparently Secure- Locally common. Numbers seem to be stable.
6	Apparently Secure- Way too common and widespread for listing. No definite threats identified. Furthermore, climate change is a much of a potential benefit as a threat, as far as anyone can foresee. It is, after all, a southern species at the northern edge of its range.
	Average Certainty: 5.8

Other NO VOTES

Consensus (85%) Reached in Round 3? NO

Round 4

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	0	0	2	5	0	0	0	6.33

Justifications:

Endangered NO VOTES

Threatened NO VOTES

Special Concern	% of Votes: 28.6
Individual Certainty	Notes
	Sticking with Species of Concern. Round 3 comments for SC support my vote.
	For the panelists that kept it as "Apparently Secure-"
7	"Stable numbers" and "numbers seem stable" – There have been no population studies on this species so that information is all anecdotal and assumedly only for a few locations instead of its entire range.
	"no current threats" – threat is sea level rise.

Sea level rise is "too far in the future" - that is relative and currently knowing a threat, it needs to be acted on.

Special Concern: G2 status and rarity outside of NJ justifies listing even though it is probably secure within NJ.

Average Certainty: 7.5

		<u>riterage containty ric</u>
Stable/Secure		% of Votes: 71.4
Individual Certainty	Notes	
5	Apparently Secure- Though this species is declining in other NJ and continuing in stable numbers, it seems reasonably se	
6	Apparently Secure- Locally common and found at a number of	of sites. Numbers seem to be stable in state.
6	Apparently Secure. I am not persuaded that threats to this sp	pecies are imminent.
6	Apparently Secure. Too common and widespread for listing. climate change is a much of a potential benefit as a threat, as southern species at the northern edge of its range. Furthermo according to several sources. We don't know what its likely fu	s far as anyone can foresee. It is, after all, a ore, it can be readily reared on Phragmites,
Not Indicated	Apparently Secure- Changing my vote (from SC) in the hope borderline situation between S* and SC. It is a species very to be holding its own.	
		Average Certainty: 5.8
Other	NO VOTES	
	Consensus (85%) Reached? NO	
	Proposed Status:Referred to ENSAC	2
SPECIES: Appalac	nian Grizzled Skipper	
	Pyrgus centaureae wyandot	
	Consensus reached in <u>Round 2</u>	
	Proposed status: Not Applicable (Extirg	pated)*

Tally and Overall Certainty per Round

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Overall Certainty
Round 1	1	0	0	0	0	2	4	6.6
Round 2	0	0	0	0	0	0	7	6.43

Round 1

Tallied Votes:

8

Status	Endangered	Threatened	Special	Secure	Unknown	No	Not	Certai
Count	1	0	Concern 0	0	0	Opinion 2	Applicable 4	6.6
Justifications:								
Endangered								
Individual Certa	ainty Notes							
	Maintain e	endangered status	in case a colo	ny is discover	ed but species s	should be cons	sidered <u>historic</u> .	
7								
					<u>Ave</u>	erage Certainty	<u>/: 7</u>	
Threatened	NO VOTES							
Special Conce	ern <u>NO VOTES</u>							
Stable/Secure	NO VOTES							
Other								
Individual Certa	ainty Notes							
7	no record	cable: Probably <u>Ex</u> s after the 1950s†. and declining and d	Now absent	from New Jer	sey and New Yo	ork. Currently	the entire popula	tion is
	Virginia a	nd Virginia.						
6	Not Appli	cable: <u>Extirpated</u> .						
8	Not Applie	cable: <u>Extirpated</u> .						
5	Not Applie	cable: Probably <u>Ex</u>	tirpated.					
Not indicate	ed No Opinic	on						
	1							
Not indicate	ed No Opinic	n						
					Ave	erage Certainty	<u>/: NA: 6.5</u>	

Consensus (85%) Reached in Round 1? NO

Round 2

Tallied Votes:

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	0	0	0	0	0	0	7	6.43
Justifications:								
Endangered	NO VOTES							
Threatened	NO VOTES							

Special Concern	NO VOTES
Stable/Secure	NO VOTES

Other	% of Votes: 100
Individual Certain	ty Notes
6	Not Applicable: Extirpated
5	Not Applicable: <u>Extirpated</u> . Gone over 30 years and not likely to recolonize, given distance to other populations.
6	Not Applicable: Extirpated.
5	Not Applicable: Extirpated.
7	Not Applicable: Extirpated
8	Not Applicable: Extirpated. Gochfeld and Burger indicate no records since the 1950s.
8	Not Applicable: Extirpated.
	Average Certainty: 6.43

Consensus (85%) Reached in Round 2? YES

SPECIES: Acadian Hairstreak

Satyrium acadica

Consensus reached in Round 2

Proposed status: ENDANGERED

Tally and Overall Certainty per Round

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Overall Certainty
Round 1	4	0	1	0	0	2	0	6.6
Round 2	6	0	1	0	0	0	0	6.7

Round 1

Tallied Votes:

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	4	0	1	0	0	2	0	6.6

Justifications:

	Notes							
8	Very local a and a few re one year, b	ecords from two	other locations 05 from the oth	also in Susse er site. One	ex beginning in individual was r	the 1990s, at o	al locations in Sus one of which for on /ernon, Sussex Co	ly
0	112012. 00				ri chiloyivania.			
5		I but definite dec inking out in the		ntly. Probabl	y hardest resid	ent species to f	ind in the state. No	ow in
8	formerly mo	re common and	widespread, e	specially in S	ussex County, b	out it is no longe	ry of its range, it wa er present in forme climate change.	
5	Species rare anthropoge		Doesn't occur	in SNJ. Prefe	ers wetlands wh	ich could easil	y be impacted by	
					<u>Av</u>	erage Certainty	/: 6.5	
Threatened	<u>NO VOTES</u>							
Special Concern	Natas							_
ndividual Certainty	Notes							
7						ed recently with	n most colonies los	st.
	There need	s to be greater s	urvey enon tar	geting this sp	ecies.			
	There heed	s to be greater s	urvey enon tar	geting this sp		erage Certainty	<u>/: 7</u>	
	mere neeu	s to be greater s	urvey enon tan	geting this sp		erage Certainty	<u>/: 7</u>	
Stable/Secure	NO VOTES	s to be greater s	urvey enon tan	geting this sp		erage Certainty	<u>/: 7</u>	
Stable/Secure		s to be greater s	urvey enon tar	geting this sp		erage Certainty	<u>/: 7</u>	
Stable/Secure Other		s to be greater s	urvey enon tar	geting this sp		erage Certainty	<u>/: 7</u>	
		s to be greater s	urvey enon tan	geting this sp		erage Certainty	<u>/: 7</u>	
Other	<u>NO VOTES</u>	s to be greater s		geting this sp		erage Certainty	<u>/: 7</u>	_
Other ndividual Certainty	NO VOTES	s to be greater s		geting this sp		erage Certainty	<u>/: 7</u>	
Other ndividual Certainty Not indicated	No VOTES Notes No Opinion	s to be greater s		geting this sp	<u>Av</u>			_
Other ndividual Certainty Not indicated	No VOTES Notes No Opinion	s to be greater s		geting this sp	<u>Av</u>		/: 7 /: Not indicated	_
Other ndividual Certainty Not indicated	No VOTES Notes No Opinion		sus (85%) Rea		<u>Av</u>			
Other ndividual Certainty Not indicated	No VOTES Notes No Opinion				<u>Av</u>			_
Other ndividual Certainty Not indicated	Notes No Opinion		sus (85%) Rea		<u>Av</u>			_
Other ndividual Certainty Not indicated	Notes No Opinion		sus (85%) Rea	ched in Rour	<u>Av</u>			
Other Individual Certainty Not indicated Not indicated	Notes No Opinion		sus (85%) Rea	ched in Rour	<u>Av</u>			Certa

Justifications:

Endangered

Individual Certainty	Notes
mainidual Certainty	
8	Only two records in the last 20 years.
	My vote is based on the comments of other voters who know its status in NNJ. This is not a species of SNJ.
5	
	Explanations of why this species should be endangered from round 1 has convinced me it still should be
7	endangered and have increased my confidence level.
	Always local but wetland willow habitat loss has contributed to recent decline. At southern limit of eastern
6	U.S. range. Definitely rarest Satyrium species in state and in danger of winking out.
	Formerly occurring in at least 6 northern counties, this species is at the vanishing point in New Jersey, with
8	only one known location with one individual reported (as of 2012). Severe declines also noted in adjacent Orange County, NY. Very likely to wink out, if it hasn't already.
ũ	
7	Same assessment as per Round 1 comments.
I	Same assessment as per round i comments.
	Average Certainty: 6.83
Threatened	NO VOTES
meatened	
Special Concern	% of Votes: 14.3
Individual Certainty	Notes
	It seems as if SC is fully justified, but E is overreach, given lack of specific information on causes of rarity or
6	decline.
	Average Certainty: 6
Stable/Secure	<u>NO VOTES</u>
Other	NO VOTES
Other	<u>NO VOTES</u>
	Concensus (85%) Reached in Pound 22 VEC
	Consensus (85%) Reached in Round 2? YES

SPECIES: Hickory Hairstreak

Satyrium caryaevorus

Consensus reached in Round 4

Proposed status: Special Concern**

**Consensus of 83.3% was reached (5 out of 6) following a panelists request to not be counted due to a low confidence.

Tally and Overall Certainty per Round

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Overall Certainty
Round 1	0	0	2	2	1	2	0	5.6
Round 2	0	0	4	1	2	0	0	5.86
Round 3	0	0	5	0	2	0	0	6.29
Round 4	0	0	5	0	2**	0	0	5.85

Round 1

Tallied Votes:

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	0	0	2	2	1	2	0	5.6
Justifications:								
Endangered	NO VOTES							
Threatened	NO VOTES							
Special Conce	rn							
Individual Certa	inty Notes							
5	reports. C	bed until 1942†. I confined to norther orted in 2013.						
6		y recently describe Occasionally found					hickory forests	to look
					Ave	erage Certainty	: 5.5	
Stable/Secure								
Individual Certa	inty Notes							
4		/ Secure- Uncomr ned from Banded I						to be
7	This speci	es appears to be	widely distribute	ed but at very	low numbers.	Apparently Sec	cure.	
					Ave	erage Certainty	: 5.5	
Other								
	inty Notes							
Individual Certa	Unknown:	Very erratic occu and difficulty sepa es.						
	Unknown: treetops), this specie	and difficulty sepa						
6	Unknown: treetops), this specie d No Opinion	and difficulty sepa es. n	arating it from B	anded Hairst	reak, make it dif	ficult to judge t		
6	Unknown: treetops), this specie d No Opinion No Opinion	and difficulty sepa	arating it from B	anded Hairst	reak, make it dif d no records in (ficult to judge t	he population st	
6 Not indicate	Unknown: treetops), this specie d No Opinion No Opinion	and difficulty sepa es. n	arating it from B	anded Hairst	reak, make it dif d no records in (ficult to judge t our data.	he population st	
6 Not indicate	Unknown: treetops), this specie d No Opinion No Opinion	and difficulty sepa	arating it from B	anded Hairsti	reak, make it dif d no records in o <u>Ave</u>	ficult to judge t our data.	he population st	
6 Not indicate	Unknown: treetops), this specie d No Opinion No Opinion	and difficulty sepa	arating it from B rsey species (a sus (85%) Rea	anded Hairsti pparently) an ched in Roun	reak, make it dif d no records in o <u>Ave</u>	ficult to judge t our data.	he population st	
6 Not indicate	Unknown: treetops), this specie d No Opinion No Opinion	and difficulty sepa	arating it from B rsey species (a sus (85%) Rea	anded Hairsti	reak, make it dif d no records in o <u>Ave</u>	ficult to judge t our data.	he population st	
6 Not indicate	Unknown: treetops), this specie d No Opinion No Opinion	and difficulty sepa	arating it from B rsey species (a sus (85%) Rea	anded Hairsti pparently) an ched in Roun	reak, make it dif d no records in o <u>Ave</u>	ficult to judge t our data.	he population st	
6 Not indicate	Unknown: treetops), this specie d No Opinion No Opinion	and difficulty sepa	arating it from B rsey species (a sus (85%) Rea	anded Hairsti pparently) an ched in Roun	reak, make it dif d no records in o <u>Ave</u>	ficult to judge t our data.	he population st	

	Count	0	0	4	1	2	0	0	5.86
	Justifications:								
I	Endangered	NO VOTES							
	Threatened	NO VOTES							
_	Special Concern					%	of Votes: 57.1		
	ndividual Certainty	Notes							
	6	Confined to	northern NJ. Po	opulation appe	ars to have dro	opped strongly	in the past deca	ade.	
	6		storical literature uld be on the loo				experience and occurs.	d my own. This	
	5						ing or stable. Pr d Banded Hairst		ported
	7	Same asses	sment as per R	ound 1 comme	ents.				
						<u>Av</u>	erage Certainty	<u>: 6</u>	

Stable/Secure	% of Votes: 14.3
Individual Certainty	Notes
5	Apparently Secure- This is not a species of the Coastal Plain. Vote based on comments from other voters.
Other	% of Votes: 28.6
Individual Certainty	Notes
5	Not enough information supplied to justify secure, but no information on potential or actual threats. Doubts about identification make it hard to be very confident.
7	Unknown: Reported numbers are extremely low, but the difficulty of separating this species from Banded Hairstreak in turn makes it difficult to evaluate these numbers.
	Average Certainty: 6

Consensus (85%) Reached in Round 2? NO

			Rou	nd 3				
Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	0	0	5	0	2	0	0	6.29
Justifications	:							
Endangered	NO VOTES							
Threatened	NO VOTES							

Special Concern	% of Votes: 71.4
ndividual Certainty	Notes
7	Confined to northern NJ and now rarely found there. The population shows no sign of recovery from its drop over the past decade. In fact, because of its similarity to the far more abundant Banded Hairstreak, some of its later records may actually belong to that species.
5	When found, it's usually in low numbers. Hard to tell if numbers are falling or stable. Probably underreported since usually found in company of much more common and widespread Banded Hairstreak.
7	Very little historical literature on this species. Going with most other panelists experience and my own. This species should be on the lookout. It does not occur everywhere hickory occurs.
8	This species appears to be on the edge and further work needs to be targeted on it to prevent it from needin a higher status in the future.
5	Changing my vote to the majority: Special Concern. Confidence level = 5 because this is not a species of southern NJ, so have no data nor experience. Vote based on comments of other panelists.
	Average Certainty: 6.4
Stable/Secure	NO VOTES
Stable/Secure I	NO VOTES
Stable/Secure M Other ndividual Certainty	NO VOTES % of Votes: 28.6 Notes
Other	% of Votes: 28.6 Notes UNKNOWN: primarily because of difficulty of separating from Banded. Even experienced observers are stymied by many apparent intermediates that display some but not all of the ID characteristics found in field guides. An actual colony (highest observed numbers in the teens) was discovered at Whittingham WMA this year. Many individuals exhibited all the field marks per Glassberg (A Swift Guide to Butterflies of N. Am.) plus widening of the FW PM band per Cech and Tudor (Butterflies of the East Coast); others lacked one or more of these marks. A photo was taken of a mating pair in which one displayed all characteristics and thus definitely appeared to be a Hickory while the other lacked all but one Hickory ID characteristic (white on both
Other ndividual Certainty	% of Votes: 28.6 Notes UNKNOWN: primarily because of difficulty of separating from Banded. Even experienced observers are stymied by many apparent intermediates that display some but not all of the ID characteristics found in field guides. An actual colony (highest observed numbers in the teens) was discovered at Whittingham WMA this year. Many individuals exhibited all the field marks per Glassberg (A Swift Guide to Butterflies of N. Am.) plus widening of the FW PM band per Cech and Tudor (Butterflies of the East Coast); others lacked one or more of these marks. A photo was taken of a mating pair in which one displayed all characteristics and thus definitely appeared to be a Hickory while the other lacked all but one Hickory ID characteristic (white on both sides of the PM bands), and may have been a Banded. Interestingly, this group of hairstreaks was available for inspection only early in the morning—after that they disappeared; providing some evidence that behavioral characteristics may contribute to this species' apparent rarity. The fact that numbers are rather cyclical—Hickory was absent in 7 years of the 22 Springdale 4JC counts, occurred in low single digits 11 years, and showed up in double figures 5 years (including 2014)—also makes it very difficult to evaluate its
Dther ndividual Certainty 7	% of Votes: 28.6 Notes UNKNOWN: primarily because of difficulty of separating from Banded. Even experienced observers are stymied by many apparent intermediates that display some but not all of the ID characteristics found in field guides. An actual colony (highest observed numbers in the teens) was discovered at Whittingham WMA this year. Many individuals exhibited all the field marks per Glassberg (A Swift Guide to Butterflies of N. Am.) plus widening of the FW PM band per Cech and Tudor (Butterflies of the East Coast); others lacked one or more of these marks. A photo was taken of a mating pair in which one displayed all characteristics and thus definitely appeared to be a Hickory while the other lacked all but one Hickory ID characteristic (white on both sides of the PM bands), and may have been a Banded. Interestingly, this group of hairstreaks was available for inspection only early in the morning—after that they disappeared; providing some evidence that behavioral characteristics may contribute to this species' apparent rarity. The fact that numbers are rather cyclical—Hickory was absent in 7 years of the 22 Springdale 4JC counts, occurred in low single digits 11 years, and showed up in double figures 5 years (including 2014)—also makes it very difficult to evaluate its population status. No information on potential or actual threats to justify SC. Doubts about identification make it hard to be very

Round	4
i to ana	

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	0	0	5	0	2**	0	0	5.85

Justifications:

Endangered	NO VOTES
Threatened	NO VOTES
Special Concern	% of Votes: 83.3 (adjusted: see comment below)**
Individual Certainty	Notes
7	While this species apparently remains confined to northern NJ, after about a decade of near absence, a better number was reported in 2014. This behavior is in line with past experience, with long periods of few if any records interspersed with occasional better years, and is not enough to be regarded as recovery.
5	When found, it's usually in low numbers. Hard to tell if numbers are falling or stable. Probably underreported since usually found in company of much more common and widespread Banded Hairstreak.
5	In order to promote consensus, I am changing my vote from Unknown to SC; perhaps that will focus more attention on a species that is very difficult to identify, and therefore to track in terms of its population.
8	Sticking with SC. Round 3 comments all represented why this should be of concern. Not higher or lower.
8	Special Concern: This species appears to warrant a special concern status and further research.
	Average Certainty: 6.6
Stable/Secure	NO VOTES
Other	% of Votos: 16.6 (adjusted; see comment below)**

Other	% of Votes: 16.6 (adjusted: see comment below)**
Individual Certainty	Notes
5	Unknown: No information on potential or actual threats to justify SC. Doubts about identification make it hard to be very confident for an S*, so I stay with U. Since it's likely that the state will rely on volunteer efforts to monitor these species, I worry that listing may actually end up discouraging the finding and documenting of new reliable records. This is especially a problem when photographic evidence may be unreliable or equivocal.
3*	Unknown*. The lengthy comment from the panelist last time about the difficulty of separating this species from banded hairstreak and some research into the subject have convinced me to change my vote to Unknown. This is a North Jersey species that I have no experience with and it seems a species very difficult to study in NJ.
Ŭ	If counting my vote for U means that we do not have a majority, I request that I be counted as abstaining. I am not comfortable voting on this enigmatic species. **NOT CALCULATED IN TALLY DUE TO LOW CONFIDENCE/REQUEST BY PANELIST**
	Average Certainty: 4
	Consensus (85%) Reached? YES

SPECIES: Edwards' Hairstreak

Satyrium edwardsii

No Consensus Reached

Proposed status: Referred to ENSAC

Tally and Overall Certainty per Round

Status	Endangered	Threatened	Special	Secure	Unknown	No	Not	Overall
-		-	Concern	-	-	Opinion	Applicable	Certaint
Round 1	0	1	1	4	0	1	0	6
Round 2	0	1	1	5	0	0	0	6
Round 3 Round 4	0	1 0	2	4 5	0	0	0	6
Round 4	0	0	2	5	U	0	U	6.57
			Rou	nd 1				
Tallied Votes	i i							
Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certaint
Count	0	1	1	4	0	1	0	6
Justifications								
Endangered	<u>NO VOTES</u>							
Threatened								
ndividual Ce	rtainty Notes							
7		not encountered the but not the species		uch in the his	toric literature a	nd specimens.	Scrub oak habita	ats are
					Ave	erage Certaint	<u>y: 7</u>	
Special Con	cern							
ndividual Ce	rtainty Notes							
6		ommon in scrub oa Plain. Could be vulr				e recently beer	n found on the Ou	iter
					Ave	erage Certaint	<u>y: 6</u>	
Stable/Secu	re							
ndividual Ce	-							
6		ly Secure- Probabl Ind Warren Countie ner south.						
5	Apparent	ly Secure- Can be	locally commor	n especially a	long ridge-tops	in northern pa	rts of the state.	
7	This appe Secure.	ears to be a highly	localized specie	es and restric	ted by the distri	bution of suital	ble habitat. Appa	rently
5	one doub one in an My under South Jer Secure" o	difficult butterfly to ble-digit single-day id around the Atlan rstanding is that thi rsey, and perhaps only because of its rsey's, I'd vote for '	count (22 indivi tic City Airport; s species is mo the ant attenda larger numbers	duals on 6/2 the other alo ore easily four nt, <i>Formica</i> s in North Jers	2/09), and all oung the Hesstown and in North Jerse p., is the limiting sey. If the status	r records com n powerline in ey. The host p factor here.	e from just two an Cumberland Cou plant is abundant I vote for "Appare	reas: inty. in ntly
					_			

Average Certainty: 5.75

Individual Certainty N	lotes

Not indicated No Opinion

```
Average Certainty: Not calculated
```

Consensus (85%) Reached in Round 1? NO

Round 2

Tallied Votes:

Status	Endangered	Threatened	Special	Secure	Unknown	No	Not	Certai
Count	0	1	Concern 1	5	0	Opinion 0	Applicable 0	6
Count	0	I	1	5	0	0	0	0
Justifications:								
Endangered	<u>NO VOTES</u>							
Threatened					% 0	of Votes: 14.3		
Individual Certain	nty Notes				,,, C			
		habitat is common bitat it occurs in. D						cause
	or that has		ependent on a	in ant species			INJ.	
7		no panelists com				convinced me	that it is secure a	and
	stable. It s	eems they were a	l based on per	sonal observation	ation.			
					Ave	rage Certainty	/: 7	
Special Concer	n				% o	of Votes: 14.3		
Individual Certain	nty Notes							
	Much app	arently suitable rid	ae-top scrub o	ak habitat is ı	inoccupied in No	orth loreov wi	th only 6:10 color	nv.
		n. Habitat is vulne						
7	explain wh	ny much habitat is						
	Formica a	re declining.						
					Ave	rage Certainty	/: 7	
01-1-1-70					0/ -	() (- (- - 4 - 4		
Stable/Secure Individual Certain	ntv Notes				% 0	of Votes: 71.4		
munuual Certai	ing notes							

Individual Certainty	Notes
6	Apparently Secure- Uncommon though widespread but local in Scrub Oak along ridge tops in Sussex and Warren Counties. Rare to absent to the south.
4	The consensus is pretty clear that there are no identified threats to the species, other than that it is uncommon.
5	Apparently Secure- The SJBF log has only 24 records in six years, only one double-digit single-day count (22 individuals on 6/22/09), and all records come from just three sites: 10 from areas in/around Atlantic City Airport; 12 from Hesstown (CUM); and 2 from Peaslee WMA. If a separate status were possible for the Coastal Plain, this would qualify as a species of Special Concern. Comments from other voters about its numbers in NNJ have led me to choose Apparently Secure.

Apparently Secure- Well distributed along ridge-top habitat in northern NJ. Good numbers in appropriate

- habitat which is mostly protected. Rare and extremely local in southern part of the state. 6
- 7 Same assessment as per Round 1 comments.

Average Certainty: 5.6

NO VOTES Other

Consensus (85%) Reached in Round 2? NO

			Rou	nd 3				
Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	0	1	2	4	0	0	0	6
Justifications: Endangered	NO VOTES							
Threatened	ntv Notes				% c	of Votes: 14.3		_
Individual Certainty Notes Scrub oak habitat is common but not the species. Habitat and thus the butterfly is threatened by fire because of the habitat is occurs in. Dependent on an ant species that no one is familiar with in NJ. In NNJ they occur in ridge tops which are greatly threatened by climate change. There was no panelist comment in the secure/stable explanations that convinced me that it is secure or stable. It seems they were all based on personal observation.								
					Ave	rage Certainty	/: 7	

Special Concern	% of Votes: 28.6
Individual Certainty	Notes
6	There are 2 possible significant threats to this species: loss of its relatively limited scrub oak habitat to fire, and loss of its ant associate, <u>Formica integra</u> . Only one of the 6:10 known colonies in North Jersey consists of more than a handful of individuals.
7	This species would seem to warrant listing of SC because it seems to be one the edge and research work needs to be targeted to insure that it does not decline further and to make sure we understand it better.

Average Certainty: 6.5

Stable/Secure	% of Votes: 57.1
Individual Certainty	Notes
6	Apparently Secure- While Rare in southern NJ, this species remains locally common on the ridge-tops with Scrub Oak and the appropriate ant species in northwestern NJ. Its population shows no sign of decrease.
6	Apparently Secure- Well distributed along ridge top habitat in northern NJ. Good numbers in appropriate habitat which is mostly protected. Rare and extremely local in southern part of the state.

5	Sticking with Apparently Secure as there are no identified threats to the species, other than that it is uncommon. If it is clear that scrub oak habitat is disappearing to either fire or succession, one could justify SC, because it seems to meet the criteria, "inherent vulnerability to environmental deterioration or habitat modification that would result in their becoming Threatened if conditions surrounding the species begin or continue to deteriorate. This category includes species that meet the foregoing criteria and for which, in addition, there is little understanding of their current population status."
5	Keeping my vote with the majority from Round 2: Apparently Secure, for reasons detailed then.
	Average Certainty: 5.5

Other NO VOTES

Consensus (85%) Reached in Round 3? NO

Round 4

Status I	Endangered	Threatened	Special	Secure	Unknown	No	Not	Certa
Quant	<u> </u>		Concern			Opinion	Applicable	0.5
Count	0	0	2	5	0	0	0	6.5
Justifications:								
Endangered	NO VOTES							
Threatened	NO VOTES							
Special Conceri					% c	of Votes: 28.6	5	
Individual Certair	nty Notes							
	double digi	2001, but usually its, with a high in 2	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					e mid-
6	only one of Susquehan vulnerable restricted to	scattered, reports f these sites that h nna-Roseland pov to any decline in o only known 2 ro th of the Ridge in	(mainly off the nad been visite wer line upgrad this species' ar bust colonies \$	ridge) are of d somewhat r e. The ridge- nt associate. Secure. Listin	single individua regularly has be top locations an I simply do not f ng it as SC migh	ls or very low s en cleared as e vulnerable to eel comfortabl t focus enough	single digits, and part of the o fire, and all are e calling a specie a attention to get t	es the
6	only one of Susquehar vulnerable restricted to entire lengt	scattered, reports f these sites that h nna-Roseland pov to any decline in o only known 2 ro	(mainly off the nad been visite wer line upgrad this species' ar bust colonies \$ NJ surveyed so	ridge) are of d somewhat r le. The ridge- nt associate. Secure. Listir o that we can	single individua regularly has be- top locations ar I simply do not f ng it as SC migh develop a mucl	Is or very low s en cleared as e vulnerable to eel comfortabl t focus enough n better idea of	single digits, and part of the p fire, and all are e calling a specie a attention to get f its population st	es the
6	only one of Susquehar vulnerable restricted to entire lengt I will lower Scrub oak l	scattered, reports f these sites that h nna-Roseland pov to any decline in o only known 2 ro th of the Ridge in	(mainly off the nad been visite wer line upgrad this species' ar bust colonies \$ NJ surveyed si eatened status n but not the sp	ridge) are of d somewhat r e. The ridge- tt associate. Secure. Listir o that we can to now Speci becies. Habita	single individua regularly has be- top locations ar I simply do not f ig it as SC migh develop a much es of Concern, t at and thus the b	Is or very low s en cleared as j e vulnerable to eel comfortabl t focus enough n better idea of hough I still fer utterfly is threa	single digits, and part of the of ire, and all are e calling a specie a attention to get f its population st el it should be T.	es the atus.
	only one of Susquehar vulnerable restricted to entire lengt I will lower Scrub oak of the habit	scattered, reports f these sites that h nna-Roseland pow to any decline in o only known 2 ro th of the Ridge in my originally Thre habitat is commo	(mainly off the nad been visite wer line upgrad this species' ar bust colonies \$ NJ surveyed so eatened status n but not the sp ependent on an	ridge) are of d somewhat r le. The ridge- nt associate. Secure. Listir o that we can to now Speci becies. Habita ant species f	single individua regularly has be- top locations ar I simply do not f og it as SC migh develop a much es of Concern, t at and thus the b that no one is fa	Is or very low s en cleared as j e vulnerable to eel comfortabl t focus enough n better idea of hough I still fe utterfly is threa miliar with.	single digits, and part of the of ire, and all are e calling a specie a attention to get f its population st el it should be T.	es the atus.
6	only one of Susquehar vulnerable restricted to entire lengt I will lower Scrub oak of the habit In NNJ they	scattered, reports f these sites that h nna-Roseland pow to any decline in o only known 2 ro th of the Ridge in my originally Thre habitat is common tat it occurs in. De	(mainly off the nad been visite wer line upgrad this species' ar bust colonies S NJ surveyed so eatened status n but not the sp ependent on an ops which are	ridge) are of d somewhat r le. The ridge- nt associate. Secure. Listin o that we can to now Speci becies. Habita a ant species f greatly threat	single individua regularly has be- top locations ar I simply do not f ag it as SC migh develop a much es of Concern, t at and thus the b that no one is fa ened by climate	Is or very low s en cleared as j e vulnerable to eel comfortabl t focus enough n better idea of hough I still fe utterfly is threa miliar with.	single digits, and part of the of ire, and all are e calling a specie a attention to get f its population st el it should be T.	es the atus.
	only one of Susquehar vulnerable restricted to entire lengt I will lower Scrub oak of the habit In NNJ they	scattered, reports f these sites that h nna-Roseland pov to any decline in o only known 2 ro th of the Ridge in my originally Thre habitat is common tat it occurs in. De y occur on ridge t	(mainly off the nad been visite wer line upgrad this species' ar bust colonies S NJ surveyed so eatened status n but not the sp ependent on an ops which are	ridge) are of d somewhat r le. The ridge- nt associate. Secure. Listin o that we can to now Speci becies. Habita a ant species f greatly threat	single individua regularly has be- top locations ar I simply do not f ng it as SC migh develop a much es of Concern, t at and thus the b that no one is fa ened by climate an SC.	Is or very low s en cleared as j e vulnerable to eel comfortabl t focus enough n better idea of hough I still fe utterfly is threa miliar with.	single digits, and part of the offire, and all are e calling a specie attention to get f f its population st el it should be T. atened by fire bed	es the atus.
	only one of Susquehar vulnerable restricted to entire lengt I will lower Scrub oak of the habit In NNJ they	scattered, reports f these sites that h nna-Roseland pov to any decline in o only known 2 ro th of the Ridge in my originally Thre habitat is common tat it occurs in. De y occur on ridge t	(mainly off the nad been visite wer line upgrad this species' ar bust colonies S NJ surveyed so eatened status n but not the sp ependent on an ops which are	ridge) are of d somewhat r le. The ridge- nt associate. Secure. Listin o that we can to now Speci becies. Habita a ant species f greatly threat	single individua regularly has be- top locations ar I simply do not f ag it as SC migh develop a much es of Concern, t at and thus the b that no one is fa ened by climate an SC.	Is or very low s en cleared as j e vulnerable to eel comfortabl t focus enough n better idea of hough I still fe utterfly is threa miliar with. change.	single digits, and part of the office, and all are e calling a specie attention to get f f its population st el it should be T. atened by fire bed	es the atus.

Apparently Secure- Locally common and widespread on ridge-tops with Scrub Oak and the appropriate ants

7	in north-western NJ, this species shows little sign of decline.
6	Apparently Secure- Well distributed along ridge top habitat in northern NJ. Good numbers in appropriate habitat which is mostly protected. I am unaware of population decreases. Rare and extremely local in southern part of the state.
5	Sticking with Apparently Secure as there are no identified threats to the species, other than that it is uncommon. If it is clear that scrub oak habitat is disappearing to either fire or succession, one could justify SC
6	Apparently Secure. Keeping my vote with the majority from Round 2 and 3 for reasons detailed in Round 2
8	Apparently Secure. Although this species warrants further study.
	Average Certainty: 6.4
Other	NO VOTES
	Consensus (85%) Reached? NO Proposed Status: <u>Referred to ENSAC</u>

SPECIES: Northern Oak Hairstreak

Satyrium favonius Ontario

NO Consensus reached

Proposed status: Referred to ENSAC

Tally and Overall Certainty per Round

Status	Endangered	Threatened	Special	Secure	Unknown	No	Not	Overall
			Concern			Opinion	Applicable	Certainty
Round 1	0	1	2	3	0	1	0	5.5
Round 2	0	1	4	2	0	0	0	5.71
Round 3	0	1	4	2	0	0	0	5.86
Round 4	0	0	5	2	0	0	0	6.29

Round 1

Tallied Votes:

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	0	1	2	3	0	1	0	5.5

Justifications:

Endangered <u>NO VOTES</u>

Threatened Individual Certainty Notes

A very sporadic species. No locations you can go to where you will have a high chance of seeing them.
Shows up in different places once or twice where it has not been found before, but they are rarely found
there again.
there again.

Average Certainty: 7

5 vi 5 vi 7 Tr re de 5 foi ur or 8 5 8 table/Secure ndividual Certainty No Ap re	Notes Similar in erratic occurrence vith generally only one ind This seems the rarest and eports and a total of 16 ind lependably found. Gochfe or "Species of Special Con inderstood species in our inderstood species in our in?	ividual reported a most unpredictal dividuals in six ye Id and Burger (19 ncern." My Confi	at a time. No i ble of the five ears. Records 997) note that dence Level i	reliable colony is Satyrium that or s are scattered v t it has always br is 5 simply beca we do not know	s known. ccur in South J with no site kno een rare in NJ. use it seems a	lersey. Only 15 own where it can b My round #1 vot little-studied/little s it barely hanging	be e is -
5 vi 5 vi 7 Tr 7 de 5 foi 9 5 foi 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Similar in erratic occurrence vith generally only one ind This seems the rarest and eports and a total of 16 im- lependably found. Gochfe or "Species of Special Cou inderstood species in our in?	ividual reported a most unpredictal dividuals in six ye Id and Burger (19 ncern." My Confi	at a time. No i ble of the five ears. Records 997) note that dence Level i	reliable colony is Satyrium that or s are scattered v t it has always br is 5 simply beca we do not know	s known. ccur in South J with no site kno een rare in NJ. use it seems a to search, or i	lersey. Only 15 own where it can b My round #1 vot little-studied/little s it barely hanging	be e is -
5 wi Th re de 5 foi ur or Stable/Secure ndividual Certainty No Ap re	vith generally only one ind This seems the rarest and eports and a total of 16 in- lependably found. Gochfe or "Species of Special Cou- inderstood species in our in? Notes Apparently Secure- Historic eports annually in both no	ividual reported a most unpredictal dividuals in six ye Id and Burger (19 ncern." My Confi	at a time. No i ble of the five ears. Records 997) note that dence Level i	reliable colony is Satyrium that or s are scattered v t it has always br is 5 simply beca we do not know	s known. ccur in South J with no site kno een rare in NJ. use it seems a to search, or i	lersey. Only 15 own where it can b My round #1 vot little-studied/little s it barely hanging	oe e is -
re de 5 for ur or Stable/Secure Individual Certainty No Ag re	eports and a total of 16 ind lependably found. Gochfe or "Species of Special Con inderstood species in our in? Notes Notes	dividuals in six ye Id and Burger (19 ncern." My Confi	ears. Record 997) note that dence Level i	s are scattered w t it has always be is 5 simply beca we do not know	with no site kno een rare in NJ. use it seems a to search, or i	own where it can b My round #1 vot little-studied/little s it barely hanging	e is -
Ar re	Apparently Secure- Histori eports annually in both no			<u>Ave</u>	rage Certainty	5	
Individual Certainty No Ap re	Apparently Secure- Histori eports annually in both no						
Individual Certainty No Ap re	Apparently Secure- Histori eports annually in both no						
Ar	Apparently Secure- Histori eports annually in both no						
5 sc	outhern NJ (Camden Cou	rthern and south	ern NJ. In 20	013, a few in noi	rthern NJ, but o	only one reported	
	Apparently Secure- Wides or decreasing.	pread in north an	d south but v	ery uncommon.	Not clear if po	pulation is increas	ing
7 Ap	Apparently Secure. This s	pecies appears t	o be widespre	ead but uncomm	ion.		
				Ave	rage Certainty	5.33	
Other							
Individual Certainty No	lotes						
Not indicated No	lo Opinion						
				Ave	rade Certainty	Not calculated	
				<u>////0</u>	rage containty.	<u>Hot balbalatea</u>	
	0	(050() D					
	Conse	nsus (85%) Read		JI NU			
		Rou	nd 2				
Tallied Votes:							
Status Endange	ered Threatened	Special	Secure	Unknown	No	Not	Certaint
	1	Concern 4	2	0	Opinion 0	Applicable 0	5.71
Count 0		4	2	U	U	U	J./ I
Justifications:	I						
Endangered <u>NO \</u>	,						
Threatened Individual Certainty No	<u>votes</u>						
,	<u>VOTES</u>			% 0	f Votes: 14.3		
l a							

species of concern in round 1 suggest they are sporadic and erratic. Can't really say this species is on decline simply based off of personal observational data. Even with population models, there may not be many individual records to make it significant.

6 I do say threatened because it is very uncommon and unreliable when looking for it, especially in places it has been previously recorded. No historic records going back 50-100 years ago which help any of us on making decisions on previous range and abundance for the state. It could have been very common 100 years ago.

Average Certainty: 6

Special Concern	% of Votes: 57.1
Individual Certainty	Notes
5	This seems the rarest of the five Satyrium that occur in South Jersey. The SJBF Log has only 15 reports and a total of 16 individuals in our six years. Records are scattered with no site known where it can be dependably found.
6	Rare but widespread in north and south. Usually only singletons found so not clear if population is increasing or decreasing.
7	Persistent low reported numbers (1 or 2 per year in North Jersey) and lack of reliable colony sites would seem to make this species inherently vulnerable enough to merit Special Concern status.
7	Same assessment as per Round 1 comments.

Average Certainty: 6.25

Stable/Secure	% of Votes: 28.6
Individual Certainty	Notes
5	Apparently Secure- Though the population remains very small, it does not appear to be declining.
4	The consensus is pretty clear that there are no identified threats to the species, other than that it is uncommon.
	Average Certainty: 4.5
Other	<u>NO VOTES</u>
	Consensus (85%) Reached in Round 2? NO

Round 3

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	0	1	4	2	0	0	0	5.86
Justifications:								
Endangered	NO VOTES							
Linddingorod	10 10120							
Thusatawad					0/ -	4 Vata a. 44 0		
Threatened					% 0	of Votes: 14.3		
Individual Cer	tainty Notes							

I am not sure how other panelists can say this species is stable/secure when comments for threatened and species of concern in round 1 suggest they are sporadic and erratic. Can't really say this species is on decline simply based off of personal observational data. Though all butterflies are declining in general.

Panelist: "...not clear if population is increasing or decreasing..." The state population? Is there any reliable place to get this species consistently in high numbers?

Panelist: "it does not appear to be declining" What populations are being monitored?

7

The fact that there is no reliable spot for this species despite oak being everywhere is worrisome. Even if there are a handful of populations that they can consistently be found at, is a handful even enough?

Average Certainty: 7

Special Concern	% of Votes: 57.1
Individual Certainty	Notes
5	With only a very few records in most years in northern NJ and not many more in southern NJ, this species is decidedly rare. With such a low population and without any know colony sites, this it is clearly vulnerable.
5	Rare but widespread in northern and southern NJ. Usually only singletons found so not clear if population is increasing or decreasing.
7	These species appears to be on the edge and further work needs to be targeted on it to prevent it from needing a higher status in the future.
6	Panel in Round 2 divided on this species. I am keeping my vote as Special Concern, the category that drew 4 of the 7 votes last time. A rare butterfly that seems in need of monitoring because so scattered and poorly-known at both ends of the state.
	Average Certainty: 5.5

Stable/Secure	% of Votes: 28.6
Individual Certainty	Notes
6	Secure. Interestingly, this was a "big" year for Oak Hairstreak in North Jersey, with at least 6 reported (3 of these on the Kittatinny ridge in the DWGNRA, all on the day of the Springdale 4JC, after the count's first record of 1 in 2013). I am persuaded that this species exists permanently at an (apparently) low but stable population level (or is behaviorally mostly undetectable).
5	This is another example of a species that some feel warrants SC simply because it is very uncommon. I don't agree. Unless there is a known vulnerability or a specific threat, <u>Apparently Secure</u> is the appropriate category. The DEP has no basis for acting in the absence of a specific threat, and as far as I can see, they rely on observations by others for information on status, so SC is not going to result in more intensive monitoring than the species is receiving now. The only other category would be U, but I think its widespread occurrence is enough to rule that out.
	Average Certainty: 5.5
Other	NO VOTES
	Consensus (85%) Reached in Round 3? NO
	Round 4

			Concern			Opinion	Applicable					
Count	0	0	5	2	0	0	0	6.29				
lustifications:												
Endangered	NO VOTES											
Threatened	NO VOTES											
Special Concern					%	of Votes: 71.4						
Individual Certainty	Notes											
6		ne preceding spec lairstreak, this is n				d a better year ii	a 2014. And as with					
5	increasing	Rare but widespread in northern and southern NJ. Usually only singletons found so not clear if population is increasing or decreasing since no known colonies. Need more evidence for me to support position of panelists who rate this species as secure.										
	I will lowe SC from F		(thought I still fe	eel it should be	e T) to go with	the majority. G	ood cases for T and					
8	there is A how butte	Still not sure how this species is "Apparently Secure." For every butterfly species (including common ones) there is ALWAYS the threat or habitat loss and climate change and there are literature sources explaining how butterflies are declining because of this. How many hectares of oak forest have been lost over the last 50+ years because of those threats??										
6	argument species a reach for species th as numer	Special Concern: Sticking with my vote with the majority from Round 3 here. I am not convinced by the argument made several times in Round 3 about this species and others that rarity is not a reason to list a species and that we must first know what specific factors threaten it. That's a level of knowledge hard to reach for species as rare as this one. Rarity itself is a threat, in my view, because of the simple fact that species that exist in such very small populations as this one are inherently vulnerable. If oak hairstreak was as numerous as frosted elfin (a species we agreed deserves T), we might be able to pinpoint the specific factors limiting it – and that might make it a T. Until we know more, Special Concern seems appropriate to me.										
8	Special C	oncern: This spec	cies appears to v	varrant a spec	ial concern st	atus and further	research.					
		Average Certainty: 6.6										
Stable/Secure					%	of Votes: 28.6						
Individual Certainty	Notes											
6	1992) cal		sually rare"—a d				ger and Gochfeld (in o persuasive evidence	Э				
	This is another example of a species that some feel warrants SC simply because it is very uncommon. I don't agree. Unless there is a known vulnerability or a specific threat, Apparently Secure is the appropriate category. The DEP has no basis for acting in the absence of a specific threat, and as far as I can see, they rely on observations by others for information on status, so SC is not going to result in more intensive monitoring than the species is receiving now. The only other category would be U, but I think its widespread occurrence is enough to rule that out.											
5			s is receiving nov		her category	would be U, but	r think its widespread					
5			s is receiving nov			verage Certainty						

Consensus (85%) Reached? NO

Proposed Status: _____Referred to ENSAC

SPECIES: Coral Hairstreak

Satyrium titus

No Consensus Reached

Proposed status: Referred to ENSAC

Tally and Overall Certainty per Round

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Overall Certainty
Round 1	0	0	2	4	0	1	0	6
Round 2	0	0	2	5	0	0	0	6.5
Round 3	0	0	2	5	0	0	0	6.3
Round 4	0	0	2	5	0	0	0	6.57

Round 1

Status	Endangered	Threatened	Special	Secure	Unknown	No	Not	Certain
Count	0	0	Concern 2	4	0	Opinion 1	Applicable 0	6
Count	0	0	2	4	0	I	0	0
Justifications	:							
Endangered	NO VOTES							
Liluangereu	NOVOTES							
Threatened	NO VOTES							
Special Con								
Individual Ce	rtainty Notes							
6	Well distrib	outed but nowhere	common. App	ears to be de	clinina in northe	rn NJ.		
-					g			
	Listorias		nacion through	out most of it		lowovor thou	ore not co cooily	
7		a very common s ed in recent decad						
			,g					
					Ave	erage Certainty	/: 6.5	
Stable/Secu								

Stable/Secure	
Individual Certainty	Notes
6	Apparently Secure- Historically fairly stable, though perhaps declining in last five or ten years. Uncommon but widespread in northern NJ; less common in southern NJ.
5	Apparently Secure- Widespread in the state, although may be declining in the northern part.
	Apparently Secure- No evidence of decline in this species during 33 yrs of butterfly count

5								
6		liable and regular, , its numbers appa						rs of
					Ave	rage Certainty	<u>/: 5.5</u>	
Other								
Individual Cert	tainty Notes							
7	appear to	n: This species se much data availab been harder to fin	le to clearly giv	/e it one statu				
					Ave	rage Certainty	<u>y: 7</u>	
		Consen	sus (85%) Rea	ched in Roun	d 1? NO			
			Rou	nd 2				
Tallied Votes:								
Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	0	0	2	5	0	0	0	6.5
Justifications: Endangered Threatened	<u>NO VOTES</u> NO VOTES							
Special Conc	ern				% 0	f Votes: 28.6		
Individual Cert					,,,,,,			
7 7	stable/sec the butterf Also, anot difficult an Although s North Jers	bersed even thoug sure, still noted that flies get reviewed the her panelist sugge d very unreliable t subject to great sw sey despite abunda	t this species is by the state it m ested no decline o do population ings in abunda	in decline, m nay be too late a after 33 yea n ecology with nce, there ap	neaning it should e for them to rec rs of butterfly co a butterfly count of pears to be a do	be a species over since the unts. Remem data. wnward trend	of concern. Nex ey weren't listed ber, that it is ext l in this species i	t time now. remely
	warrant S	pecial Concern.			Ave	rage Certainty	<u>/: 7</u>	
Stable/Secure	e				% 0	f Votes: 71.4	1	
Individual Cert	-				,			
6	Apparently	y Secure- Widespr	ead in the state	e, although m	ay be declining i	n the northerr	n part.	
6	Apparently	y Secure- No evide	ence of decline	in this specie	es during 33 yrs o	of butterfly co	unt	
	Apparentl	y Secure- Seems r	eliable and reg	ular, although	tits description	of "common,"	listed in the CM	30

Apparently Secure- Seems reliable and regular, although its description of "common," listed in the CMBO Butterfly Checklist and in Gochfeld and Burger in the 1990s may no longer be accurate. ("Uncommon" might be better fit for SNJ.) The SJBF Log has 84 reports in six years, from seven of the eight southern counties,

6	sometimes noting double-digit counts, although usually fewer than that.
6	Apparently Secure- Widespread in the state, although may be declining in the northern part.
7	Same assessment as per Round 1 comments.
	Average Certainty: 6.2

Other

NO VOTES

Consensus (85%) Reached in Round 2? NO

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certain
Count	0	0	2	5	0	0	0	6.29
Justifications:								
Endangered	NO VOTES							
Threatened	NO VOTES							
Special Concer					% c	of Votes: 28.6		
Individual Certai	nty Notes							
7	noted that Banded Ha ≤5) on the on the Spri Hairstreak weed in red evaluations (also obser Thinly disp stable/secu	to stay with SC for it shows evidence airstreak) in North Springdale 4JC c ingdale count sind is ant-associated cent years, and the should be based rvational), but we ersed even thougure still noted that nelist suggested	e of decline, at a Jersey—from count (with an a ce 2008) withou , so perhaps it ney simply no lu d on "observati have very little gh host plant ca t this species is	least in the no 1992 to 2008 anomalous 12 ut any obvious s ant partner i onger have th ional data," ar e else to work an be found e s in "decline", i	orth. It was alwa it was recorded in 2003). Now it s change in avai s declining. I've eir Coral Hairstr other has reserv with. verywhere in the meaning it shoul	ays uncommon every year in t is MUCH less lability of its ho looked at a wh eaks. One pan vations about t e state. Two pa ld be a species	relative to, say, single digits (usu common (only 1 ost plant. Coral ole lot of butterfl elist doesn't thin butterfly count da nelists that voted of concern. Also	, ⊨ally ⊧ seen y k our ta d
	difficult and	d very unreliable to punts in the state,	to do populatio	n ecology with	n butterfly count			
7	species in	Although subject t North Jersey des warrant Special	pite abundance	e of its main h				
					Ave	erage Certainty	<u>r: 7</u>	
Stable/Secure					% (of Votes: 71.4		
Individual Certai	nty Notes				/0 0			
5		Secure- Though	,	0	vestern NJ, this	species remai	ns widespread a	nd

5

apparently stable in the remainder of the state.

6	Apparently Secure- Widespread in the state. Appears to be secure in southern part of state, although may be declining in the northern part. To me doesn't merit the same consideration as other butterflies we've classified as Special Concern.
7	This species seems to be on the edge for Stable versus SC for me and is similar in status to a lot of things. It is fairly uncommon but yet you can stumble on them at random in your travels throughout the State.
6	Sticking with Apparently Secure. There are no specific threats identified and no evidence of decline over much of its NJ range.
6	Keeping my vote with the majority from Round 2: Apparently Secure, for reasons detailed then.
	Average Certainty: 6

Other NO VOTES

Consensus (85%) Reached in Round 3? NO

			Rou	nd 4						
Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty		
Count	0	0	2	5	0	0	0	6.57		
Justifications:										
Endangered	NO VOTES									
Threatened	NO VOTES									
Special Conce	ern				% c	of Votes: 28.6				
Individual Certa	ainty Notes									
7 8	apparently active field Sticking wi Springdale	clining markedly, a stable population observer who sa th Species of Cor butterfly count da a "wide spread" sp outh NJ.	is in South Jers w only one Cor ncern. See Rou ata suggests its	eey do not see al Hairstreak nd 3 commer decline. Hos	em to take the ne this year, I cann ats, which both p t plant is everyw	orthern decline ot consider it s panelists expla /here, though i	e seriously. As ar Secure. ined why it shoul not the butterfly.	d be. Etc.		
					Ave	rage Certainty	/: 7.5			
Stable/Secure					%	of Votes: 71.4	4			
Individual Certa	ainty Notes									
5	report appa colleagues	Apparently Secure- Certainly in trouble in north-western NJ, however panelists from other parts of the state report apparent stability elsewhere. Though my inclination based upon my own experience and that of colleagues living nearby is that "Special Concern" is warranted, perhaps for the entire state "Apparently Secure" is more appropriate.								
6	declining in	Secure- Widespr the northern par as Special Concer	t. To me doesn					hay be		

Other		NO VOTES
Other		Average Certainty: 6.2
	8	Apparently Secure. Although this species warrants further study.
	6	Apparently Secure. Keeping my vote with the majority from Round 2 and for reasons detailed in Round 2.
	6	Apparently Secure- Sticking with Apparently Secure. There are no specific threats identified and no evidence of decline over much of its NJ range.

Consensus (85%) Reached? NO

Proposed Status: _____Referred to ENSAC_____

SPECIES: Eyed Brown

Satyrodes Eurydice

Consensus reached in Round 2

Proposed status: SPECIAL CONCERN

Tally and Overall Certainty per Round

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Overall Certainty
Round 1	0	0	3	2	0	2	0	5.8
Round 2	. 0	1	6	0	0	0	0	5.86

Round 1

Tallied Votes:

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	0	0	3	2	0	2	0	5.8
Justifications:								
Endangered	<u>NO VOTES</u>							
Threatened	NO VOTES							
Special Conce								
Individual Certa	ainty Notes							

Only known from a couple of metapopulations in Sussex County. Status should be monitored going forward.

6		t occurs in relative to succession.	ly few colonies,	its wetland h	nabitat is genera	Illy protected, a	and not highly				
6		a species to keep every other specie					ionally have outb	reak			
					Ave	erage Certainty	/: 5.67				
Stable/Secure											
Individual Certainty	Notes										
6	very locall numbers f	y Secure- Historica y in the wetlands o rom several known late June or early	of the Wallkill Rin sites. Howeve	ver drainage er, one site ir	basin in Susse Vernon, Susse	x County. Rep ex County has	orted in small yielded more tha	n 30			
6		es seems to be hi to wetland habita		n NJ after his	storically being n	nore widesprea	ad. It is probably	,			
					Ave	erage Certainty	<u>/: 6</u>				
Other Individual Certainty	Notes										
Not indicated	No Opinio	n									
Not indicated	No Opinio	n									
					Ave	erage Certainty	: Not calculate	<u>d</u>			
		Consen	sus (85%) Read		d 1? NO						
			Rou	nd 2							
Tallied Votes:											
Status End	angered	Threatened	Special	Secure	Unknown	No	Not	Certainty			
Count	0	1	Concern 6	0	0	Opinion 0	Applicable 0	5.86			
Justifications:											
Endangered	NO VOTES										
Litualigereu	NO VOTES										
Threatened	Notoo				% c	of Votes: 14.3					
Individual Certainty	Notes										
6		es is vulnerable be ts narrow habitat a				primarily Wall	kill drainage in Su	lssex			
-				-9	,	rogo Cortoint					
					AVE	erage Certainty	/. 0				
Special Concern	Notos				% (of Votes: 85.7	•				
Individual Certainty	Notes										
6	Present in	a very few locatio	ons in northern N	New Jersey.	Population size	s fluctuate.					
		Present in a very few locations in northern New Jersey. Population sizes fluctuate. It seems as if enough is known to doubt whether the species is secure in NJ, given the very few populations									

4	and the decline seen in all the southern parts of its range. Uncertain because no definite threat is identified.
5	Vote based on comments from other voters. Not a South Jersey species and no records in SJBF data.
7	See round 1 panelist's reviews for species of concern. Could even considered threatened if there are a "few colonies" and a "couple meta populations."
6	Only known from a couple of metapopulations in Sussex County. Status should be monitored going forward.
7	Same assessment as per Round 1 comments.
	Average Certainty: 5.83
Stable/Secure	NO VOTES
Other	NO VOTES

Consensus (85%) Reached in Round 2? YES

SPECIES: Aphrodite Fritillary

Speyeria Aphrodite

No consensus reached

Proposed status: Referred to ENSAC

	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
Status	Endangered	Threatened	Special	Secure	Unknown	No	Not
			Concern			Opinion	Applicable
Round 1	1	0	2	1	0	2	1
Round 2	0	1	2	2	0	0	2
Round 3	0	0	2	0	2	0	3
Round 4	0	0	0	0	4	1	2

Tally and Overall Certainty per Round

Round 1

Tallied Votes:

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	1	0	2	1	0	2	1	6

Justifications:

Endangered								
Individual Certainty	Notes							

6

Historic populations and current ones (?) can be considered rare and scattered. Hard to run numbers with this species because of the scarcity of it. Habitats aren't being managed.

Average Certainty: 6

154

Overall Certainty 6 5.71 5.71

6

Threatened

NO VOTES

Special Concern	
Individual Certainty	Notes
6	Historically probably rare and local. Less common in the past few years than earlier in the decade. No more than one or two records in any recent year and absent in some. Possibly it may never have actually been resident.
4	Very rarely reported. Swamped by the similarly marked much more common Great Spangled Fritillary.
4	Average Certainty: 5
Stable/Secure	
Individual Certainty	Notes
7	Apparently Secure. This species seems to have not been ever abundant and turns up rather randomly Northern NJ. The reason for its rarity does not seem to be clearly understood.
	Average Certainty: 7
Other	
Individual Certainty	Notes
7	Not Applicable: A peripheral species that may not be resident.
Not indicated	No Opinion
Not indicated	No Opinion
	Average Certainty: NA: 7

Consensus (85%) Reached in Round 1? NO

Round 2

Count Opinion Applicable Count 0 1 2 2 0 0 2 Justifications: Endangered NO VOTES VOTES Votes: 14.3 Individual Certainty Notes % of Votes: 14.3 6 Looking at round 1 comments, it seems more data needs to be known about this species. If it is rare and local now, it should be at least species of concern. Average Certainty: 6									
Count 0 1 2 2 0 1 2 Justifications: Justifications: Individual Certainty NO VOTES Image: Second Certainty Image: Second Certainty % of Votes: 14.3 Individual Certainty Notes % of Votes: 14.3 Image: Second Certainty Image: Second Certainty Notes 6 Looking at round 1 comments, it seems more data needs to be known about this species. If it is rare and local now, it should be at least species of concern. Average Certainty: 6	Status	Endangered	Threatened	Special	Secure	Unknown	No	Not	Certa
Justifications: Endangered NO VOTES Threatened % of Votes: 14.3 Individual Certainty Notes 6 Looking at round 1 comments, it seems more data needs to be known about this species. If it is rare and local now, it should be at least species of concern. Average Certainty: 6				Concern			Opinion	Applicable	
Endangered NO VOTES Threatened % of Votes: 14.3 Individual Certainty Notes 6 Looking at round 1 comments, it seems more data needs to be known about this species. If it is rare and local now, it should be at least species of concern. 6 Average Certainty: 6	Count	0	1	2	2	0	0	2	5.7
Endangered NO VOTES Threatened % of Votes: 14.3 Individual Certainty Notes 6 Looking at round 1 comments, it seems more data needs to be known about this species. If it is rare and local now, it should be at least species of concern. Average Certainty: 6									
Endangered NO VOTES Threatened % of Votes: 14.3 Individual Certainty Notes 6 Looking at round 1 comments, it seems more data needs to be known about this species. If it is rare and local now, it should be at least species of concern. 6 Average Certainty: 6									
Threatened % of Votes: 14.3 Individual Certainty Notes 6 Looking at round 1 comments, it seems more data needs to be known about this species. If it is rare and local now, it should be at least species of concern. Average Certainty: 6	Justifications:								
Threatened % of Votes: 14.3 Individual Certainty Notes 6 Looking at round 1 comments, it seems more data needs to be known about this species. If it is rare and local now, it should be at least species of concern. Average Certainty: 6									
Individual Certainty Notes Looking at round 1 comments, it seems more data needs to be known about this species. If it is rare and local now, it should be at least species of concern. 6 Average Certainty: 6	Endangered	<u>NO VOTES</u>							
Individual Certainty Notes Looking at round 1 comments, it seems more data needs to be known about this species. If it is rare and local now, it should be at least species of concern. 6 Average Certainty: 6									
Looking at round 1 comments, it seems more data needs to be known about this species. If it is rare and local now, it should be at least species of concern. Average Certainty: 6	Threatened					% c	of Votes: 14.3		
6 local now, it should be at least species of concern. Average Certainty: 6 6 6	Individual Certai	inty Notes							
6 local now, it should be at least species of concern. Average Certainty: 6 6 6									
Average Certainty: 6						s to be known a	bout this speci	es. If it is rare and	1
	6	local now,	it should be at lea	ist species of c	oncern.				
						A			
Special Concern % of Vetec: 29.6						AVE	erage Certainty	<u>/: 0</u>	
	Special Concer	rn				% c	of Votes: 28.6		
Individual Certainty Notes	Individual Certai	inty Notes							

Very rarely reported. Swamped by the similarly marked much more common Great Spangled Fritillary. No known colonies—is this truly a resident species? Merits further study.

7 Same assessment as per Round 1 comments.

Average Certainty: 6

Stable/Secure	% of Votes: 28.6
Individual Certainty	Notes
6	Apparently Secure- Always very rare with no more than a few recorded in any year. There seems to be no reason to believe that the rather random occurrences are diminishing in number.
5	Hard to evaluate because it seems a peripheral species, hard to separate from great spangled fritillary, and possibly not even a true resident, in which case "Not Applicable" would be a more appropriate vote.
	Average Certainty: 5.5
Other	% of Votes: 28.6
Individual Certainty	Notes
4	Not Applicable: No clear evidence that this species is or has been predictably present in New Jersey. U might be a better choice; given its presence in all surrounding states, it's hard to see how it is peripheral
7	Not Applicable: Extremely erratic occurrence and no known colony site-never more than one seen at a
1	time. At periphery of range. I do not believe it is resident.

Consensus (85%) Reached in Round 2? NO

			Rou	nd 3				
Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	0	0	2	0	2	0	3	5.71
Justifications.								
Endangered	NO VOTES							
Threatened	NO VOTES							
Special Con Individual Ce					% c	of Votes: 28.6		
6	qualified to	escribed species assess azures in nis one. No one el	NJ. They have	e done a thoro	ughassessmei	nt for all the sp	ecies in the state	
7		omplicated situation Great Spangled I					be overlooked wh	en

Average Certainty: 6.5

Stable/Secure NO VOTES

Other	% of Votes: 71.4
Individual Certainty	Notes
5	NOT APPLICABLE: Given the extreme low numbers of annual records and the unpredictable and scattered nature of their locations, I believe that this species is most probably not permanently resident in the state. This despite its presence in New York and Pennsylvania.
7	I do not believe that this species is resident in NJ—a question raised by 3 other commenters. Perhaps it is withdrawing north in response to climate change: In 1997 its abundance in NNJ was estimated at roughly one to every 200 Great Spangled Fritillaries (W. Wander, cited in Gochfeld and Burger 1997); since 2008 the Springdale 4JC has recorded 2854 Great Spangleds but only 1 Aphrodite.
4	UNKNOWN: Very rarely reported. Swamped by the similarly marked and much more common Great Spangled Fritillary. No known colonies. Not convinced this is a true resident species. Doesn't seem to be inherently vulnerable to environmental deterioration or habitat modification. Need more information.
6	UNKNOWN: U is best choice; given its presence in all surrounding states, it's hard to see how it is peripheral. U until evidence emerges that this species is resident or predictably present in New Jersey. SC is not supportable, since no threats are identified.
5	Comments from last Round suggest uncertainty that this is a resident species. It is so rarely reported, no colonies known, and so on. The panel seems very divided on this one. I would need more information to vote for one of the other categories.
	Average Certainty: Unknown: 5 Not Applicable: 5.7

Consensus (85%) Reached in Round 3? NO

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	0	0	0	0	4	1	2	6
Justifications:								
Endangered	NO VOTES							
•								
Threatened	NO VOTES							
Special Concer	rn NO VOTES							
Stable/Secure	NO VOTES							
Other					% o	f Votes: 100		
Individual Certai	inty Notes							
5	unpredictal	able: As stated in ole and scattered ly resident in the s	nature of their	locations, I be	elieve that this s	pecies is most	probably not	

Round 4

Unknown: Very rarely reported. Swamped by the similarly marked and much more common Great Spangled

4	Fritillary. No known colonies. Not convinced this is a true resident species. Doesn't seem to be inherently vulnerable to environmental deterioration or habitat modification. Need more information.
7	Not Applicable: I do not believe that this species is a permanent resident.
6	Unknown: U is best choice; given its presence in all surrounding states, it's hard to see how it is peripheral. I stay with U until evidence emerges that this species is resident or predictably present in New Jersey. SC is not supportable, since no threats are identified.
	Changed my vote to "NO." I feel Erin Campbell from the University of Alberta is the only one who can answer this question. She is a graduate student under Felix Sperling who is one of the best phylogenetic lepidopterists in the world. Erin's research is about the Speyeria complex and from my understanding she used both mitochondrial DNA and genomic SNPs to compared phylogenic reconstruction with several morphological characters.
6	Almost all butterfly watchers use wing venation characteristics to identify a butterfly. Her research suggests you can't do that with this group looking at a whole species unlessyou know the local variation very well. In other words great spangled frits can actually be this species or vice versa combined with other Speyeria! Thus, it would be silly to actually determine a species just by looking at it even when the genetics (let alone morphology) can't see a clear difference between species.
	but my understanding could always be wrong.
6	Unknown. Comments from panelists in both Round 2 & 3 suggest uncertainty that this is a resident species. It is so rarely reported, "swamped by great spangled," no colonies known, and so on.
8	Unknown: further research needed, only occasionally observed and usually only single individuals.
	Average Certainty: 6
	Consensus (85%) Reached? NO
	Proposed Status:Referred to ENSAC

SPECIES: Regal Fritillary

Speyeria idalia

Consensus reached in <u>Round 2</u>

Proposed status: Not Applicable (Extirpated)*

Tally and Overall Certainty per Round

Status	Endangered	Threatened	Special	Secure	Unknown	No	Not	Overall
			Concern			Opinion	Applicable	Certainty
Round 1	0	0	0	0	0	2	5	7.5
Round 2	0	0	0	0	0	0	7	7.43

Round 1

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	0	0	0	0	0	2	5	7.5
Justifications:								
Endangered	NO VOTES							
Threatened	NO VOTES							
Special Concer	n <u>NO VOTES</u>							
Stable/Secure	NO VOTES							
Other								
Individual Certai	nty Notes							
8	Not Applica records. E	able: <u>Extirpated</u> : Eastern US popula	Formerly reside	ent. One repo ouble.	orted from State	n Island in 197	1†. No recent	
6	Not Applica	able: <u>Extirpated</u> .						
8	Not Applic	able: <u>Extirpated</u>						
8	Not Applica	able: <u>Extirpated</u>						
Not indicated	No Opinior	n						
Not indicated	No Opinior	n						
Not indicated	Not Applica	able: <u>Historic</u>						
					Average Cert			

Consensus (85%) Reached in Round 1? NO

Round 2

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	0	0	0	0	0	0	7	7.43
Justifications:								
Endangered	NO VOTES							
Threatened	NO VOTES							
Special Conc	ern <u>NO VOTES</u>							
Stable/Secure	e <u>NO VOTES</u>							

Other	% of Votes: 100
Individual Certainty	Notes
8	Not Applicable: Extirpated
6	Not Applicable: Extirpated
7	Not Applicable: No recent records. Extirpated.
8	Not Applicable: Extirpated.
7	Not Applicable: Extirpated
8	Not Applicable: <u>Extirpated</u> . Apparently no documented records within the past 30 years, and unlikely to be rediscovered or to recolonize naturally.
8	Same assessment as per Round 1 comments.
	Average Certainty: 7.42

Consensus (85%) Reached in Round 2? YES

SPECIES: Hayhurst's Scallopwing

Staphylus hayhurstii

Consensus reached in Round 2

Proposed status: Secure

Tally and Overall Certainty per Round

Status	Endangered	Threatened	Special	Secure	Unknown	No	Not	Overall
			Concern			Opinion	Applicable	Certainty
Round 1	0	0	2	5	0	0	0	5.57
Round 2	0	0	1	6	0	0	0	6.29

Round 1

Tallied Votes:

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certainty
Count	0	0	2	5	0	0	0	5.57

Justifications:

Endangered <u>NO VOTES</u>

Threatened NO VOTES

Special Concern	
Individual Certainty	Notes
6	Another species that may be more widespread than data indicate, because its very small size and flight behavior (remaining close to the ground in dense vegetation) make it hard to find.
6	They are around and common around host plants, specifically in Cape May County. Definitely a species to keep an eye on.
	Average Containty: 6

|--|

Stable/Secure	
Individual Certainty	Notes
5	Apparently Secure- Historically possibly overlooked [†] . Continues in modest numbers in southern New Jersey.
5	Apparently Secure- Uncommon and local but population in southern part of state appears to be stable.
4	Apparently Stable
7	Apparently Secure.
6	Apparently Secure. The SJBF log has 240+ records from a wide variety of sites.
	Average Certainty: 5.4

Other <u>NO VOTES</u>

Consensus (85%) Reached in Round 1? NO

Round 2

Status	Endangered	Threatened	Special Concern	Secure	Unknown	No Opinion	Not Applicable	Certain
Count	0	0	1	6	0	0	0	6.29
Justifications:								
Endangered	NO VOTES							
Lindangoroa	<u></u>							
Threatened	NO VOTES							
Special Concern % of Votes: 14.3								
Individual Cert	tainty Notes							
	Though they may be "stable" in SNJ, they do not occur in or around the Pine Barrens which is taking a huge							
7	chunk of th	chunk of their range map away from SNJ. They are reliable in Cape May county, in "modest" numbers, but this is a species that should be kept an eve on.						
,	1113 13 a 3p		be rept all eye	011.				

Average Certainty: 7

Stable/Secure

Tallied Votes:

% of Votes: 85.7

Individual Certainty	Notes
6	Apparently Secure
6	No threats identified. Everything in the explanations points to apparent stability.
7	Comments from other voters have increased my confidence level. The SJBF Log has 240+ records from a wide variety of sites.
5	Apparently Secure- Uncommon and local but population in southern part of state appears to be stable.
6	Apparently Secure- I defer to the opinions and data from South Jersey observers.
7	Same assessment as per Round 1 comments.
	Average Certainty: 6.2
Other	NO VOTES

Consensus (85%) Reached in Round 2? YES

Species Referred to ENSAC due to inability to reach 85% consensus

Scientific Name	Common Name	Previous Status	Recommended Status (ENSP)	"S" Rank	
Celastrina neglectamajor	Appalachian Azure	Undetermined	Unknown	SU	
Amblyscirtes hegon	Pepper and Salt Skipper	Undetermined	Threatened	S2	
Amblyscirtes vialis	Common Roadside Skipper	Undetermined	Threatened	S2	
Hesperia attalus	Dotted Skipper	Special Concern	Threatened	S2	
Hesperia leonardus	Leonard's Skipper	Special Concern	Threatened	S2	
Neonympha mitchellii	Mitchell's Satyr	Threatened	Threatened	S2	
Polygonia progne	Gray Comma	Undetermined	Threatened	S2	
Pontia protodice	Checkered White	Threatened	Special Concern	S3	
Problema bulenta	Rare Skipper	Undetermined	Special Concern	S3	
Satyrium edwardsii	Edwards' Hairstreak	Undetermined	Apparently Secure	S4	
Satyrium favonius ontario	Northern Oak Hairstreak	Undetermined	Special Concern	S3	
Satyrium titus	Coral Hairstreak	Undetermined	Apparently Secure	S4	
Speyeria aphrodite	Aphrodite Fritillary	Undetermined	Unknown	SU	

Recommendation Justifications

<u>Appalachian Azure-</u> 3 Secure (apparently secure), 3 unknown. 1 no opinion. Secure argue that host plant is abundant and no real sign of decline or hard to ID so can't say for sure it's declining. Unknowns highlight lack of info to assign any status (multitude of apparent sightings may be wrong), S or otherwise. Consensus not to list.

ENSP Recommendation: Unknown

The Azure complex of species is a problematic group of species to work with due to identification and taxonomic uncertainties related to how the species and sub-species should be classified. The panel was unable to come to consensus on the status of this species in NJ and the ENSP will recommend this species to be listed as having an unknown status until further data is available to list it otherwise.

Pepper and Salt Skipper: 2 Endangered, 4 Threatened, 1 Special Concern. E argue that High Point colony is resident and stable, food source not threatened but species is indirectly managed for making E brings more credence to management in general. T argues only one strong colony and could be subject to mismanagement, restricted in NJ. SC argues that no specific threat is identified so hard to justify a listing higher that SC (can't take immediate action), it is scarce and on the edge of range so may even be NA.

ENSP Recommendation: Threatened

There is consensus to list this species from the Delphi review and ENSP recommends listing this species as Threatened based on the fact that the majority was in favor of this status and 6 out of 7 voted for either a Threatened or Endangered Status.

Common Roadside Skipper: 1 Endangered, 5 Threatened, 1 Special Concern. E doesn't want to compromise on a disappearing species, don't know cause for decline and cannot develop "clear plan of action" but can only draw attention to it, something a E status could possible do. T argue- small numbers, sporadic occurrences, moving to middle to try to compromise (at least 3 votes from E), habitat loss, not understood enough, state should protect. SC- reduced indigenous species but unknown threats, they form short-lived colonies and permanent which may explain "historic populations now lost), shouldn't list higher than SC until a plan of action can be developed (may cause more harm than good).

ENSP Recommendation: Threatened

There is consensus to list this species from the Delphi review and ENSP recommends listing this species as Threatened based on the fact that the majority was in favor of this status and 6 out of 7 voted for either a Threatened or Endangered Status..

Dotted Skipper: 1 Endangered, 5 Threatened, 1 Special Concern. E argues drastic range reduction, difficult or inconsistent finding them in remaining areas. T argues only one reliable location with small numbers, uncommon and local but cannot ID reason for decline (habitat appears intact), hard to find, moving to middle to reach consensus. SC argues that small pop size is not enough evidence for imminent disappearance for a mobile butterfly that feeds on common plants but may be at risk due to poor land management.

ENSP Recommendation: Threatened

There is consensus to list this species from the Delphi review and ENSP recommends listing this species as Threatened based on the fact that the majority was in favor of this status and 6 out of 7 voted for either a Threatened or Endangered Status..

Leonard's Skipper: 2 Endangered, 5 Threatened. E argues historic populations extirpated or declining significantly. T argue sporadic sightings, habitat appears to be intact (despite decline in numbers), colonies persist despite low numbers, can't ID a specific threat, many moving from E to reach consensus.

ENSP Recommendation: Threatened

There is consensus to list this species from the Delphi review and ENSP recommends listing this species as Threatened based on the fact that the majority was in favor of this status.

<u>Mitchell's Satyr</u>: This species reached a not applicable consensus during round 2 for the reason that it is now extirpated from the State of NJ. However, this species is listed as Federally Threatened and warrants State listing to reflect its Federal status.

ENSP recommendation: Threatened.

<u>**Gray Comma:**</u> 5 Threatened, 1 Special Concern, 1 Unknown. Threatened argues used to be more widespread, rarely reported, new colony may not be stable or should be listed and moving towards middle. SC argues not enough data to suggest T due to unsteady presence in state.

ENSP Recommendation: Threatened

The majority of the panelists (5 out of 7) were in favor of a Threatened status and 6 out of 7 recommended listing this species. ENSP recommends a Threatened status for this species.

<u>Checkered White</u>: 1 Threatened, 2 Unknown, 4 Not applicable. Divided as to whether it is resident, etc.

ENSP Recommendation: Special Concern

This species generated a great deal of discussion and different opinions within the panel. It has been a resident species for some time with extensive historic records and a persistent population at the Newark Airport (this fact was disagreed upon by some panelists). The establishment, eruption, and subsequent decline of a large population in Southern New Jersey from 2011 through 2014 shows that this species is able to colonize and fully occupy suitable habitat when it becomes available. This also shows the complexity of dealing with eruptive species that utilize highly disturbed habitats (preferred habitats including landfills, airports, roadsides, fallow fields, etc). Due to the species' current threatened status and that this species is highly restricted within NJ after years of extensive declines; the ENSP recommends this species be listed as a species of Special Concern.

Rare Skipper: 2 Special Concern, 5 Secure. SC argue population estimates it may not be stable due to anecdotal nature of population studies, sea level rise may be a threat, G2 status in NJ and rarity around NJ justifies listing despite possible security within state. Secure argue moving towards consensus, locally common, stable in NJ despite declines elsewhere, threats outlined are not imminent.

ENSP Recommendation: Special Concern

The majority (5 out of 7) of the panelists voted for this species to be listed as apparently secure. The arguments for listing versus not listing were divided along the lines of the species" status in NJ versus range-wide. Within NJ, this species is reasonably secure and can generally be found in suitable habitat. The ENSP would recommend that this species be listed as a Special Concern due to the fact that this species is of regional concern which goes beyond the considerations of this status review that focused on the species' situation within NJ.

Edwards' Hairstreak: 2 Special Concern, 5 Secure (apparently secure). No one wants to give.

ENSP Recommendation: Apparently Secure

The majority (5 out of 7) of the panelists voted for this species to be listed as apparently secure and the ENSP recommends it be listed as such until further data is available to list otherwise.

Northern Oak Hairstreak: 5 Special Concern, 2 Secure (apparently secure). Some SC want higher ranks, secure votes argue that it is hard to ID so doesn't warrant listing.

ENSP Recommendation: Special Concern

The majority (5 out of 7) of the panelists voted for this species to be listed as Special Concern and ENSP will recommend it be listed as Special Concern. By definition special concern species can include any species that warrant special attention because of some evidence of decline, inherent vulnerability to environmental deterioration, or habitat modification that would result in their becoming a Threatened species. This category would also be applied to species that meet the foregoing criteria and for which there is little understanding of their current population status in the state

Coral Hairstreak: 2 Special Concern, 5 Secure (apparently secure). No one wants to give.

ENSP Recommendation: Apparently Secure

The majority (5 out of 7) of the panelists voted for this species to be listed as apparently secure and the ENSP recommends it be listed as such until further data is available to list otherwise.

<u>Aphrodite Fritillary:</u> 4 unknown, 1 no opinion, 2 not applicable. Most arguments are difficult ID, or unknown as to permanent residency. Consensus <u>not</u> to list.

ENSP Recommendation: Unknown

The panel could not come to consensus on the status of this species in NJ and opinions leaned towards an unknown status in NJ. ENSP recommends this species to be listed as having an unknown status until further data is available to list it otherwise.

Resources:

Cited Sources

‡R. Cech and G. Tudor, 2005, Butterflies of the East Coast, Princeton University Press.

Cromartie, William J.; Schweitzer, Dale F., "1993: Biology of the rare skipper, Problema bulenta Hesperiidae, in southern New Jersey". *Journal of the Lepidopterists' Society*. 16 June; 472: 125:133

⁺M. Gochfeld and J. Burger, 1997, **The Butterflies of New Jersey**, Rutgers University Press.

Other Referenced Sources

http://www.naba.org/chapters/nabanj/

NatureServe.org

https://blogs.stockton.edu/sjbfs/files/2014/01/SJBFsummaryoverview.pdf