

New Jersey Department of Environmental Protection
Division of Fish and Wildlife
Endangered and Nongame Species Program

SPECIES STATUS REVIEW OF LAND BIRDS AND WATERBIRDS

Final Report

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EXECUTIVE SUMMARY

- The compiler for this status review was Mike Bisignano, NJDEP Division of Fish and Wildlife, Endangered and Nongame Species Program.
- The statuses of 185 avian species were reviewed using the Delphi Technique. This review of bird species was not inclusive of all of New Jersey’s indigenous avifauna; it was designed to evaluate those species indigenous to New Jersey that are of conservation concern, especially those that might reasonably warrant consideration for formal listing as Endangered, Threatened, or Special Concern. Indigenous species include any species considered native to North America that regularly and predictably occur in New Jersey, including state waters (shore to 3 miles offshore).
- Twenty-four reviewers who agreed to participate had these affiliations: 33% were independent (had no affiliation), 21% from conservation organizations, 21% from state government, 17% from academia, 4% from consulting business, and 4% from federal government. One reviewer (with no affiliation) requested to participate as a result of a public call for qualified reviewers.
- Twenty experts agreed to participate in the review of Waterbirds, and 17 for the review of Land Birds; 13 reviewers volunteered to review both bird groups. The number of reviewers that submitted reviews during the four-round process was as follows:

	Waterbirds	Land Birds
Round 1	12	13
Round 2	16	14
Round 3	14	13
Round 4	14	14

- At the start of Round 1, reviewers were provided with data compiled from several sources that included the USGS Breeding Bird Survey and National Audubon Society Christmas Bird Count. These data sources were used to generate trend graphs for species under review (and for which data were available). Data from the ENSP Biotics database (if available for a species) were used to produce maps showing species occurrences. During the review process participants were encouraged to submit additional data sources and publications, which would be provided to the remainder of the panel via email.
- Bird species under review were divided into two groups, Waterbirds and Land Birds. Each species was to be ranked on its conservation status for breeding population and non-breeding population. The ENSP initiated the review by including 75 Waterbirds and 92 Land Birds; in the first round, reviewers requested that four Waterbird and 14 Land Bird species be added to the review, which was done at the start of Round 2. Some of those added species were under review for breeding population or non-breeding population only.
- Round 1 of the Waterbirds review began on September 16, 2016, with the fourth round completed on March 31, 2017. Round 1 of the Land Birds review also began on September 16, 2016, with the fourth round completed on April 6, 2017.
- On December 8, 2017, ENSP staff initiated a fifth round to review those species that received a status of Threatened because ENSP staff are proposing a clarification of the regulatory definition of “threatened.” The current and proposed regulatory definitions are as follows:
 - current definition: a species that may become endangered if conditions surrounding it begin to or continue to deteriorate.
 - proposed definition: a species **likely** to become endangered in the **foreseeable** future if conditions surrounding it begin to or continue to deteriorate.

- The additional round of review of species with a potential Threatened status did not result in any changes in ranks from previous rounds, nor did any species with a previous non-consensus result reach consensus. Round 5 was completed on January 22, 2018. Sixteen reviewers participated in the Waterbird review, and 14 reviewers in the Land Bird review.
- A draft of this report was presented to the NJ Endangered and Nongame Species Advisory Committee (ENSAC) on April 20, 2018, at which time the ENSAC made their recommendations for all non-game-regulated species covered in this review. At the ENSAC's November 14, 2018, meeting, the Division presented additional data on five game-regulated species, and the ENSAC made additional recommendations on four of those five species.
- The recommendations of ENSAC and the Division of Fish and Wildlife are included in Tables 3 and 4 in this report.

The following synopsis highlights those species that received recommended status ranks of Endangered, Threatened and Special Concern, and species for which consensus was not reached. Results of all species reviews are available in Tables 1 and 2, located after this highlight section.

SYNOPSIS OF THE BIRD STATUS REVIEW RESULTS

WATERBIRDS (see Table 1)

- The Waterbird group included 78 species in the *breeding* population subgroup, of which consensus was reached for 67 species.
 - Proposed Status Rank: Endangered
 - Seven species received a proposed rank of Endangered: American Bittern, Black Rail, Black Skimmer, Least Tern, Pied-billed Grebe, Piping Plover, and Roseate Tern.
 - All seven species are currently listed as Endangered.
 - Proposed Status Rank: Threatened
 - Two species received a proposed rank of Threatened: Black-crowned Night-Heron and Yellow-crowned Night-Heron.
 - Both species are currently listed as Threatened.
 - Proposed Status Rank: Special Concern
 - Eleven species received a proposed rank of Special Concern: American Oystercatcher, Caspian Tern, Clapper Rail, Common Gallinule, Common Tern, Glossy Ibis, Least Bittern, Little Blue Heron, Snowy Egret, Spotted Sandpiper, and Tricolored Heron.
 - Clapper Rail and Common Gallinule were both previously unranked and on the game species list. The remaining nine species are currently listed as Special Concern.
 - Consensus Not Reached
 - No consensus was reached for 11 species left unresolved after this review: American Black Duck, American Coot, Cattle Egret, Great Blue Heron, Green Heron, Gull-billed Tern, King Rail, Royal Tern, Ruddy Duck, Sora, and Virginia Rail.
- The Waterbird group included 79 species in the *non-breeding* population subgroup, of which consensus was reached for 70 species.
 - Proposed Status Rank: Endangered

- Six species received a proposed rank of Endangered: Black Rail, Black Skimmer, Least Tern, Piping Plover, Red Knot, and Roseate Tern.
 - Black Rail, currently ranked as Threatened, was recommended as Endangered. The remaining five species are currently listed as Endangered.
- Proposed Status Rank: Threatened
 - No species received a proposed status rank of Threatened.
- Proposed Status Rank: Special Concern
 - Eleven species received a proposed rank of Special Concern: American Bittern, American Oystercatcher, Black-crowned Night-Heron, Gull-billed Tern, Least Bittern, Little Blue Heron, Pied-billed Grebe, Ruddy Turnstone, Semipalmated Sandpiper, Tricolored Heron, and Yellow-crowned Night-Heron.
 - Yellow-crowned Night-Heron, currently listed as Threatened, was recommended as Special Concern.
 - Ruddy Turnstone, currently listed as Secure/Stable, was recommended as Special Concern.
 - The remaining nine species are currently listed as Special Concern.
- Consensus Not Reached
 - Consensus was not reached for nine species left unresolved after this review: Canvasback, Cattle Egret, Clapper Rail, Common Gallinule, Green Heron, Hudsonian Godwit, King Eider, Sanderling, and Sandwich Tern

LAND BIRDS (see Table 2)

- The Land Bird group included 105 species in the *breeding* population subgroup, of which consensus was reached for 94 species.
 - Proposed Status Rank: Endangered
 - Nine species were recommended for Endangered: Golden-winged Warbler, Henslow's Sparrow, Northern Bobwhite, Northern Harrier, Red-shouldered Hawk, Sedge Wren, Short-eared Owl, Upland Sandpiper, and Vesper Sparrow.
 - Northern Bobwhite, which is currently unranked, was recommended as Endangered. Northern Bobwhite is currently a game species.
 - The remaining eight species are currently listed as Endangered.
 - Proposed Status Rank: Threatened
 - Twelve species were recommended for Threatened: American Kestrel, Barn Owl, Bobolink, Eastern Meadowlark, Grasshopper Sparrow, Horned Lark, Kentucky Warbler, Peregrine Falcon, Red-headed Woodpecker, Ruffed Grouse, Saltmarsh Sparrow, and Savannah Sparrow.
 - Ruffed Grouse, which is currently unranked, was recommended as Threatened. Ruffed Grouse is currently a game species.
 - Four species currently listed as Special Concern were recommended as Threatened: Barn Owl, Eastern Meadowlark, Kentucky Warbler, and Saltmarsh Sparrow.
 - Peregrine Falcon, currently listed as Endangered, was recommended as Threatened.
 - The remaining six species are currently listed as Threatened.
 - Proposed Status Rank: Special Concern
 - Twenty-one species received a proposed status rank of Special Concern: Bank Swallow, Blackburnian Warbler, Black-billed Cuckoo, Black-throated Blue Warbler, Black-throated

- Green Warbler, Broad-winged Hawk, Brown Thrasher, Canada Warbler, Cerulean Warbler, Chimney Swift, Cliff Swallow, Common Nighthawk, Eastern Whip-poor-will, Field Sparrow, Least Flycatcher, Prairie Warbler, Purple Martin, Sharp-shinned Hawk, Veery, Winter Wren, and Yellow-breasted Chat.
- Five species currently listed as Secure/Stable were voted as Special Concern: Bank Swallow, Chimney Swift, Field Sparrow, Prairie Warbler, and Purple Martin.
 - The remaining sixteen species are currently listed as Special Concern.
 - Consensus Not Reached
 - Consensus was not reached for 11 species left remained unresolved after this review: Bald Eagle, Barred Owl, Blue-winged Warbler, Long-eared Owl, Magnolia Warbler, Marsh Wren, Mississippi Kite, Nashville Warbler, Northern Goshawk, Rose-breasted Grosbeak, and Wood Thrush.
- The Land Bird group included 100 species in the *non-breeding* population subgroup, of which 91 reached consensus.
 - Proposed Status Rank: Endangered
 - Four species received a proposed rank of Endangered: Golden-winged Warbler, Henslow’s Sparrow, Northern Bobwhite, and Sedge Wren.
 - Golden-winged Warbler, currently listed as Special Concern, was recommended as Endangered.
 - Northern Bobwhite, which is currently unranked, was recommended as Endangered. Northern Bobwhite is currently a game species.
 - The remaining two species are currently listed as Endangered.
 - Proposed Status Rank: Threatened
 - Two species received a proposed rank of Threatened: American Kestrel, and Ruffed Grouse.
 - Ruffed Grouse, which is currently unranked, was recommended as Threatened. Ruffed Grouse is currently a game species.
 - The remaining one species is currently listed as Threatened.
 - Proposed Status Rank: Special Concern
 - Thirteen species received a proposed rank of Special Concern: Barn Owl, Bobolink, Cerulean Warbler, Eastern Meadowlark, Grasshopper Sparrow, Horned Lark, Kentucky Warbler, Northern Harrier, Olive-sided Flycatcher, Red-headed Woodpecker, Rusty Blackbird, Short-eared Owl, and Vesper Sparrow.
 - Red-headed Woodpecker, currently listed as Threatened, was recommended as Special Concern.
 - Two species currently listed as Secure/Stable were recommended as Special Concern: Olive-sided Flycatcher and Rusty Blackbird.
 - The remaining ten species are currently listed as Special Concern.
 - Consensus Not Reached
 - Nine species did not reach consensus and remained unresolved after this review: Barred Owl, Black-billed Cuckoo, Bicknell’s Thrush, Canada Warbler, Eastern Whip-poor-will, Long-eared Owl, Red-shouldered Hawk, Saltmarsh Sparrow, and Upland Sandpiper.

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TABLE 1. SPECIES STATUS REVIEW RESULTS - WATERBIRDS – LISTED ALPHABETICALLY												
Species Common Name	Species Scientific Name	Current Status Breeding ¹	Breeding Consensus	Consensus Round	Confidence Level	Review Results Status ¹		Current Status Non-Breeding ¹	Non-Breeding Consensus	Consensus Round	Confidence Level	Review Results Status ¹
American Bittern	<i>Botaurus lentiginosus</i>	E	YES	2	5.6	E		SC	YES	3	5.4	SC
American Black Duck	<i>Anas rubripes</i>	NONE	NO	--	--	--		NONE	YES	1	5.5	S/S
American Coot	<i>Fulica americana</i>	NONE	NO	--	--	--		NONE	YES	2	5.0	S/S
American Golden-Plover	<i>Pluvialis dominica</i>	NONE	YES	1	7.8	N/A		S/S	YES	3	5.1	S/S
American Oystercatcher	<i>Haematopus palliatus</i>	SC	YES	2	5.7	SC		SC	YES	4	5.3	SC
Atlantic Brant	<i>Branta bernicla</i>	NONE	YES	1	7.7	N/A		NONE	YES	2	5.5	S/S
Audubon’s Shearwater	<i>Puffinus lherminieri</i>	NONE	YES	1	7.6	N/A		NONE	YES	3	5.1	S/S
Black Rail	<i>Laterallus jamaicensis</i>	E	YES	1	6.3	E		T	YES	2	5.7	E
Black Scoter	<i>Melanitta americana</i>	NONE	YES	1	7.5	N/A		NONE	YES	1	5.9	S/S
Black Skimmer	<i>Rynchops niger</i>	E	YES	1	7.2	E		E	YES	2	5.5	E
Black Tern	<i>Chlidonias niger</i>	NONE	YES	1	7.8	N/A		NONE	YES	3	5.3	S/S
Black-bellied Plover	<i>Pluvialis squatarola</i>	NONE	YES	1	7.8	N/A		S/S	YES	1	5.8	S/S
Black-crowned Night-Heron	<i>Nycticorax nycticorax</i>	T	YES	2	5.4	T		SC	YES	3	5.4	SC
Bridled Tern	<i>Onychoprion anaethetus</i>	NONE	YES	1	7.6	N/A		NONE	YES	3	6.2	N/A
Brown Pelican	<i>Pelecanus occidentalis</i>	NONE	Not reviewed for breeding status in this assessment					S/S	YES	3	5.0	S/S
Bufflehead	<i>Bucephala albeola</i>	NONE	YES	1	7.4	N/A		NONE	YES	1	6.7	S/S
Canada Goose	<i>Branta canadensis</i>	NONE	YES	1	7.5	S/S		NONE	YES	1	7.1	S/S
Canvasback	<i>Aythya valisineria</i>	NONE	YES	1	7.9	N/A		NONE	NO	--	--	--
Caspian Tern	<i>Hydroprogne caspia</i>	SC	YES	4	5.0	SC		S/S	YES	2	5.5	S/S
Cattle Egret	<i>Bubulcus ibis</i>	T	NO	--	--	--		SC	NO	--	--	--
Clapper Rail	<i>Rallus crepitans</i>	NONE	YES	3	5.3	SC		NONE	NO	--	--	--

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Common Eider	<i>Somateria mollissima</i>	NONE	YES	2	7.0	N/A		NONE	YES	1	5.1	S/S
Common Gallinule	<i>Gallinula galeata</i>	NONE	YES	3	5.2	SC		NONE	NO	--	--	--
Common Loon	<i>Gavia immer</i>	NONE	YES	1	7.7	N/A		S/S	YES	1	6.3	S/S
Common Tern	<i>Sterna hirundo</i>	SC	YES	2	5.6	SC		S/S	YES	2	5.6	S/S
Dunlin	<i>Calidris alpina</i>	NONE	YES	1	7.9	N/A		S/S	YES	1	5.8	S/S
Forster's Tern	<i>Sterna forsteri</i>	S/S	YES	1	5.7	S/S		S/S	YES	2	5.8	S/S
Glossy Ibis	<i>Plegadis falcinellus</i>	SC	YES	2	5.6	SC		S/S	YES	1	5.6	S/S
Great Blue Heron	<i>Ardea herodias</i>	SC	NO	--	--	--		S/S	YES	1	6.3	S/S
Great Shearwater	<i>Ardenna gravis</i>	NONE	YES	1	7.8	N/A		S/S	YES	2	5.3	S/S
Greater Scaup	<i>Aythya marila</i>	NONE	YES	1	7.9	N/A		NONE	YES	3	5.3	S/S
Greater Yellowlegs	<i>Tringa melanoleuca</i>	NONE	YES	1	7.6	N/A		S/S	YES	1	5.4	S/S
Green Heron	<i>Butorides virescens</i>	S/S	NO	--	--	--		S/S	NO	--	--	--
Gull-billed Tern	<i>Gelochelidon nilotica</i>	SC	NO	--	--	--		SC	YES	4	5.4	SC
Hooded Merganser	<i>Lophodytes cuculatus</i>	NONE	YES	1	5.4	S/S		NONE	YES	1	6.8	S/S
Horned Grebe	<i>Podiceps auritus</i>	NONE	YES	1	7.4	N/A		S/S	YES	3	4.9	S/S
Hudsonian Godwit	<i>Limosa haemastica</i>	NONE	YES	1	7.6	N/A		S/S	NO	--	--	--
King Eider	<i>Somateria spectabilis</i>	NONE	YES	1	7.5	N/A		NONE	NO	--	--	--
King Rail	<i>Rallus elegans</i>	NONE	NO	--	--	--		NONE	YES	3	4.6	U/U
Laughing Gull	<i>Leucophaeus atricilla</i>	S/S	YES	3	5.3	S/S		S/S	YES	2	6.2	S/S
Least Bittern	<i>Ixobrychus exilis</i>	SC	YES	4	5.3	SC		SC	YES	2	5.2	SC
Least Sandpiper	<i>Calidris minutilla</i>	NONE	YES	1	7.5	N/A		S/S	YES	1	5.0	S/S
Least Tern	<i>Sternula antillarum</i>	E	YES	1	7.2	E		E	YES	2	5.8	E

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Lesser Scaup	<i>Aythya affinis</i>	NONE	YES	1	7.9	N/A		NONE	YES	1	5.4	S/S
Lesser Yellowlegs	<i>Tringa flavipes</i>	NONE	YES	1	7.6	N/A		S/S	YES	2	4.9	S/S
Little Blue Heron	<i>Egretta caerulea</i>	SC	YES	1	5.6	SC		SC	YES	3	5.0	SC
Long-tailed Duck	<i>Clangula hyemalis</i>	NONE	YES	1	7.5	N/A		NONE	YES	1	5.5	S/S
Manx Shearwater	<i>Puffinus puffinus</i>	NONE	YES	1	7.6	N/A		NONE	YES	2	5.2	S/S
Marbled Godwit	<i>Limosa fedoa</i>	NONE	YES	1	7.6	N/A		S/S	YES	1	5.7	S/S
Northern Gannet	<i>Morus bassanus</i>	NONE	YES	1	8.0	N/A		S/S	YES	1	6.1	S/S
Northern Pintail	<i>Anas acuta</i>	NONE	YES	2	6.7	N/A		NONE	YES	1	5.6	S/S
Pied-billed Grebe	<i>Podilymbus podiceps</i>	E	YES	2	5.3	E		SC	YES	4	5.3	SC
Piping Plover*	<i>Charadrius melodus*</i>	E	YES	1	7.4	E		E	YES	2	6.4	E
Purple Sandpiper	<i>Calidris maritima</i>	NONE	YES	1	7.9	N/A		S/S	YES	2	5.5	S/S
Razorbill	<i>Alca torda</i>	NONE	YES	1	7.6	N/A		S/S	YES	2	4.7	S/S
Red Knot*	<i>Calidris canutus*</i>	NONE	YES	1	7.9	N/A		E	YES	3	5.5	E
Red-throated Loon	<i>Gavia stellata</i>	NONE	YES	1	7.8	N/A		S/S	YES	1	5.6	S/S
Roseate Tern*	<i>Sterna dougallii*</i>	E	YES	2	5.9	E		E	YES	2	5.9	E
Royal Tern	<i>Thalasseus maximus</i>	NONE	NO	--	--	--		S/S	YES	2	5.8	S/S
Ruddy Duck	<i>Oxyura jamaicensis</i>	NONE	NO	--	--	--		NONE	YES	1	5.9	S/S
Ruddy Turnstone	<i>Arenaria interpres</i>	NONE	YES	1	7.9	N/A		S/S	YES	4	5.3	SC
Sanderling	<i>Calidris alba</i>	NONE	YES	1	7.9	N/A		SC	NO	--	--	--
Sandwich Tern	<i>Thalasseus sandvicensis</i>	NONE	YES	2	5.8	N/A		NONE	NO	--	--	--
Semipalmated Sandpiper	<i>Calidris pusilla</i>	NONE	YES	1	7.6	N/A		SC	YES	3	5.4	SC
Short-billed Dowitcher	<i>Limnodromus griseus</i>	NONE	YES	1	7.7	N/A		S/S	YES	2	5.2	S/S

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Snowy Egret	<i>Egretta thula</i>	SC	YES	2	5.6	SC		S/S	YES	3	5.2	S/S
Solitary Sandpiper	<i>Tringa solitaria</i>	NONE	YES	1	7.5	N/A		S/S	YES	2	4.8	S/S
Sora	<i>Porzana carolina</i>	NONE	NO	--	--	--		NONE	YES	4	5.0	S/S
Spotted Sandpiper	<i>Actitis macularius</i>	SC	YES	2	5.2	SC		S/S	YES	1	4.8	S/S
Surf Scoter	<i>Melanitta perspicillata</i>	NONE	YES	1	7.6	N/A		NONE	YES	1	5.6	S/S
Tricolored Heron	<i>Egretta tricolor</i>	SC	YES	2	5.6	SC		SC	YES	3	5.0	SC
Virginia Rail	<i>Rallus limicola</i>	NONE	NO	--	--	--		NONE	YES	2	4.7	S/S
Whimbrel	<i>Numenius phaeopus</i>	NONE	YES	1	7.5	N/A		SC	YES	3	5.2	S/S
White-rumped Sandpiper	<i>Calidris fuscicollis</i>	NONE	YES	1	7.9	N/A		S/S	YES	2	5.4	S/S
White-winged Scoter	<i>Melanitta fusca</i>	NONE	YES	1	7.4	N/A		NONE	YES	2	5.0	S/S
Willet	<i>Tringa semipalmata</i>	S/S	YES	4	5.0	S/S		S/S	YES	2	5.3	S/S
Wilson's Phalarope	<i>Phalaropus tricolor</i>	NONE	YES	1	7.4	N/A		S/S	YES	4	6.0	N/A
Wood Duck	<i>Aix sponsa</i>	NONE	YES	1	6.1	S/S		NONE	YES	1	6.3	S/S
Yellow-crowned Night-Heron	<i>Nyctanassa violacea</i>	T	YES	2	5.6	T		T	YES	2	5.1	SC

¹Status codes: E = Endangered, T = Threatened, SC = Special Concern, S/S = Secure/Stable, U/U = Undetermined/Unknown, N/A = Not Applicable

*Federally-listed species

TABLE 2. SPECIES STATUS REVIEW RESULTS - LAND BIRDS – LISTED ALPHABETICALLY												
Species Common Name	Species Scientific Name	Current Status Breeding ¹	Breeding Consensus	Consensus Round	Confidence Level	Review Results Status ¹		Current Status Non-Breeding ¹	Non-Breeding Consensus	Consensus Round	Confidence Level	Review Results Status ¹
Acadian Flycatcher	<i>Empidonax vireescens</i>	S/S	YES	1	5.7	S/S		S/S	YES	2	5.6	S/S
American Kestrel	<i>Falco sparverius</i>	T	YES	1	6.0	T		T	YES	3	5.6	T
American Woodcock	<i>Scolopax minor</i>	NONE	YES	2	5.2	S/S		NONE	YES	1	5.3	S/S
Bald Eagle	<i>Haliaeetus leucocephalus</i>	E	NO	--	--	--		T	YES	3	5.8	S/S
Baltimore Oriole	<i>Icterus galbula</i>	S/S	YES	1	5.4	S/S		S/S	YES	1	5.5	S/S
Bank Swallow	<i>Riparia riparia</i>	S/S	YES	4	4.9	SC		S/S	YES	3	5.0	S/S
Barn Owl	<i>Tyto alba</i>	SC	YES	2	5.3	T		SC	YES	3	5.4	SC
Barred Owl	<i>Strix varia</i>	T	NO	--	--	--		T	NO	--	--	--
Bay-breasted Warbler	<i>Setophaga castanea</i>	NONE	YES	2	7.1	N/A		S/S	YES	1	5.2	S/S
Belted Kingfisher	<i>Megaceryle alcyon</i>	S/S	YES	1	5.4	S/S		S/S	YES	1	6.0	S/S
Bicknell’s Thrush	<i>Catharus bicknelli</i>	NONE	YES	1	7.2	N/A		NONE	NO	--	--	--
Black-and-white-Warbler	<i>Mniotilta varia</i>	S/S	YES	1	5.3	S/S		S/S	YES	1	5.7	S/S
Black-billed Cuckoo	<i>Coccyzus erythrophthalmus</i>	SC	YES	2	5.4	SC		S/S	NO	--	--	--
Blackburnian Warbler	<i>Setophaga fusca</i>	SC	YES	3	5.1	SC		S/S	YES	1	5.3	S/S
Black-throated Blue Warbler	<i>Setophaga caeruleascens</i>	SC	YES	4	4.9	SC		S/S	YES	1	5.4	S/S
Black-throated Green Warbler	<i>Setophaga virens</i>	SC	YES	3	5.5	SC		S/S	YES	2	5.4	S/S
Blue-headed Vireo	<i>Vireo solitarius</i>	SC	YES	3	4.9	S/S		S/S	YES	1	5.8	S/S
Blue-winged Warbler	<i>Vermivora cyanoptera</i>	S/S	NO	--	--	--		S/S	YES	2	5.3	S/S
Bobolink	<i>Dolichonyx oryzivorus</i>	T	YES	2	5.4	T		SC	YES	4	5.1	SC
Broad-winged Hawk	<i>Buteo platypterus</i>	SC	YES	2	5.1	SC		S/S	YES	2	4.5	S/S

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Brown Creeper	<i>Certhia americana</i>	S/S	YES	4	4.8	S/S		S/S	YES	2	5.5	S/S
Brown Thrasher	<i>Toxostoma rufum</i>	SC	YES	2	5.6	SC		S/S	YES	3	5.2	S/S
Canada Warbler	<i>Cardellina canadensis</i>	SC	YES	1	5.3	SC		S/S	NO	--	--	--
Cerulean Warbler	<i>Setophaga cerulean</i>	SC	YES	2	5.1	SC		SC	YES	3	5.3	SC
Chimney Swift	<i>Chaetura pelagica</i>	S/S	YES	3	5.0	SC		S/S	YES	3	4.7	S/S
Chuck-will's-widow	<i>Antrostomus carolinensis</i>	S/S	YES	3	5.2	S/S		S/S	YES	4	4.7	S/S
Cliff Swallow	<i>Pterochelidon pyrrhonota</i>	SC	YES	3	5.3	SC		S/S	YES	2	5.5	S/S
Common Nighthawk	<i>Chordeiles minor</i>	SC	YES	2	5.4	SC		SC	YES	4	4.8	S/S
Common Raven	<i>Corvus corax</i>	S/S	YES	2	5.4	S/S		S/S	YES	2	5.6	S/S
Cooper's Hawk	<i>Accipiter cooperii</i>	SC	YES	1	5.8	S/S		S/S	YES	1	6.4	S/S
Dark-eyed Junco	<i>Junco hyemalis</i>	S/S	YES	4	5.4	N/A		S/S	<i>Not reviewed for non-breeding status in this assessment</i>			
Dickcissel	<i>Spiza americana</i>	NONE	YES	4	5.1	N/A		S/S	YES	3	5.5	S/S
Eastern Kingbird	<i>Tyrannus tyrannus</i>	S/S	YES	3	5.3	S/S		S/S	YES	1	5.8	S/S
Eastern Meadowlark	<i>Sturnella magna</i>	SC	YES	3	5.2	T		SC	YES	2	5.2	SC
Eastern Towhee	<i>Pipilo erythrophthalmus</i>	S/S	YES	3	5.0	S/S		S/S	YES	1	5.6	S/S
Eastern Whip-poor-will	<i>Antrostomus vociferus</i>	SC	YES	2	5.2	SC		S/S	NO	--	--	--
Eastern Wood-Pewee	<i>Contopus virens</i>	S/S	YES	1	6.1	S/S		S/S	YES	1	6.0	S/S
Field Sparrow	<i>Spizella pusilla</i>	S/S	YES	4	4.8	SC		S/S	YES	1	5.2	S/S
Golden Eagle	<i>Aquila chrysaetos</i>	NONE	<i>Not reviewed for breeding status in this assessment</i>					S/S	YES	4	4.9	S/S
Golden-crowned Kinglet	<i>Regulus satrapa</i>	S/S	YES	4	4.9	S/S		S/S	YES	2	5.6	S/S
Golden-winged Warbler	<i>Vermivora chrysoptera</i>	E	YES	1	6.6	E		SC	YES	3	5.4	E
Grasshopper Sparrow	<i>Ammodramus savannarum</i>	T	YES	1	4.8	T		SC	YES	3	5.3	SC

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Gray Catbird	<i>Dumetella carolinensis</i>	S/S	YES	1	6.9	S/S		S/S	YES	1	7.1	S/S
Gray-cheeked Thrush	<i>Catharus minimus</i>	NONE	YES	1	7.8	N/A		S/S	YES	3	4.9	S/S
Great Crested Flycatcher	<i>Myiarchus crinitus</i>	S/S	YES	1	6.6	S/S		S/S	YES	1	6.5	S/S
Henslow's Sparrow	<i>Ammodramus henslowi</i>	E	YES	2	6.3	E		E	YES	3	5.1	E
Hermit Thrush	<i>Catharus guttatus</i>	S/S	YES	4	4.6	S/S		S/S	YES	2	5.5	S/S
Hooded Warbler	<i>Setophaga citrina</i>	SC	YES	3	5.4	S/S		S/S	YES	2	5.2	S/S
Horned Lark	<i>Eremophila alpestris</i>	T	YES	3	5.2	T		SC	YES	3	5.1	SC
Kentucky Warbler	<i>Geothlypis formosa</i>	SC	YES	2	5.1	T		SC	YES	2	4.8	SC
Killdeer	<i>Charadrius vociferus</i>	S/S	YES	1	5.3	S/S		S/S	YES	1	5.7	S/S
Least Flycatcher	<i>Empidonax minimus</i>	SC	YES	2	5.5	SC		S/S	YES	1	5.2	S/S
Loggerhead Shrike	<i>Lanius ludovicianus</i>	NONE	YES	1	6.0	N/A		E	YES	4	5.4	N/A
Long-eared Owl	<i>Asio otus</i>	T	NO	--	--	--		T	NO	--	--	--
Louisiana Waterthrush	<i>Parkesia motacilla</i>	S/S	YES	2	5.4	S/S		S/S	YES	2	5.5	S/S
Magnolia Warbler	<i>Setophaga magnolia</i>	S/S	NO	--	--	--		S/S	Not reviewed for non-breeding status in this assessment			
Marsh Wren	<i>Cistothorus palustris</i>	S/S	NO	--	--	--		S/S	YES	3	5.1	S/S
Mississippi Kite	<i>Ictinia mississippiensis</i>	NONE	NO	--	--	--		S/S	YES	2	6.4	S/S
Nashville Warbler	<i>Oreothlypis ruficapilla</i>	SC	NO	--	--	--		S/S	YES	1	5.0	S/S
Nelson's Sparrow	<i>Ammodramus nelsoni</i>	NONE	YES	1	7.0	N/A		NONE	YES	4	4.6	S/S
Northern Bobwhite	<i>Colinus virginianus</i>	NONE	YES	2	6.2	E		NONE	YES	2	6.0	E
Northern Flicker	<i>Colaptes auratus</i>	S/S	YES	3	5.4	S/S		S/S	YES	1	5.8	S/S
Northern Goshawk	<i>Accipiter gentilis</i>	E	NO	--	--	--		SC	YES	3	5.0	S/S
Northern Harrier	<i>Circus cyaneus</i>	E	YES	2	6.8	E		SC	YES	2	5.4	SC

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Northern Parula	<i>Setophaga americana</i>	SC	YES	2	5.2	S/S		S/S	YES	1	5.9	S/S
Northern Saw-whet Owl	<i>Aegolius acadicus</i>	U/U	YES	2	4.6	U/U		S/S	YES	2	5.1	S/S
Northern Waterthrush	<i>Parkesia noveboracensis</i>	S/S	YES	3	5.0	S/S		S/S	Not reviewed for non-breeding status in this assessment			
Olive-sided Flycatcher	<i>Contopus cooperi</i>	NONE	YES	1	6.6	N/A		S/S	YES	4	5.0	SC
Osprey	<i>Pandion haliaetus</i>	T	YES	3	6.0	S/S		S/S	YES	1	6.6	S/S
Peregrine Falcon	<i>Falco peregrinus</i>	E	YES	4	5.3	T		SC	YES	4	4.9	S/S
Pileated Woodpecker	<i>Dryocopus pileatus</i>	S/S	YES	2	5.5	S/S		S/S	YES	2	5.5	S/S
Prairie Warbler	<i>Setophaga discolor</i>	S/S	YES	4	4.8	SC		S/S	YES	2	4.9	S/S
Prothonotary Warbler	<i>Protonotaria citrea</i>	S/S	YES	2	5.1	S/S		S/S	YES	2	5.5	S/S
Purple Finch	<i>Haemorhous purpureus</i>	S/S	YES	4	4.7	S/S		S/S	YES	1	5.0	S/S
Purple Martin	<i>Progne subis</i>	S/S	YES	3	5.2	SC		S/S	YES	2	5.3	S/S
Red-breasted Nuthatch	<i>Sitta canadensis</i>	S/S	YES	4	5.1	S/S		S/S	Not reviewed for non-breeding status in this assessment			
Red-cockaded Woodpecker*	<i>Picoides borealis*</i>	NONE	YES	1	7.9	N/A		NONE	YES	1	7.9	N/A
Red-headed Woodpecker	<i>Melanerpes erythrocephalus</i>	T	YES	2	5.5	T		T	YES	3	5.3	SC
Red-shouldered Hawk	<i>Buteo lineatus</i>	E	YES	3	5.5	E		SC	NO	--	--	--
Rose-breasted Grosbeak	<i>Pheucticus ludovicianus</i>	S/S	NO	--	--	--		S/S	YES	1	5.3	S/S
Ruffed Grouse	<i>Bonasa umbellus</i>	NONE	YES	3	5.4	T		NONE	YES	3	5.4	T
Rusty Blackbird	<i>Euphagus carolinus</i>	NONE	YES	1	6.8	N/A		S/S	YES	2	5.3	SC
Saltmarsh Sparrow	<i>Ammodramus caudacutus</i>	SC	YES	3	5.3	T		S/S	NO	--	--	--
Savannah Sparrow	<i>Passerculus sandwichensis</i>	T	YES	2	5.8	T		S/S	YES	2	5.1	S/S
Scarlet Tanager	<i>Piranga olivacea</i>	S/S	YES	1	5.6	S/S		S/S	YES	2	5.8	S/S
Seaside Sparrow	<i>Ammodramus maritimus</i>	S/S	YES	2	5.0	S/S		S/S	YES	1	5.1	S/S

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Sedge Wren	<i>Cistothorus platensis</i>	E	YES	2	6.0	E		E	YES	3	5.0	E
Sharp-shinned Hawk	<i>Accipiter striatus</i>	SC	YES	3	5.2	SC		SC	YES	3	5.4	S/S
Short-eared Owl	<i>Asio flammeus</i>	E	YES	4	5.0	E		SC	YES	3	5.5	SC
Summer Tanager	<i>Piranga rubra</i>	S/S	YES	1	5.0	S/S		S/S	YES	1	5.0	S/S
Swainson's Warbler	<i>Limnothlypis swainsonii</i>	NONE	YES	1	7.1	N/A		NONE	YES	2	7.0	N/A
Swamp Sparrow	<i>Melospiza georgiana</i>	S/S	YES	4	4.8	S/S		S/S	Not reviewed for non-breeding status in this assessment			
Upland Sandpiper	<i>Bartramia longicauda</i>	E	YES	2	6.7	E		E	NO	--	--	--
Veery	<i>Catharus fuscescens</i>	SC	YES	3	5.4	SC		S/S	YES	2	5.5	S/S
Vesper Sparrow	<i>Poocetes gramineus</i>	E	YES	2	5.8	E		SC	YES	2	5.6	SC
White-throated Sparrow	<i>Zonotrichia albicollis</i>	S/S	YES	2	5.7	N/A		S/S	YES	1	6.3	S/S
Willow Flycatcher	<i>Empidonax trailli</i>	S/S	YES	1	6.1	S/S		S/S	YES	1	5.9	S/S
Winter Wren	<i>Troglodytes hiemalis</i>	SC	YES	2	4.9	SC		S/S	YES	1	5.3	S/S
Wood Thrush	<i>Hylocichla mustelina</i>	SC	NO	--	--	--		S/S	YES	2	5.2	S/S
Worm-eating Warbler	<i>Helmitheros vermivorum</i>	SC	YES	2	5.5	S/S		S/S	YES	2	5.6	S/S
Yellow-bellied Flycatcher	<i>Empidonax flaviventris</i>	NONE	YES	1	6.7	N/A		S/S	YES	2	5.4	S/S
Yellow-bellied Sapsucker	<i>Sphyrapicus varius</i>	S/S	YES	3	5.7	S/S		S/S	YES	2	5.7	S/S
Yellow-billed Cuckoo	<i>Coccyzus americanus</i>	S/S	YES	2	5.5	S/S		S/S	YES	2	5.5	S/S
Yellow-breasted Chat	<i>Icteria virens</i>	SC	YES	2	5.3	SC		S/S	YES	2	5.2	S/S
Yellow-rumped Warbler	<i>Setophaga coronata</i>	S/S	YES	4	4.8	N/A		S/S	Not reviewed for non-breeding status in this assessment			
Yellow-throated Vireo	<i>Vireo flavifrons</i>	S/S	YES	1	5.9	S/S		S/S	YES	1	5.6	S/S

¹Status codes: E = Endangered, T = Threatened, SC = Special Concern, S/S = Secure/Stable, U/U = Undetermined/Unknown, N/A = Not Applicable

*Federally-listed species

TABLE 3. SPECIES STATUS REVIEW RESULTS – WATERBIRDS. WITH ENSAC AND DFW RECOMMENDATIONS (see Table 1 for scientific names).

Species Common Name	Current Status Breeding ¹	Breeding Consensus	Consensus Round	Confid Level	Review Results Status	ENSAC Recom Status	DFW Recom Status	Current Status Non-Breeding ¹	Non-Breeding Consensus	Consensus Round	Confid Level	Review Results Status	ENSAC Recom Status	DFW Recom Status
Black Rail	E	YES	1	6.3	E	E	E	T	YES	2	5.7	E	E	E
Black Skimmer	E	YES	1	7.2	E	E	E	E	YES	2	5.5	E	E	E
Least Tern	E	YES	1	7.2	E	E	E	E	YES	2	5.8	E	E	E
Piping Plover*	E	YES	1	7.4	E	E	E	E	YES	2	6.4	E	E	E
Roseate Tern*	E	YES	2	5.9	E	E	E	E	YES	2	5.9	E	E	E
American Bittern	E	YES	2	5.6	E	E	E	SC	YES	3	5.4	SC	SC	SC
Pied-billed Grebe	E	YES	2	5.3	E	E	E	SC	YES	4	5.3	SC	SC	SC
Black-crowned Night-Heron	T	YES	2	5.4	T	T	T	SC	YES	3	5.4	SC	SC	SC
Yellow-crowned Night-Heron	T	YES	2	5.6	T	T	T	T	YES	2	5.1	SC	SC	SC
Caspian Tern	SC	YES	4	5.0	SC	SC	SC	S/S	YES	2	5.5	S/S	S/S	S/S
Common Tern	SC	YES	2	5.6	SC	SC	SC	S/S	YES	2	5.6	S/S	S/S	S/S
Glossy Ibis	SC	YES	2	5.6	SC	SC	SC	S/S	YES	1	5.6	S/S	S/S	S/S
Snowy Egret	SC	YES	2	5.6	SC	SC	SC	S/S	YES	3	5.2	S/S	S/S	S/S
Spotted Sandpiper	SC	YES	2	5.2	SC	SC	SC	S/S	YES	1	4.8	S/S	S/S	S/S
American Oystercatcher	SC	YES	2	5.7	SC	SC	SC	SC	YES	4	5.3	SC	SC	SC
Least Bittern	SC	YES	4	5.3	SC	SC	SC	SC	YES	2	5.2	SC	SC	SC
Little Blue Heron	SC	YES	1	5.6	SC	SC	SC	SC	YES	3	5.0	SC	SC	SC
Tricolored Heron	SC	YES	2	5.6	SC	SC	SC	SC	YES	3	5.0	SC	SC	SC
Clapper Rail	NONE (r)	YES	3	5.3	SC	SC	No change	NONE	NO				No vote	No change
								Results: SC-8, S/S-6: Numbers naturally low in NJ winter.						
Common Gallinule	NONE (r)	YES	3	5.2	SC	SC	No change	NONE	NO				No vote	No change
								Results: SC-10, S/S-4: Majority suggests SC.						
Canada Goose	NONE (r)	YES	1	7.5	S/S	No vote	No change	NONE	YES	1	7.1	S/S	No vote	No change
Forster's Tern	S/S	YES	1	5.7	S/S	S/S	S/S	S/S	YES	2	5.8	S/S	S/S	S/S
Hooded Merganser	NONE (r)	YES	1	5.4	S/S	No vote	No change	NONE	YES	1	6.8	S/S	No vote	No change

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Laughing Gull	S/S	YES	3	5.3	S/S	S/S	S/S	S/S	YES	2	6.2	S/S	S/S	S/S
Willet	S/S	YES	4	5.0	S/S	S/S	S/S	S/S	YES	2	5.3	S/S	S/S	S/S
Wood Duck	NONE (r)	YES	1	6.1	S/S	No vote	No change	NONE	YES	1	6.3	S/S	No vote	No change
Red Knot*	NONE	YES	1	7.9	N/A	N/A	N/A	E	YES	3	5.5	E	E	E
Bridled Tern	NONE	YES	1	7.6	N/A	N/A	N/A	NONE	YES	3	6.2	N/A	N/A	N/A
Wilson’s Phalarope	NONE	YES	1	7.4	N/A	N/A	N/A	S/S	YES	4	6.0	N/A	N/A	N/A
American Golden-Plover	NONE	YES	1	7.8	N/A	N/A	N/A	S/S	YES	3	5.1	S/S	S/S	S/S
Atlantic Brant	NONE (r)	YES	1	7.7	N/A	N/A	N/A	NONE	YES	2	5.5	S/S		
Audubon’s Shearwater	NONE	YES	1	7.6	N/A	N/A	N/A	NONE	YES	3	5.1	S/S	S/S	S/S
Black Scoter	NONE (r)	YES	1	7.5	N/A	N/A	N/A	NONE	YES	1	5.9	S/S		
Black Tern	NONE	YES	1	7.8	N/A	N/A	N/A	NONE	YES	3	5.3	S/S	S/S	S/S
Black-bellied Plover	NONE	YES	1	7.8	N/A	N/A	N/A	S/S	YES	1	5.8	S/S	S/S	S/S
Bufflehead	NONE (r)	YES	1	7.4	N/A	N/A	N/A	NONE	YES	1	6.7	S/S		
Common Eider	NONE (r)	YES	2	7.0	N/A	N/A	N/A	NONE	YES	1	5.1	S/S		
Common Loon	NONE	YES	1	7.7	N/A	N/A	N/A	S/S	YES	1	6.3	S/S		
Dunlin	NONE	YES	1	7.9	N/A	N/A	N/A	S/S	YES	1	5.8	S/S	S/S	S/S
Great Shearwater	NONE	YES	1	7.8	N/A	N/A	N/A	S/S	YES	2	5.3	S/S	S/S	S/S
Greater Scaup	NONE (r)	YES	1	7.9	N/A	N/A	N/A	NONE	YES	3	5.3	S/S		
Greater Yellowlegs	NONE	YES	1	7.6	N/A	N/A	N/A	S/S	YES	1	5.4	S/S	S/S	S/S
Horned Grebe	NONE	YES	1	7.4	N/A	N/A	N/A	S/S	YES	3	4.9	S/S	S/S	S/S
Least Sandpiper	NONE	YES	1	7.5	N/A	N/A	N/A	S/S	YES	1	5.0	S/S	S/S	S/S
Lesser Scaup	NONE (r)	YES	1	7.9	N/A	N/A	N/A	NONE	YES	1	5.4	S/S		
Lesser Yellowlegs	NONE	YES	1	7.6	N/A	N/A	N/A	S/S	YES	2	4.9	S/S	S/S	S/S
Long-tailed Duck	NONE (r)	YES	1	7.5	N/A	N/A	N/A	NONE	YES	1	5.5	S/S		
Manx Shearwater	NONE	YES	1	7.6	N/A	N/A	N/A	NONE	YES	2	5.2	S/S	S/S	S/S
Marbled Godwit	NONE	YES	1	7.6	N/A	N/A	N/A	S/S	YES	1	5.7	S/S	S/S	S/S
Northern Gannet	NONE	YES	1	8.0	N/A	N/A	N/A	S/S	YES	1	6.1	S/S	S/S	S/S
Northern Pintail	NONE (r)	YES	2	6.7	N/A	N/A	N/A	NONE	YES	1	5.6	S/S		
Purple Sandpiper	NONE	YES	1	7.9	N/A	N/A	N/A	S/S	YES	2	5.5	S/S	S/S	S/S
Razorbill	NONE	YES	1	7.6	N/A	N/A	N/A	S/S	YES	2	4.7	S/S	S/S	S/S
Red-throated Loon	NONE	YES	1	7.8	N/A	N/A	N/A	S/S	YES	1	5.6	S/S	S/S	S/S

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Short-billed Dowitcher	NONE	YES	1	7.7	N/A	N/A	N/A	S/S	YES	2	5.2	S/S	S/S	S/S	
Solitary Sandpiper	NONE	YES	1	7.5	N/A	N/A	N/A	S/S	YES	2	4.8	S/S	S/S	S/S	
Surf Scoter	NONE (r)	YES	1	7.6	N/A	N/A	N/A	NONE	YES	1	5.6	S/S			
Whimbrel	NONE	YES	1	7.5	N/A	N/A	N/A	SC	YES	3	5.2	S/S	S/S	S/S	
White-rumped Sandpiper	NONE	YES	1	7.9	N/A	N/A	N/A	S/S	YES	2	5.4	S/S	S/S	S/S	
White-winged Scoter	NONE (r)	YES	1	7.4	N/A	N/A	N/A	NONE	YES	2	5.0	S/S			
Ruddy Turnstone	NONE	YES	1	7.9	N/A	N/A	N/A	S/S	YES	4	5.3	SC	SC	SC	
Semipalmated Sandpiper	NONE	YES	1	7.6	N/A	N/A	N/A	SC	YES	3	5.4	SC	SC	SC	
Brown Pelican	NONE	NR						S/S	YES	3	5.0	S/S	S/S	S/S	
Canvasback	NONE (r)	YES	1	7.9	N/A	No vote	No change	NONE	NO				No vote	No change	
								Results: SC-4, S/S-9. TN agrees with S/S vote.							
Hudsonian Godwit	NONE	YES	1	7.6	N/A	N/A	N/A	S/S	NO				S/S	S/S	
								Results: S/S-4, U/U-2, N/A-8: Species occurs w/enough regularity; no evidence to change status.							
King Eider	NONE (r)	YES	1	7.5	N/A	No vote	No change	NONE	NO				No vote	No change	
								Results: S/S-4, U/U-1, N/A-9							
Sanderling	NONE	YES	1	7.9	N/A	N/A	N/A	SC	NO				SC	SC	
								Results: SC-6, S/S-8. Although a slight majority voted S/S, there is not enough evidence to change this from SC, given multiple threats to migrant shorebirds.							
Sandwich Tern	NONE	YES	2	5.8	N/A	N/A	N/A	NONE	NO				S/S	S/S	
								Results: S/S-10, N/A-2							
American Black Duck	NONE (r)	NO				No vote	No change	NONE	YES	1	5.5	S/S	No vote	No change	
	Results: SC-11, S/S-3. Canada is core-range for BLDU. NJ has ~5000 pairs. TN rec=S/S														
American Coot	NONE (r)	NO				No vote	No change	NONE	YES	2	5.0	S/S	No vote	No change	
	Results: SC-11, S/S-3. This species is range-edge and was never abundant. TN rec=S/S														
Great Blue Heron	SC	NO				SC	SC	S/S	YES	1	6.3	S/S	S/S	S/S	
Royal Tern	NONE	NO				S/S	S/S	S/S	YES	2	5.8	S/S	S/S	S/S	
	Results: SC-7, S/S-5, 1-U/U, 1-N/A: Range-edge, ENSP ~S/S.														
Ruddy Duck	NONE (r)	NO				No vote	No change	NONE	YES	1	5.9	S/S	No vote	No change	
	Results: SC-10, S/S-3, U/U-1. Range-edge species in NJ; DFW rec=S/S														

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Sora	NONE (r)	NO				No vote	No change	NONE	YES	4	5.0	S/S	No vote	No change
	Results: T-1, SC-6, S/S-7: Concerns for FW habitat threats, however, overall pop is increasing, and NJ is range-edge.													
Virginia Rail	NONE (r)	NO				No vote	No change	NONE	YES	2	4.7	S/S	No vote	No change
	Results: SC-6, S/S-8: Majority says S/S. DFW rec=S/S because it is range-edge.													
Gull-billed Tern	SC	NO				SC	SC	SC	YES	4	5.4	SC	SC	SC
	Results: SC-10, T-4: While we acknowledge the concern to make them T, the data ENSP has doesn't justify T, despite low numbers statewide (relatively stable, not declining). Concerns about habitat (loss, flooding, SLR) and SC are justified.													
King Rail	NONE (r)	NO				E	E	NONE	YES	3	4.6	U/U	U/U	U/U
	Results: E-10, S/S-1, U/U-3. Majority suggests E; anecdotal data suggests there is a steep decline (hard data lacking). This is a game species with a closed season.													
Cattle Egret	T	NO				SC	SC	SC	NO				S/S	S/S
	Results: SC-8, S/S-5, U/U-1: Majority suggests SC and ENSP agrees this is appropriate.							Results: SC-7, S/S-7: Little activity in NJ for non-breeding pop.						
Green Heron	S/S	NO				SC	SC	S/S	NO				S/S	S/S
	Results: SC-8, S/S-5, U/U - 1: ENSP does not have much data but habitat changes suggest SC is warranted.							Results: S/S-10, N/O-2, N/A-2: Very near consensus here, rec keeping it as S/S.						

¹Status Codes: E=Endangered, T=Threatened, SC=Special Concern, S/S=Secure/Stable, U/U=Undetermined/Unknown, N/A=Not Applicable

NR=Not Reviewed

*Federally-listed Species

NONE (r)=other regs apply

Species name in Red Text = Reviewed in a 5th round under revised Threatened definition

TABLE 4. SPECIES STATUS REVIEW RESULTS - LAND BIRDS, WTH ENSAC AND DFW RECOMMENDATIONS (see Table 2 for scientific names).														
Species Common Name	Current Status Breeding ¹	Breeding Consensus	Consensus Round	Conf Level	Review Results Status	ENSAC Recom Status	DFW Recom Status	Current Status Non-Breeding ¹	Non-Breeding Consensus	Consensus Round	Conf Level	Review Results Status	ENSAC Recom Status	DFW Recom Status
Golden-winged Warbler	E	YES	1	6.6	E	E	E	SC	YES	3	5.4	E	E	E
Henslow's Sparrow	E	YES	2	6.3	E	E	E	E	YES	3	5.1	E	E	E
Northern Bobwhite	NONE (r)	YES	2	6.2	E	No change	None/Closed Season	NONE	YES	2	6.0	E	No change	None/Closed Season
Sedge Wren	E	YES	2	6.0	E	E	E	E	YES	3	5.0	E	E	E
Northern Harrier	E	YES	2	6.8	E	E	E	SC	YES	2	5.4	SC	SC	SC
Short-eared Owl	E	YES	4	5.0	E	E	E	SC	YES	3	5.5	SC	SC	SC
Vesper Sparrow	E	YES	2	5.8	E	E	E	SC	YES	2	5.6	SC	SC	SC
Red-shouldered Hawk	E	YES	3	5.5	E	E	E	SC	NO				SC	SC
								Results: SC-7, S/S-7: There is some improvement in the NJ pop, but many breeders are year-round residents and, as End, should remain as SC in NB.						
Upland Sandpiper	E	YES	2	6.7	E	E	E	E	NO				E	E
								Results: E-11, SC-3: E is the majority vote & current status, overall pop numbers are low and declining, and the habitat is ephemeral.						
Peregrine Falcon	E	YES	4	5.3	T	T	T	SC	YES	4	4.9	S/S	S/S	S/S
Savannah Sparrow	T	YES	2	5.8	T	T	T	S/S	YES	2	5.1	S/S	S/S	S/S
Barn Owl	SC	YES	2	5.3	T	T	T	SC	YES	3	5.4	SC	SC	SC
Bobolink	T	YES	2	5.4	T	T	T	SC	YES	4	5.1	SC	SC	SC
Eastern Meadowlark	SC	YES	3	5.2	T	T	T	SC	YES	2	5.2	SC	SC	SC
Grasshopper Sparrow	T	YES	1	4.8	T	T	T	SC	YES	3	5.3	SC	SC	SC
Horned Lark	T	YES	3	5.2	T	T	T	SC	YES	3	5.1	SC	SC	SC
Kentucky Warbler	SC	YES	2	5.1	T	T	T	SC	YES	2	4.8	SC	SC	SC
Red-headed Woodpecker	T	YES	2	5.5	T	T	T	T	YES	3	5.3	SC	SC	SC
American Kestrel	T	YES	1	6.0	T	T	T	T	YES	3	5.6	T	T	T
Ruffed Grouse	NONE (r)	YES	3	5.4	T	T	None/Closed Season	NONE	YES	3	5.4	T	T	None/Closed Season

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Saltmarsh Sparrow	SC	YES	3	5.3	T	T	T	S/S	NO				SC	SC
								Results: T-2, SC-11, S/S-1: SC was majority vote (& based on R4 comments, 1 T vote actually suggested SC, which would mean consensus).						
								Results Round 5: T-5, SC-12						
Bank Swallow	S/S	YES	4	4.9	SC	SC	SC	S/S	YES	3	5.0	S/S	S/S	S/S
Blackburnian Warbler	SC	YES	3	5.1	SC	SC	SC	S/S	YES	1	5.3	S/S	S/S	S/S
Black-throated Blue Warbler	SC	YES	4	4.9	SC	SC	SC	S/S	YES	1	5.4	S/S	S/S	S/S
Black-throated Green Warbler	SC	YES	3	5.5	SC	SC	SC	S/S	YES	2	5.4	S/S	S/S	S/S
Broad-winged Hawk	SC	YES	2	5.1	SC	SC	SC	S/S	YES	2	4.5	S/S	S/S	S/S
Brown Thrasher	SC	YES	2	5.6	SC	SC	SC	S/S	YES	3	5.2	S/S	S/S	S/S
Chimney Swift	S/S	YES	3	5.0	SC	SC	SC	S/S	YES	3	4.7	S/S	S/S	S/S
Cliff Swallow	SC	YES	3	5.3	SC	SC	SC	S/S	YES	2	5.5	S/S	S/S	S/S
Common Nighthawk	SC	YES	2	5.4	SC	SC	SC	SC	YES	4	4.8	S/S	S/S	S/S
Field Sparrow	S/S	YES	4	4.8	SC	SC	SC	S/S	YES	1	5.2	S/S	S/S	S/S
Least Flycatcher	SC	YES	2	5.5	SC	SC	SC	S/S	YES	1	5.2	S/S	S/S	S/S
Prairie Warbler	S/S	YES	4	4.8	SC	SC	SC	S/S	YES	2	4.9	S/S	S/S	S/S
Purple Martin	S/S	YES	3	5.2	SC	SC	SC	S/S	YES	2	5.3	S/S	S/S	S/S
Sharp-shinned Hawk	SC	YES	3	5.2	SC	SC	SC	SC	YES	3	5.4	S/S	S/S	S/S
Veery	SC	YES	3	5.4	SC	SC	SC	S/S	YES	2	5.5	S/S	S/S	S/S
Winter Wren	SC	YES	2	4.9	SC	SC	SC	S/S	YES	1	5.3	S/S	S/S	S/S
Yellow-breasted Chat	SC	YES	2	5.3	SC	SC	SC	S/S	YES	2	5.2	S/S	S/S	S/S
Cerulean Warbler	SC	YES	2	5.1	SC	SC	SC	SC	YES	3	5.3	SC	SC	SC
Black-billed Cuckoo	SC	YES	2	5.4	SC	SC	SC	S/S	NO				SC	SC
								Results: SC-4, S/S-10: Rec SC because declines and threats for breeding pops in NJ and areas north are similar and include threats during non-breeding. NJ has some responsibility for non-breeding pops.						
Canada Warbler	SC	YES	1	5.3	SC	SC	SC	S/S	NO				SC	SC
								Results: SC-5, S/S-9: Rec SC for steep regional pop declines, esp in areas north of NJ; 62% of US pop already lost, and we know species stops over in NJ.						
Eastern Whip-poor-will	SC	YES	2	5.2	SC	SC	SC	S/S	NO				SC	SC
								Results: SC-3, S/S-2, U-9: Rec SC because it's difficult to detect and lacking data abt migration; pop has mod-high threats in NB season and is declining north of NJ.						

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Acadian Flycatcher	S/S	YES	1	5.7	S/S	S/S	S/S	S/S	YES	2	5.6	S/S	S/S	S/S
American Woodcock	NONE (r)	YES	2	5.2	S/S	S/S	No change	NONE	YES	1	5.3	S/S	S/S	No change
Baltimore Oriole	S/S	YES	1	5.4	S/S	S/S	S/S	S/S	YES	1	5.5	S/S	S/S	S/S
Belted Kingfisher	S/S	YES	1	5.4	S/S	S/S	S/S	S/S	YES	1	6.0	S/S	S/S	S/S
Black-and-white-Warbler	S/S	YES	1	5.3	S/S	S/S	S/S	S/S	YES	1	5.7	S/S	S/S	S/S
Blue-headed Vireo	SC	YES	3	4.9	S/S	S/S	S/S	S/S	YES	1	5.8	S/S	S/S	S/S
Brown Creeper	S/S	YES	4	4.8	S/S	S/S	S/S	S/S	YES	2	5.5	S/S	S/S	S/S
Chuck-will's-widow	S/S	YES	3	5.2	S/S	S/S	S/S	S/S	YES	4	4.7	S/S	S/S	S/S
Common Raven	S/S	YES	2	5.4	S/S	S/S	S/S	S/S	YES	2	5.6	S/S	S/S	S/S
Cooper's Hawk	SC	YES	1	5.8	S/S	S/S	S/S	S/S	YES	1	6.4	S/S	S/S	S/S
Eastern Kingbird	S/S	YES	3	5.3	S/S	S/S	S/S	S/S	YES	1	5.8	S/S	S/S	S/S
Eastern Towhee	S/S	YES	3	5.0	S/S	S/S	S/S	S/S	YES	1	5.6	S/S	S/S	S/S
Eastern Wood-Pewee	S/S	YES	1	6.1	S/S	S/S	S/S	S/S	YES	1	6.0	S/S	S/S	S/S
Golden-crowned Kinglet	S/S	YES	4	4.9	S/S	S/S	S/S	S/S	YES	2	5.6	S/S	S/S	S/S
Gray Catbird	S/S	YES	1	6.9	S/S	S/S	S/S	S/S	YES	1	7.1	S/S	S/S	S/S
Great Crested Flycatcher	S/S	YES	1	6.6	S/S	S/S	S/S	S/S	YES	1	6.5	S/S	S/S	S/S
Hermit Thrush	S/S	YES	4	4.6	S/S	S/S	S/S	S/S	YES	2	5.5	S/S	S/S	S/S
Hooded Warbler	SC	YES	3	5.4	S/S	S/S	S/S	S/S	YES	2	5.2	S/S	S/S	S/S
Killdeer	S/S	YES	1	5.3	S/S	S/S	S/S	S/S	YES	1	5.7	S/S	S/S	S/S
Louisiana Waterthrush	S/S	YES	2	5.4	S/S	S/S	S/S	S/S	YES	2	5.5	S/S	S/S	S/S
Northern Flicker	S/S	YES	3	5.4	S/S	S/S	S/S	S/S	YES	1	5.8	S/S	S/S	S/S
Northern Parula	SC	YES	2	5.2	S/S	S/S	S/S	S/S	YES	1	5.9	S/S	S/S	S/S
Osprey	T	YES	3	6.0	S/S	S/S	S/S	S/S	YES	1	6.6	S/S	S/S	S/S
Pileated Woodpecker	S/S	YES	2	5.5	S/S	S/S	S/S	S/S	YES	2	5.5	S/S	S/S	S/S
Prothonotary Warbler	S/S	YES	2	5.1	S/S	S/S	S/S	S/S	YES	2	5.5	S/S	S/S	S/S
Purple Finch	S/S	YES	4	4.7	S/S	S/S	S/S	S/S	YES	1	5.0	S/S	S/S	S/S
Scarlet Tanager	S/S	YES	1	5.6	S/S	S/S	S/S	S/S	YES	2	5.8	S/S	S/S	S/S
Seaside Sparrow	S/S	YES	2	5.0	S/S	S/S	S/S	S/S	YES	1	5.1	S/S	S/S	S/S
Summer Tanager	S/S	YES	1	5.0	S/S	S/S	S/S	S/S	YES	1	5.0	S/S	S/S	S/S
Willow Flycatcher	S/S	YES	1	6.1	S/S	S/S	S/S	S/S	YES	1	5.9	S/S	S/S	S/S
Worm-eating Warbler	SC	YES	2	5.5	S/S	S/S	S/S	S/S	YES	2	5.6	S/S	S/S	S/S

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Yellow-bellied Sapsucker	S/S	YES	3	5.7	S/S	S/S	S/S	S/S	YES	2	5.7	S/S	S/S	S/S		
Yellow-billed Cuckoo	S/S	YES	2	5.5	S/S	S/S	S/S	S/S	YES	2	5.5	S/S	S/S	S/S		
Yellow-throated Vireo	S/S	YES	1	5.9	S/S	S/S	S/S	S/S	YES	1	5.6	S/S	S/S	S/S		
Northern Waterthrush	S/S	YES	3	5.0	S/S	S/S	S/S	S/S	Not Reviewed				S/S	S/S		
Red-breasted Nuthatch	S/S	YES	4	5.1	S/S	S/S	S/S	S/S	Not Reviewed				S/S	S/S		
Swamp Sparrow	S/S	YES	4	4.8	S/S	S/S	S/S	S/S	Not Reviewed				S/S	S/S		
Northern Saw-whet Owl	U/U	YES	2	4.6	U/U	U/U	U/U	S/S	YES	2	5.1	S/S	S/S	S/S		
Loggerhead Shrike	NONE	YES	1	6.0	N/A	N/A	N/A	E	YES	4	5.4	N/A	E	E		
								Results: E-2, N/A-12: Rec leaving at E. We consulted Amy Chabot (expert in Canada) who confirms populations in MA thru DE and migrants that use the Atlantic coast. Regional pop recovery must include habitats for migrants.								
Red-cockaded Woodpecker*	NONE	YES	1	7.9	N/A	N/A	N/A	NONE	YES	1	7.9	N/A	N/A	N/A		
Swainson's Warbler	NONE	YES	1	7.1	N/A	N/A	N/A	NONE	YES	2	7.0	N/A	N/A	N/A		
Bay-breasted Warbler	NONE	YES	2	7.1	N/A	N/A	N/A	S/S	YES	1	5.2	S/S	S/S	S/S		
Dickcissel	NONE	YES	4	5.1	N/A	N/A	N/A	S/S	YES	3	5.5	S/S	S/S	S/S		
Gray-checked Thrush	NONE	YES	1	7.8	N/A	N/A	N/A	S/S	YES	3	4.9	S/S	S/S	S/S		
Nelson's Sparrow	NONE	YES	1	7.0	N/A	N/A	N/A	NONE	YES	4	4.6	S/S	S/S	S/S		
White-throated Sparrow	S/S	YES	2	5.7	N/A	N/A	N/A	S/S	YES	1	6.3	S/S	S/S	S/S		
Yellow-bellied Flycatcher	NONE	YES	1	6.7	N/A	N/A	N/A	S/S	YES	2	5.4	S/S	S/S	S/S		
Olive-sided Flycatcher	NONE	YES	1	6.6	N/A	N/A	N/A	S/S	YES	4	5.0	SC	SC	SC		
Rusty Blackbird	NONE	YES	1	6.8	N/A	N/A	N/A	S/S	YES	2	5.3	SC	SC	SC		
Bicknell's Thrush	NONE	YES	1	7.2	N/A	N/A	N/A	NONE	NO				SC	SC		
								Results: SC-4, S/S-1, U/U-9: SC because limited breeding pop north of NJ with severe declines and known to migrate through NJ. This species is difficult to detect, but many are working on BITH for more information if necessary.								
Dark-eyed Junco	S/S	YES	4	5.4	N/A	N/A	N/A	S/S	Not Reviewed							
Yellow-rumped Warbler	S/S	YES	4	4.8	N/A	N/A	N/A	S/S	Not Reviewed							
Bald Eagle	E	NO					T	T	YES	3	5.8	S/S	S/S	S/S		
	Results: T-10, SC-4: Population numbers in NJ and regionally are increasing and does not appear to be in danger of severe decline, but there is reason to be concerned about nest disturbance and contaminants. REC= Move from E to T only. Eagle is delisted in															

	PA, DE, MD, ME where they rely on federal-level protection; still listed as T in NY, CT, and as E in VT.													
	Results Round 5: T-9, SC-7, S-1													
Blue-winged Warbler	S/S	NO				SC	SC	S/S	YES	2	5.3	S/S	S/S	S/S
	Results: SC-6, S/S-8: SC because the breeding population is declining, esp. in the mid-Atlantic region, and is a bit erratic in northern NJ. The population faces diminished recruitment and productivity on the breeding grounds and reduced survivorship of young and adults (per IBP). Even though the species is still rather common in northern NJ, the declines and threats are a cause for concern and we should track this species.													
Golden Eagle	NONE	Not Reviewed						S/S	YES	4	4.9	S/S	S/S	S/S
Marsh Wren	S/S	NO				S/S	S/S	S/S	YES	3	5.1	S/S	S/S	S/S
	Results: SC-5, S/S-9: S/S because the overall population is increasing in and around NJ.													
Mississippi Kite	NONE	NO				S/S	S/S	S/S	YES	2	6.4	S/S	S/S	S/S
	Results: S/S-3, N/A-11: Species nested in 1 known location in 2016 and 2017, so it DOES occur and has a habit of new/isolated occupations that are outside general range.													
Nashville Warbler	SC	NO				SC	S/S	S/S	YES	1	5.0	S/S	S/S	S/S
	Results: SC-5, S/S-8, U/U-1: S/S because the breeding population is increasing in the East and there is no data to suggest that it's declining in NJ.													
Northern Goshawk	E	NO				E	E	SC	YES	3	5.0	S/S	S/S	S/S
	Results: E-11, T-3: This species may be peripheral in NJ but appears to be stable at a low level. There is no evidence (of numbers or habitat stability) to change from E.													
	Results Round 5: E-13, T-4													
Rose-breasted Grosbeak	S/S	NO				S/S	S/S	S/S	YES	1	5.3	S/S	S/S	S/S
	Results: SC-3, S/S-11: Despite near-majority for S/S, SP suggests SC because the population is declining (since 1966 and 2005 in BBS) and deserves to be tracked.													
Wood Thrush	SC	NO				SC	SC	S/S	YES	2	5.2	S/S	S/S	S/S
	Results: SC-7, S/S-7: Current status is SC and the population continues to decline with known threats to breeding (and post-breeding) habitat.													
Barred Owl	T	NO				T	T	T	NO				T	T

	Results: T-8, SC-6: Rec leaving at T because it requires large areas of mostly unbroken forest, and there is a lack of management authority over sufficient habitat to secure viable pops.							Results: T-8, SC-6: The breeding pop is year-round resident, so recommend leaving at T for same reasons as br-pop.						
	Results Round 5: T-10, SC-7							Results: T-10, SC-7						
Long-eared Owl	T	NO				T	T	T	NO				T	T
	Results: T-9, U/U-5: There is no data to suggest changing the status at this time.							Results: T-9, U/U-5: There is no data to suggest changing the status at this time.						
	Results Round 5: T-11, SC-2, U/U-4							Results Round 5: T-14, SC-1, U/U-2 (82% for T)						
Magnolia Warbler	S/S	NO				S/S	S/S	S/S	Not Reviewed					
	Results: SC-1, S/S-7, N/A-6: S/S because it is currently S/S and not showing declines. Insufficient data about the NJ breeding population (or lack thereof) to change to N/A.													

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NR=Not Reviewed in this Delphi

*Federally-listed Species

NONE (r)=other regs apply

Species name in Red Text=Reviewed in 5th round under revised T definition

ENSAC recommendations at April 2018 meeting (nongame) & Nov 2018 meeting (5 "game" species)