Species Status Assessment

Family:	Scolopacidae		
Scientific Name:	Limnodromus	griseus	
Common Name:	Short-billed do	owitcher	
Species Code:	68		
Species synopsis:			
Three subspecies o Coast, <i>L. griseus</i> on breeds in northern hendersoni have als York, available on t large national wildl The U.S. Shorebird declines in short-bi	f short-billed dowi the Atlantic Coast, Canada and occurs to been taken in Ne he Coastal Lowland ife refuges, Montes Conservation Plan lled dowitcher pop	tcher breed in North A and <i>L. hendersoni</i> in ces in New York during mew York. Exposed mudfeds of Long Island and a zuma and Iroquois. and the International Soulations since the mid	gnated as separate species in 1950. merica: <i>L. caurinus</i> occurs on the Pacific ntral Canada. The nominate <i>griseus</i> sigration, although a few specimens of lats are used as stopover points in New long the Great Lakes, as well as the Shorebird Survey note significant -1970s. Declines are attributed to Trends in New York are not available.
I. Status			
a. Cur	rent and Legal Pr	otected Status	
i.	Federal	Not Listed	Candidate? _Yes
ii.	New York	SGCN	
b. Nat	ural Heritage Pro	gram Rank	
i.	Global	<u>G5</u>	
ii.	New York	SNRN	Tracked by NYNHP? No

Other Rank:

Class:

Birds

U.S. Shorebird Conservation Plan: Species of High Concern IUCN Red List Category: LC - Least Concern

Status Discussion:

Short-billed dowitcher is a common to abundant migrant on coastal areas of New York during spring and fall. During spring migration, it is uncommon inland.

II. Abundance and Distribution Trends

a.	North America		
	i. Abundance		
	X decliningincreasing	stable	unknown
	ii. Distribution:		
	decliningincreasing Time frame considered:Since 1970s		
b.	Regional		
	i. Abundance		
	X decliningincreasing	stable	unknown
	ii. Distribution:		
	decliningincreasing	<u>X</u> stable	unknown
	Regional Unit Considered:Atlantic Coa	ast	
	Time Frame Considered:Since 1970		

c. Adjacent States and Prov

CONNECTICUT	Not Present		No data
i. Abundance			
declining _	increasing	stable	_X_ unknown
ii. Distribution:			
declining	increasing	stable	_X_ unknown
Time frame considered: _			
Listing Status:	Not Listed		SGCN? <u>No</u>
MASSACHUSETTS	Not Present		No data
i. Abundance			
X_declining _	increasing	stable	unknown
ii. Distribution:			
declining	increasing	X_ stable	unknown
Time frame considered: _			
Listing Status:	Not Listed		SGCN? <u>Yes</u>
NEW JERSEY	Not Present		No data
i. Abundance			
X_declining _	increasing	stable	unknown
ii. Distribution:			
declining	increasing	<u>X</u> stable	unknown
Time frame considered: _	1995-97		
Listing Status:	Not Listed		SGCN? No

ONTARIO	Not Present		No data
i. Abundance decliningii. Distribution:	increasing	stable	<u>X</u> unknown
declining	X_ increasing	stable	unknown
	d: <u>1981-85 to 2001</u> Not Listed		
PENNSYLVANIA	Not Present		No data
i. Abundance decliningii. Distribution:	increasing	stable	<u>X</u> unknown
	increasing	stable	_X_ unknown
	d: Not Listed		
QUEBEC	Not Present		No data
i. Abundance decliningii. Distribution:	increasing	stable	<u>X</u> unknown
	increasing		
Time frame considere Listing Status:	d: Not Listed		

	VERMONT	Not Prese	ent	No data <u>X</u>	
	i. Abundance				
	declining _	increasing	stable	X_ unknown	
	ii. Distribution:				
	declining _	increasing	stable	X unknown	
	Time frame considered: Listing Status:				
d.	NEW YORK			No data <u>X</u>	
	i. Abundance				
	declining _	increasing	stable	X unknown	
	ii. Distribution:				
	declining _	increasing	stable	X_ unknown	
	Time frame considered:				

Monitoring in New York.

None.

Trends Discussion:

From Jehl et al. (2001): Dowitchers were hunted almost to extinction during the 1800s, but legal protection allowed populations to rebound and they were again common during the 1950s and 1960s. However, there are indications that this trend has been reversed, and that the species (at least on the East Coast) is perhaps only about half as common as several decades ago. International Shorebird Survey results from 1972 to 1983 indicated decline of 5.5%/yr, 46% overall (Howe et al. 1989). Similar rates continued through 1995–1997 at 6 sites in Massachusetts and Brigantine, NJ. Data from Maritimes (e. Canada) Shorebird Survey, 1974–1991 (Morrison et al. 1994), indicate significant decline, the rate dependent on type of analysis.

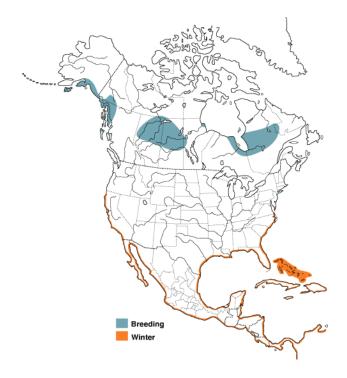


Figure 1. Range of the short-billed dowitcher in North America (Birds of North America Online).

III.	New York Rarity, if known	:		
	Historic	# of Animals	# of Locations	% of State
	prior to 1970 prior to 1980 prior to 1990			
	Details of historic occurren	nce:		
	Maximum counts summarize Refuge.	ed in Sherony (1998)	: 8,000 in May 1939 at Ja	nmaica Bay Wildlife
	Current	# of Animals	# of Locations	% of State
	Details of current occurren	 1ce:		
	Maximum counts summarize County.	ed in Sherony (1998)	: 3,500 in July 1992 at Li	ne Islands, Nassau
New Y	York's Contribution to Specie	es North American F	Range:	
	% of NA Range in N	ew York	Classification of N	ew York Range
	<u>X</u> 0-5%		Core	
	6-10%		Peripheral	
	11-25%		XDisjunct	
	26-50%		Distance to core p	opulation:
	>50%			
IV.	Primary Habitat or Comm	unity Type:		
	1. Estuarine, Brackish Interti	idal, Tidal Wetland		
	2. Maritime Intertidal Gravel	/Sand Beach		

3. Estuarine, Brackish Intertidal, Benthic Geo	morphology, Ti	dal Flat	t	
Habitat or Community Type Trend in New York:				
Declining Stable	Increasi	ng	U	nknown
Time frame of decline/increase:				
Habitat Specialist?	Yes	<u>X</u>	. No	
Indicator Species?	Yes	_X_	No	
Habitat Discussion: During migration short-billed dowitcher prefers salt prefers freshwater ponds and marshes. During migratidal flats, beaches, salt marshes, sewage ponds, and	ation, short-bill	ed dow	itchers a	are common on
V. New York Species Demographics and Life	History			
Breeder in New York				
Summer Resident				
Winter Resident				
Anadromous				
Non-breeder in New York				
Summer Resident				
Winter Resident				
Catadromous				
X Migratory only				
Unknown				

Species Demographics and Life History Discussion:

Knowledge of the life history of short-billed dowitcher is limited because of its insect-rich muskeg breeding habitat, the difficulty in locating nests, and its history of being lumped with similar-looking long-billed dowitcher.

Age at first breeding is not known, probably 1–2 yr. First-year short-billed dowitchers frequently summer in small numbers south of breeding grounds. One brood is normally raised per season. Longest documented life span 13 yr 3 mo (Klimkiewicz and Futcher 1989). By analogy to other similarly sized shorebirds, maximum expected about 20 yr (Marks et al. 1990). No data on survivorship. Predation by raptors apparently the major cause of death during migration and winter.

Presumably susceptible to avian botulism (Type C), as 4 sick dowitchers (spp.) seen during outbreak at Delta Marsh, Manitoba in 1964 (Manuwal 1967).

VI. Threats:

Migrant shorebirds are susceptible to the effects of oil spills and to habitat loss from development of coastal areas. Climate change could alter availability of exposed mudflats in coastal areas.

Short-billed dowitcher is one of the six species that make up 95% of migrating birds feeding on horseshoe crab eggs at Delaware Bay in the spring. Numbers there have declined in response to reduced availability of this rich food resource.

Global warming may have especially strong impacts on this species. Anticipated climate change will be greatest at polar and temperate latitudes, where short-billed dowitcher breed and winter. All known major migration staging sites, and most of the major wintering range, are on temperate coastlines of both the New and Old World, where sea level change is predicted to be greatest.

In March 2006, Global Forest Watch Canada reported that the boreal breeding grounds of the short-billed dowitcher have been seriously degraded and fragmented in areas where energy and logging companies have commercial access (Audubon website).

A	\re	there	regu	latory	mech	anisms	s that	protect	t the s	pecies	or its	habita	t in No	ew Y	ork?

No	Unknown
<u>X</u> Yes	

Short-billed dowitcher is protected under the Migratory Bird Treaty Act. Two inland areas where migrants congregate are national wildlife refuges.

Describe knowledge of management/conservation actions that are needed for recovery/conservation, or to eliminate, minimize, or compensate for the identified threats:

Protection of coastal habitat. Reduction of recreational disturbance at beach habitats. Conservation actions following IUCN taxonomy are categorized in the table below.

Conservation Actions				
Action Category	Action			
Education & Awareness	Awareness & Communications (educational materials)			
Land/Water Protection	Site/Area Protection (acquisition, easements)			
Land/Water Protection	Resource/Habitat Protection			
Land/Water Management	Site/Area Management (posting or fencing)			
Law & Policy Actions	Policy/Regulations (establish seasonal use restrictions, adjust state land unit mgmt plans)			
External Capacity Building	Alliance & Partnership Development (support and participate in international shorebird conservation efforts)			

The Comprehensive Wildlife Conservation Strategy (NYSDEC 2005) includes recommendations for the following actions for transient shorebirds, which includes short-billed dowitcher.

Fact Sheet:

____ Develop educational materials about conservation needs of shorebirds in New York, and promote habitat protection measures.

Habitat Management:

As important foraging areas become known, identify potential threats and protect those habitats (ex- beaches, tidal flats, shoals, etc.) from permanent alteration, degradation, or adverse human disturbances. Management may include acquisition, easements, establishing seasonal use restrictions, and posting or fencing, etc. as is currently done for beach-nesting birds.

Habit	at Research:
	Conduct field studies to document ecology of transient shorebirds on Long Island, including important food items, habitat use (ex- importance of tidal flats) and time/activity budgets.
	Compile data and input from birders to derive a map showing important shorebird foraging and resting areas in New York.
Other	Action:
	Provide technical support, funding, or political support as needed, to further international shorebird conservation efforts.
Popu	lation monitoring:
	Identify specific locations, procedures, and observers (volunteer or other) for conducting annual shorebird surveys at 5-10 locations in New York, and initiate surveys as soon as possible.
State	Land Unit Management Plan:
	On state-owned or other public lands, ensure that management plans consider shorebird needs and appropriately restrict site development and seasonal uses that may adversely affect critical shorebird foraging areas.
State	wide Management Plan:
	Develop a conservation plan for transient (non-breeding) shorebirds that regularly occur in New York, to include objectives and actions that we can assist with both inside and out of New York State.

VII. References

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