

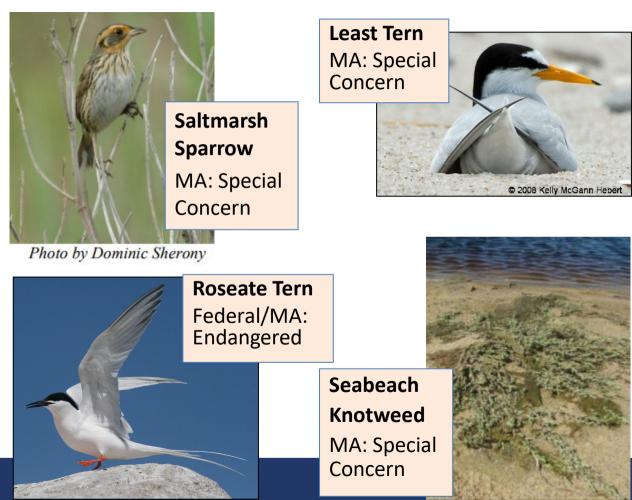
Protection and Regulation of Beach Nesting Birds in Massachusetts

Carolyn Mostello, Coastal Waterbird Biologist 22 December 2022

Listed species on TTOR-managed properties, Martha's Vineyard







Piping Plover & Tern ecology





	Piping Plover	Terns
Group	Shorebird	Seabird
Migratory	V	V
Nest on ground	V	V
Feeding habitat	Beach	Water
Food	Invertebrates	Fish
Chick mobility	High	Moderate
Parents attend & brood chicks	V	V
Who feeds chicks?	Themselves	Parents
Time to fledging	~1 month	~1 month

Listed due to threats that severely reduced populations

- Hunting
- Loss and degradation of habitat
- Disturbance by humans and pets
- Destruction of eggs and chicks by vehicles
- Other than hunting, same threats still exist
- Climate change: ↑sea level, ↑storms,
 ↑erosion, ↓beach width/height



Relevant laws & policies

		Regulatory	
Law or policy	Relevance	authority	
	Prohibits "Take" (harm, harrassment,		
US Endangered Species Act (ESA)	mortality, etc.)	USFWS	
Mass. Endangered Species Act	Prohibits "Take" (harm, harrassment,		
(MESA)	mortality, etc.) including habitat	MassWildlife	
Mass. Wetlands Protection Act	Prohibits short- and long-term impacts	Mass. DEP,	
(WPA)	on rare species habitat	MassWildlife	
	Procedures to avoid "Take" of plovers		
"The Guidelines"*	and terns	n/a	

- * "Guidelines for managing recreational use of beaches to protect piping plovers, terns, and their habitats in Massachusetts" (MassWildlife, 1993)
- USFWS also has similar guidelines for plovers

MA & federal "Guidelines"

or carry out.

Follow rules about doos on

this beach.

Learn more at



Birds Have Babies Here

Brds like the Ploing Plover can only raise their chicke on the bench. Neets and thick a an camouflaged and hard to see, so they are protocided with signs and ropo fashing. Protocing neutral size protocides our dunes and other species like terms, American Oysteracthem, and Black Skimmon.



Dogs and People FRIGHTEN Beach Birds

Even good dogs and responsible people can fighten besch birde when approaching nexts or chicks. Every dog is perceived as a threat, no matter its sox. When dogs or people score beach birds, they leave their eggs, stop feecing, and waste time and enorge on distuction disparse. 3

Give the

can rest

birds space so they

and fuel up.

Have a Heart. Share the Shore.

- Implementation
 - Avoids "Take"
 - Protects landowner/manager from liability
- Measures
 - Symbolic fencing
 - Restrictions:
 - Oversand vehicles (OSV)
 - Pets
 - Fireworks
 - Kites

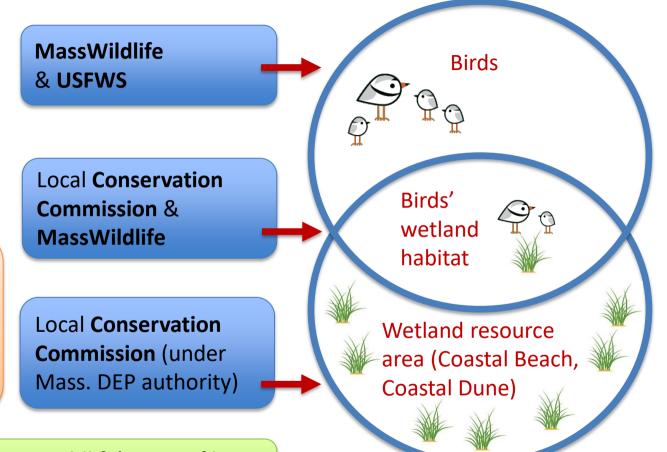
Dogs: pervasive mgmt. issue for beach-nesting birds



- Plovers & terns perceive domestic dogs (leashed or unleashed) as they would natural predators (foxes, coyotes)
- Domestic dogs <u>are</u> predators of plovers and terns
- Guidelines:
 - At minimum, dogs must be leashed and under control of owner
 - Should be prohibited if above cannot be achieved
- Beach owners/ managers expected to take reasonable steps to address compliance with Guidelines

Who regulates beach-nesting birds & their habitat in MA?

Note: Beach owners/managers must adhere to regulations set by state/federal agencies



Basic permitting avenues: MassWildlife's MESA filing, ConComm's Notice of Intent (WPA) filing

Rare species habitat = Priority Habitat (PriHab)

- Geographic extent of habitat of state-listed rare species in MA based on observations in the last 25 years
- Delineated by MassWildlife-NHESP
- Viewable online in Natural Heritage Atlas
- Plovers and terns sandy, cobbly, or rocky habitat; overwash areas; dunes; marshes; intertidal areas; estuaries, bays, ponds, open ocean

				EDG
Ray Boad	Example: Norton Poil	nt		
Vedgartown Construction				
	EDGARTOWN	ORION P	0 1 N T	
EDGARTOWN	ARTOWN Norton Norton Point Point			
WEST	OPENING			
			WEDNA DOINT	



Examples of "projects or activities" that might be regulated in rare species habitat (PriHab) on coast

- Grading
- Planting
- Raking, grooming, sand redistributions
- Wrack ("seaweed") management
- Over sand vehicle (OSV) use
- Essential vehicle use
- Trash management
- Road maintenance
- Dune-building
- Dredging
- Nourishment
- Construction
- Beach management

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Beach Management Plans

- Who needs one: Any entity conducting management actions on beaches with MESA-listed species, including beach-nesting birds
- Why needed: To avoid Take resulting from activities within *PriHab*
- Outline:
 - Ownership and management entity
 - Site description
 - Rare species
 - Beach operation and management
 - Bird management and monitoring

- Typical elements/activities included:
- Grading
- Planting
- Raking, grooming, and sand redistributions
- Wrack ("seaweed") management
- Events
- Recreational activities
- Over sand vehicle (OSV) use
- Essential vehicle use
- Trash management
- Road maintenance
- Dredging
- Nourishment
- Construction

MassWildlife-NHESP offers written guidance and consultations for preparing BMPs

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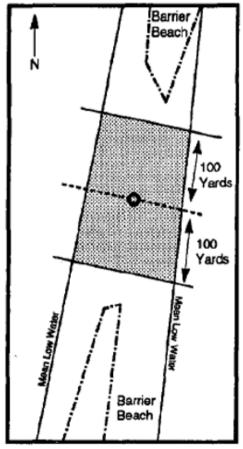
Approvals of projects by MassWildlife

- Include conditions to avoid impacts to beach-nesting birds and their habitat, for example:
 - Time-of-year restrictions
 - Gentle slopes for constructed dunes
 - Managing vehicle traffic on beach travel corridors
 - Following the "Guidelines"
- Include conditions to avoid impacts to other listed species and their habitat

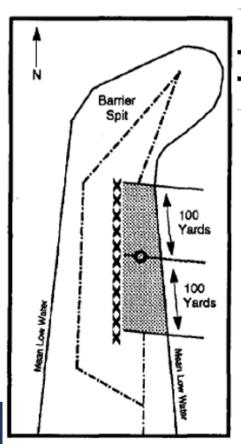
Guidelines: Symbolic fencing on driving beaches Nesting habitat

- All areas of suitable piping plover/tern nesting habitat, as determined by MassWildlife, should be delineated by symbolic fencing
- <u>Before</u> chicks hatch, vehicles may pass by and park outside fenced areas if beach width, configuration, and tides allow

Guidelines: Symbolic fencing on driving beaches Chick habitat



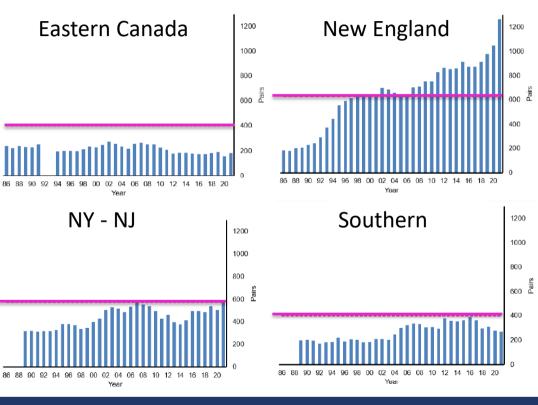
Vehicles prohibited from habitat within 100 yd of unfledged plover and tern chicks; restricted area stretches from oceanside to bayside



However, vehicles may pass through areas considered inaccessible to chicks (steep topography, dense veg, naturally occurring obstacles)

Plovers are doing well in New England: What about delisting?

- Struggling in 3 of 4 recovery units (RUs)
- MA <u>must</u> list at same or more imperiled status as USFWS
- Delisting criteria include:
 - Sustained **abundance** goals by RU
 - Sustained **productivity** goal across RUs
 - Long-term agreements to ensure success





What has MA done to bring relief to beach users & managers?

- **Piping Plover Habitat Conservation Plan** (HCP) - 2016
- Balances conservation with public access
- Allows flexibility in implementing Guidelines
- MassWildlife holds 26-year Incidental Take Permit from USFWS
 - Issues 3-year sub-permits to beach owners/managers
 - Authorizes "Take"

HCP is a focused program

- Specific "Covered Activities"
 - 1. Recreation & beach ops
 - 2. OSV use near chicks
 - 3. Use of roads & parking lots near chicks
- Participants must follow Guidelines except where authorized to deviate for Covered Activities



MassWildlife recognizes challenges for beach owners/managers balancing recreation & birds

- With USFWS, exploring avenues for increased flexibility for beach owners/managers within and outside of the HCP
- Beach owners/managers often unfairly blamed for restrictions on access that are responsive to local, state, and federal requirements

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