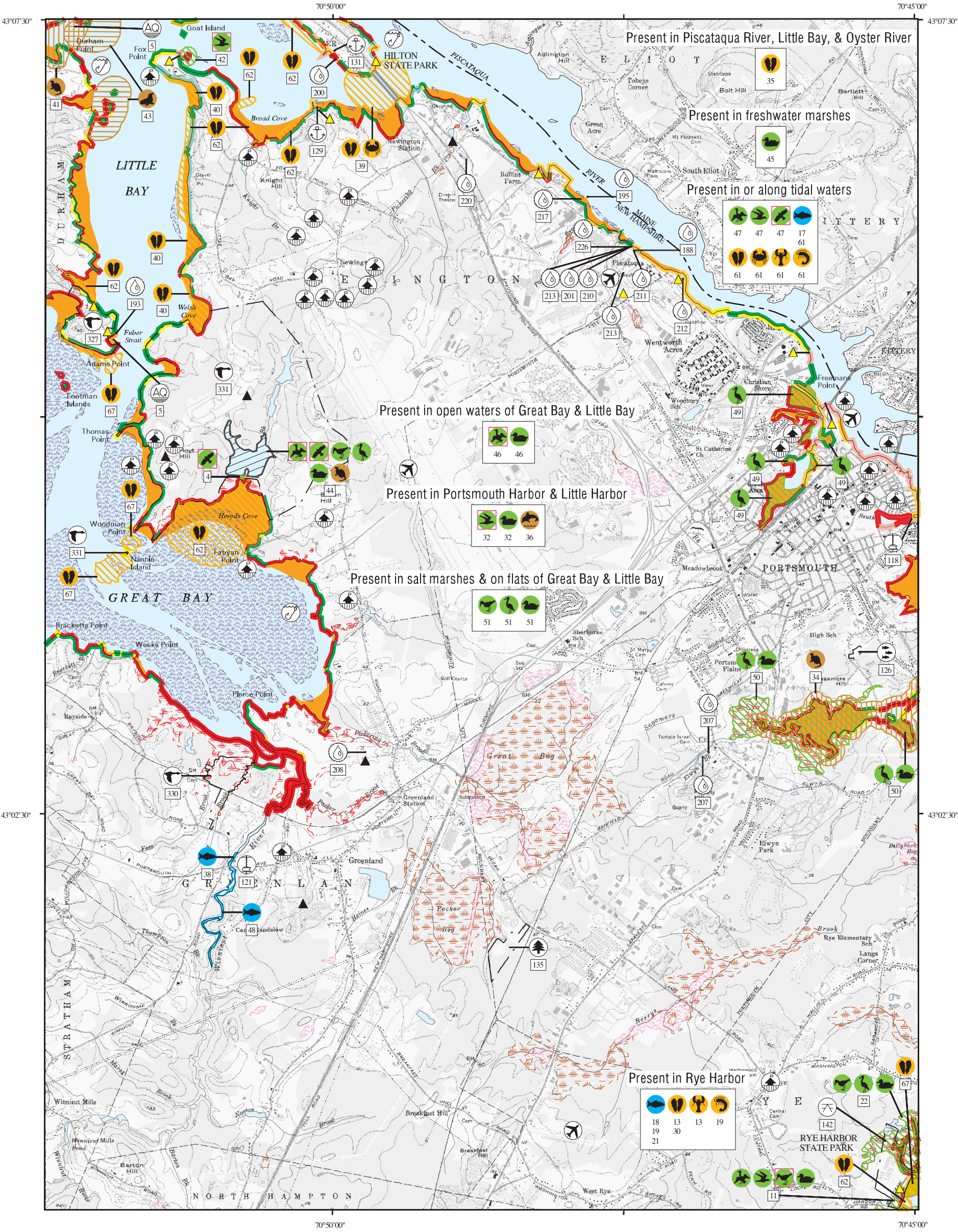


ENVIRONMENTAL SENSITIVITY INDEX MAP



SHORELINE HABITATS (ESI)

- 1A EXPOSED ROCKY SHORES
- 1B EXPOSED, SOLID MAN-MADE STRUCTURES
- 2A EXPOSED WAVE-CUT PLATFORMS IN BEDROCK
- 3A FINE- TO MEDIUM-GRAINED SAND BEACHES
- 5 MIXED SAND AND GRAVEL BEACHES
- 6A GRAVEL BEACHES
- 6B RIPRAP
- 7 EXPOSED TIDAL FLATS
- 8A SHELTERED ROCKY SHORES
- 8B SHELTERED, SOLID MAN-MADE STRUCTURES
- 8C SHELTERED RIPRAP
- 9A SHELTERED TIDAL FLATS
- 10A SALT- AND BRACKISH-WATER MARSHES
- 10B FRESHWATER MARSH
- 10C SWAMPS
- 10D SCRUB-SHRUB WETLANDS

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1 0.5 0 1 KILOMETER

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Not For Navigation

7 (155) 6 (156)

5 (169) 4 (170) 3 (171)

2 (187)

1 (186, 202)

PORTSMOUTH, N.H. - ME.(1990) NH-4

New Hampshire: ESIMAP 4

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S	F	Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Migrating	Molting
4	Osprey	T		1 PAIR	-	-	-	X	X	X	X	X	X	X	-	-	APR-OCT	-	-
11	American black duck			LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Common eider			MED	X	X	X	X						X	X	X	-	-	-
	Double-crested cormorant			MED-HIGH				X	X	X	X	X	X	X			-	-	-
	Great black-backed gull			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Great cormorant			LOW	X	X	X	X	X					X	X		-	-	-
	Herring gull			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Purple sandpiper	C		MED	X	X	X	X	X					X	X		-	-	-
22	American bittern			LOW				X	X	X	X	X	X	X			-	-	-
	American black duck			LOW	X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	-	-
	Black-bellied plover			LOW				X						X	X	X	-	MAY-MAY JUL-OCT	-
	Black-crowned night-heron			LOW				X	X	X	X	X	X	X			-	-	-
	Canada goose			LOW	X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	-	-
	Glossy ibis			LOW				X	X	X	X	X	X	X			-	-	-
	Great blue heron			LOW				X	X	X	X	X	X	X			-	-	-
	Great egret			LOW				X	X	X	X	X	X	X			-	-	-
	Greater yellowlegs			LOW				X		X	X	X	X	X			-	MAY-MAY JUL-OCT	-
	Green heron			LOW				X	X	X	X	X	X	X			-	-	-
	Least sandpiper			LOW				X		X	X	X	X	X			-	MAY-MAY JUL-OCT	-
	Lesser yellowlegs			LOW				X		X	X	X	X	X			-	MAY-MAY JUL-OCT	-
	Little blue heron			LOW				X	X	X	X	X	X	X			-	-	-
	Semipalmated plover			LOW				X		X	X	X	X	X			-	MAY-MAY JUL-OCT	-
	Semipalmated sandpiper			LOW				X		X	X	X	X	X			-	MAY-MAY JUL-OCT	-
	Snowy egret			LOW				X	X	X	X	X	X	X			-	-	-
	Tricolored heron			LOW				X	X	X	X	X	X	X			-	-	-
32	American black duck			HIGH	X	X	X	X							X	X	-	-	-
	Bonaparte's gull			MED	X	X	X	X	X					X	X	X	-	-	-
	Bufflehead			MED	X	X	X	X						X	X		-	-	-
	Common goldeneye			MED	X	X	X	X						X	X		-	-	-
	Common tern	E		LOW				X	X	X	X	X	X				-	-	-
	Great black-backed gull			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	-	-
	Herring gull			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	-	-
	Mallard			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	-	-
	Red-breasted merganser			LOW	X	X	X	X						X	X		-	-	-
	Ring-billed gull			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
42	Common tern	E		10-15 PAIRS				X	X	X	X						MAY-AUG	-	-
44	American black duck			MED	X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	-	-
	American wigeon			>100	X	X	X	X						X	X	X	-	-	-
	Bald eagle	E	T	LOW	X	X	X	X						X			-	-	-
	Blue-winged teal			LOW	X	X	X	X						X	X		-	-	-
	Bufflehead			LOW	X	X	X	X						X	X		-	-	-
	Common goldeneye			LOW	X	X	X	X						X	X		-	-	-
	Gadwall			LOW	X	X	X	X						X	X		-	-	-
	Great blue heron			LOW				X	X	X	X	X	X	X			MAY-SEP	-	-
	Greater scaup			LOW	X	X	X	X						X	X	X	-	-	-
	Greater yellowlegs			LOW				X		X	X	X	X				-	MAY-MAY JUL-OCT	-
	Green heron			LOW				X	X	X	X	X	X	X			-	-	-
	Green-winged teal			150										X	X		-	-	-
	Hooded merganser				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Least bittern			LOW				X	X	X	X	X	X				MAY-SEP	-	-
	Least sandpiper			LOW				X		X	X	X	X				-	MAY-MAY JUL-OCT	-
	Lesser yellowlegs			LOW				X		X	X	X	X				-	MAY-MAY JUL-OCT	-
	Mallard			MED	X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	-	-
	Northern pintail			LOW	X	X	X	X						X	X		-	-	-
	Osprey	T		LOW				X	X	X	X	X	X	X			APR-OCT	-	-
	Peregrine falcon	E		LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Pied-billed grebe	E		LOW	X	X	X	X	X	X	X	X	X	X			APR-OCT	-	-
	Ring-necked duck			LOW	X	X	X	X						X	X		-	-	-
	Semipalmated sandpiper			50				X		X	X	X	X				-	MAY-MAY JUL-OCT	-
	Snowy egret			LOW				X	X	X	X	X	X				-	-	-
	Solitary sandpiper			LOW				X		X	X	X	X				-	-	-
	Sora			LOW				X	X	X	X	X	X				-	-	-
	Spotted sandpiper			LOW				X		X	X	X	X				-	-	-
	Virginia rail			LOW				X	X	X	X						MAY-AUG	-	-
	Wood duck			200	X	X	X	X						X	X	X	OCT-OCT	-	-
45	American black duck			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Wood duck			MED	X	X	X	X						X	X		-	-	-
46	Bufflehead			<100	X	X	X	X						X	X		-	-	-
	Canvasback			LOW	X	X	X	X						X	X		-	-	-
	Common goldeneye			200-400	X	X	X	X						X	X		-	-	-
	Common loon	T		LOW	X	X	X	X	X					X	X	X	-	-	-
	Common merganser			200	X	X	X	X						X	X		-	-	-
	Greater scaup			400-800	X	X	X	X						X	X	X	-	-	-
	Hooded merganser			200				X	X	X							-	-	-
	Red-breasted merganser			200	X	X	X	X						X	X		-	-	-
	Scoters			MED	X	X	X	X						X	X		-	-	-
47	Bald eagle	E	T	15-25	X	X	X	X						X			-	-	-
	Double-crested cormorant			LOW				X	X	X	X	X	X	X			-	-	-
	Great black-backed gull			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Herring gull			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
49	American bittern			LOW				X	X	X	X	X	X	X			-	-	-
	Black-crowned night-heron			LOW				X	X	X	X	X	X	X			-	-	-
	Glossy ibis			LOW				X	X	X	X	X	X	X			-	-	-
	Great blue heron			LOW				X	X	X	X	X	X	X			-	-	-
	Great egret			LOW				X	X	X	X	X	X	X			-	-	-
	Green heron			LOW				X	X	X	X	X	X	X			-	-	-
	Little blue heron			LOW				X	X	X	X	X	X	X			-	-	-
	Snowy egret			LOW				X	X	X	X	X	X	X			-	-	-
	Tricolored heron			LOW				X	X	X	X	X	X	X			-	-	-
50	American bittern			LOW				X	X	X	X	X	X	X			-	-	-
	American black duck			LOW	X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	-	-
	Black-crowned night-heron			LOW				X	X	X	X	X	X				-	-	-
	Glossy ibis			LOW				X	X	X	X	X	X	X			-	-	-
	Great blue heron			LOW				X	X	X	X	X	X	X			-	-	-
	Great egret			LOW				X	X	X	X	X	X	X			-	-	-
	Green heron			LOW				X	X	X	X	X	X	X			-	-	-
	Little blue heron			LOW				X	X	X	X	X	X	X			-	-	-
	Snowy egret			LOW				X	X	X	X	X	X	X			-	-	-
	Tricolored heron			LOW				X	X	X	X	X	X	X			-	-	-
51	American bittern			LOW				X	X	X	X	X	X	X			-	-	-
	American black duck			1000-2000	X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	-	-
	American wigeon			50	X	X	X	X						X	X	X	-	-	-
	Black-bellied plover			LOW				X		X	X	X	X	X			-	MAY-MAY JUL-OCT	-

Biological information shown on the maps represents known concentration areas or occurrences, but does not necessarily represent the full distribution or range of each species. This is particularly important to recognize when considering potential impacts to protected species.

New Hampshire: ESIMAP 4 (cont.)

BIOLOGICAL RESOURCES: (cont.)

BIRD:																					
RAR#	Species	S	F	Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Migrating		Molting	
51	Black-crowned night-heron			LOW				X	X	X	X	X	X	X			-	-		-	
	Blue-winged teal			<50	X	X	X	X						X	X		-	-		-	
	Canada goose			3000-6000	X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	-	-	-	-
	Gadwall			LOW	X	X	X	X						X	X		-	-		-	
	Glossy ibis			LOW				X	X	X	X	X	X	X			-	-		-	
	Great blue heron			LOW				X	X	X	X	X	X	X			-	-		-	
	Great egret			LOW				X	X	X	X	X	X	X			-	-		-	
	Greater yellowlegs			MED				X		X	X	X	X				-	MAY-MAY	JUL-OCT	-	-
	Green heron			LOW				X	X	X	X	X	X	X			-	-		-	
	Least sandpiper			MED				X		X	X	X	X				-	MAY-MAY	JUL-OCT	-	-
	Lesser yellowlegs			MED				X		X	X	X	X				-	MAY-MAY	JUL-OCT	-	-
	Northern pintail			<50	X	X	X	X						X	X		-	-		-	
	Semipalmated plover			LOW				X		X	X	X	X	X			-	MAY-MAY	JUL-OCT	-	-
	Semipalmated sandpiper			LOW				X		X	X	X	X				-	MAY-MAY	JUL-OCT	-	-
	Short-billed dowitcher			LOW				X		X	X	X	X				-	MAY-MAY	JUL-OCT	-	-
	Snowy egret			LOW				X	X	X	X	X	X				-	-		-	
	Spotted sandpiper			LOW				X		X	X	X	X				-	-		-	
	Solitary sandpiper			LOW				X		X	X	X	X				-	-		-	
FISH:																					
RAR#	Species	S	F	Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults
17	Alewife							X	X	X	X	X	X	X	X	X	-	-	-	APR-DEC	APR-JUL
	American eel						X	X	X	X	X	X	X	X			-	-	-	-	MAR-OCT
	American shad				X	X		X	X	X	X	X	X	X	X	X	-	-	-	JUL-FEB	MAY-JUL
	Atlantic salmon				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	MAY-MAR
	Blueback herring				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Rainbow smelt				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	MAR-SEP	OCT-APR
	Sea lamprey							X	X	X	X	X	X	X	X	X	-	-	-	APR-DEC	APR-JUL
	Striped bass				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
18	American plaice						X	X	X	X	X	X	X	X			-	MAR-JUN	MAR-JUL	MAR-NOV	MAR-NOV
	American sand lance				X	X	X	X	X	X	X	X	X	X	X	X	-	-	DEC-JUN	MAR-NOV	MAR-NOV
	Atlantic cod				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	NOV-JUN	NOV-JUL	JAN-DEC	OCT-JUL
	Atlantic herring				X	X	X	X	X	X	X	X	X	X	X	X	-	-	OCT-MAY	APR-DEC	APR-DEC
	Cunner				X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-AUG	MAR-SEP	JAN-DEC	JAN-DEC
	Haddock						X	X	X	X							-	MAR-JUN	MAR-JUN	-	-
	Longhorn sculpin				X	X	X	X	X	X	X	X	X	X	X	X	DEC-APR	DEC-APR	JAN-JUN	JAN-DEC	JAN-DEC
	Northern searobin										X	X	X	X			-	-	-	JUL-OCT	JUL-OCT
	Ocean pout				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Pollock				X	X	X	X	X	X	X	X	X	X	X	X	-	NOV-FEB	NOV-MAR	JAN-DEC	-
	Red hake						X	X	X	X	X	X	X	X	X		-	JUN-OCT	JUN-OCT	MAY-NOV	MAY-NOV
	Rock gunnel				X	X	X	X	X	X	X	X	X	X	X	X	DEC-MAR	DEC-APR	JAN-MAY	JAN-DEC	JAN-DEC
	Shorthorn sculpin				X	X	X	X	X			X	X	X	X		-	-	-	SEP-MAY	SEP-MAY
	Silver hake						X	X	X	X	X	X	X	X			-	-	-	APR-NOV	APR-NOV
	Skates				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	White hake						X	X	X	X	X	X	X	X	X		-	JUL-OCT	JUL-OCT	MAY-NOV	MAY-NOV
	Winter flounder				X	X	X	X	X	X	X	X	X	X	X	X	FEB-MAY	-	-	JAN-DEC	JAN-DEC
	Yellowtail flounder						X	X	X	X	X	X					-	APR-SEP	APR-SEP	-	-
19	Atlantic mackerel				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-
	Butterfish				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-
21	Rainbow smelt			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	MAR-SEP	OCT-APR
	Striped bass			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
38	Rainbow smelt			HIGH			X										MAR-APR	-	-	-	MAR-APR
48	Alewife						X	X	X	X							APR-JUN	-	-	-	APR-JUL
	American eel						X	X									APR-MAY	-	-	-	APR-MAY
	Blueback herring						X	X	X								APR-JUN	-	-	-	APR-JUN
61	American sand lance				X	X	X	X	X	X	X	X	X	X	X	X	-	-	DEC-JUN	MAR-NOV	MAR-NOV
	Atlantic mackerel						X	X	X	X	X	X	X	X			-	-	-	MAY-OCT	MAY-OCT
	Atlantic menhaden				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-
	Atlantic silverside				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUN	APR-JUN	APR-JUL	APR-DEC	JAN-DEC
	Atlantic tomcod				X	X	X	X	X	X	X	X	X	X	X	X	DEC-FEB	-	-	JAN-DEC	JAN-DEC
	Bluefish				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-
	Common killifish				X	X	X	X	X	X	X	X	X	X	X	X	JUN-AUG	JUN-AUG	JUN-SEP	JAN-DEC	JAN-DEC
	Cunner				X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-AUG	MAR-SEP	JAN-DEC	JAN-DEC
	Fourspine stickleback				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUN	APR-JUN	APR-JUN	JAN-DEC	JAN-DEC
	Grubby				X	X	X	X	X	X	X	X	X	X	X	X	DEC-MAR	DEC-APR	JAN-JUN	JAN-DEC	JAN-DEC
	Longhorn sculpin				X	X	X	X	X	X	X	X	X	X	X	X	DEC-APR	DEC-APR	JAN-JUN	JAN-DEC	JAN-DEC
	Ninespine stickleback				X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUL	MAY-JUL	MAY-JUL	JAN-DEC	JAN-DEC
	Northern pipefish				X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	-	APR-OCT	JAN-DEC	JAN-DEC
	Pollock				X	X	X	X	X	X	X	X	X	X	X	X	-	NOV-FEB	NOV-MAR	JAN-DEC	-
	Red hake						X	X	X	X	X	X	X	X			-	JUN-OCT	JUN-OCT	MAY-NOV	MAY-NOV
	Rock gunnel				X	X	X	X	X	X	X	X	X	X	X	X	DEC-MAR	DEC-APR	JAN-MAY	JAN-DEC	JAN-DEC
	Skates				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Smooth flounder				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Striped killifish				X	X	X	X	X	X	X	X	X	X	X	X	JUN-AUG	JUN-AUG	JUN-SEP	JAN-DEC	JAN-DEC
	Threespine stickleback				X	X	X	X	X	X											

Biological information shown on the maps represents known concentration areas or occurrences, but does not necessarily represent the full distribution or range of each species. This is particularly important to recognize when considering potential impacts to protected species.

New Hampshire: ESIMAP 4 (cont.)

BIOLOGICAL RESOURCES: (cont.)

MARINE MAMMAL:																				
RAR#	Species	S	F	Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Calving	Molting	Pupping
36	Harbor porpoise				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
43	Harbor seal			HIGH	X	X	X						X	X	X	X	-	-	-	-
TERRESTRIAL MAMMAL:																				
RAR#	Species	S	F	Conc.	J	F	M	A	M	J	J	A	S	O	N	D				
34	Northern river otter				X	X	X	X	X	X	X	X	X	X	X	X				
41	Beaver			MED	X	X	X	X	X	X	X	X	X	X	X	X				
	Muskrat			MED	X	X	X	X	X	X	X	X	X	X	X	X				
	Northern river otter			MED	X	X	X	X	X	X	X	X	X	X	X	X				
44	Beaver			LOW	X	X	X	X	X	X	X	X	X	X	X	X				
	Muskrat			LOW	X	X	X	X	X	X	X	X	X	X	X	X				
	Northern river otter			LOW	X	X	X	X	X	X	X	X	X	X	X	X				

HUMAN USE RESOURCES:

AQUACULTURE:

HUN#	Name	Owner	Contact	Phone
5	AQUACULTURE: OYSTER			

LOCK AND DAM:

HUN#	Name - Code	Owner	Contact	Phone
118	SOUTH MILL POND DAM - 199.05	CITY OF PORTSMOUTH PUBLIC WORKS	STEVE PARKINSON	
121	WINNICUT RIVER DAM - 099.01	NH FISH AND GAME DEPT.	CHUCK MINER	

MANAGEMENT AREA:

HUN#	Name	Owner	Contact	Phone
126	JONES AVE. CONSERVATION AREA			

MARINA:

HUN#	Name	Owner	Contact	Phone
129	GREAT BAY MARINA			603-436-5299
131	LITTLE BAY MARINA			603-749-9282

NATURE CONSERVANCY:

HUN#	Name	Owner	Contact	Phone
135	PACKER BOG PRESERVE			

PARK:

HUN#	Name	Owner	Contact	Phone
142	RYE HARBOR STATE PARK			603-436-5294

WATER INTAKE:

HUN#	Name	Owner	Contact	Phone
188	GREAT BAY AQUAFARMS			
193	JACKSON ESTUARINE LABORATORY		DAVID SHAY-MGR	603-862-2175
195	LITTLE BAY LOBSTER COMPANY		GREG HANSON OR DON LADUE	603-431-3170
200	NEWICK'S RESTAURANT		MARTY CHAMPAIGN	603-742-3205
201	NEWINGTON WWTF			
207	PIKE INDUSTRIES INC			603-527-5101
208	PORTSMOUTH COUNTRY CLUB			603-436-9719
210	PORTSMOUTH WWTF			
211	PSNH-NEWINGTON GENERATING STATION		LEO QUINN	603-669-4000
212	PSNH-SCHILLER GENERATING STATION		LEO QUINN	603-669-4000
213	PUBLIC SERVICE CO OF NH			603-669-4000
217	SEA-3 INC			
220	SPRAGUE ENERGY		TOM WITHKA, JR.	603-430-5345
226	TYCOM INTEGRATED CABLE SY		DENNIS KOST	603-436-6100

WILDLIFE REFUGE:

HUN#	Name	Owner	Contact	Phone
327	ADAMS POINT WILDLIFE MANAGEMENT AREA			
330	GREAT BAY WILDLIFE MANAGEMENT AREA			
331	GREAT BAY NATIONAL WILDLIFE REFUGE		JIMMIE REYNOLDS	603-431-7511

Biological information shown on the maps represents known concentration areas or occurrences, but does not necessarily represent the full distribution or range of each species. This is particularly important to recognize when considering potential impacts to protected species.