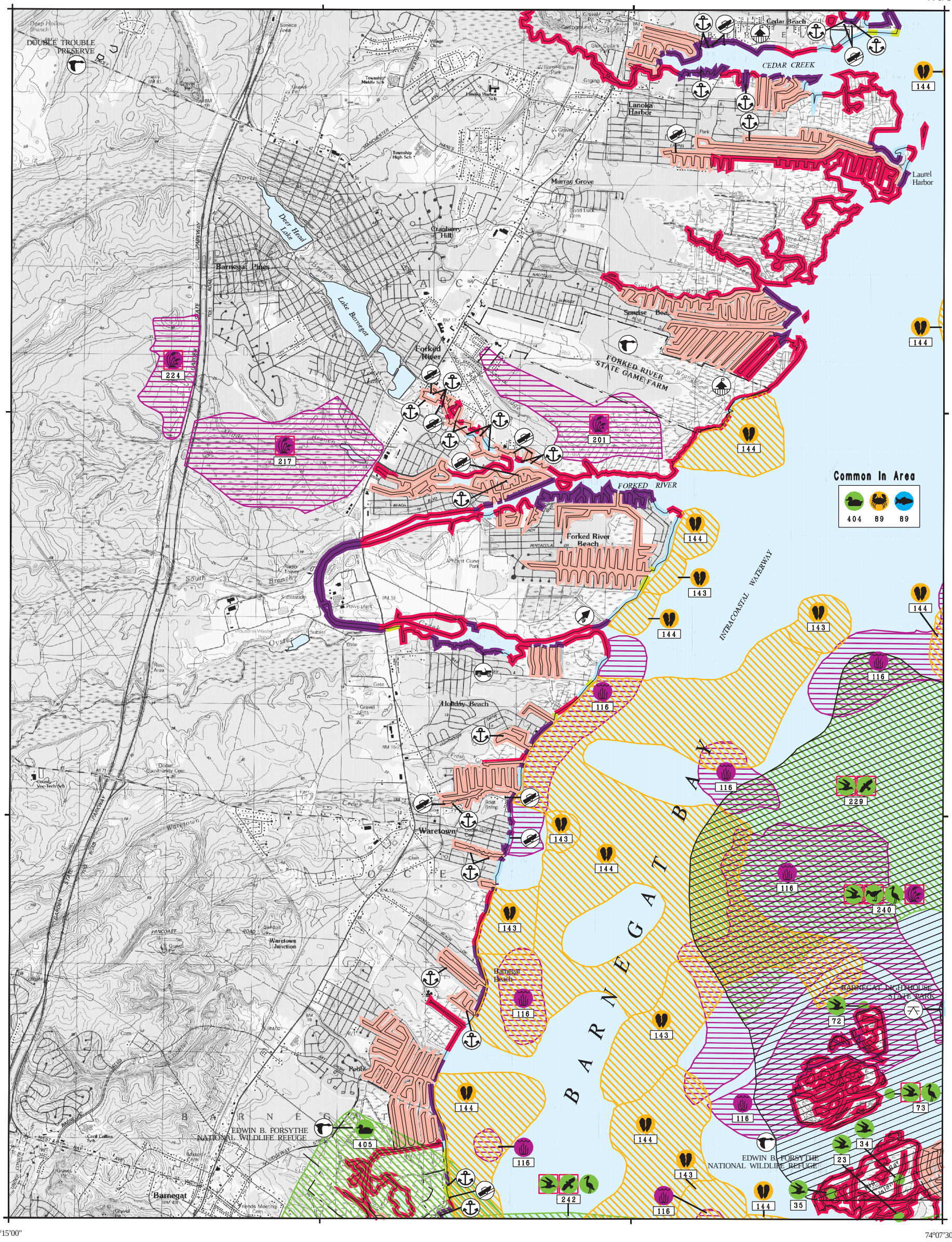
ENVIRONMENTAL SENSITIVITY INDEX MAP



Prepared for:

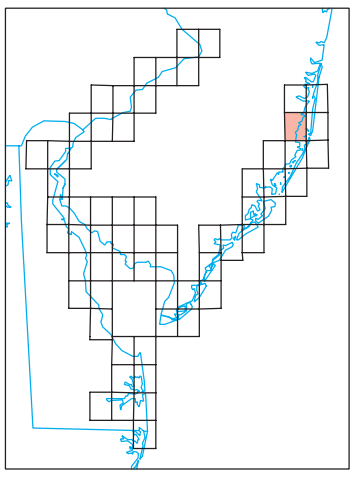
HAZARDOUS MATERIALS RESPONSE
and ASSESSMENT DIVISION
National Oceanic and Atmospheric Administration
Seattle, Washington
and
The States of DELAWARE,
NEW JERSEY, and PENNSYLVANIA

N W E S

1 .5 0 1 KILOMETER

1 .5 0 1 MILE

Not For Navigation
Published: August 1996



DELAWARE, NEW JERSEY, and PENNSYLVANIA ESIMAP 59

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	ST	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging
23	Great black-backed gull				1	X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Herring gull				19	X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Laughing gull				35				X	X	X	X	X	X	X			APR-JUL	MAY-MAY	MAY-JUN	JUL-JUL
34	Herring gull				154	X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Laughing gull				3420				X	X	X	X	X	X	X			APR-JUL	MAY-MAY	MAY-JUN	JUL-JUL
35	Great black-backed gull				4	X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Herring gull				44	X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Laughing gull				1710				X	X	X	X	X	X	X			APR-JUL	MAY-MAY	MAY-JUN	JUL-JUL
72	Common tern				250			X	X	X	X	X	X					APR-JUL	APR-MAY	MAY-JUN	JUN-JUL
	Great black-backed gull				2	X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Herring gull				24	X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Laughing gull				710				X	X	X	X	X	X	X			APR-JUL	MAY-MAY	MAY-JUN	JUL-JUL
73	Black skimmer	NJ	S	E	12					X	X	X	X	X				MAY-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Black-crowned night heron				3			X	X	X	X	X	X	X	X			MAR-JUN	MAY-JUN	-	-
	Common tern				98			X	X	X	X	X	X					APR-JUL	APR-MAY	MAY-JUN	JUN-JUL
	Great black-backed gull				7	X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Herring gull				380	X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Laughing gull				838				X	X	X	X	X	X	X			APR-JUL	MAY-MAY	MAY-JUN	JUL-JUL
229	Black skimmer	NJ	S	E						X	X	X	X	X				MAY-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Common tern							X	X	X	X	X	X					APR-JUL	APR-MAY	MAY-JUN	JUN-JUL
	Osprey	NJ	S	T				X	X	X	X	X	X	X				MAR-JUL	APR-JUN	JUN-JUL	JUN-JUL
	Peregrine falcon	NJ	S/F	E/E		X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-APR	APR-MAY	JUN-AUG
	Roseate tern	NJ	S/F	E/E							X	X	X	X				JUN-AUG	JUN-JUN	JUN-JUL	JUL-AUG
240	Black skimmer	NJ	S	E						X	X	X	X	X				MAY-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Common tern							X	X	X	X	X	X					-	-	-	-
	Least tern	NJ	S	E				X	X	X	X	X	X					-	-	-	-
	Little blue heron								X	X	X	X	X	X	X	X		-	-	-	-
	Piping plover	NJ	S/F	E/T				X	X	X	X	X	X					-	-	-	-
242	Black skimmer	NJ	S	E						X	X	X	X	X				MAY-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Common tern							X	X	X	X	X	X					-	-	-	-
	Gull-billed tern									X	X	X	X	X				JUN-SEP	JUN-JUN	JUN-JUL	JUL-AUG
	Least tern	NJ	S	E				X	X	X	X	X	X					-	-	-	-
	Little blue heron								X	X	X	X	X	X	X	X		-	-	-	-
	Northern harrier					X	X	X	X	X				X	X	X	X	-	-	-	-
	Osprey	NJ	S	T				X	X	X	X	X	X	X				MAR-JUL	APR-JUN	JUN-JUL	JUN-JUL
	Roseate tern	NJ	S/F	E/E							X	X	X	X				JUN-AUG	JUN-JUN	JUN-JUL	JUL-AUG
404	American coot				25	X	X	X	X	X	X	X	X	X	X	X	X	MAY-MAY	MAY-JUN	JUN-JUL	AUG-SEP
	American wigeon				700	X	X	X							X	X	X	-	-	-	-
	Black duck				6200	X	X										X	-	-	-	-
	Brant				9000	X	X	X							X	X	X	-	-	-	-
	Bufflehead				20000	X	X	X	X	X				X	X	X	X	-	-	-	-
	Canada goose				4800	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Canvasback				4100	X	X	X	X					X	X	X	X	-	-	-	-
	Common eider				20	X	X	X							X	X	X	-	-	-	-
	Goldeneye				21000	X	X	X								X	X	-	-	-	-
	Green-winged teal				100	X	X	X							X	X	X	-	-	-	-
	Mallard				3600	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Merganser				2600	X	X	X	X						X	X	X	-	-	-	-
	Mute swan				1100	X	X	X	X	X	X	X	X	X	X	X	X	MAR-OCT	APR-MAY	MAY-JUN	SEP-OCT
	Northern pintail				500	X	X	X	X					X	X	X	X	-	-	-	-
	Northern shoveler				100	X	X	X	X					X	X	X	X	-	-	-	-
	Oldsquaw				4100	X	X	X	X						X	X	X	-	-	-	-
	Redhead				200	X	X	X							X	X	X	-	-	-	-
	Ring-necked duck				900	X	X	X	X	X				X	X	X	X	-	-	-	-
	Ruddy duck				220	X	X	X	X	X				X	X	X	X	-	-	-	-
	Scaup				21000	X	X	X								X	X	-	-	-	-
	Scoter				700									X	X	X	X	-	-	-	-
	Whistling swan (tundra swan)				100	X	X	X	X							X	X	-	-	-	-
405	American coot				5	X	X	X	X	X	X	X	X	X	X	X	X	MAY-MAY	MAY-JUN	JUN-JUL	AUG-SEP
	American wigeon				200	X	X	X							X	X	X	-	-	-	-
	Black duck				4275	X	X										X	-	-	-	-
	Brant				8410	X	X	X							X	X	X	-	-	-	-
	Bufflehead				3010	X	X	X	X	X				X	X	X	X	-	-	-	-
	Canada goose				3380	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Canvasback				450	X	X	X	X					X	X	X	X	-	-	-	-
	Gadwall				25	X	X	X	X	X							X	-	-	-	-
	Goldeneye				430	X	X	X								X	X	-	-	-	-
	Green-winged teal				200	X	X	X							X	X	X	-	-	-	-
	Mallard				1715	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Merganser				1855	X	X	X	X						X	X	X	-	-	-	-
	Mute swan				242	X	X	X	X	X	X	X	X	X	X	X	X	MAR-OCT	APR-MAY	MAY-JUN	SEP-OCT
	Northern pintail				300	X	X	X	X					X	X	X	X	-	-	-	-
	Northern shoveler				10	X	X	X	X					X	X	X	X	-	-	-	-
	Oldsquaw				395	X	X	X	X						X	X	X	-	-	-	-
	Ruddy duck				10	X	X	X	X	X				X	X	X	X	-	-	-	-
	Scaup				3000	X	X	X								X	X	-	-	-	-
	Scoter				3									X	X	X	X	-	-	-	-

FISH:

RAR#	Species	ST	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Outmig.	Larvae/Juv
89	Alewife					X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	-	-
	American shad							X	X	X								-	-	-
	Atlantic croaker					X			X	X	X	X	X	X	X	X		-	-	MAY-JAN
	Atlantic herring					X		X	X	X						X	X	-	MAR-JUN	-
	Atlantic menhaden							X	X	X	X	X	X	X				-	-	MAR-OCT
	Black seabass								X	X	X	X	X	X	X	X		-	-	APR-OCT
	Blueback herring								X	X	X							APR-JUN	-	-
	Bluefish								X	X	X	X	X	X	X			-	-	JUL-SEP
	Northern kingfish								X	X	X	X	X	X	X	X		-	-	-
	Porgy (scup)								X	X	X	X	X	X	X	X	X	-	-	-
	Seatrout (weakfish)							X	X	X	X	X	X	X	X	X	X	APR-AUG	-	APR-SEP
	Spot							X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN
	Squirrel (red) hake (ling)					X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Striped bass					X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Summer flounder								X	X	X	X	X	X	X	X		-	-	APR-NOV
	Tautog					X	X	X	X	X	X	X	X	X	X	X	X	APR-JUN	-	JUN-DEC
	White perch					X	X	X	X	X	X	X	X	X	X	X	X	APR-JUN	-	-
	Winter flounder					X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	-	MAY-OCT

HABITAT:

RAR#	Species	ST	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D
116	Eelgrass				-	X	X	X	X	X	X	X	X	X	X	X	X
201	Pine Barren boneset	NJ	S	E		X	X	X	X	X	X	X	X	X	X	X	X
	Swamp-pink	NJ	S/F	E/T		X	X	X	X	X	X	X	X	X	X	X	X
217	Bog asphodel	NJ	S	E		X	X	X	X	X	X	X	X	X	X	X	X
	New Jersey rush	NJ	S	E		X	X	X	X	X	X	X	X	X	X	X	X
	Pine Barren boneset	NJ	S	E		X	X	X	X	X	X	X	X	X	X	X	X
	Rough cottongrass	NJ	S	E		X	X	X	X	X	X	X	X	X	X	X	X
224	Knieskern's beaked rush	NJ	S/F	E/T		X	X	X	X	X	X	X	X	X	X	X	X
	New Jersey rush	NJ	S	E		X	X	X	X	X	X	X	X	X	X	X	X
240	Beach amaranth	NJ	S/F	E/T		X	X	X	X	X	X	X	X	X	X	X	X
	Salt marsh bulrush	NJ	S	E		X	X	X	X	X	X	X	X	X	X	X	X

SHELLFISH:

RAR#	Species	ST	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Larvae/Juv	Mating
89	Blue crab					X	X	X	X	X	X	X	X	X	X	X	X	JUL-AUG	SEP-OCT	MAY-JUN
143	Northern quahog (hard clam)				HIGH	X	X	X	X	X	X	X	X	X	X	X	X	JUN-SEP	JUN-SEP	-
144	Northern quahog (hard clam)				MED	X	X	X	X	X	X	X	X	X	X	X	X	JUN-SEP	JUN-SEP	-