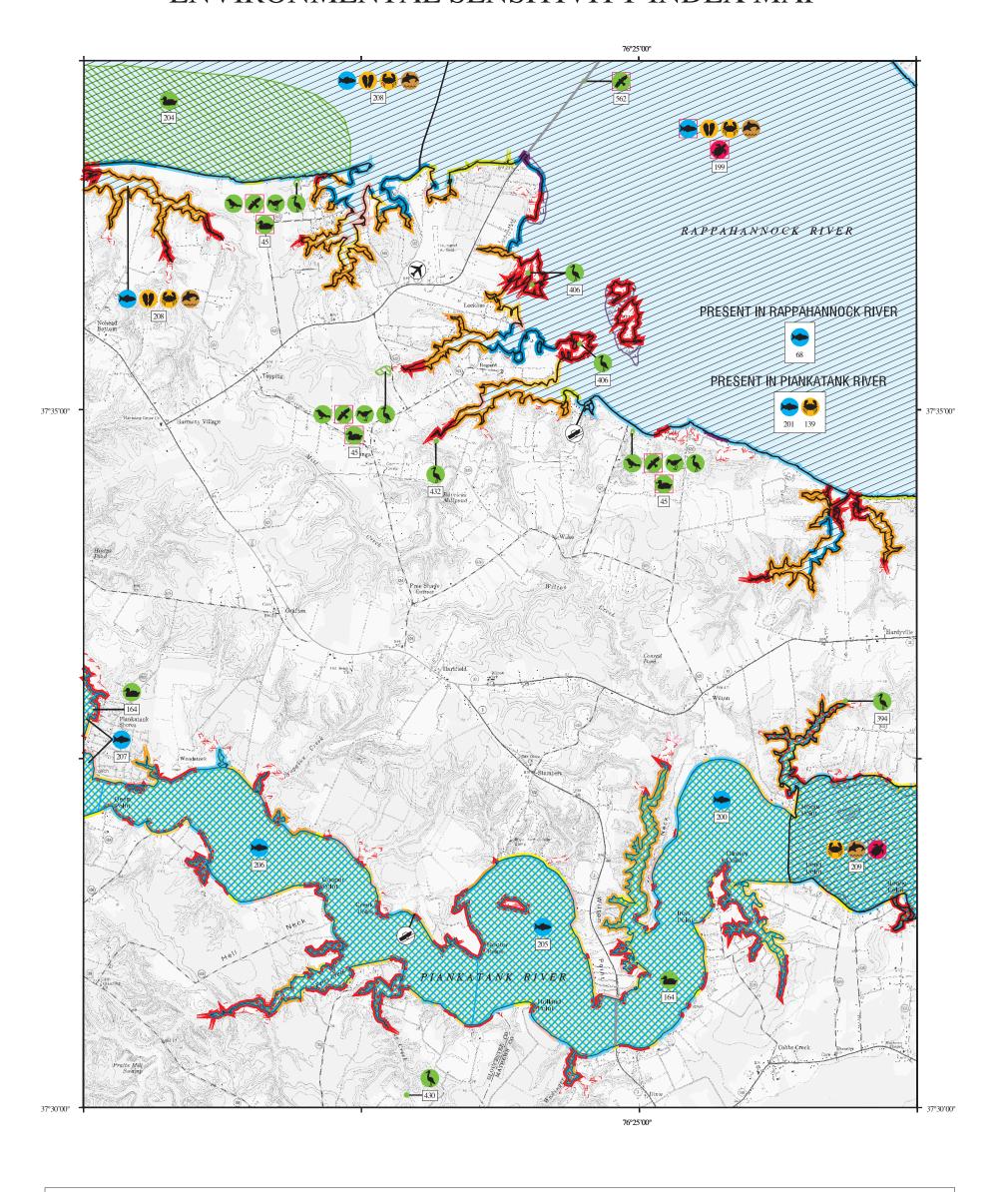
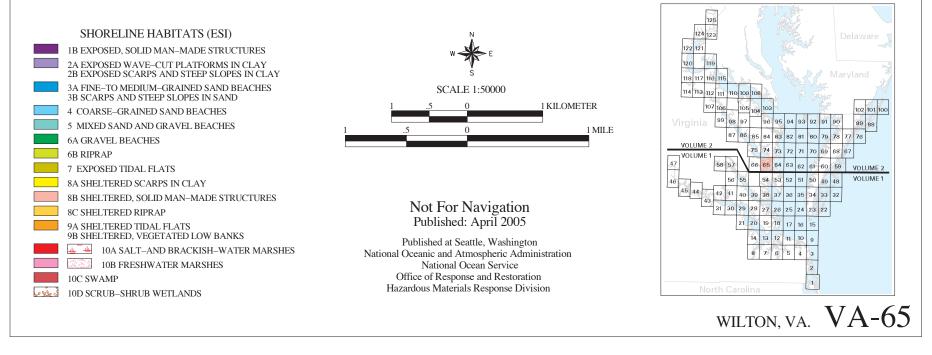
ENVIRONMENTAL SENSITIVITY INDEX MAP





Virginia: ESIMAP 65

BIOLOGICAL RESOURCES:

BIRD	:
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BIRD	:							
RAR#	Species	S F Conc.	J F M A M J J A S O N D	Nesting	Migrating	Molting		
							_	
45	2	ТТ	XXXX	-	-	-		
	Common moorhen Great blue heron	С	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	_	-	_		
	Greater yellowlegs		XXXX	_	_	_		
	Green heron		X X X X	-	-	-		
	King rail		XXXX	-	-	_		
	Least bittern Marsh wren		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	_	-	_		
	Osprey		XXXXXX	MAR-AUG	_	_		
	Sora		X X X X	-	-	_		
	Swamp sparrow		XXXX	-	-	_		
	Virginia rail Wood duck		X	- 7 DD TIIN	-	_		
164	Bufflehead	HIGH	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	APR-50N -	_	_		
	Canvasback	MODERATE	X X X X X X X X X X X X X X X X X X X	-	-	_		
	Common goldeneye		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	-	-	-		
	Long-tailed duck	MODERATE	X X X X X X X X X	-	-	-		
	Mergansers Mute swan		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	_	_	_		
	Ring-necked duck	MODERATE	X X X X X X X X X	_	_	_		
	Ruddy duck	HIGH	$X \ X \ X \ X $	-	-	-		
	Scaup	MODERATE	X X X X X X X X X X X X X X X X X X X	-	-	-		
	Scoters Tundra swan	HIGH MODERATE	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	_	-	_		
2.04	Bufflehead	HIGH	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	_	_	_		
	Canvasback	HIGH	XXXX	-	-	_		
	Common goldeneye	MODERATE	$X \ X \ X \ X \qquad \qquad X \ X \ X$	-	-	-		
	Long-tailed duck		X X X X X X X X X	_	-	-		
	Mergansers Ring-necked duck	HIGH LOW	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	_	_	_		
	Ruddy duck	VERY HIGH	X X X X X X X X X	_	_	_		
	Scaup	HIGH	$X \ X \ X \ X$	-	-	_		
	Great blue heron	9 NESTS	$\times \times $		-	-		
	Great blue heron	5 NESTS	X X X X X X X X X X X X X		-	_		
430 432	Great blue heron Great blue heron	40 NESTS 10 NESTS	X X X X X X X X X X X X X X X X X X X		-	_		
	Peregrine falcon	T	XXXXXX	MAR-AUG	-	_		
	-							
FISH								
RAR#	Species	S F Conc.	J F M A M J J A S O N D	Spawning	Eggs	Larvae	Juveniles	Adults
	Alewife		X X X X X	_	_	_	_	FEB-JUN
	American shad		X X X X X	-	-	-	-	FEB-JUN
	Blueback herring		X X X X X	-	-	-	-	FEB-JUN
	Hickory shad		X X X X X	-	-	-	-	FEB-JUN
100	Striped bass		X X X X X X X X X X	-	-	-	-	OCT-JUN
199	Alewife American eel		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	_	_	_	- JAN-DEC	FEB-JUN SEP-DEC
	American shad		X X X X X X X X X X X X X X X X X X X	_	_	_	NOV-MAR	JAN-JUN
	Atlantic croaker		XXXXXXX	_	_	_	AUG-DEC	MAY-NOV
	Atlantic mackerel		X X	-	-	-	-	MAR-APR
	Atlantic menhaden		$\times \times $	-	-	MAY-NOV	JAN-DEC	MAY-OCT
	Atlantic silverside		X X X X X X X X X X X X		-	-	JAN-DEC	JAN-DEC
	Atlantic spadefish	С	$\begin{smallmatrix} & & & & & X & X & X & X \\ X & X & X & X$	_	_	_	AUG-OCT	AUG-NOV JAN-OCT
	Atlantic sturgeon Bay anchovy	C	X X X X X X X X X X X X X X X X X X X	APR-SEP	_	_	JAN-DEC	JAN-DEC
	Black drum		XXXXXXXX	APR-JUN	APR-JUN	APR-JUN	APR-NOV	APR-NOV
	Black sea bass		X X X X X X X	JUN-OCT	-	-	APR-OCT	APR-OCT
	Blueback herring		$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	-	-	-	NOV-MAR	JAN-JUN
	Bluefish		X X X X X X X X	-	-	-	MAY-NOV	APR-NOV
	Butterfish Clearnose skate		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	_	_	_	JUL-NOV -	MAR-NOV MAY-NOV
	Gobies		\times		APR-SEP	APR-OCT	JAN-DEC	JAN-DEC
	Harvestfish		X X X X X X X	-	-	-	JUL-OCT	APR-OCT
	Hickory shad		$X \ X \ X \ X \ X \ X \ X \ X$	-	-	-	NOV-MAR	JAN-JUN
	Hogchoker Inland silverside		X X X X X X X X X X X X X X X X X X X		MAY-SEP -	MAY-SEP -	JAN-DEC	JAN-DEC
	Minnows		$\begin{array}{cccccccccccccccccccccccccccccccccccc$		_	_	JAN-DEC JAN-DEC	JAN-DEC JAN-DEC
	Mummichog		\times		_	_	JAN-DEC	JAN-DEC
	Northern kingfish		X X X X X X X	-	-	-	-	APR-OCT
	Northern pipefish		X X X X X X X X X X X X		-	-	JAN-DEC	JAN-DEC
	Northern puffer Northern searobin		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	MAY-AUG MAY-JUL	_	_	MAR-OCT	MAR-OCT MAR-OCT
	Red drum		XXXXXXX	JUL-NOV	_	_	AUG-SEP	MAY-NOV
	Red hake		X X X X	-	-	-	FEB-MAY	FEB-MAY
								SEP-NOV
	Sandbar shark		XXXXX	_	-	-	MAY-OCT	MAY-OCT
	Scup (porgy) Silver hake		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	_	_	_	JUN-OCT -	MAR-OCT OCT-MAY
	Silver make Silver perch		X X X X X X X X X X X X X	_	_	_	JAN-DEC	JAN-DEC
	Spot		\times	_	_	DEC-APR	MAR-NOV	JAN-DEC
	Spotted hake		X X X X X X X X	-	-	-	MAR-JUN	MAR-JUN
								SEP-NOV
	Spotted seatrout Striped bass		XXXXXXX	MAY-JUL -	_	_	APR-NOV	APR-NOV
	Striped bass Striped killifish		$\begin{array}{cccccccccccccccccccccccccccccccccccc$		_	_	JAN-DEC JAN-DEC	JAN-DEC JAN-DEC
	Summer flounder		\times	-	_	OCT-MAY	JAN-DEC	APR-OCT
	Tautog		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	-	-	-	-	OCT-APR
	Threadfin shad		X X X X X X X X	-	-	-	-	FEB-MAY
	Weakfish		X	APR-AUG	_	MAY-AUG	APR-NOV	SEP-NOV APR-NOV
200	American shad		X	APR-AUG	_	MAI-AUG	APR-NOV	FEB-JUN
200	Hickory shad		XXXXX	-	_	_	_	FEB-JUN
	Striped bass		$X \times X \times$	-	-	-	_	OCT-JUN
201	American eel		$\times \times $	-	-	-	JAN-DEC	-
	Atlantic menhaden		X X X X X X X	- CDD CD	-	-	MAY-NOV	-
	Bay anchovy		X X X X X X X X X X X X X X X X X X X		- MAV-SED	- MAY-SED	JAN-DEC	JAN-DEC
	Hogchoker Killifish		$\begin{array}{cccccccccccccccccccccccccccccccccccc$		MAY-SEP -	MAY-SEP -	JAN-DEC JAN-DEC	JAN-DEC JAN-DEC
	Mummichog		X X X X X X X X X X X X X X X X X X X		_	_	JAN-DEC	JAN-DEC
	Silversides		$\times \times $		MAR-JUL	APR-SEP	JAN-DEC	JAN-DEC
205	American shad		X X X X X	-	-	-	-	FEB-JUN
	Hickory shad		XXXXX	- -	- -	_ 	-	FEB-JUN
200	Striped bass American shad		X X X X X X X X X X	FEB-JUN FEB-JUN	FEB-JUN FEB-JUN	FEB-JUN FEB-JUN	FEB-OCT	FEB-JUN FEB-JUN
206	American shad Hickory shad		X	FEB-JUN FEB-JUN	FEB-JUN FEB-JUN	FEB-JUN FEB-JUN	FEB-OCT FEB-OCT	FEB-JUN FEB-JUN
	Largemouth bass		\times		-	-	-	JAN-DEC
	Striped bass		$X \; X \; X$	FEB-JUN	FEB-JUN	FEB-JUN	FEB-OCT	FEB-JUN
207	American shad		X X X X X X X X X X	FEB-JUN	FEB-JUN	FEB-JUN	FEB-OCT	FEB-JUN

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.

Virginia: ESIMAP 65 (cont.)

BIOLOGICAL RESOURCES: (cont.)

FISH	FISH: (cont.)								
RAR#	Species	S F Conc.	J F M A M J J A S O N D	Spawning	Eggs	Larvae	Juveniles	Adults	
207	Hickory shad		X X X X X X X X X	FEB-JUN	FEB-JUN	FEB-JUN	FEB-OCT	FEB-JUN	
	Largemouth bass		$\times \times $	MAR-MAY	-	-	-	JAN-DEC	
208	American eel		imes ime	-	-	-	JAN-DEC	_	
	Atlantic croaker		$\times \times $	-	-	-	JAN-DEC	-	
	Atlantic menhaden		X X X X X X X	-	-	-	MAY-NOV	-	
	Atlantic silverside		$\times \times $	MAR-JUL	-	-	JAN-DEC	JAN-DEC	
	Bay anchovy		$\times \times $	APR-SEP	-	-	JAN-DEC	JAN-DEC	
	Hogchoker		$\times \times $	MAY-SEP	MAY-SEP	MAY-SEP	JAN-DEC	JAN-DEC	
	Mummichog		$\times \times $	APR-AUG	-	-	JAN-DEC	JAN-DEC	
	Silver perch		$\times \times $	-	-	-	JAN-DEC	JAN-DEC	
	Spot		X X X X X X X X X X X X X	-	-	DEC-APR	APR-NOV	-	
	Striped bass		X X X X X X	-	-	-	MAY-OCT	-	
	Summer flounder		$\times \times $	-	-		JAN-DEC	-	
	Weakfish		X X X X X X X X X X X X X	-	-	-	JAN-DEC	-	
	White perch		X X X X X X X X X X X X X	-	-	-	JAN-DEC	-	
INVE	RTEBRATE:								
RAR#	Species	S F Conc.	J F M A M J J A S O N D	Spawning	Eggs	Larvae	Juveniles	Adults	
139	Blue crab		X X X X X X X X X X X X	-	-	MAY-NOV	JAN-DEC	JAN-DEC	
199	Blue crab		$X\;X\;X\;X\;X\;X\;X\;X\;$	-	-	MAY-NOV	JAN-DEC	JAN-DEC	
	Eastern oyster		X X X X X X X X X X X X X	JUN-SEP	JUN-SEP	JUN-SEP	JAN-DEC	JAN-DEC	
	Horseshoe crab		$X\;X\;X\;X\;X\;X\;X\;X\;$	-	-	-	JAN-DEC	JAN-DEC	
	Northern quahog (hard clam)		$X\;X\;X\;X\;X\;X\;X\;X\;$	MAY-OCT	MAY-OCT	MAY-OCT	JAN-DEC	JAN-DEC	
208	Blue crab		$X\;X\;X\;X\;X\;X\;X\;X\;$	-	-	MAY-NOV	JAN-DEC	JAN-DEC	
	Eastern oyster		imes ime	JUN-SEP	JUN-SEP	JUN-SEP	JAN-DEC	JAN-DEC	
209	Blue crab		x	-	-	MAY-NOV	JAN-DEC	JAN-DEC	
MARI	NE MAMMAL:								
RAR#	Species	S F Conc.	J F M A M J J A S O N D	Mating	Calving	Pupping	Molting		
	Bottlenose dolphin		x x x x x x x	-	-	-	-		
	Harbor porpoise		X X X X X X	-	-	-	-		
208	Bottlenose dolphin		X X X X X X X	-	-	-	_		
	Harbor porpoise		X X X X X X	-	-	-	_		
209	Bottlenose dolphin		X X X X X X X	-	-	-	-		
	Harbor porpoise		X X X X X X X	-	-	-	-		
REPT	ILE:								
RAR#	Species	S F Conc.	J F M A M J J A S O N D	Nesting	Hatching	Internesti	ng Juvenil	es Adults	
199	Green sea turtle	т т	x x x x x x x	_	_	_	MAY-NOV		
	Kemp's ridley sea turtle	E E	X X X X X X X	-	-	-	MAY-NOV	_	
	Leatherback sea turtle	E E	X X X X X X X	-	-	-	-	MAY-NOV	
	Loggerhead sea turtle	T T	X X X X X X X	-	-	-	MAY-NOV	_	
209	Green sea turtle	ТТ	X X X X X X X	-	-	_	MAY-NOV	_	
	Kemp's ridley sea turtle	E E	X X X X X X X	-	-	-	MAY-NOV	_	
	Leatherback sea turtle	E E	X X X X X X X	-	-	-	-	MAY-NOV	
	Loggerhead sea turtle	ТТ	X X X X X X X	-	-	-	MAY-NOV	_	
====									