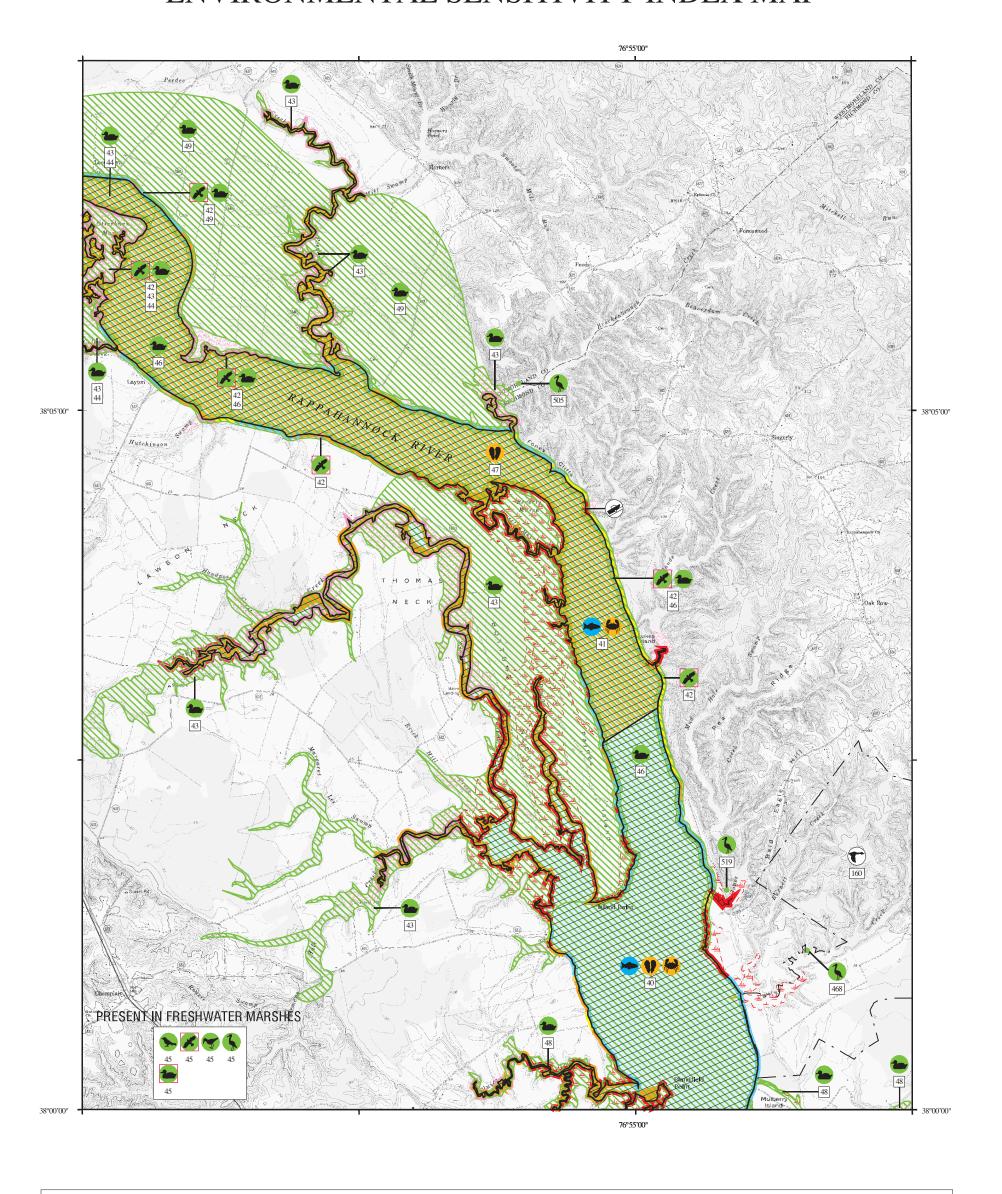
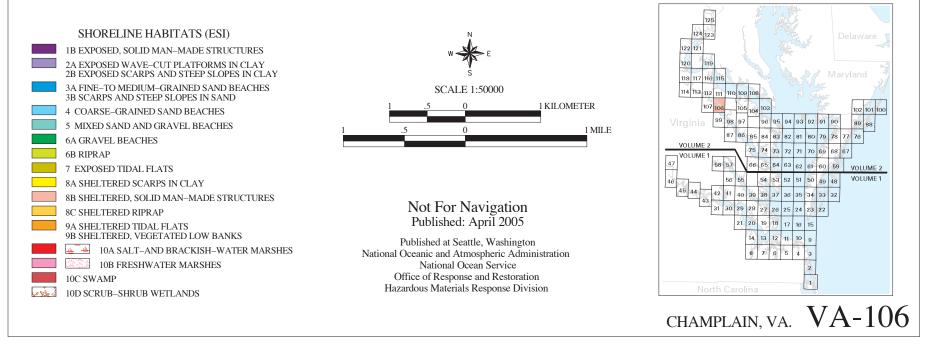
ENVIRONMENTAL SENSITIVITY INDEX MAP





Virginia: ESIMAP 106

BIOLOGICAL RESOURCES:

В	IRD	:

BIRD								
RAR#	Species	S F Conc.	J F M A M J J A S O N D	Nesting	Migrating	Molting		
	Bald eagle	T T HIGH	X X X X X X X X	-	-	_	_	
	American black duck	HIGH	XXXX	_	-	_		
	American wigeon			-	-	_		
	Canada goose	VERY HIGH	X X X X X X X X		-	-		
	Gadwall Green-winged teal	HIGH	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		_	_		
	Mallard	HIGH	X X X X X X X X X		_	_		
	Northern pintail		X X X X X X X X X		_	_		
44	Bufflehead	HIGH			-	-		
	Canvasback	HIGH	X X X X X X X X		-	-		
	Common goldeneye	MODERATE	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		_	_		
	Long-tailed duck Mergansers	HIGH	X X X X X X X X		_	_		
	Ring-necked duck	VERY HIGH	X X X X X X X X		-	_		
	Ruddy duck	HIGH		-	-	_		
	Tundra swan	HIGH	$X \ X \ X \ X \qquad \qquad X \ X \ X$	-	-	-		
45	Bald eagle	ТТ	XXXX	-	-	-		
	Common moorhen Great blue heron	С	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	_	_	_		
	Greater yellowlegs		XXXX	_	_	_		
	Green heron		X X X X	-	-	-		
	King rail		X X X X	-	-	-		
	Least bittern		XXXX	-	-	-		
	Marsh wren Osprey		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	- MAR-AUG	_	_		
	Sora		XXXX	-	_	_		
	Swamp sparrow		XXXX	_	_	_		
	Virginia rail		X X X X	-	-	_		
	Wood duck		$\times \times $	APR-JUN	-	_		
	Canada goose	VERY HIGH	X X X X X X X X X	-	-	-		
48	American black duck American wigeon	HIGH	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	_	-	_		
	Canada goose	VERY HIGH	X X X X X X X X		_	_		
	Gadwall		X X X X X X X X X		-	-		
	Green-winged teal	MODERATE	$X \ X \ X \ X \qquad \qquad X \ X \ X$		-			
	Mallard	HIGH	X X X X X X X X		-	_		
10	Northern pintail Canada goose	VERY HIGH	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		_	_		
4.5	Tundra swan	HIGH	X X X X X X X X	_	_	_		
468	Great blue heron	50 NESTS	$\mathbf{x} \mathbf{x} \mathbf{x} \mathbf{x} \mathbf{x} \mathbf{x} \mathbf{x} \mathbf{x} $	MAY-JUL	_	_		
	Great blue heron	45 NESTS	$\times \times $		-	-		
519	Great blue heron	61 NESTS	X X X X X X X X X X X X X	MAY-JUL	-	-		
FISH	:							
_	Species	S F Conc.	J F M A M J J A S O N D	Snawning	Eaas	Larvae	Juveniles	Adults
				_				
40	Alewife		X X X X X X X X X X	-	FEB-JUN	FEB-JUN	FEB-OCT	FEB-JUN
	American shad		X X X X X X X X X	-	FEB-JUN	FEB-JUN	FEB-OCT	FEB-JUN
	Atlantic menhaden Atlantic silverside		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	— МЛ D — ТПТ	_	_	MAY-NOV JAN-DEC	- JAN-DEC
	Banded killifish		X X X X X X X X X X X X X X X X X X X		_	_	JAN-DEC	JAN-DEC
	Bay anchovy		imes ime		_	_	JAN-DEC	JAN-DEC
	Black crappie		$\times \times $	MAR-JUL	-	-	JAN-DEC	JAN-DEC
	Blue catfish		X X X X X X X X X X X X X		-	-	JAN-DEC	JAN-DEC
	Blueback herring Channel catfish		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	- M7 D _ M7 V	FEB-JUN -	FEB-JUN -	FEB-OCT JAN-DEC	FEB-JUN JAN-DEC
	Hickory shad		XXXXXXXXX	- MAK-MAI	FEB-JUN	FEB-JUN	FEB-OCT	FEB-JUN
	Hogchoker		$\times \times $			MAY-SEP	JAN-DEC	JAN-DEC
	Inland silverside		$\times \times $	APR-MAY	-	-	JAN-DEC	JAN-DEC
	Largemouth bass		$\times \times $		-	_	-	JAN-DEC
	Longnose gar Minnows		X X X X X X X X X X X X X X X X X X X		-	_	JAN-DEC	JAN-DEC
	Mummichoq		$\begin{array}{cccccccccccccccccccccccccccccccccccc$		_	_	JAN-DEC JAN-DEC	JAN-DEC JAN-DEC
	Striped bass		XXXXXXXXX	FEB-JUN	FEB-JUN	FEB-JUN	FEB-OCT	FEB-JUN
	Tessellated darter		imes ime	APR-JUN	-	-	-	JAN-DEC
	White catfish		$\times \times $		-	-	JAN-DEC	JAN-DEC
	White perch		X X X X X X X X X X X X X		APR-JUN	APR-JUN	JAN-DEC	JAN-DEC
<i>1</i> 1	Yellow perch Alewife		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	APK-JUN -	- FEB-JUN	- FEB-JUN	JAN-DEC FEB-OCT	JAN-DEC FEB-JUN
41	American shad		XXXXXXXXX	_	FEB-JUN	FEB-JUN	FEB-OCT	FEB-JUN
	Atlantic menhaden		X X X X X X X	-	-	-	MAY-NOV	-
	Banded killifish		$\times \times $		-	-	JAN-DEC	JAN-DEC
	Black crappie		X X X X X X X X X X X X X		-	-	JAN-DEC	JAN-DEC
	Blue catfish Blueback herring		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	APR-JUN -	- FEB-JUN	- FEB-JUN	JAN-DEC FEB-OCT	JAN-DEC FEB-JUN
	Bluegill		X X X X X X X X X X X X X X X X X X X		-	-	-	JAN-DEC
	Channel catfish		$\times \times $		-	-	JAN-DEC	JAN-DEC
	Hickory shad		X X X X X X X X X X	-	FEB-JUN	FEB-JUN	FEB-OCT	FEB-JUN
	Hogchoker		X X X X X X X X X X X X		MAY-SEP	MAY-SEP	JAN-DEC	JAN-DEC
	Inland silverside		X X X X X X X X X X X X X X X X X X X		-	_	JAN-DEC -	JAN-DEC
	Largemouth bass Longnose gar		$\begin{array}{cccccccccccccccccccccccccccccccccccc$		-	_	JAN-DEC	JAN-DEC JAN-DEC
	Minnows		$X \times X \times X \times X \times X \times X \times X$		_	-	JAN-DEC	JAN-DEC
	Pumpkinseed		$\times \times $		-	-	JAN-DEC	JAN-DEC
	Redbreast sunfish		X X X X X X X X		-	-	JAN-DEC	JAN-DEC
				FEB-JUN	FEB-JUN	FEB-JUN	FEB-OCT	FEB-JUN
	Striped bass		X X X X X X X X X					TANT DOG
	Striped bass Tessellated darter		$\times \times $	APR-JUN	-	-	-	JAN-DEC JAN-DEC
	Striped bass			APR-JUN MAY-JUN		-		JAN-DEC JAN-DEC JAN-DEC
	Striped bass Tessellated darter White catfish		$\begin{smallmatrix} & \times & $	APR-JUN MAY-JUN APR-JUN	-	- -	- JAN-DEC	JAN-DEC
T N 10 10 10 10 10 10 10 10 10 10 10 10 10	Striped bass Tessellated darter White catfish White perch Yellow perch		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	APR-JUN MAY-JUN APR-JUN	- APR-JUN	- - APR-JUN	- JAN-DEC JAN-DEC	JAN-DEC JAN-DEC
	Striped bass Tessellated darter White catfish White perch Yellow perch RTEBRATE:	0 T 0	X X X X X X X X X X X X X X X X X X X	APR-JUN MAY-JUN APR-JUN APR-JUN	- APR-JUN -	- - APR-JUN -	JAN-DEC JAN-DEC JAN-DEC	JAN-DEC JAN-DEC JAN-DEC
INVE:	Striped bass Tessellated darter White catfish White perch Yellow perch	S F Conc.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	APR-JUN MAY-JUN APR-JUN APR-JUN	- APR-JUN -	- - APR-JUN	- JAN-DEC JAN-DEC	JAN-DEC JAN-DEC
RAR#	Striped bass Tessellated darter White catfish White perch Yellow perch RTEBRATE:	S F Conc.	X X X X X X X X X X X X X X X X X X X	APR-JUN MAY-JUN APR-JUN APR-JUN	- APR-JUN -	- - APR-JUN -	JAN-DEC JAN-DEC JAN-DEC	JAN-DEC JAN-DEC JAN-DEC
RAR# 40	Striped bass Tessellated darter White catfish White perch Yellow perch RTEBRATE: Species Blue crab Eastern oyster	S F Conc.	X X X X X X X X X X X X X X X X X X X	APR-JUN MAY-JUN APR-JUN APR-JUN Spawning	- APR-JUN -	- - APR-JUN - - Larvae	JAN-DEC JAN-DEC JAN-DEC JAN-DEC	JAN-DEC JAN-DEC JAN-DEC Adults
RAR# 40	Striped bass Tessellated darter White catfish White perch Yellow perch RTEBRATE: Species Blue crab	S F Conc.	X X X X X X X X X X X X X X X X X X X	APR-JUN MAY-JUN APR-JUN APR-JUN Spawning JUN-SEP	APR-JUN - Eggs JUN-SEP	APR-JUN - Larvae MAY-NOV	JAN-DEC JAN-DEC JAN-DEC Juveniles JAN-DEC	JAN-DEC JAN-DEC JAN-DEC Adults JAN-DEC

HUMAN USE RESOURCES:

47 Eastern oyster

WILDLIFE REFUGE:

HUN#	Name	Contact	Phone
160	RAPPAHANNOCK RIVER VALLEY NWR	U.S. FISH AND WILDLIFE SERVICE	804/333-1470

X X X X X X X X X X X JUN-SEP JUN-SEP JUN-SEP JAN-DEC JAN-DEC