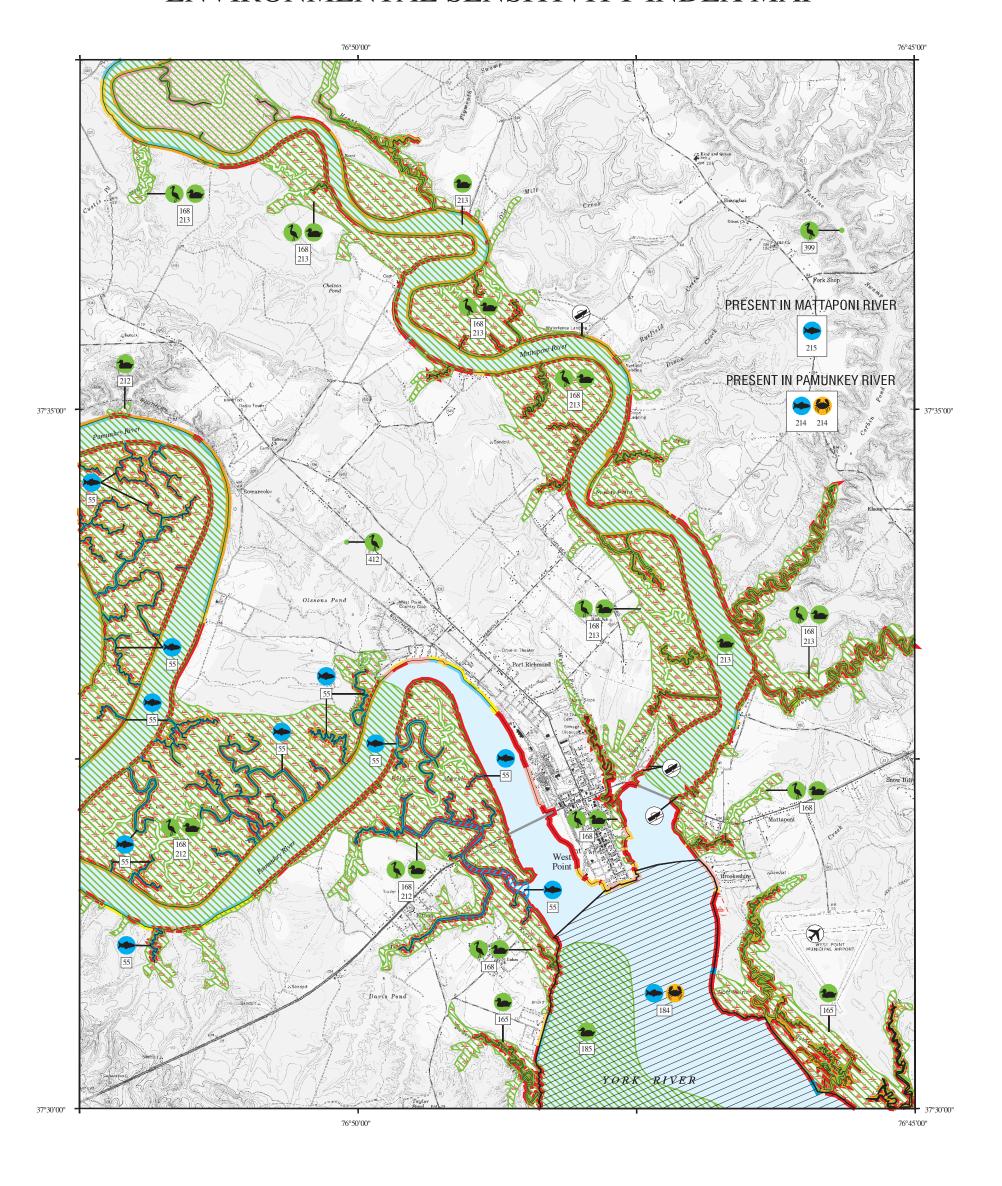
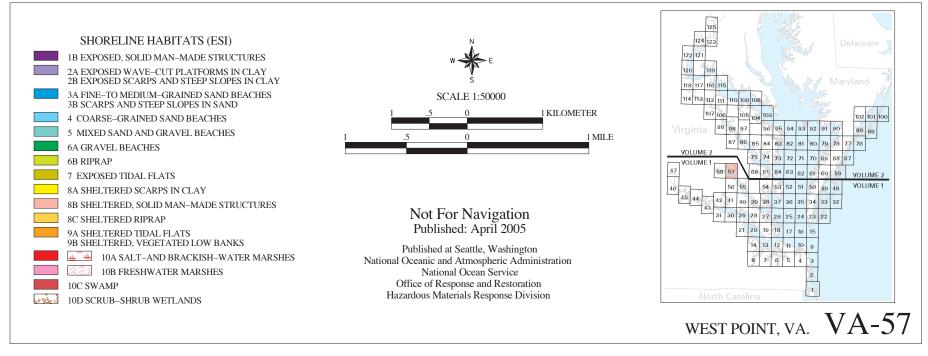
## ENVIRONMENTAL SENSITIVITY INDEX MAP





## Virginia: ESIMAP 57

## 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	_	
165	American black duck	MODERATE	X X X X X X X X	-	_	_		
	American wigeon		$\times \times $	-	-	-		
	Canada goose Green-winged teal	MODERATE	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	_	_	_		
	Mallard		X X X X X X X X X	-	_	-		
168	King rail	VERY HIGH	X X X X X X X X X X X X X	APR-MAY	-	-		
	Sora Virginia rail	VERY HIGH VERY HIGH	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	- APR-MAY	_	_		
	Wood duck	VERT HIGH	$\times$		-	-		
185	Bufflehead	MODERATE	X X X X X X X X	-	-	-		
	Canvasback Mergansers	HIGH	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	_	_	_		
	Ring-necked duck	HIGH	X X X X X X X X	-	-	-		
	Ruddy duck	HIGH	X X X X X X X X	-	-	-		
	Scaup Tundra swan	MODERATE	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	_	_ _	_		
212	American black duck	HIGH	X X X X X X X X	-	-	-		
	American wigeon		X X X X X X X X X	-	-	-		
	Canada goose Canvasback	HIGH	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	_	_	_		
	Green-winged teal	MODERATE	X X X X X X X X	-	_	-		
	Mallard	HIGH	X X X X X X X X	-	-	-		
	Mergansers Northern pintail		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	_	_	_		
	Ring-necked duck	MODERATE	X X X X X X X X	-	_	-		
010	Tundra swan		X X X X X X X X X	-	-	-		
213	American black duck American wigeon	MODERATE	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	_	_	_		
	Canada goose	HIGH	X X X X X X X X X	-	_	-		
	Canvasback		$X\;X\;X\;X$	-	-	-		
	Gadwall Green-winged teal		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	_	_	_		
	Mallard	MODERATE	X X X X X X X X	-	_	-		
	Ring-necked duck	60	X X X X X X X X	-	-	-		
	Great blue heron Great blue heron	63 NESTS 6 NESTS	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		_	_		
		O NEOTO		11111 0011				
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	FEB-JUN	-	-	FEB-JUN
	Blueback herring		$X \ X \ X \ X \ X$	FEB-JUN	FEB-JUN	-	-	FEB-JUN
184	Alewife		XXXXX	-	-	-	- TAN DEG	FEB-JUN
	American eel American shad		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	_	_	_	JAN-DEC -	- FEB-JUN
	Atlantic croaker		$\times \times $	-	-	-	JAN-DEC	-
	Atlantic menhaden Atlantic silverside		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	- MAD TIII	-	-	MAY-NOV JAN-DEC	- JAN-DEC
	Bay anchovy		X X X X X X X X X X X X X X X X X X X		_	_	JAN-DEC	JAN-DEC JAN-DEC
	Blueback herring		$X \ X \ X \ X \ X$	-	-	-	-	FEB-JUN
	Channel catfish		X X X X X X X X X X X X X	-	-	-	-	JAN-DEC
	Hickory shad Hogchoker		X X X X X X X X X X X X X X X X X X X	_	_	_	JAN-DEC	FEB-JUN -
	Longnose gar		$\times \times $	MAY-JUN	-	-	-	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
	Silver perch Spot		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	_	_	- DEC-APR	JAN-DEC MAR-NOV	JAN-DEC JAN-DEC
	Striped bass		$X \times X \times$	-	_	-	-	OCT-JUN
	Striped killifish		X X X X X X X X X X X X X		-	-	JAN-DEC	JAN-DEC
	Summer flounder Weakfish		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	-	_	_	JAN-DEC JAN-DEC	-
	White catfish		imes  ime	MAY-JUN	-	-	JAN-DEC	JAN-DEC
014	White perch		X X X X X X X X X X X X X	-	-	-	JAN-DEC	JAN-DEC
214	Alewife American eel		$\begin{array}{cccccccccccccccccccccccccccccccccccc$		FEB-JUN -	FEB-JUN -	FEB-OCT JAN-DEC	FEB-JUN -
	American shad		$\mathbf{x} \ \mathbf{x} \ \mathbf{x}$	-	FEB-JUN		FEB-OCT	FEB-JUN
	Atlantic croaker Atlantic menhaden		$\begin{array}{cccccccccccccccccccccccccccccccccccc$		-	_	JAN-DEC	-
	Bay anchovy		X X X X X X X X X X X X X		_	_	MAY-NOV JAN-DEC	JAN-DEC
	Black crappie		$\times \times $		_	-	JAN-DEC	JAN-DEC
	Blue catfish		X X X X X X X X X X X X X		- -	- TIN	JAN-DEC	JAN-DEC
	Blueback herring Bluegill		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	- APR-SEP	FEB-JUN -	FEB-JUN -	FEB-OCT	FEB-JUN JAN-DEC
	Channel catfish		$\mathbf{x} \ \mathbf{x} \ \mathbf{x}$		-	-	JAN-DEC	JAN-DEC
	Hickory shad		X X X X X X X X X	-	FEB-JUN		FEB-OCT	FEB-JUN
	Hogchoker Inland silverside		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	- APR-MAY	-	_	JAN-DEC JAN-DEC	- JAN-DEC
	Largemouth bass		$\times \times $		-	-	-	JAN-DEC
	Longnose gar Minnows		$\begin{array}{cccccccccccccccccccccccccccccccccccc$		-	- -	JAN-DEC JAN-DEC	JAN-DEC JAN-DEC
	Mummichog		$X \times X \times$		_	_	JAN-DEC	JAN-DEC
	Pumpkinseed		$\times \times $	MAR-JUN	-	-	JAN-DEC	JAN-DEC
	Redbreast sunfish Striped bass		X X X X X X X X X X X X X	JUN-JUL FEB-JUN	- FEB-JUN	- FEB-JUN	JAN-DEC FEB-OCT	JAN-DEC FEB-JUN
	Tessellated darter		$\begin{array}{cccccccccccccccccccccccccccccccccccc$		- -	- -	-	JAN-DEC
	White catfish		$\times \times $	MAY-JUN	_	-	JAN-DEC	JAN-DEC
	White perch		X X X X X X X X X X X X X X X X X X X	- TIM	-	_	JAN-DEC	JAN-DEC
215	Yellow perch American eel		$\begin{array}{cccccccccccccccccccccccccccccccccccc$		_	_	JAN-DEC JAN-DEC	JAN-DEC -
	American shad		$x \; x \; x$	-			FEB-OCT	-
	Atlantic croaker Atlantic menhaden		X X X X X X X X X X X X	-	-	_	JAN-DEC	-
	Bay anchovy		$\begin{array}{cccccccccccccccccccccccccccccccccccc$		_	_	MAY-NOV JAN-DEC	JAN-DEC
	Black crappie		$\times \times $		_	-	JAN-DEC	JAN-DEC
	Blue catfish		X X X X X X X X X X X X X X X X X X X		-	-	JAN-DEC	JAN-DEC
	Bluegill Channel catfish		$\begin{array}{cccccccccccccccccccccccccccccccccccc$		-	-	- JAN-DEC	JAN-DEC JAN-DEC
	Hickory shad		$\times \times $	-	FEB-JUN	FEB-JUN	FEB-OCT	FEB-JUN
	Hogchoker		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	- 7 DD <b>-</b> M7 V	-	-	JAN-DEC	JAN-DEC
	Inland silverside Largemouth bass		$\begin{array}{cccccccccccccccccccccccccccccccccccc$		_	_	JAN-DEC -	JAN-DEC JAN-DEC
	Longnose gar		$\times \times $	MAY-JUN	-	-	JAN-DEC	JAN-DEC
	Minnows Mummichog		X X X X X X X X X X X X X X X X X X X		-	-	JAN-DEC	JAN-DEC
	Mummichog Pumpkinseed		$\begin{array}{cccccccccccccccccccccccccccccccccccc$		-	_	JAN-DEC JAN-DEC	JAN-DEC JAN-DEC
	Redbreast sunfish		$\times \times $	JUN-JUL	-	-	JAN-DEC	JAN-DEC
	Striped bass		X X X X X X X X X X X X X X X X X X X	FEB-JUN	FEB-JUN	FEB-JUN	FEB-OCT	FEB-JUN
	Tessellated darter Weakfish		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	APR-JUN -	-	-	- JAN-DEC	JAN-DEC -
							-	

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 57 (cont.)

BIOLOGICAL RESOURCES: (cont.)

FISH: (cont.)

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Spawning 1	Eggs	Larvae	Juveniles	Adults
215	White catfish		$X\ X\ X$	MAY-JUN	-	-	JAN-DEC	JAN-DEC
	White perch		$X\ X\ X\ X\ X\ X\ X\ X\ X\ X\ X$	-	-	-	JAN-DEC	JAN-DEC
	Yellow perch		$ \begin{smallmatrix} X & X & X & X & X & X & X & X & X & X$	APR-JUN	-	-	JAN-DEC	JAN-DEC
	Alewife		$\times \times $	-	-	-	FEB-OCT	-
INVE	RTEBRATE:							
RAR#	Species	S F Conc.	J F M A M J J A S O N D	Spawning 1	Eggs	Larvae	Juveniles	Adults
184	Blue crab		X X X X X X X X X X X X		-	MAY-NOV	JAN-DEC	JAN-DEC
214	Blue crab		X X X X X X X X X X X X X	_	_	MAY-NOV	JAN-DEC	JAN-DEC