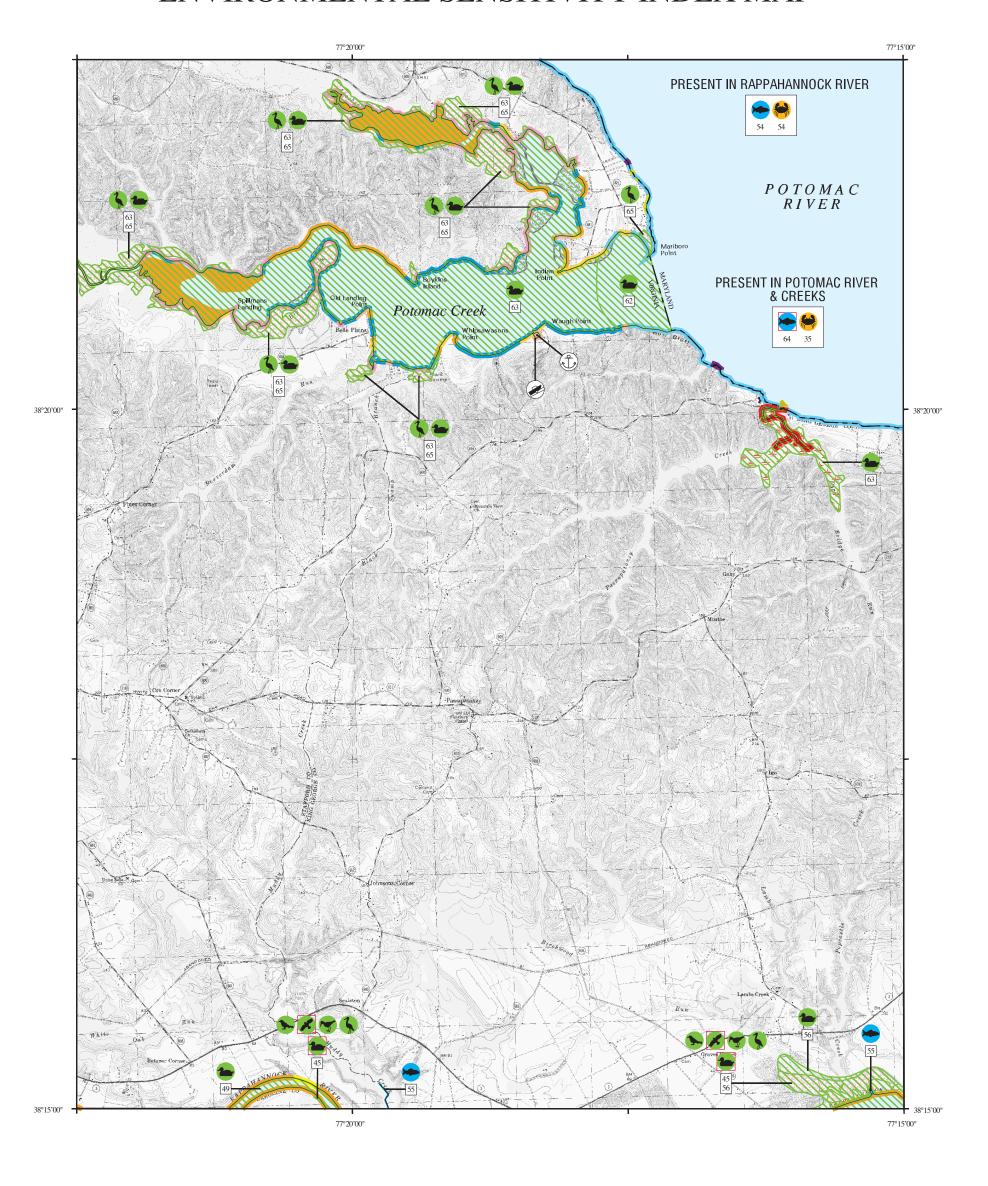
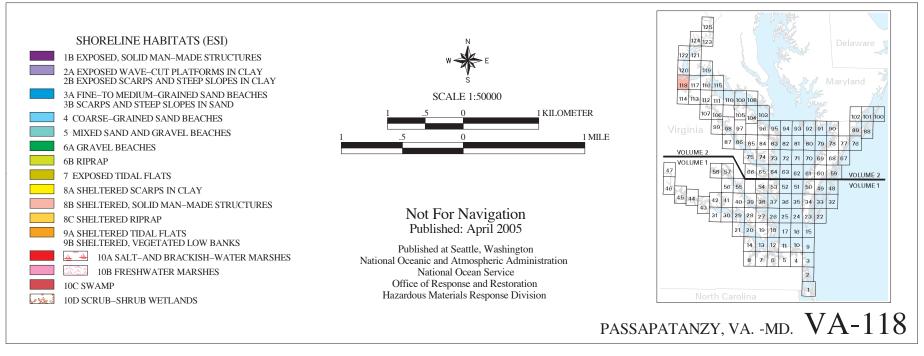
ENVIRONMENTAL SENSITIVITY INDEX MAP





Virginia: ESIMAP 118

BIOLOGICAL RESOURCES:

Hickory shad

Longnose gar

Largemouth bass

Redbreast sunfish

Spotted seatrout

Striped killifish

Tessellated darter

Summer flounder

Threadfin shad Weakfish

White catfish

White perch

Yellow perch

Shortnose sturgeon

Hogchoker

Minnows

Mummichoa

Pumpkinseed

Silver perch

Striped bass

Silversides

Spot

BIRD:

RAR# Species

4.5	Bald eagle	ТТ	XXXX	_	_	_		
10								
	Common moorhen	C	X X X X	-	-	-		
	Great blue heron		X X X X	_	_	_		
	Greater yellowlegs		X X X X	_	_	_		
				_	_	_		
	Green heron		X X X X	-	-	-		
	King rail		X X X X	_	_	_		
	=							
	Least bittern		XXXX	-	-	_		
	Marsh wren		X X X X	_	_	_		
				MAD ATTO				
	Osprey		X X X X X X	MAR-AUG	-	-		
	Sora		X X X X	_	_	-		
				_	_	_		
	Swamp sparrow		X X X X	_	_	_		
	Virginia rail		X X X X	-	-	_		
	Wood duck		imes ime	7 DD = TIIN	_	_		
49	Canada goose	VERY HIGH	$X X X X \qquad X X X$	-	-	-		
	Tundra swan	HIGH	X X X X X X X X X X X X X X X X X X X	_	_	_		
56	American black duck	HIGH	X X X X X X X X X	_	-	-		
	American wigeon		X X X X X X X X X X X X X X X X X X X	_	_	_		
	-							
	Canada goose	VERY HIGH	X X X X X X X X X X X X X X X X X X X	-	-	-		
	Gadwall		X X X X X X X X X X X X X X X X X X X	_	_	_		
		IIICII		_				
	Green-winged teal	HIGH	X X X X X X X X X	-	-	-		
	Mallard	HIGH	X X X X X X X X X X	-	-	-		
	Northern pintail		X X X X X X X X X	_	_	_		
	÷							
	Tundra swan	HIGH	X X X X X X X X X X X X X X X X X X X	-	-	-		
62	Bufflehead		X X X X X X X X X X X X X X X X X X X	_	_	_		
02								
	Canvasback	HIGH	$X X X X \qquad X X X$	-	-	-		
	Mergansers	MODERATE	X X X X X X X X X X X X X X X X X X X	_	_	_		
	3							
	Ring-necked duck	HIGH	X X X X X X X X X	-	-	-		
	Ruddy duck	MODERATE	X X X X X X X X X X X X X X X X X X X	_	_	_		
	-							
	Scaup	MODERATE	X X X X X X X X X	-	-	-		
	Tundra swan	HIGH	X X X X X X X X X X X X X X X X X X X	_	_	_		
63	American black duck	HIGH	X X X X X X X X X	-	-	-		
	American coot		X X X X X X X X X X X X X X X X X X X	_	_	_		
	American wigeon		X X X X X X X X X	-	-	-		
	Bufflehead		X X X X X X X X X X X X X X X X X X X	_	_	_		
				_	_	_		
	Canada goose	HIGH	X X X X X X X X X X	-	-	_		
	_			_				
	Mallard	HIGH	X X X X X X X X X X X X X X X X X X X	-	-	-		
	Mergansers	MODERATE	X X X X X X X X X X X X X X X X X X X	_	_	-		
	-			_				
	Northern pintail		X X X X X X X X X X X X X X X X X X X	-	-	-		
	Wood duck		X X X X X X X X X X X X X X	APR-JUN	-	_		
CE				_				
65	Rails		X X X X X X X X X X X X X	-	-	-		
	Sora		X X X X X X X X X X X X X X	_	_	_		
	•							
TOTOTI								
FISH	•							
		C T C		Q		T	T	3 4-14
	Species	S F Conc.	J F M A M J J A S O N D	Spawning	Eggs	Larvae	Juveniles	Adults
		S F Conc.	J F M A M J J A S O N D	Spawning	Eggs	Larvae	Juveniles	Adults
RAR#	Species	S F Conc.						
RAR#	SpeciesAlewife	S F Conc.		-	FEB-JUN	FEB-JUN	FEB-OCT	FEB-JUN
RAR#	Species	S F Conc.						
RAR#	Species Alewife American shad	S F Conc.	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-JUN FEB-JUN	FEB-OCT	FEB-JUN FEB-JUN
RAR#	Alewife American shad Atlantic menhaden	S F Conc.	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-JUN	FEB-OCT FEB-OCT MAY-NOV	FEB-JUN FEB-JUN -
RAR#	Species Alewife American shad	S F Conc.	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-JUN FEB-JUN	FEB-OCT	FEB-JUN FEB-JUN
RAR#	Alewife American shad Atlantic menhaden Banded killifish	S F Conc.	X X X X X X X X X X X X X X X X X X X	FEB-JUN - APR-SEP	FEB-JUN FEB-JUN -	FEB-JUN FEB-JUN - -	FEB-OCT FEB-OCT MAY-NOV JAN-DEC	FEB-JUN FEB-JUN - JAN-DEC
RAR#	Alewife American shad Atlantic menhaden Banded killifish Black crappie	S F Conc.	X X X X X X X X X X X X X X X X X X X	FEB-JUN - APR-SEP MAR-JUL	FEB-JUN FEB-JUN - - -	FEB-JUN FEB-JUN - - -	FEB-OCT FEB-OCT MAY-NOV JAN-DEC JAN-DEC	FEB-JUN FEB-JUN - JAN-DEC JAN-DEC
RAR#	Alewife American shad Atlantic menhaden Banded killifish	S F Conc.	X X X X X X X X X X X X X X X X X X X	FEB-JUN - APR-SEP	FEB-JUN FEB-JUN -	FEB-JUN FEB-JUN - -	FEB-OCT FEB-OCT MAY-NOV JAN-DEC	FEB-JUN FEB-JUN - JAN-DEC
RAR#	Alewife American shad Atlantic menhaden Banded killifish Black crappie Blueback herring	S F Conc.	X X X X X X X X X X X X X X X X X X X	FEB-JUN - APR-SEP MAR-JUL	FEB-JUN FEB-JUN FEB-JUN	FEB-JUN FEB-JUN FEB-JUN	FEB-OCT FEB-OCT MAY-NOV JAN-DEC JAN-DEC FEB-OCT	FEB-JUN FEB-JUN - JAN-DEC JAN-DEC FEB-JUN
RAR#	Alewife American shad Atlantic menhaden Banded killifish Black crappie Blueback herring Bluegill	S F Conc.	X X X X X X X X X X X X X X X X X X X	FEB-JUN - APR-SEP MAR-JUL - APR-SEP	FEB-JUN FEB-JUN FEB-JUN -	FEB-JUN FEB-JUN FEB-JUN -	FEB-OCT FEB-OCT MAY-NOV JAN-DEC JAN-DEC FEB-OCT	FEB-JUN FEB-JUN - JAN-DEC JAN-DEC FEB-JUN JAN-DEC
RAR#	Alewife American shad Atlantic menhaden Banded killifish Black crappie Blueback herring	S F Conc.	X X X X X X X X X X X X X X X X X X X	FEB-JUN - APR-SEP MAR-JUL - APR-SEP	FEB-JUN FEB-JUN FEB-JUN	FEB-JUN FEB-JUN FEB-JUN	FEB-OCT FEB-OCT MAY-NOV JAN-DEC JAN-DEC FEB-OCT	FEB-JUN FEB-JUN - JAN-DEC JAN-DEC FEB-JUN
RAR#	Alewife American shad Atlantic menhaden Banded killifish Black crappie Blueback herring Bluegill Channel catfish	S F Conc.	X X X X X X X X X X X X X X X X X X X	FEB-JUN - APR-SEP MAR-JUL - APR-SEP MAR-MAY	FEB-JUN FEB-JUN FEB-JUN - FEB-JUN	FEB-JUN FEB-JUN FEB-JUN - FEB-JUN	FEB-OCT FEB-OCT MAY-NOV JAN-DEC JAN-DEC FEB-OCT - JAN-DEC	FEB-JUN FEB-JUN - JAN-DEC JAN-DEC FEB-JUN JAN-DEC JAN-DEC JAN-DEC
RAR#	Alewife American shad Atlantic menhaden Banded killifish Black crappie Blueback herring Bluegill Channel catfish Hickory shad	S F Conc.	X X X X X X X X X X X X X X X X X X X	FEB-JUN APR-SEP MAR-JUL APR-SEP MAR-MAY FEB-JUN	FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN	FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN	FEB-OCT FEB-OCT MAY-NOV JAN-DEC JAN-DEC FEB-OCT JAN-DEC FEB-OCT	FEB-JUN FEB-JUN - JAN-DEC JAN-DEC FEB-JUN JAN-DEC JAN-DEC JAN-DEC FEB-JUN
RAR#	Alewife American shad Atlantic menhaden Banded killifish Black crappie Blueback herring Bluegill Channel catfish	S F Conc.	X X X X X X X X X X X X X X X X X X X	FEB-JUN APR-SEP MAR-JUL APR-SEP MAR-MAY FEB-JUN	FEB-JUN FEB-JUN FEB-JUN - FEB-JUN	FEB-JUN FEB-JUN FEB-JUN - FEB-JUN	FEB-OCT FEB-OCT MAY-NOV JAN-DEC JAN-DEC FEB-OCT - JAN-DEC	FEB-JUN FEB-JUN - JAN-DEC JAN-DEC FEB-JUN JAN-DEC JAN-DEC JAN-DEC
RAR#	Alewife American shad Atlantic menhaden Banded killifish Black crappie Blueback herring Bluegill Channel catfish Hickory shad	S F Conc.	X X X X X X X X X X X X X X X X X X X	FEB-JUN APR-SEP MAR-JUL APR-SEP MAR-MAY FEB-JUN MAY-SEP	FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN	FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN	FEB-OCT FEB-OCT MAY-NOV JAN-DEC JAN-DEC FEB-OCT JAN-DEC FEB-OCT	FEB-JUN FEB-JUN - JAN-DEC JAN-DEC FEB-JUN JAN-DEC JAN-DEC JAN-DEC FEB-JUN
RAR#	Alewife American shad Atlantic menhaden Banded killifish Black crappie Blueback herring Bluegill Channel catfish Hickory shad Hogchoker Inland silverside	S F Conc.		FEB-JUN APR-SEP MAR-JUL APR-SEP MAR-MAY FEB-JUN MAY-SEP APR-MAY	FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-OCT FEB-OCT MAY-NOV JAN-DEC JAN-DEC FEB-OCT JAN-DEC FEB-OCT JAN-DEC JAN-DEC JAN-DEC JAN-DEC JAN-DEC JAN-DEC	FEB-JUN FEB-JUN JAN-DEC JAN-DEC JAN-DEC JAN-DEC FEB-JUN JAN-DEC FEB-JUN JAN-DEC JAN-DEC JAN-DEC JAN-DEC
RAR#	Alewife American shad Atlantic menhaden Banded killifish Black crappie Blueback herring Bluegill Channel catfish Hickory shad Hogchoker Inland silverside Largemouth bass	S F Conc.		FEB-JUN APR-SEP MAR-JUL APR-SEP MAR-MAY FEB-JUN MAY-SEP APR-MAY MAR-MAY	FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-OCT FEB-OCT MAY-NOV JAN-DEC JAN-DEC FEB-OCT JAN-DEC FEB-OCT JAN-DEC FEB-OCT JAN-DEC	FEB-JUN FEB-JUN JAN-DEC JAN-DEC FEB-JUN JAN-DEC JAN-DEC FEB-JUN JAN-DEC JAN-DEC JAN-DEC JAN-DEC JAN-DEC JAN-DEC
RAR#	Alewife American shad Atlantic menhaden Banded killifish Black crappie Blueback herring Bluegill Channel catfish Hickory shad Hogchoker Inland silverside Largemouth bass	S F Conc.		FEB-JUN APR-SEP MAR-JUL APR-SEP MAR-MAY FEB-JUN MAY-SEP APR-MAY MAR-MAY	FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-OCT FEB-OCT MAY-NOV JAN-DEC JAN-DEC FEB-OCT JAN-DEC FEB-OCT JAN-DEC FEB-OCT JAN-DEC	FEB-JUN FEB-JUN JAN-DEC JAN-DEC FEB-JUN JAN-DEC JAN-DEC FEB-JUN JAN-DEC JAN-DEC JAN-DEC JAN-DEC JAN-DEC JAN-DEC
RAR#	Alewife American shad Atlantic menhaden Banded killifish Black crappie Blueback herring Bluegill Channel catfish Hickory shad Hogchoker Inland silverside Largemouth bass Longnose gar	S F Conc.		FEB-JUN APR-SEP MAR-JUL APR-SEP MAR-MAY FEB-JUN MAY-SEP APR-MAY MAY-JUN	FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP -	FEB-OCT FEB-OCT MAY-NOV JAN-DEC JAN-DEC FEB-OCT - JAN-DEC FEB-OCT JAN-DEC JAN-DEC JAN-DEC JAN-DEC JAN-DEC JAN-DEC	FEB-JUN FEB-JUN JAN-DEC JAN-DEC FEB-JUN JAN-DEC JAN-DEC JAN-DEC JAN-DEC JAN-DEC JAN-DEC JAN-DEC JAN-DEC JAN-DEC
RAR#	Alewife American shad Atlantic menhaden Banded killifish Black crappie Blueback herring Bluegill Channel catfish Hickory shad Hogchoker Inland silverside Largemouth bass Longnose gar Minnows	S F Conc.		FEB-JUN APR-SEP MAR-JUL APR-SEP MAR-MAY FEB-JUN MAY-SEP APR-MAY MAY-JUN APR-AUG	FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-OCT FEB-OCT MAY-NOV JAN-DEC JAN-DEC FEB-OCT - JAN-DEC FEB-OCT JAN-DEC JAN-DEC JAN-DEC JAN-DEC JAN-DEC JAN-DEC JAN-DEC	FEB-JUN FEB-JUN JAN-DEC JAN-DEC FEB-JUN JAN-DEC
RAR#	Alewife American shad Atlantic menhaden Banded killifish Black crappie Blueback herring Bluegill Channel catfish Hickory shad Hogchoker Inland silverside Largemouth bass Longnose gar	S F Conc.		FEB-JUN APR-SEP MAR-JUL APR-SEP MAR-MAY FEB-JUN MAY-SEP APR-MAY MAY-JUN APR-AUG	FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP -	FEB-OCT FEB-OCT MAY-NOV JAN-DEC JAN-DEC FEB-OCT - JAN-DEC FEB-OCT JAN-DEC JAN-DEC JAN-DEC JAN-DEC JAN-DEC JAN-DEC	FEB-JUN FEB-JUN JAN-DEC JAN-DEC FEB-JUN JAN-DEC JAN-DEC JAN-DEC JAN-DEC JAN-DEC JAN-DEC JAN-DEC JAN-DEC JAN-DEC
RAR#	Alewife American shad Atlantic menhaden Banded killifish Black crappie Blueback herring Bluegill Channel catfish Hickory shad Hogchoker Inland silverside Largemouth bass Longnose gar Minnows Pumpkinseed	S F Conc.	X X X X X X X X X X X X X X X X X X X	FEB-JUN APR-SEP MAR-JUL APR-SEP MAR-MAY FEB-JUN MAY-SEP APR-MAY MAR-MAY MAY-JUN APR-AUG MAR-JUN	FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-OCT FEB-OCT MAY-NOV JAN-DEC JAN-DEC FEB-OCT - JAN-DEC FEB-OCT JAN-DEC	FEB-JUN FEB-JUN JAN-DEC
RAR#	Alewife American shad Atlantic menhaden Banded killifish Black crappie Blueback herring Bluegill Channel catfish Hickory shad Hogchoker Inland silverside Largemouth bass Longnose gar Minnows Pumpkinseed Redbreast sunfish	S F Conc.	X X X X X X X X X X X X X X X X X X X	FEB-JUN - APR-SEP MAR-JUL - APR-SEP MAR-MAY FEB-JUN MAY-SEP APR-MAY MAY-JUN APR-AUG MAR-JUN JUN-JUL	FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-OCT FEB-OCT MAY-NOV JAN-DEC JAN-DEC FEB-OCT JAN-DEC FEB-OCT JAN-DEC	FEB-JUN FEB-JUN JAN-DEC
RAR#	Alewife American shad Atlantic menhaden Banded killifish Black crappie Blueback herring Bluegill Channel catfish Hickory shad Hogchoker Inland silverside Largemouth bass Longnose gar Minnows Pumpkinseed	S F Conc.	X X X X X X X X X X X X X X X X X X X	FEB-JUN APR-SEP MAR-JUL APR-SEP MAR-MAY FEB-JUN MAY-SEP APR-MAY MAR-MAY MAY-JUN APR-AUG MAR-JUN	FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-OCT FEB-OCT MAY-NOV JAN-DEC JAN-DEC FEB-OCT - JAN-DEC FEB-OCT JAN-DEC	FEB-JUN FEB-JUN JAN-DEC
RAR#	Alewife American shad Atlantic menhaden Banded killifish Black crappie Blueback herring Bluegill Channel catfish Hickory shad Hogchoker Inland silverside Largemouth bass Longnose gar Minnows Pumpkinseed Redbreast sunfish Striped bass	S F Conc.	X X X X X X X X X X X X X X X X X X X	FEB-JUN - APR-SEP MAR-JUL - APR-SEP MAR-MAY FEB-JUN MAY-SEP APR-MAY MAY-JUN APR-AUG MAR-JUN JUN-JUL	FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-OCT FEB-OCT MAY-NOV JAN-DEC JAN-DEC FEB-OCT JAN-DEC FEB-OCT JAN-DEC	FEB-JUN FEB-JUN JAN-DEC
RAR#	Alewife American shad Atlantic menhaden Banded killifish Black crappie Blueback herring Bluegill Channel catfish Hickory shad Hogchoker Inland silverside Largemouth bass Longnose gar Minnows Pumpkinseed Redbreast sunfish Striped bass Tessellated darter	S F Conc.	X X X X X X X X X X X X X X X X X X X	FEB-JUN APR-SEP MAR-JUL APR-SEP MAR-MAY FEB-JUN MAY-SEP APR-MAY MAY-JUN APR-AUG MAR-JUN JUN-JUL APR-JUN	FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-OCT FEB-OCT MAY-NOV JAN-DEC JAN-DEC TEB-OCT JAN-DEC	FEB-JUN FEB-JUN JAN-DEC
RAR#	Alewife American shad Atlantic menhaden Banded killifish Black crappie Blueback herring Bluegill Channel catfish Hickory shad Hogchoker Inland silverside Largemouth bass Longnose gar Minnows Pumpkinseed Redbreast sunfish Striped bass	S F Conc.	X X X X X X X X X X X X X X X X X X X	FEB-JUN APR-SEP MAR-JUL APR-SEP MAR-MAY FEB-JUN MAY-SEP APR-MAY MAY-JUN APR-AUG MAR-JUN JUN-JUL APR-JUN	FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-OCT FEB-OCT MAY-NOV JAN-DEC JAN-DEC FEB-OCT JAN-DEC FEB-OCT JAN-DEC	FEB-JUN FEB-JUN JAN-DEC
RAR#	Alewife American shad Atlantic menhaden Banded killifish Black crappie Blueback herring Bluegill Channel catfish Hickory shad Hogchoker Inland silverside Largemouth bass Longnose gar Minnows Pumpkinseed Redbreast sunfish Striped bass Tessellated darter White catfish	S F Conc.	X X X X X X X X X X X X X X X X X X X	FEB-JUN APR-SEP MAR-JUL APR-SEP MAR-MAY FEB-JUN MAY-SEP APR-MAY MAY-JUN APR-AUG MAR-JUN JUN-JUL APR-JUN MAY-JUN	FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-OCT FEB-OCT MAY-NOV JAN-DEC JAN-DEC JAN-DEC FEB-OCT JAN-DEC	FEB-JUN FEB-JUN JAN-DEC
RAR#	Alewife American shad Atlantic menhaden Banded killifish Black crappie Blueback herring Bluegill Channel catfish Hickory shad Hogchoker Inland silverside Largemouth bass Longnose gar Minnows Pumpkinseed Redbreast sunfish Striped bass Tessellated darter White catfish White perch	S F Conc.	X X X X X X X X X X X X X X X X X X X	FEB-JUN APR-SEP MAR-JUL APR-SEP MAR-MAY FEB-JUN MAY-SEP APR-MAY MAY-JUN APR-AUG MAR-JUN JUN-JUL APR-JUN MAY-JUN APR-JUN APR-JUN APR-JUN	FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-OCT FEB-OCT MAY-NOV JAN-DEC JAN-DEC FEB-OCT JAN-DEC	FEB-JUN FEB-JUN JAN-DEC JAN-DEC JAN-DEC FEB-JUN JAN-DEC
RAR#	Alewife American shad Atlantic menhaden Banded killifish Black crappie Blueback herring Bluegill Channel catfish Hickory shad Hogchoker Inland silverside Largemouth bass Longnose gar Minnows Pumpkinseed Redbreast sunfish Striped bass Tessellated darter White catfish	S F Conc.	X X X X X X X X X X X X X X X X X X X	FEB-JUN APR-SEP MAR-JUL APR-SEP MAR-MAY FEB-JUN MAY-SEP APR-MAY MAY-JUN APR-AUG MAR-JUN JUN-JUL APR-JUN MAY-JUN APR-JUN APR-JUN APR-JUN	FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-OCT FEB-OCT MAY-NOV JAN-DEC JAN-DEC JAN-DEC FEB-OCT JAN-DEC	FEB-JUN FEB-JUN JAN-DEC
RAR# 54	Alewife American shad Atlantic menhaden Banded killifish Black crappie Blueback herring Bluegill Channel catfish Hickory shad Hogchoker Inland silverside Largemouth bass Longnose gar Minnows Pumpkinseed Redbreast sunfish Striped bass Tessellated darter White catfish White perch Yellow perch	S F Conc.	X X X X X X X X X X X X X X X X X X X	FEB-JUN APR-SEP MAR-JUL APR-SEP MAR-MAY FEB-JUN MAY-SEP APR-MAY MAY-JUN APR-AUG MAR-JUN JUN-JUL APR-JUN APR-JUN APR-JUN APR-JUN APR-JUN APR-JUN APR-JUN APR-JUN	FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-OCT FEB-OCT MAY-NOV JAN-DEC JAN-DEC FEB-OCT JAN-DEC	FEB-JUN FEB-JUN JAN-DEC
RAR# 54	Alewife American shad Atlantic menhaden Banded killifish Black crappie Blueback herring Bluegill Channel catfish Hickory shad Hogchoker Inland silverside Largemouth bass Longnose gar Minnows Pumpkinseed Redbreast sunfish Striped bass Tessellated darter White catfish White perch Yellow perch Alewife	S F Conc.	X X X X X X X X X X X X X X X X X X X	FEB-JUN APR-SEP MAR-JUL APR-SEP MAR-MAY FEB-JUN MAY-SEP APR-MAY MAY-JUN APR-AUG MAR-JUN JUN-JUL APR-JUN APR-JUN APR-JUN APR-JUN APR-JUN FEB-JUN	FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-OCT FEB-OCT MAY-NOV JAN-DEC JAN-DEC FEB-OCT JAN-DEC	FEB-JUN FEB-JUN JAN-DEC
RAR# 54	Alewife American shad Atlantic menhaden Banded killifish Black crappie Blueback herring Bluegill Channel catfish Hickory shad Hogchoker Inland silverside Largemouth bass Longnose gar Minnows Pumpkinseed Redbreast sunfish Striped bass Tessellated darter White catfish White perch Yellow perch	S F Conc.	X X X X X X X X X X X X X X X X X X X	FEB-JUN APR-SEP MAR-JUL APR-SEP MAR-MAY FEB-JUN MAY-SEP APR-MAY MAY-JUN APR-AUG MAR-JUN JUN-JUL APR-JUN APR-JUN APR-JUN APR-JUN APR-JUN APR-JUN APR-JUN APR-JUN	FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-OCT FEB-OCT MAY-NOV JAN-DEC JAN-DEC FEB-OCT JAN-DEC	FEB-JUN FEB-JUN JAN-DEC
RAR# 54	Alewife American shad Atlantic menhaden Banded killifish Black crappie Blueback herring Bluegill Channel catfish Hickory shad Hogchoker Inland silverside Largemouth bass Longnose gar Minnows Pumpkinseed Redbreast sunfish Striped bass Tessellated darter White catfish White perch Yellow perch Alewife Blueback herring	S F Conc.	X X X X X X X X X X X X X X X X X X X	FEB-JUN - APR-SEP MAR-JUL - APR-SEP MAR-MAY FEB-JUN MAY-SEP APR-MAY MAY-JUN APR-AUG MAR-JUN JUN-JUL - APR-JUN MAY-JUN APR-JUN APR-JUN APR-JUN FEB-JUN FEB-JUN	FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP APR-JUN FEB-JUN FEB-JUN	FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-OCT FEB-OCT MAY-NOV JAN-DEC JAN-DEC FEB-OCT JAN-DEC FEB-OCT JAN-DEC	FEB-JUN FEB-JUN JAN-DEC JAN-DEC JAN-DEC FEB-JUN JAN-DEC FEB-JUN FEB-JUN
RAR# 54	Alewife American shad Atlantic menhaden Banded killifish Black crappie Blueback herring Bluegill Channel catfish Hickory shad Hogchoker Inland silverside Largemouth bass Longnose gar Minnows Pumpkinseed Redbreast sunfish Striped bass Tessellated darter White catfish White perch Alewife Blueback herring Alewife	S F Conc.	X X X X X X X X X X X X X X X X X X X	FEB-JUN APR-SEP MAR-JUL APR-SEP MAR-MAY FEB-JUN MAY-SEP APR-MAY MAY-JUN APR-AUG MAR-JUN JUN-JUL APR-JUN APR-JUN APR-JUN APR-JUN APR-JUN FEB-JUN FEB-JUN	FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP APR-JUN FEB-JUN FEB-JUN FEB-JUN	FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-OCT FEB-OCT FEB-OCT MAY-NOV JAN-DEC JAN-DEC JAN-DEC FEB-OCT JAN-DEC FEB-OCT	FEB-JUN FEB-JUN FEB-JUN JAN-DEC JAN-DEC JAN-DEC FEB-JUN JAN-DEC
RAR# 54	Alewife American shad Atlantic menhaden Banded killifish Black crappie Blueback herring Bluegill Channel catfish Hickory shad Hogchoker Inland silverside Largemouth bass Longnose gar Minnows Pumpkinseed Redbreast sunfish Striped bass Tessellated darter White catfish White perch Yellow perch Alewife Blueback herring	S F Conc.	X X X X X X X X X X X X X X X X X X X	FEB-JUN - APR-SEP MAR-JUL - APR-SEP MAR-MAY FEB-JUN MAY-SEP APR-MAY MAY-JUN APR-AUG MAR-JUN JUN-JUL - APR-JUN MAY-JUN APR-JUN APR-JUN APR-JUN FEB-JUN FEB-JUN	FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP APR-JUN FEB-JUN FEB-JUN	FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-OCT FEB-OCT MAY-NOV JAN-DEC JAN-DEC FEB-OCT JAN-DEC FEB-OCT JAN-DEC	FEB-JUN FEB-JUN JAN-DEC JAN-DEC JAN-DEC FEB-JUN JAN-DEC FEB-JUN FEB-JUN
RAR# 54	Alewife American shad Atlantic menhaden Banded killifish Black crappie Blueback herring Bluegill Channel catfish Hickory shad Hogchoker Inland silverside Largemouth bass Longnose gar Minnows Pumpkinseed Redbreast sunfish Striped bass Tessellated darter White catfish White perch Yellow perch Alewife Blueback herring Alewife American eel	S F Conc.	X X X X X X X X X X X X X X X X X X X	FEB-JUN APR-SEP MAR-JUL APR-SEP MAR-MAY FEB-JUN MAY-SEP APR-MAY MAY-JUN APR-AUG MAR-JUN JUN-JUL APR-JUN APR-JUN APR-JUN APR-JUN APR-JUN FEB-JUN FEB-JUN	FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP APR-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN	FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-OCT FEB-OCT FEB-OCT MAY-NOV JAN-DEC JAN-DEC FEB-OCT JAN-DEC	FEB-JUN FEB-JUN FEB-JUN JAN-DEC
RAR# 54	Alewife American shad Atlantic menhaden Banded killifish Black crappie Blueback herring Bluegill Channel catfish Hickory shad Hogchoker Inland silverside Largemouth bass Longnose gar Minnows Pumpkinseed Redbreast sunfish Striped bass Tessellated darter White catfish White perch Yellow perch Alewife Blueback herring Alewife American eel American shad	S F Conc.	X X X X X X X X X X X X X X X X X X X	FEB-JUN APR-SEP MAR-JUL APR-SEP MAR-MAY FEB-JUN MAY-SEP APR-MAY MAY-JUN APR-AUG MAR-JUN JUN-JUL APR-JUN MAY-JUN APR-JUN APR-JUN APR-JUN APR-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN	FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-OCT FEB-OCT FEB-OCT MAY-NOV JAN-DEC JAN-DEC FEB-OCT JAN-DEC FEB-OCT JAN-DEC FEB-OCT	FEB-JUN FEB-JUN FEB-JUN JAN-DEC JAN-D
RAR# 54	Alewife American shad Atlantic menhaden Banded killifish Black crappie Blueback herring Bluegill Channel catfish Hickory shad Hogchoker Inland silverside Largemouth bass Longnose gar Minnows Pumpkinseed Redbreast sunfish Striped bass Tessellated darter White catfish White perch Yellow perch Alewife Blueback herring Alewife American eel	S F Conc.	X X X X X X X X X X X X X X X X X X X	FEB-JUN APR-SEP MAR-JUL APR-SEP MAR-MAY FEB-JUN MAY-SEP APR-MAY MAY-JUN APR-AUG MAR-JUN JUN-JUL APR-JUN MAY-JUN APR-JUN APR-JUN APR-JUN APR-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN	FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP APR-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN	FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-OCT FEB-OCT FEB-OCT MAY-NOV JAN-DEC JAN-DEC FEB-OCT JAN-DEC	FEB-JUN FEB-JUN FEB-JUN JAN-DEC
RAR# 54	Alewife American shad Atlantic menhaden Banded killifish Black crappie Blueback herring Bluegill Channel catfish Hickory shad Hogchoker Inland silverside Largemouth bass Longnose gar Minnows Pumpkinseed Redbreast sunfish Striped bass Tessellated darter White catfish White perch Yellow perch Alewife Blueback herring Alewife American eel American shad Atlantic croaker	S F Conc.	X X X X X X X X X X X X X X X X X X X	FEB-JUN APR-SEP MAR-JUL APR-SEP MAR-MAY FEB-JUN MAY-SEP APR-MAY MAY-JUN APR-AUG MAR-JUN JUN-JUL APR-JUN APR-JUN APR-JUN APR-JUN APR-JUN FEB-JUN FEB-JUN FEB-JUN	FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-OCT FEB-OCT FEB-OCT MAY-NOV JAN-DEC JAN-DEC FEB-OCT JAN-DEC	FEB-JUN FEB-JUN FEB-JUN JAN-DEC JAN-DEC FEB-JUN JAN-DEC JAN-DE
RAR# 54	Alewife American shad Atlantic menhaden Banded killifish Black crappie Blueback herring Bluegill Channel catfish Hickory shad Hogchoker Inland silverside Largemouth bass Longnose gar Minnows Pumpkinseed Redbreast sunfish Striped bass Tessellated darter White catfish White perch Yellow perch Alewife Blueback herring Alewife American eel American shad Atlantic croaker Atlantic menhaden		X X X X X X X X X X X X X X X X X X X	FEB-JUN APR-SEP MAR-JUL APR-SEP MAR-MAY FEB-JUN MAY-SEP APR-MAY MAY-JUN APR-AUG MAR-JUN JUN-JUL APR-JUN APR-JUN APR-JUN APR-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN APR-JUN FEB-JUN	FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-OCT FEB-OCT FEB-OCT MAY-NOV JAN-DEC JAN-DEC FEB-OCT JAN-DEC	FEB-JUN FEB-JUN FEB-JUN JAN-DEC JAN-DEC FEB-JUN JAN-DEC JAN-D
RAR# 54	Alewife American shad Atlantic menhaden Banded killifish Black crappie Blueback herring Bluegill Channel catfish Hickory shad Hogchoker Inland silverside Largemouth bass Longnose gar Minnows Pumpkinseed Redbreast sunfish Striped bass Tessellated darter White catfish White perch Yellow perch Alewife Blueback herring Alewife American eel American shad Atlantic croaker	S F Conc.	X X X X X X X X X X X X X X X X X X X	FEB-JUN APR-SEP MAR-JUL APR-SEP MAR-MAY FEB-JUN MAY-SEP APR-MAY MAY-JUN APR-AUG MAR-JUN JUN-JUL APR-JUN APR-JUN APR-JUN APR-JUN APR-JUN FEB-JUN FEB-JUN FEB-JUN	FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-OCT FEB-OCT FEB-OCT MAY-NOV JAN-DEC JAN-DEC FEB-OCT JAN-DEC	FEB-JUN FEB-JUN FEB-JUN JAN-DEC JAN-DEC FEB-JUN JAN-DEC JAN-DE
RAR# 54	Alewife American shad Atlantic menhaden Banded killifish Black crappie Blueback herring Bluegill Channel catfish Hickory shad Hogchoker Inland silverside Largemouth bass Longnose gar Minnows Pumpkinseed Redbreast sunfish Striped bass Tessellated darter White catfish White perch Yellow perch Alewife Blueback herring Alewife American eel American shad Atlantic croaker Atlantic menhaden Atlantic sturgeon			FEB-JUN APR-SEP MAR-MAY FEB-JUN MAY-SEP APR-MAY MAY-JUN APR-AUG MAR-JUN JUN-JUL APR-JUN APR-JUN APR-JUN APR-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN	FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-OCT FEB-OCT MAY-NOV JAN-DEC JAN-DEC FEB-OCT JAN-DEC	FEB-JUN FEB-JUN FEB-JUN JAN-DEC JAN-D
RAR# 54	Alewife American shad Atlantic menhaden Banded killifish Black crappie Blueback herring Bluegill Channel catfish Hickory shad Hogchoker Inland silverside Largemouth bass Longnose gar Minnows Pumpkinseed Redbreast sunfish Striped bass Tessellated darter White catfish White perch Yellow perch Alewife Blueback herring Alewife American eel American shad Atlantic croaker Atlantic menhaden Atlantic sturgeon Banded killifish		X X X X X X X X X X X X X X X X X X X	FEB-JUN - APR-SEP MAR-JUL - APR-SEP MAR-MAY FEB-JUN MAY-SEP APR-MAY MAY-JUN APR-AUG MAR-JUN JUN-JUL - APR-JUN MAY-JUN APR-JUN FEB-JUN	FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-OCT FEB-OCT MAY-NOV JAN-DEC JAN-DEC FEB-OCT JAN-DEC	FEB-JUN FEB-JUN FEB-JUN JAN-DEC
RAR# 54	Alewife American shad Atlantic menhaden Banded killifish Black crappie Blueback herring Bluegill Channel catfish Hickory shad Hogchoker Inland silverside Largemouth bass Longnose gar Minnows Pumpkinseed Redbreast sunfish Striped bass Tessellated darter White catfish White perch Yellow perch Alewife Blueback herring Alewife American eel American shad Atlantic croaker Atlantic menhaden Atlantic sturgeon			FEB-JUN - APR-SEP MAR-JUL - APR-SEP MAR-MAY FEB-JUN MAY-SEP APR-MAY MAY-JUN APR-AUG MAR-JUN JUN-JUL - APR-JUN MAY-JUN APR-JUN FEB-JUN	FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-OCT FEB-OCT MAY-NOV JAN-DEC JAN-DEC FEB-OCT JAN-DEC	FEB-JUN FEB-JUN FEB-JUN JAN-DEC JAN-D
RAR# 54	Alewife American shad Atlantic menhaden Banded killifish Black crappie Blueback herring Bluegill Channel catfish Hickory shad Hogchoker Inland silverside Largemouth bass Longnose gar Minnows Pumpkinseed Redbreast sunfish Striped bass Tessellated darter White catfish White perch Yellow perch Alewife Blueback herring Alewife American eel American shad Atlantic croaker Atlantic sturgeon Banded killifish Bay anchovy		X X X X X X X X X X X X X X X X X X X	FEB-JUN - APR-SEP MAR-JUL - APR-SEP MAR-MAY FEB-JUN MAY-SEP APR-MAY MAY-JUN APR-JUN JUN-JUL - APR-JUN APR-JUN APR-JUN FEB-JUN	FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP APR-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN	FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-OCT FEB-OCT MAY-NOV JAN-DEC JAN-DEC FEB-OCT JAN-DEC MAY-OCT	FEB-JUN FEB-JUN FEB-JUN JAN-DEC JAN-DEC FEB-JUN JAN-DEC
RAR# 54	Alewife American shad Atlantic menhaden Banded killifish Black crappie Blueback herring Bluegill Channel catfish Hickory shad Hogchoker Inland silverside Largemouth bass Longnose gar Minnows Pumpkinseed Redbreast sunfish Striped bass Tessellated darter White catfish White perch Yellow perch Alewife Blueback herring Alewife American eel American shad Atlantic croaker Atlantic sturgeon Banded killifish Bay anchovy Black crappie		X X X X X X X X X X X X X X X X X X X	FEB-JUN APR-SEP MAR-JUL APR-SEP MAR-MAY FEB-JUN MAY-SEP APR-MAY MAY-JUN APR-AUG MAR-JUN JUN-JUL APR-JUN APR-JUN APR-JUN APR-JUN FEB-JUN	FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-OCT FEB-OCT FEB-OCT MAY-NOV JAN-DEC JAN-DEC FEB-OCT JAN-DEC MAY-OCT	FEB-JUN FEB-JUN FEB-JUN JAN-DEC JAN-DEC FEB-JUN JAN-DEC
RAR# 54	Alewife American shad Atlantic menhaden Banded killifish Black crappie Blueback herring Bluegill Channel catfish Hickory shad Hogchoker Inland silverside Largemouth bass Longnose gar Minnows Pumpkinseed Redbreast sunfish Striped bass Tessellated darter White catfish White perch Yellow perch Alewife Blueback herring Alewife American eel American shad Atlantic croaker Atlantic menhaden Atlantic sturgeon Banded killifish Bay anchovy Black crappie Blueback herring		X X X X X X X X X X X X X X X X X X X	FEB-JUN - APR-SEP MAR-JUL - APR-SEP MAR-MAY FEB-JUN MAY-SEP APR-MAY MAY-JUN APR-JUN JUN-JUL - APR-JUN APR-JUN APR-JUN FEB-JUN	FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP APR-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN	FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-OCT FEB-OCT MAY-NOV JAN-DEC JAN-DEC FEB-OCT JAN-DEC MAY-OCT	FEB-JUN FEB-JUN FEB-JUN JAN-DEC JAN-DEC FEB-JUN JAN-DEC
RAR# 54	Alewife American shad Atlantic menhaden Banded killifish Black crappie Blueback herring Bluegill Channel catfish Hickory shad Hogchoker Inland silverside Largemouth bass Longnose gar Minnows Pumpkinseed Redbreast sunfish Striped bass Tessellated darter White catfish White perch Yellow perch Alewife Blueback herring Alewife American eel American shad Atlantic croaker Atlantic menhaden Atlantic sturgeon Banded killifish Bay anchovy Black crappie Blueback herring		X X X X X X X X X X X X X X X X X X X	FEB-JUN APR-SEP MAR-JUL APR-SEP MAR-MAY FEB-JUN MAY-SEP APR-MAY MAY-JUN APR-AUG MAR-JUN JUN-JUL APR-JUN APR-JUN APR-JUN APR-JUN FEB-JUN	FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-OCT FEB-OCT FEB-OCT MAY-NOV JAN-DEC JAN-DEC FEB-OCT JAN-DEC FEB-OCT MAY-DEC MAY-NOV JAN-DEC FEB-OCT	FEB-JUN FEB-JUN FEB-JUN JAN-DEC
RAR# 54	Alewife American shad Atlantic menhaden Banded killifish Black crappie Blueback herring Bluegill Channel catfish Hickory shad Hogchoker Inland silverside Largemouth bass Longnose gar Minnows Pumpkinseed Redbreast sunfish Striped bass Tessellated darter White catfish White perch Yellow perch Alewife Blueback herring Alewife American eel American shad Atlantic croaker Atlantic menhaden Atlantic sturgeon Banded killifish Bay anchovy Black crappie Blueback herring Bluefish		X X X X X X X X X X X X X X X X X X X	FEB-JUN APR-SEP MAR-MAY FEB-JUN MAY-SEP APR-MAY MAY-JUN APR-AUG MAR-JUN JUN-JUL APR-JUN MAY-JUN APR-JUN APR-JUN FEB-JUN	FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-OCT FEB-OCT FEB-OCT MAY-NOV JAN-DEC JAN-DEC FEB-OCT JAN-DEC JAN-DEC JAN-DEC JAN-DEC JAN-DEC JAN-DEC JAN-DEC JAN-DEC MAY-OCT - JAN-DEC FEB-OCT JAN-DEC FEB-OCT MAY-NOV JAN-DEC FEB-OCT MAY-NOV	FEB-JUN FEB-JUN FEB-JUN JAN-DEC FEB-JUN
RAR# 54	Alewife American shad Atlantic menhaden Banded killifish Black crappie Blueback herring Bluegill Channel catfish Hickory shad Hogchoker Inland silverside Largemouth bass Longnose gar Minnows Pumpkinseed Redbreast sunfish Striped bass Tessellated darter White catfish White perch Yellow perch Alewife Blueback herring Alewife American eel American shad Atlantic croaker Atlantic menhaden Atlantic sturgeon Banded killifish Bay anchovy Black crappie Blueback herring		X X X X X X X X X X X X X X X X X X X	FEB-JUN APR-SEP MAR-MAY FEB-JUN MAY-SEP APR-MAY MAY-JUN APR-AUG MAR-JUN JUN-JUL APR-JUN MAY-JUN APR-JUN APR-JUN FEB-JUN	FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-OCT FEB-OCT FEB-OCT MAY-NOV JAN-DEC JAN-DEC FEB-OCT JAN-DEC FEB-OCT MAY-DEC MAY-NOV JAN-DEC FEB-OCT	FEB-JUN FEB-JUN FEB-JUN JAN-DEC
RAR# 54	Alewife American shad Atlantic menhaden Banded killifish Black crappie Blueback herring Bluegill Channel catfish Hickory shad Hogchoker Inland silverside Largemouth bass Longnose gar Minnows Pumpkinseed Redbreast sunfish Striped bass Tessellated darter White catfish White perch Yellow perch Alewife Blueback herring Alewife American eel American shad Atlantic croaker Atlantic menhaden Atlantic sturgeon Banded killifish Bay anchovy Black crappie Blueback herring Bluefish Bluegill			FEB-JUN APR-SEP MAR-JUL APR-SEP MAR-MAY FEB-JUN MAY-SEP APR-MAY MAY-JUN APR-AUG MAR-JUN JUN-JUL APR-JUN APR-JUN APR-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN APR-SEP APR-SEP MAR-JUL FEB-JUN APR-SEP	FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-OCT FEB-OCT FEB-OCT MAY-NOV JAN-DEC JAN-DEC FEB-OCT JAN-DEC JAN-DEC JAN-DEC JAN-DEC JAN-DEC JAN-DEC JAN-DEC JAN-DEC MAY-OCT - JAN-DEC FEB-OCT JAN-DEC FEB-OCT MAY-NOV JAN-DEC FEB-OCT MAY-NOV	FEB-JUN FEB-JUN FEB-JUN JAN-DEC JAN-DEC FEB-JUN JAN-DEC
RAR# 54	Alewife American shad Atlantic menhaden Banded killifish Black crappie Blueback herring Bluegill Channel catfish Hickory shad Hogchoker Inland silverside Largemouth bass Longnose gar Minnows Pumpkinseed Redbreast sunfish Striped bass Tessellated darter White catfish White perch Yellow perch Alewife Blueback herring Alewife American eel American shad Atlantic croaker Atlantic sturgeon Banded killifish Bay anchovy Black crappie Blueback herring Bluefish Bluegill Bluespotted sunfish			FEB-JUN APR-SEP MAR-JUL APR-SEP MAR-MAY FEB-JUN MAY-SEP APR-MAY MAY-JUN APR-JUN APR-JUN APR-JUN APR-JUN FEB-JUN FEB-JUN FEB-JUN APR-JUN FEB-JUN APR-SEP APR-SEP MAR-JUL FEB-JUN APR-SEP MAR-JUL FEB-JUN APR-SEP MAY-JUN	FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-OCT FEB-OCT FEB-OCT MAY-NOV JAN-DEC JAN-DEC FEB-OCT JAN-DEC JAN-DEC JAN-DEC JAN-DEC JAN-DEC JAN-DEC JAN-DEC JAN-DEC MAY-OCT - JAN-DEC FEB-OCT MAY-NOV JAN-DEC JAN-DEC JAN-DEC JAN-DEC FEB-OCT MAY-NOV JAN-DEC	FEB-JUN FEB-JUN FEB-JUN JAN-DEC JAN-DEC FEB-JUN JAN-DEC
RAR# 54	Alewife American shad Atlantic menhaden Banded killifish Black crappie Blueback herring Bluegill Channel catfish Hickory shad Hogchoker Inland silverside Largemouth bass Longnose gar Minnows Pumpkinseed Redbreast sunfish Striped bass Tessellated darter White catfish White perch Yellow perch Alewife Blueback herring Alewife American eel American shad Atlantic croaker Atlantic menhaden Atlantic sturgeon Banded killifish Bay anchovy Black crappie Blueback herring Bluefish Bluegill			FEB-JUN APR-SEP MAR-JUL APR-SEP MAR-MAY FEB-JUN MAY-SEP APR-MAY MAY-JUN APR-JUN APR-JUN APR-JUN APR-JUN FEB-JUN FEB-JUN FEB-JUN APR-JUN FEB-JUN APR-SEP APR-SEP MAR-JUL FEB-JUN APR-SEP MAR-JUL FEB-JUN APR-SEP MAY-JUN	FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-OCT FEB-OCT FEB-OCT MAY-NOV JAN-DEC JAN-DEC FEB-OCT JAN-DEC JAN-DEC JAN-DEC JAN-DEC JAN-DEC JAN-DEC JAN-DEC JAN-DEC MAY-OCT - JAN-DEC FEB-OCT MAY-NOV JAN-DEC JAN-DEC JAN-DEC JAN-DEC FEB-OCT MAY-NOV JAN-DEC	FEB-JUN FEB-JUN FEB-JUN JAN-DEC JAN-DEC FEB-JUN JAN-DEC
RAR# 54	Alewife American shad Atlantic menhaden Banded killifish Black crappie Blueback herring Bluegill Channel catfish Hickory shad Hogchoker Inland silverside Largemouth bass Longnose gar Minnows Pumpkinseed Redbreast sunfish Striped bass Tessellated darter White catfish White perch Yellow perch Alewife Blueback herring Alewife American eel American shad Atlantic croaker Atlantic sturgeon Banded killifish Bay anchovy Black crappie Blueback herring Bluegill Bluespotted sunfish Brown bullhead		X X X X X X X X X X X X X X X X X X X	FEB-JUN APR-SEP MAR-JUL APR-SEP MAR-MAY FEB-JUN MAY-SEP APR-MAY MAY-JUN APR-JUN APR-JUN APR-JUN APR-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN APR-SEP APR-SEP APR-SEP MAR-JUL FEB-JUN APR-SEP MAR-JUL FEB-JUN APR-SEP MAR-JUL FEB-JUN APR-SEP MAR-JUL FEB-JUN APR-SEP	FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-OCT FEB-OCT FEB-OCT MAY-NOV JAN-DEC JAN-DEC FEB-OCT JAN-DEC JAN-DEC JAN-DEC JAN-DEC JAN-DEC JAN-DEC JAN-DEC JAN-DEC MAY-OCT - JAN-DEC FEB-OCT MAY-NOV JAN-DEC JAN-DEC JAN-DEC JAN-DEC FEB-OCT MAY-NOV JAN-DEC	FEB-JUN FEB-JUN FEB-JUN JAN-DEC JAN-DEC FEB-JUN JAN-DEC
RAR# 54	Alewife American shad Atlantic menhaden Banded killifish Black crappie Blueback herring Bluegill Channel catfish Hickory shad Hogchoker Inland silverside Largemouth bass Longnose gar Minnows Pumpkinseed Redbreast sunfish Striped bass Tessellated darter White catfish White perch Yellow perch Alewife Blueback herring Alewife American eel American shad Atlantic croaker Atlantic menhaden Atlantic sturgeon Banded killifish Bay anchovy Black crappie Blueback herring Bluefish Bluegill Bluespotted sunfish Brown bullhead Chain pickerel		X X X X X X X X X X X X X X X X X X X	FEB-JUN APR-SEP MAR-JUL APR-SEP MAR-MAY FEB-JUN MAY-SEP APR-MAY MAY-JUN APR-JUN JUN-JUL APR-JUN APR-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN APR-SEP APR-SEP APR-SEP MAR-JUL FEB-JUN APR-JUL FEB-JUN	FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-OCT FEB-OCT FEB-OCT MAY-NOV JAN-DEC JAN-DEC FEB-OCT JAN-DEC FEB-OCT MAY-DEC JAN-DEC JAN-DEC FEB-OCT MAY-NOV JAN-DEC JAN-DE	FEB-JUN FEB-JUN FEB-JUN JAN-DEC
RAR# 54	Alewife American shad Atlantic menhaden Banded killifish Black crappie Blueback herring Bluegill Channel catfish Hickory shad Hogchoker Inland silverside Largemouth bass Longnose gar Minnows Pumpkinseed Redbreast sunfish Striped bass Tessellated darter White catfish White perch Yellow perch Alewife Blueback herring Alewife American eel American shad Atlantic croaker Atlantic sturgeon Banded killifish Bay anchovy Black crappie Blueback herring Bluegill Bluespotted sunfish Brown bullhead		X X X X X X X X X X X X X X X X X X X	FEB-JUN APR-SEP MAR-JUL APR-SEP MAR-MAY FEB-JUN MAY-SEP APR-MAY MAY-JUN APR-JUN JUN-JUL APR-JUN APR-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN APR-SEP APR-SEP APR-SEP MAR-JUL FEB-JUN APR-JUL FEB-JUN	FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-OCT FEB-OCT MAY-NOV JAN-DEC JAN-DEC FEB-OCT JAN-DEC FEB-OCT MAY-NOV JAN-DEC JAN-DEC JAN-DEC JAN-DEC JAN-DEC FEB-OCT MAY-NOV JAN-DEC JAN-DE	FEB-JUN FEB-JUN FEB-JUN JAN-DEC JAN-DEC FEB-JUN JAN-DEC
RAR# 54	Alewife American shad Atlantic menhaden Banded killifish Black crappie Blueback herring Bluegill Channel catfish Hickory shad Hogchoker Inland silverside Largemouth bass Longnose gar Minnows Pumpkinseed Redbreast sunfish Striped bass Tessellated darter White catfish White perch Yellow perch Alewife Blueback herring Alewife American eel American shad Atlantic croaker Atlantic sturgeon Banded killifish Bay anchovy Black crappie Blueback herring Bluefish Bluegill Bluespotted sunfish Brown bullhead Chain pickerel Channel catfish		X X X X X X X X X X X X X X X X X X X	FEB-JUN APR-SEP MAR-JUL APR-SEP MAR-MAY FEB-JUN MAY-SEP APR-MAY MAY-JUN APR-AUG MAR-JUN JUN-JUL APR-JUN APR-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN APR-SEP APR-SEP APR-SEP MAR-JUL FEB-JUN APR-JUL FEB-JUN APR-SEP APR-SEP MAR-JUL FEB-JUN APR-SEP MAR-JUL FEB-JUN APR-SEP MAR-MAY	FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-OCT FEB-OCT FEB-OCT MAY-NOV JAN-DEC JAN-DEC FEB-OCT JAN-DEC FEB-OCT MAY-DEC JAN-DEC JAN-DEC FEB-OCT MAY-NOV JAN-DEC JAN-DE	FEB-JUN FEB-JUN FEB-JUN JAN-DEC
RAR# 54	Alewife American shad Atlantic menhaden Banded killifish Black crappie Blueback herring Bluegill Channel catfish Hickory shad Hogchoker Inland silverside Largemouth bass Longnose gar Minnows Pumpkinseed Redbreast sunfish Striped bass Tessellated darter White catfish White perch Yellow perch Alewife Blueback herring Alewife American eel American shad Atlantic croaker Atlantic sturgeon Banded killifish Bay anchovy Black crappie Blueback herring Bluefish Bluegill Bluespotted sunfish Brown bullhead Chain pickerel Channel catfish Common carp		X X X X X X X X X X X X X X X X X X X	FEB-JUN APR-SEP MAR-JUL APR-SEP MAR-MAY FEB-JUN MAY-SEP APR-MAY MAY-JUN APR-AUG MAR-JUN JUN-JUL APR-JUN APR-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN APR-SEP APR-SEP APR-SEP MAR-JUL FEB-JUN APR-SEP MAR-JUL FEB-JUN APR-SEP APR-SEP MAR-JUL FEB-JUN APR-SEP APR-SEP MAR-JUL FEB-JUN APR-SEP MAR-JUL FEB-JUN APR-SEP MAY-JUN APR-JUN APR-SEP MAY-JUN APR-JUN APR-JUN APR-SEP MAY-JUN APR-JUN APR-SEP APR	FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-OCT FEB-OCT FEB-OCT MAY-NOV JAN-DEC JAN-DEC FEB-OCT JAN-DEC FEB-OCT MAY-NOV JAN-DEC	FEB-JUN FEB-JUN FEB-JUN FEB-JUN JAN-DEC
RAR# 54	Alewife American shad Atlantic menhaden Banded killifish Black crappie Blueback herring Bluegill Channel catfish Hickory shad Hogchoker Inland silverside Largemouth bass Longnose gar Minnows Pumpkinseed Redbreast sunfish Striped bass Tessellated darter White catfish White perch Yellow perch Alewife Blueback herring Alewife American eel American shad Atlantic croaker Atlantic menhaden Atlantic surgeon Banded killifish Bay anchovy Black crappie Blueback herring Bluefish Bluegill Bluespotted sunfish Brown bullhead Chain pickerel Channel catfish Common carp Gizzard shad			FEB-JUN APR-SEP MAR-JUL APR-SEP MAR-MAY FEB-JUN MAY-SEP APR-MAY MAY-JUN APR-AUG MAR-JUN JUN-JUL APR-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN APR-SEP APR-SEP APR-SEP APR-SEP APR-SEP MAY-JUN APR-JUN FEB-JUN FEB-JUN	FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-OCT FEB-OCT FEB-OCT MAY-NOV JAN-DEC JAN-DEC FEB-OCT JAN-DEC FEB-OCT MAY-NOV JAN-DEC	FEB-JUN FEB-JUN FEB-JUN JAN-DEC
RAR# 54	Alewife American shad Atlantic menhaden Banded killifish Black crappie Blueback herring Bluegill Channel catfish Hickory shad Hogchoker Inland silverside Largemouth bass Longnose gar Minnows Pumpkinseed Redbreast sunfish Striped bass Tessellated darter White catfish White perch Yellow perch Alewife Blueback herring Alewife American eel American shad Atlantic croaker Atlantic sturgeon Banded killifish Bay anchovy Black crappie Blueback herring Bluefish Bluegill Bluespotted sunfish Brown bullhead Chain pickerel Channel catfish Common carp		X X X X X X X X X X X X X X X X X X X	FEB-JUN APR-SEP MAR-MAY FEB-JUN MAY-SEP APR-MAY MAY-JUN APR-AUG MAR-JUN JUN-JUL APR-JUN APR-JUN APR-JUN APR-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN C APR-SEP APR-SEP APR-SEP APR-SEP APR-SEP MAY-JUN APR-JUN FEB-JUN C APR-SEP MAY-JUN APR-JUN FEB-JUN C APR-SEP MAY-JUN APR-JUN APR-SEP MAY-JUN APR-JUN APR-SEP MAY-JUN APR-SEP	FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-JUN FEB-JUN FEB-JUN FEB-JUN FEB-JUN MAY-SEP	FEB-OCT FEB-OCT FEB-OCT MAY-NOV JAN-DEC JAN-DEC FEB-OCT JAN-DEC FEB-OCT MAY-NOV JAN-DEC	FEB-JUN FEB-JUN FEB-JUN FEB-JUN JAN-DEC

S F Conc. J F M A M J J A S O N D Nesting Migrating Molting

X X X X X X X X X X

X X X X X X X X X X

 $\hbox{X X X X X X X X X X X X X MAR-MAY}$

X X X X X X X X X X X X MAY-JUN

X X X X X X X X X X X APR-AUG

X X X X X X X X X X X APR-AUG

X X X X X X X X X X X X MAR-JUN

X X X X X X X X X X X X JUN-JUL

X X X X

X X X X X X X X X X X X MAR-JUL

X X X X X X X X X X X X APR-SEP

 $\hbox{X X X X X X X X X X X X X APR-JUN}$

X X X X X X X X X X X X MAY-JUN

X X X X X X X X X X X APR-JUN

 $\hbox{X X X X X X X X X X X X X APR-JUN}$

X X X X X X X X

X X X X X X X X

FEB-JUN FEB-JUN

MAR-JUL APR-SEP

FEB-JUN FEB-JUN

APR-JUN APR-JUN

DEC-APR

_

_

-

FEB-JUN

FEB-OCT

JAN-DEC

JAN-DEC

JAN-DEC

JAN-DEC

JAN-DEC

JAN-DEC

JAN-DEC

JUL-OCT

JAN-DEC

APR-NOV

APR-NOV

FEB-OCT

JAN-DEC

JAN-DEC

JAN-DEC

APR-NOV

JAN-DEC

FEB-JUN

JAN-DEC

JAN-DEC

JAN-DEC

JAN-DEC

JAN-DEC

JAN-DEC

JAN-DEC

JAN-DEC

JAN-DEC

FEB-JUN

JAN-DEC

JAN-DEC

-

JAN-DEC

JAN-DEC

Virginia: ESIMAP 118 (cont.)

BIOLOGICAL RESOURCES: (cont.)

INVERTEBRATE:

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Spawning	Eggs	Larvae	Juveniles	Adults
35	Blue crab		X X X X X X X X X X X X X	-	-	MAY-NOV	JAN-DEC	JAN-DEC
54	Blue crab		$\mathbf{X} \ \mathbf{X} \ \mathbf{X}$	-	-	MAY-NOV	JAN-DEC	JAN-DEC