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**Development of "No Discharge" Zones  
in Virginia Tidal Waters  
Phase I**

Prepared By

Center for Coastal Management and Policy  
Virginia Institute of Marine Science  
School of Marine Science  
College of William and Mary  
Gloucester Point, Virginia

Prepared For

Virginia Council on the Environment  
Virginia Coastal Resource Management Program  
Grant No. NA170Z0359-01

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March 1993

## **ACKNOWLEDGEMENTS**

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# DEVELOPMENT OF "NO DISCHARGE" ZONES IN VIRGINIA TIDAL WATERS - PHASE 1

Prepared by the Center for Coastal Management and Policy  
Virginia Institute of Marine Science

## INTRODUCTION

The Commonwealth of Virginia currently has no regulations in effect to restrict the discharge of waste from vessels in state waters. This poses concern as Virginia continues its efforts to improve water quality in the Chesapeake Bay. The degradation of critical environmental habitat is accelerated by the introduction of waste, which in turn threatens the ecological, aesthetic, and commercial values of Virginia's waters.

The purpose of this project is two-fold. First a comprehensive review of regulatory statutes in states enforcing "no discharge" zones (NDZ) was conducted. This product is delivered as a separate document. Second, a large-scale inventory of environmentally sensitive areas for consideration in the delineation of "no discharge" zones within Chesapeake Bay waters has been produced. A large digital database was generated at the Comprehensive Coastal Inventory (CCI) Facility at the Virginia Institute of Marine Science (VIMS). The database includes several valuable inventories which historically have been archived as hardcopy maps. This effort developed methodologies to transfer these data to digital format. The database has been designed in an Arc/Info Geographic Information System (GIS) format. A description of the database layout, data sources, and coverages is presented. The development of the NDZ database is viewed by the Center for Coastal Management and Policy as Phase 1 in a series of anticipated activities which will ultimately provide the necessary resources to implement management policy in this area.

## DATA SOURCES

Several different data sources were used to generate the NDZ database. The principal data source was the Environmental Sensitivity Map Atlas (ESI) for the Commonwealth of Virginia. This atlas was produced by VIMS under contract with the National Oceanic and Atmospheric Administration (NOAA) with the objective of providing oil spill response teams with guidance regarding the location of environmentally sensitive regions in the Bay. The objectives of this exercise are similar in its intent to identify areas within the Bay where the addition of pollutants; in this case human waste and sewage, poses a potential threat to viable natural resources. Therefore, the ESI Atlas provided a comprehensive source of data to address the needs of this project.

Several problems which exist with the ESI Atlas should be noted. First, the delineations of the various groups, species, and habitats identified were subjective. While experts in the respective fields were consulted, the actual mapping exercise was never verified, and the ability to map with any geographic accuracy was not available at the time. Second, minimum quality assurance and quality control measures were exercised in the original product. In particular, a

user will find that data does not flow logically across contiguous topographic boundaries. This suggests that the maps were never edge-matched to evaluate continuity or correctness in the plotted elements. The data presented should be viewed as a general representation of the possible natural resources which existed at the time the Atlas was published.

The Center for Coastal Management and Policy (CMAP) recognizes the value of this inventory, but also acknowledges the limitations for its use in its current state. It is the intent of this Program to update the database with the assistance of researchers and scientists at VIMS. This activity, however, is far beyond the scope of the current NDZ project, and will be conducted at a later date with time and funding availability. Therefore, the digital data generated for this project represents the same data illustrated on the ESI Atlas maps. No attempt has been made to update or refine the data.

The Virginia Department of Health, the Chesapeake Bay Program's Chesapeake Bay Area Public Access Plan, and the ESI Atlas provided data for the regions marinas and marinas with pump-out facilities. The 1991 data from the Department of Health, who monitors these facilities, is considered to be the most reliable data source. This data list is currently being updated by the Department of Health. They were consulted on several occasions to answer questions and provide locational information.

The VIMS Tidal Wetlands Inventory Series which is now available in digital format for most of Virginia's tidal waters is considered the most comprehensive digital database for tidal wetlands information. This database was transferred to digital format as a component of the ongoing activities of the CCI Program at VIMS. The data has been transferred to the EcoMAPS Program at the Virginia Council on the Environment.

The Submerged Aquatic Vegetation (SAV) Distribution and Abundance Survey, conducted by the Sea Grass Program in the Department of Biological Sciences at VIMS, is considered a reliable and up-dated source of information regarding the location of SAV beds within the Chesapeake Bay. This is an important Bay resource to consider when evaluating areas sensitive to sewage disposal. This program is funded by the Environmental Protection Agency, and the database is available through the EcoMAPS Program.

#### DATA TRANSFER

Data collected from the various sources listed above were drafted on stable-base, mylar USGS 7.5 minute topographic maps. These maps have a scale of 1:24,000 (1 inch = 2,000 feet). Reported accuracy of these base maps is +/- 30 feet. The scale of the maps is equivalent to the scale of the originally mapped ESI Atlas maps.

A detailed and complex coding system was designed to facilitate an organized and accurate transfer of data from the Atlas maps to the topographic base maps. Each base map was checked prior to digitizing to ensure completeness in the data transfer. The digital record, once generated, was again checked for correctness and consistency.

## NDZ COVERAGES

In addition to the SAV and Tidal Wetlands data, stored as separate databases, the following coverages have been developed specifically for this project. Most of the biological and socioeconomic data constituents were gathered from the NOAA ESI Map Atlas. Information for marinas with pump-out facilities was collected principally from the Virginia Department of Health.

Coverages related to the biological components within the Chesapeake Bay include: identification of shellfish beds, identification of common local waterfowl, shorebirds, finfish, reptiles, invertebrates, nesting areas and nursery grounds. The primary groups to be covered are listed in Table 1. Where possible, representatives of these groups are coded to the species level and referenced to a principal species index table (Appendix 2) derived from the ESI Atlas. The identification of rare, threatened and endangered species is also provided. Since several species occur seasonally in the Bay, seasonality is included where appropriate.

Socioeconomic coverages addressed have been gathered from the ESI Atlas. They include: parks and public beaches, ecological refuges, preservation areas, and archaeological sites. Public and private marinas are included and those sites which have pump-out facilities will be identified.

## GEOGRAPHIC COVERAGE

Geographic coverage for the identification of "no discharge" zones within Tidewater Virginia includes 104 USGS Topographic Quadrangles. These maps incorporate the Eastern and Western shores of the Chesapeake Bay, the shorelines of waterways contiguous to the Bay, and the Atlantic coastline in Virginia. Table 2 lists the topographic quadrangle and gives both the ESI and VIMS map identification number. Figure 1 references the ESI map identification number (Table 2) to illustrate the location of each quadrangle. Figure 2 illustrates the same regional breakdown of quadrangles but uses the VIMS map identification numbers as reference. Here, the first two digits in the map index number equals the first two digits along the line of longitude, and the last two digits in the map index number equals the first two digits of the intersecting line of latitude which forms the lower left corner of the quadrant.

## DATABASE DESIGN

The No Discharge Zone (NDZ) database has been designed in an Arc/Info GIS format. The database design was developed at the CCI laboratory and beta tested before production digitizing began. The characteristics of the ESI maps dictated that the structure and hierarchy of the NDZ database be extremely complicated. Figure 3 illustrates the general database hierarchy of the various elements included. Two different types of coverages exist: point/line and polygon. Many of the data elements (i.e. items) addressed can be represented as a point, a

**TABLE 1. ENVIRONMENTAL CONSIDERATIONS  
PRINCIPAL CATEGORIES AND GROUPS**

<p align="center"><b>BIRDS</b></p> <p>Dabbling Ducks  Diving Ducks  Sea Ducks  Geese and Swans  Rails  Raptors  Wading Birds  Diving Birds  Shore Birds  Gulls and Terns  Ancillary</p> <p align="center">Nesting Areas</p>	<p align="center"><b>INVERTEBRATES</b></p> <p>Oysters  Clams  Crabs  Scallops  Shrimp</p> <hr/> <p align="center"><b>VEGETATION</b></p> <p>Tidal Wetlands  Submerged Aquatic Vegetation</p>
<p align="center"><b>FINFISH</b></p> <p>Nursery Fish  Anadromous Fish  Estuarine</p> <hr/> <p align="center"><b>AMPHIBIANS</b></p> <p>Turtles  Alligators</p>	<p align="center"><b>SOCIOECONOMIC</b></p> <p>Public/Private Marinas  Marinas w/ Pump-out Facilities  Archaeological Sites  Boat Ramps  Parks and Public Beaches  Ecological Areas: Reserves</p>

TABLE 2. TABLE OF GEOGRAPHIC COVERAGE

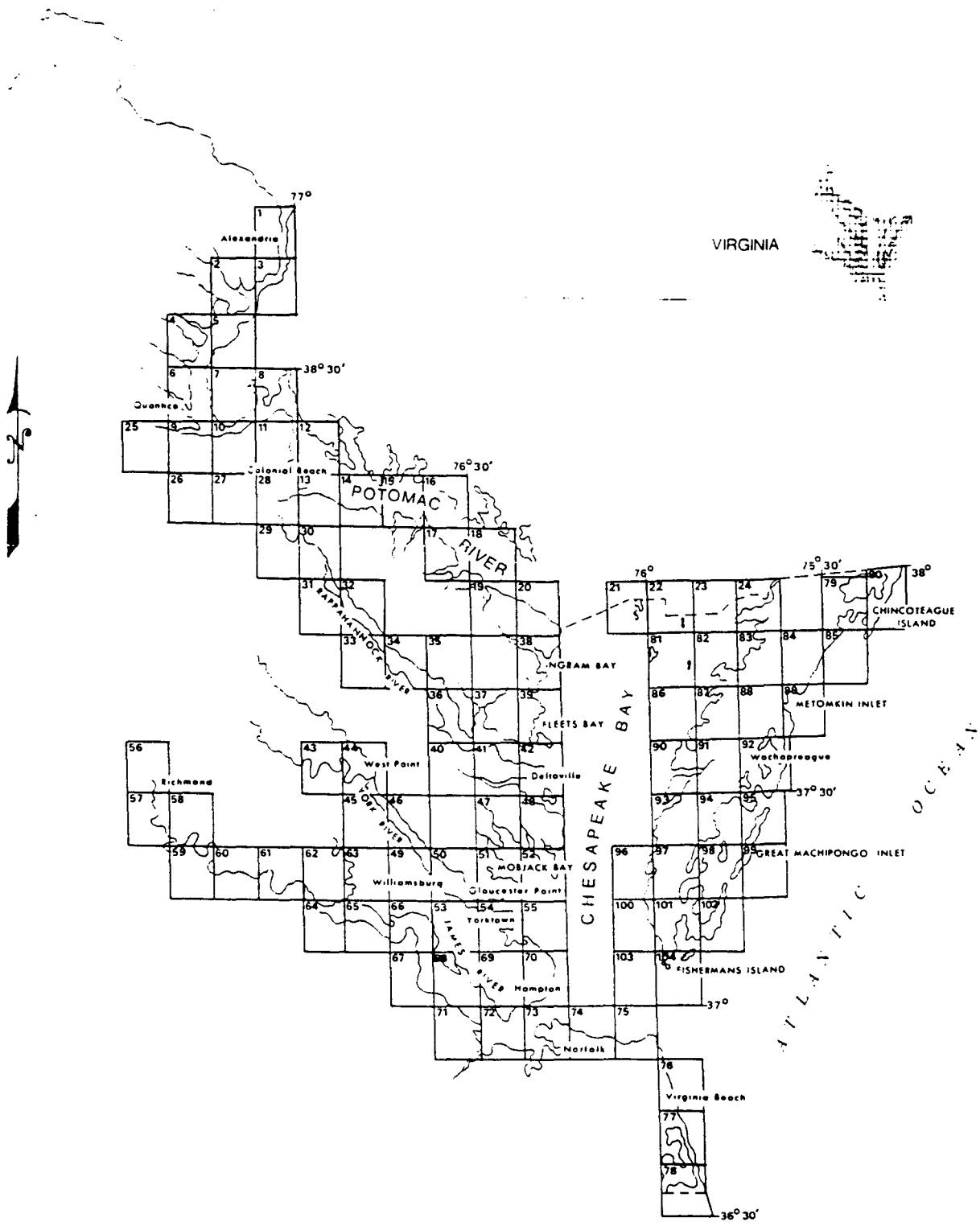
USGS QUADRANGLE	ESI MAP ID	VIMS MAP ID
Accomac	88	6510
Achilles	51	5907
Alexandria	1	5419
Bacons Castle	67	5705
Benns Church	71	5804
Bloxom	84	6611
Brandon	62	5507
Burgess	20	6012
Cape Charles	96	6207
Cape Henry	75	6204
Champlain	30	5513
Charles City	61	5407
Cheriton	97	6307
Chesapeake Channel	103	6205
Chesconessex	82	6411
Chincoteague East	80	6812
Chincoteague West	79	6712
Claremont	64	5506
Clay Bank	50	5807
Cobb Island	98	6407
Colonial Beach North	12	5515
Colonial Beach South	13	5514
Crisfield	23	6412
Dahlgren	11	5415
Deltaville	42	6009
Drewrys Bluff	57	5108
Dunnsville	33	5611
Dutch Gap	58	5208
Elliotts Creek	100	6206
Ewell	21	6212
Exmore	91	6409
Fishermans Island	104	6305
Fleets Bay	39	6010
Fort Belvoir	2	5318
Franktown	93	6308
Fredericksburg	25	5115
Great Fox Island	22	6312
Great Machipongo Inlet	99	6507
Gressitt	46	5708



USGS QUADRANGLE	ESI MAP ID	VIMS MAP ID
Hampton	70	6005
Heathsville	19	5912
Hog Island	66	5706
Hopewell	59	5207
Indian Head	5	5317
Irvington	37	5910
Jamesville	90	6309
King George	10	5315
Kinsale	17	5813
Knotts Island	78	6301
Little Creek	74	6104
Lively	35	5811
Loretto	29	5413
Mathews	48	6008
Mathias Point	8	5416
Metomkin Inlet	89	6610
Morattico	34	5711
Mount Landing	31	5512
Mount Vernon	3	5418
Mulberry Island	68	5805
Nandua Creek	86	6310
Nanjemoy	7	n/a
Nassawadox	94	6408
New Kent	43	5509
New Point Comfort	52	6007
Newport News North	69	5905
Newport News South	72	5904
Norfolk North	73	6004
Norge	63	5607
North Bay	77	6302
Parksley	83	6511
Passapatanzy	9	5215
Piney Point	16	5814
Poquoson East	55	6006
Poquoson West	54	5906
Port Royal	27	5314
Pungoteague	87	6410
Quantico	4	5217
Quinby Inlet	95	6508
Rappahannock Academy	26	5214
Reedville	38	6011
Richmond	56	5109

USGS QUADRANGLE	ESI MAP ID	VIMS MAP ID
Rollins Fork	28	5414
St. Clements Island	15	5714
St. George Island	18	5913
Saluda	40	5809
Saxis	24	6512
Ship Shoal Inlet	102	6406
Smithfield	n/a	6112
Stratford Hall	14	5614
Surry	65	5606
Tangier Island	81	6311
Tappahannock	32	5612
Toano	45	5608
Townsend	101	6306
Urbanna	36	5810
Virginia Beach	76	6303
Wachapreague	92	6509
Wallops Island	85	6711
Ware Neck	47	5908
West Point	44	5609
Westover	60	5307
Widewater	6	5216
Williamsburg	49	5707
Wilton	41	5909
Yorktown	53	5806

Figure 1. ESI Map Index



LOCATION KEY  
FOR VIRGINIA ESI MAPS

Figure 2. VIMS Map Index

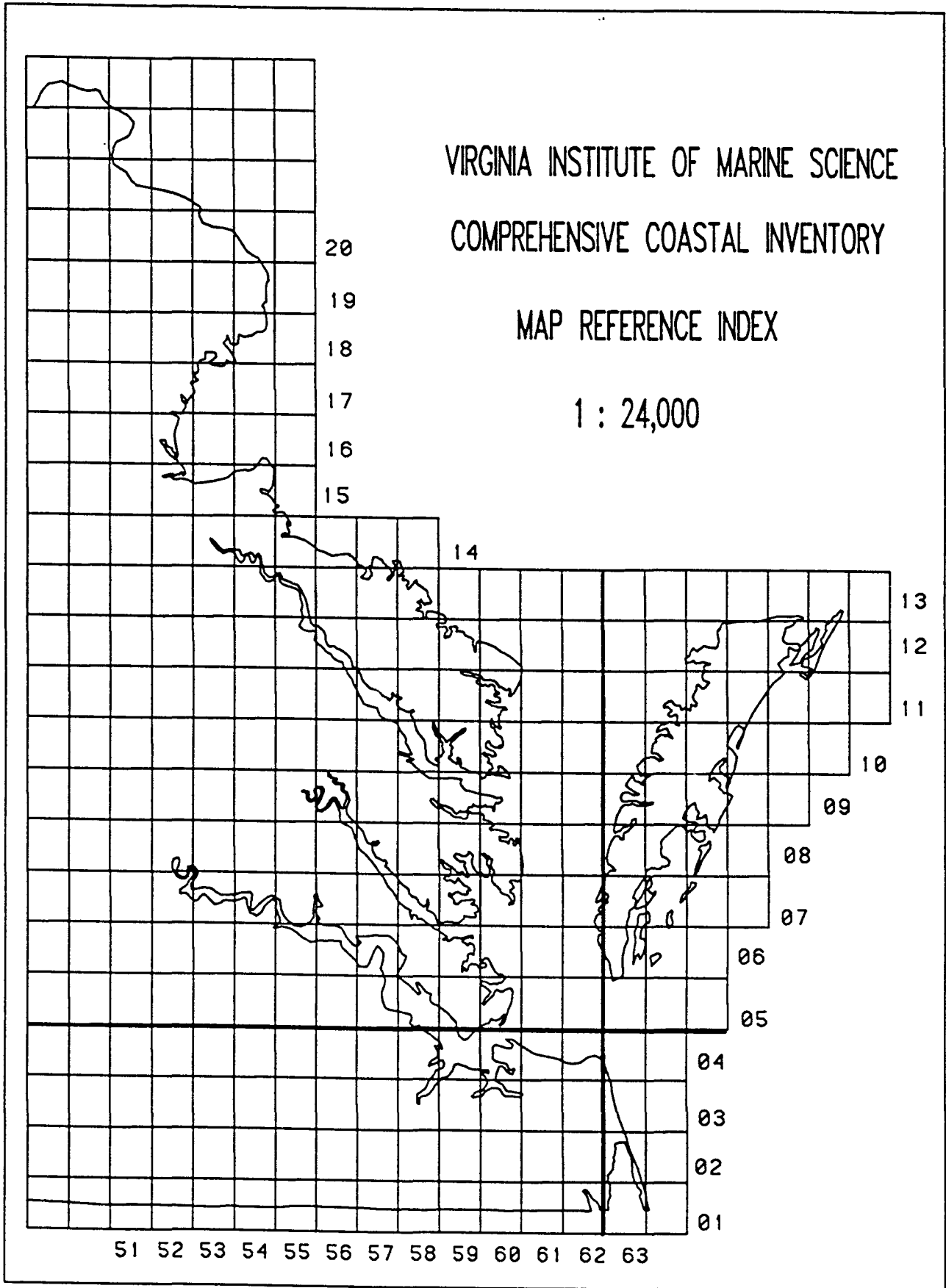
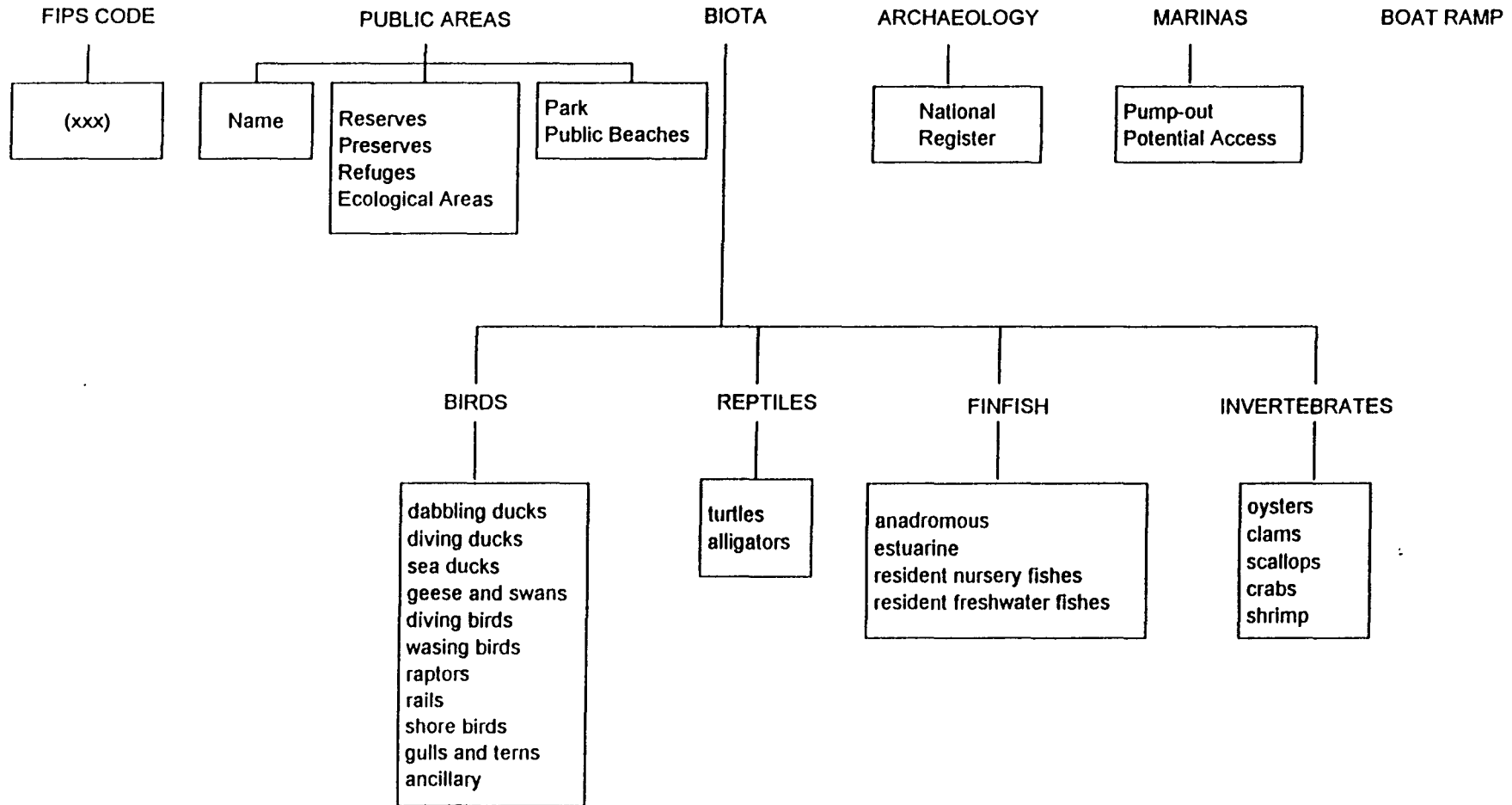


Figure 3

NO DISCHARGE ZONE DATABASE HIERARCHY

POINTS/LINES/POLYGON COVERAGES



10

Note: Biotic groups (e.g. dabbling ducks) may be broken down by species. Consult the database and Species List for additional information.

line (arc), or a polygon. This is necessary because of the nature and distribution of the various data elements originally portrayed on the ESI maps. Items like nesting areas for bird habitat may be represented as a single point, yet in several areas the nesting sites may be distributed as a range, represented by an arc. Shellfish beds are typically polygon coverages, while finfish are generally represented as a line coverage indicating the range along the waterbody.

Each map has the possibility for three different attribute files: a polygon, a line, and a point file. The naming convention for these files is directly related to the 4-digit VIMS map identification number (xxxx). The three different types of files will observe the following naming convention:

PTSXXXX.AAT - Arc Attributes  
PTSXXXX.PAT - Point Attributes  
POLXXXX.PAT - Polygon Attributes

where XXXX is the map identification number, arcs are lines, and polygons are elements which can be represented as closed areas.

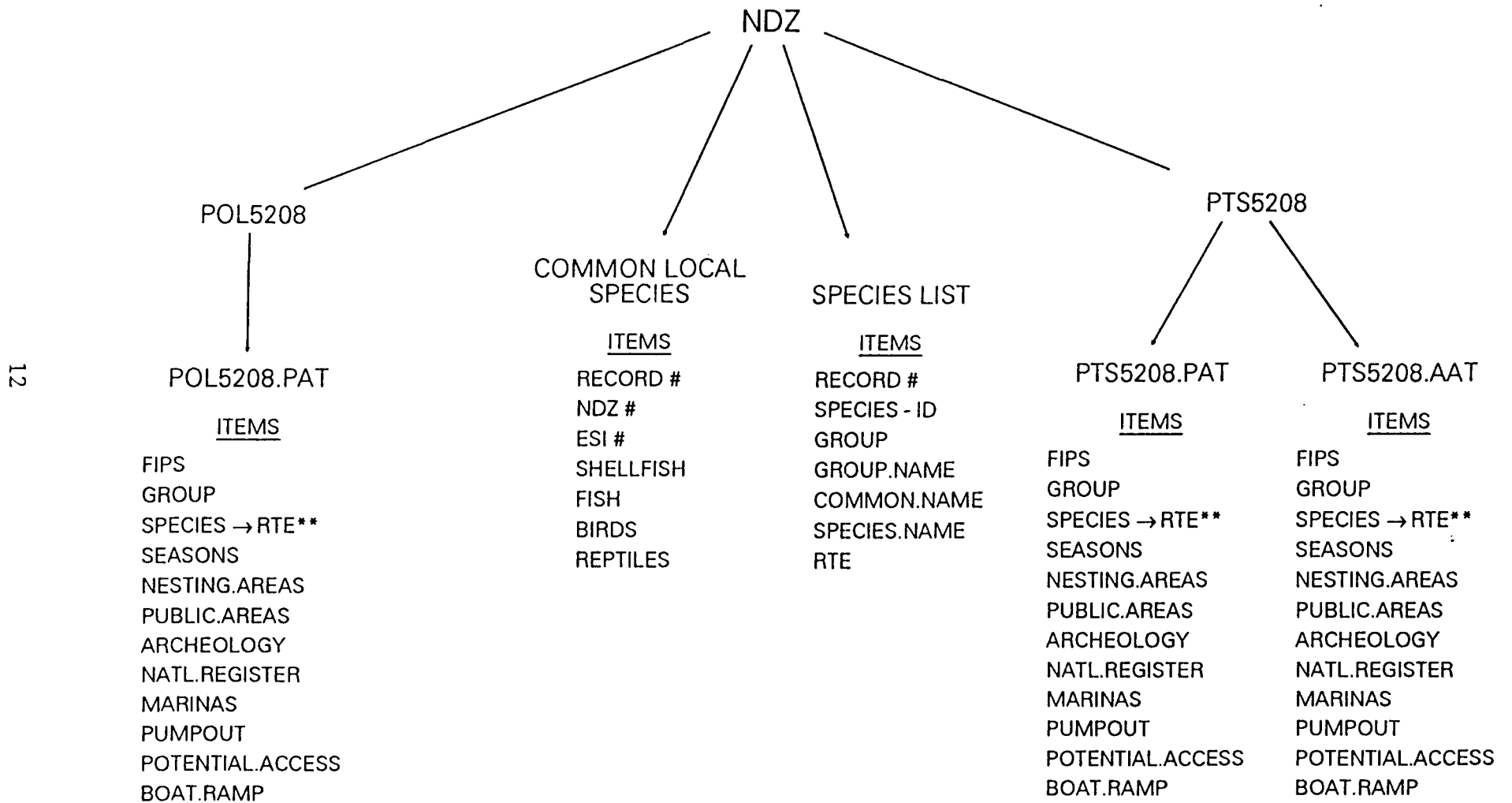
The above information for any map coverage can be queried through Arcedit or Arcplot by referencing POLXXXX or PTSXXXX (where XXXX is the VIMS map identification number). Access can also be achieved through Tables in Arc/Info. Figure 4 schematically illustrates the database structure. The various items listed within each file are defined for Arc/Info users in Appendix I.

A digital 1:24,000 shoreline coverage was used as the baseline coverage for generating the NDZ database. The digital shoreline record is a GIS coverage created as a separate activity of the CCI Program. Once the NDZ maps were digitized, the shoreline coverage was removed. It has not been included here as part of the NDZ data. It can, however, be acquired through the EcoMAPS Program at the Virginia Council on the Environment.

Species common to each individual map extent are referenced in a separate data file titled Common Local Species. Appendix III is a printout of the Common Local Species file. This file can be queried through Tables (in Arc/Info) and references both the ESI (ESI #) and the VIMS map (NDZ #) identification numbers. The user can scan this database to locate the map coverage of interest and the corresponding list of common local species broken down by the primary biotic categories shown in Figure 3 (e.g. Reptiles). The Common Local Species data file differs in content from the POLXXXX or PTSXXXX files to the extent that the information contained in the data file represents a regional perspective of species occurrence within the map limits, whereas data included in the POLXXXX or PTSXXXX files are very specific to the geographic areas indicated on the map. For example, a particular fish species may be common everywhere within the boundaries of the topographic coverage, and will therefore be listed in the Common Local Species file. However, that particular species may be prominent in one specific tributary during the spawning months, and therefore will be included in the POLXXXX or PTSXXXX data files with a reference to its seasonality or nursery area.

Figure 4.

Arc / Info Database Structure



\*\* RTE - Rare, Threatened or Endangered (in Virginia, Maryland and North Carolina).

A complete Species List modified from the ESI Atlas is available as an "Info" table which can be queried through Arc/Info. The Species List identifies the biological group, species, common name, seasonality, and rare threatened or endangered status. The GIS codes are listed for the items where appropriate. A hardcopy of the Species List data file is found in Appendix II. The list has application within all the various components of the NDZ database. Appendix I should be consulted to define the coded items.

### DELIVERABLES

In addition to this report and the accompanying report entitled The Progression of "No Discharge Zone" Status in Water Bodies Across the Continental United States, a complete set of the Arc/Info digital NDZ database, generated as a component of this project, is being delivered to the Virginia Council on the Environment.

### ANTICIPATED USES

As access to and use of GIS software continues to increase throughout the Commonwealth of Virginia, the database being generated for this project will have expanded utility far beyond the objectives of this project. Given this fact, coverages which may have been overlooked for the purpose of delineating potential NDZ regions, have been included as they have potential uses for other interests. Since the original ESI Atlas was produced in hardcopy with limited distribution, several state and federal agencies have expressed a great interest in acquiring the digital database once complete. State, federal, and local agencies will benefit from the availability of a comprehensive inventory of living aquatic resources within the Chesapeake Bay. In addition, this effort represents the first digital database of existing marina facilities in Virginia. The capabilities of GIS will allow this database to be updated and expanded in areas where research and management interests prevail.



**APPENDIX I**

**NDZ ITEMS, CODES, AND DESCRIPTIONS**

Appendix I

<u>ITEM</u>	<u>CODE(S)/LABEL</u>	<u>DESCRIPTION</u>
FIPS	xxx	3-digit integer character
PUBLIC AREAS	xxx...n reserves preserves refuges ecological area park/public beaches	128 character alphanumeric place name designated reserve area designated preservation area designated wildlife refuge designated area with ecological significance public recreation area
GROUP	A - Q	Biotic Groups
Species	1 - 136	Species Name
rte status		Rare,threatened,endangered status (added to species code)
"	+	rte in Virginia
"	#	rte in Maryland
"	*	rte in North Carolina
"	^	species which are resident/nursery finfish
"	!	critical habitat area for species
"	~	seed beds
"	-	no rte
Seasons	1	summer
	2	fall
	3	winter
	4	spring
Nesting Areas	x	integer character referenced by species #

ITEM

CODE(S)/LABEL

DESCRIPTION

**GROUP BREAKDOWNS**

GROUP	A	dabbling ducks
Species	1 - 9	consult Species List
GROUP	B	diving ducks
Species	10 - 20	consult Species List
GROUP	C	sea ducks
Species	21 - 25	consult Species List
GROUP	D	geese and swans
Species	26 - 31	consult species list
GROUP	E	diving birds
Species	32 - 37	consult Species List
GROUP	F	wading birds
Species	38 - 48	consult Species List
GROUP	G	raptors
Species	49 - 51	consult Species List
GROUP	H	rails
Species	52 - 55	consult Species List
GROUP	I	shore birds
Species	56 - 74	consult Species List
GROUP	J	gulls and terns
Species	75 - 88	consult Species List
GROUP	K	ancillary (waterfowl data)
Species	89 -94	consult Species List
GROUP	L	anadromous (fish)
Species	95 - 99	consult Species List

<u>ITEM</u>	<u>CODE(S)/LABEL</u>	<u>DESCRIPTION</u>
GROUP	M	nursery (fish)
Species	100 - 115	consult Species List
GROUP	N	resident freshwater (fish)
Species	116 - 120	consult Species List
GROUP	O	resident estuarine (fish)
Species	121 - 126	consult Species List
GROUP	P	invertebrates
Species	127 - 132	consult Species List
GROUP	Q	turtles and alligators (reptiles)
Species	133 - 136	consult Species List
ARCHAEOLOGY	1	1 archaeological site
	2-10	2 to 10 archaeological sites
	>10	greater than 10 archaeological sites
National Register	0	site not on the National Register
	1	site listed on the National Register
MARINAS	xxx...n	128 character alphanumeric place name
	x marina	8 character where x = number of marinas identified
Pump-out	0	no pump-put facility
	1	has a pump-out facility
Potential Access	0	is considered for water access
	1	is not considered for water access
BOAT RAMP	0	no boat ramp
	x	integer character for number of boat ramps present

**APPENDIX II**  
**NDZ SPECIES LIST**

1  
SPECIES-ID = 1  
GROUP =A  
GROUP .NAME =DABBLING.DUCKS  
COMMON .NAME =MALLARD  
SPECIES .NAME =Anas.platyrhynchos  
RTE =-

2  
SPECIES-ID = 2  
GROUP =A  
GROUP .NAME =DABBLING.DUCKS  
COMMON .NAME =BLACK.DUCK  
SPECIES .NAME =Anas.rubripes  
RTE =-

3  
SPECIES-ID = 3  
GROUP =A  
GROUP .NAME =DABBLING.DUCKS  
COMMON .NAME =PINTAIL  
SPECIES .NAME =Anas.acuta  
RTE =-

4  
SPECIES-ID = 4  
GROUP =A  
GROUP .NAME =DABBLING.DUCKS  
COMMON .NAME =GADWALL  
SPECIES .NAME =Anas.strepera  
RTE =-

5  
SPECIES-ID = 5  
GROUP =A  
GROUP .NAME =DABBLING.DUCKS  
COMMON .NAME =BLUE-WINGED.TEAL  
SPECIES .NAME =Anas.discors  
RTE =-

6  
SPECIES-ID = 6  
GROUP =A  
GROUP .NAME =DABBLING.DUCKS  
COMMON .NAME =GREEN-WINGED.TEAL  
SPECIES .NAME =Anas.carolinensis  
RTE =-

7  
SPECIES-ID = 7  
GROUP =A  
GROUP .NAME =DABBLING.DUCKS  
COMMON .NAME =AMERICAN.WIDGEON  
SPECIES .NAME =Anas.americana  
RTE =-

8  
SPECIES-ID = 8  
GROUP =A  
GROUP .NAME =DABBLING.DUCKS  
COMMON .NAME =WOOD.DUCK  
SPECIES .NAME =Aix.sponsa  
RTE =-

9  
SPECIES-ID = 9  
GROUP =A  
GROUP .NAME =DABBLING.DUCKS  
COMMON .NAME =SHOVELER  
SPECIES .NAME =Spatula.clypeata  
RTE =-

10  
SPECIES-ID = 10  
GROUP =B

GROUP.NAME =DIVING.DUCKS  
COMMON.NAME =LESSER.SCAUP  
SPECIES.NAME =Aythya.affinis  
RTE =-

11

SPECIES-ID = 11  
GROUP =B  
GROUP.NAME =DIVING.DUCKS  
COMMON.NAME =GREATER.SCAUP  
SPECIES.NAME =Aythya.marila  
RTE =-

12

SPECIES-ID = 12  
GROUP =B  
GROUP.NAME =DIVING.DUCKS  
COMMON.NAME =CANVASBACK  
SPECIES.NAME =Aythya.valisineria  
RTE =-

13

SPECIES-ID = 13  
GROUP =B  
GROUP.NAME =DIVING.DUCKS  
COMMON.NAME =RING.NECKED.DUCK  
SPECIES.NAME =Aythya.collaris  
RTE =-

14

SPECIES-ID = 14  
GROUP =B  
GROUP.NAME =DIVING.DUCKS  
COMMON.NAME =REDHEAD  
SPECIES.NAME =Aythya.americana  
RTE =-

15

SPECIES-ID = 15  
GROUP =B  
GROUP.NAME =DIVING.DUCKS  
COMMON.NAME =AMERICAN.GOLDENEYE  
SPECIES.NAME =Bucephala clangula  
RTE =-

16

SPECIES-ID = 16  
GROUP =B  
GROUP.NAME =DIVING.DUCKS  
COMMON.NAME =BUFFLEHEAD  
SPECIES.NAME =Bucephala.albeola  
RTE =-

17

SPECIES-ID = 17  
GROUP =B  
GROUP.NAME =DIVING.DUCKS  
COMMON.NAME =COMMON.MERGANSER  
SPECIES.NAME =Mergus.merganser  
RTE =-

18

SPECIES-ID = 18  
GROUP =B  
GROUP.NAME =DIVING.DUCKS  
COMMON.NAME =RED-BREASTED.MERGANSER  
SPECIES.NAME =Mergus.serrator  
RTE =-

19

SPECIES-ID = 19  
GROUP =B  
GROUP.NAME =DIVING.DUCKS  
COMMON.NAME =HOODED.MERGANSER  
SPECIES.NAME =Lophodytes.cucullatus

RTE ==  
20  
SPECIES-ID = 20  
GROUP =B  
GROUP.NAME =DIVING.DUCKS  
COMMON.NAME =RUDDY.DUCK  
SPECIES.NAME =Oxyura.jamaicensis  
RTE ==

21  
SPECIES-ID = 21  
GROUP =C  
GROUP.NAME =SEA.DUCKS  
COMMON.NAME =SURF.SCOTER  
SPECIES.NAME =Melanitta.perspicillata  
RTE ==

22  
SPECIES-ID = 22  
GROUP =C  
GROUP.NAME =SEA.DUCKS  
COMMON.NAME =WHITE-WINGED.SCOTER  
SPECIES.NAME =Melanitta.deglandi  
RTE ==

23  
SPECIES-ID = 23  
GROUP =C  
GROUP.NAME =SEA.DUCKS  
COMMON.NAME =COMMON.SCOTER  
SPECIES.NAME =Oidemia.nigra  
RTE ==

24  
SPECIES-ID = 24  
GROUP =C  
GROUP.NAME =SEA.DUCKS  
COMMON.NAME =COMMON.EIDER  
SPECIES.NAME =Somateria.mollissima  
RTE ==

25  
SPECIES-ID = 25  
GROUP =C  
GROUP.NAME =SEA.DUCKS  
COMMON.NAME =OLDSQUAW  
SPECIES.NAME =Clangula.hyemalis  
RTE ==

26  
SPECIES-ID = 26  
GROUP =D  
GROUP.NAME =GEESE.AND.SWANS  
COMMON.NAME =CANADA.GOOSE  
SPECIES.NAME =Branta.canadensis  
RTE ==

27  
SPECIES-ID = 27  
GROUP =D  
GROUP.NAME =GEESE.AND.SWANS  
COMMON.NAME =ATLANTIC.BRANT  
SPECIES.NAME =Branta.bernicla  
RTE ==

28  
SPECIES-ID = 28  
GROUP =D  
GROUP.NAME =GEESE.AND.SWANS  
COMMON.NAME =GREATER.SNOW.GOOSE  
SPECIES.NAME =Anser.caerulescens.atlantica  
RTE ==

29  
SPECIES-ID = 29



GROUP	=D
GROUP.NAME	=GEESE.AND.SWANS
COMMON.NAME	=LESSER.SNOW.GOOSE
SPECIES.NAME	=Anser.caerulescens.caerulescens
RTE	--
30	
SPECIES-ID	= 30
GROUP	=D
GROUP.NAME	=GEESE.AND.SWANS
COMMON.NAME	=WHISTLING.SWAN
SPECIES.NAME	=Olor.columbianus
RTE	--
31	
SPECIES-ID	= 31
GROUP	=D
GROUP.NAME	=GEESE.AND.SWANS
COMMON.NAME	=MUTE.SWAN
SPECIES.NAME	=Cygnus.olor
RTE	--
32	
SPECIES-ID	= 32
GROUP	=E
GROUP.NAME	=DIVING.BIRDS
COMMON.NAME	=DOUBLE-CRESTED.CORMORANT
SPECIES.NAME	=Phalacrocorax.auritus
RTE	=*
33	
SPECIES-ID	= 33
GROUP	=E
GROUP.NAME	=DIVING.BIRDS
COMMON.NAME	=COMMON.LOON
SPECIES.NAME	=Gavia.immer
RTE	--
34	
SPECIES-ID	= 34
GROUP	=E
GROUP.NAME	=DIVING.BIRDS
COMMON.NAME	=RED-THROATED.LOON
SPECIES.NAME	=Gavia.stellata
RTE	--
35	
SPECIES-ID	= 35
GROUP	=E
GROUP.NAME	=DIVING.BIRDS
COMMON.NAME	=HORNED.GREBE
SPECIES.NAME	=Podiceps.auritus
RTE	--
36	
SPECIES-ID	= 36
GROUP	=E
GROUP.NAME	=DIVING.BIRDS
COMMON.NAME	=BROWN.PELICAN
SPECIES.NAME	=Pelecanus.occidentalis
RTE	=*
37	
SPECIES-ID	= 37
GROUP	=E
GROUP.NAME	=DIVING.BIRDS
COMMON.NAME	=PIED-BILLED.GREBE
SPECIES.NAME	=Podilymbus.podiceps
RTE	--
38	
SPECIES-ID	= 38
GROUP	=F
GROUP.NAME	=WADING.BIRDS
COMMON.NAME	=BLACK-CROWNED.NIGHT.HERON

SPECIES.NAME =Nycticorax.nycticorax  
RTE =-  
39  
SPECIES-ID = 39  
GROUP =F  
GROUP.NAME =WADING.BIRDS  
COMMON.NAME =YELLOW-CROWNED.NIGHT.HERON  
SPECIES.NAME =Nycticorax.violaceus  
RTE =-

40  
SPECIES-ID = 40  
GROUP =F  
GROUP.NAME =WADING.BIRDS  
COMMON.NAME =GREEN.HERON  
SPECIES.NAME =Butorides.striatus  
RTE =-

41  
SPECIES-ID = 41  
GROUP =F  
GROUP.NAME =WADING.BIRDS  
COMMON.NAME =LOUISIANA.HERON  
SPECIES.NAME =Hydranassa.tricolor  
RTE =-

42  
SPECIES-ID = 42  
GROUP =F  
GROUP.NAME =WADING.BIRDS  
COMMON.NAME =LITTLE.BLUE.HERON  
SPECIES.NAME =Florida.caerulea  
RTE =-

43  
SPECIES-ID = 43  
GROUP =F  
GROUP.NAME =WADING.BIRDS  
COMMON.NAME =CATTLE.EGRET  
SPECIES.NAME =Bubulcus.ibis  
RTE =-

44  
SPECIES-ID = 44  
GROUP =F  
GROUP.NAME =WADING.BIRDS  
COMMON.NAME =GREAT.EGRET  
SPECIES.NAME =Casmerodius.albus  
RTE =-

45  
SPECIES-ID = 45  
GROUP =F  
GROUP.NAME =WADING.BIRDS  
COMMON.NAME =SNOWY.EGRET  
SPECIES.NAME =Egretta.thula  
RTE =-

46  
SPECIES-ID = 46  
GROUP =F  
GROUP.NAME =WADING.BIRDS  
COMMON.NAME =GREAT.BLUE.HERON  
SPECIES.NAME =Ardea.herodias  
RTE =-

47  
SPECIES-ID = 47  
GROUP =F  
GROUP.NAME =WADING.BIRDS  
COMMON.NAME =EASTERN.GLOSSY.IBIS  
SPECIES.NAME =Plegadis.falcinellus  
RTE =-

48

SPECIES-ID = 48  
GROUP =F  
GROUP.NAME =WADING.BIRDS  
COMMON.NAME =WHITE.IBIS  
SPECIES.NAME =Eudocimus.albus  
RTE ==

49

SPECIES-ID = 49  
GROUP =G  
GROUP.NAME =RAPTORS  
COMMON.NAME =BALD.EAGLE  
SPECIES.NAME =Haliaeetus.leucocephalus  
RTE =+##\*

50

SPECIES-ID = 50  
GROUP =G  
GROUP.NAME =RAPTORS  
COMMON.NAME =OSPREY  
SPECIES.NAME =Pandion.haliaeetus  
RTE ==

51

SPECIES-ID = 51  
GROUP =G  
GROUP.NAME =RAPTORS  
COMMON.NAME =PEREGRINE.FALCON  
SPECIES.NAME =Falco.peregrinus  
RTE =+##\*

52

SPECIES-ID = 52  
GROUP =H  
GROUP.NAME =RAILS  
COMMON.NAME =CLAPPER.RAIL  
SPECIES.NAME =Rallus.longirostris.longirostris  
RTE ==

53

SPECIES-ID = 53  
GROUP =H  
GROUP.NAME =RAILS  
COMMON.NAME =KING.RAIL  
SPECIES.NAME =Rallus.longirostris.elegans  
RTE ==

54

SPECIES-ID = 54  
GROUP =H  
GROUP.NAME =RAILS  
COMMON.NAME =VIRGINIA.RAIL  
SPECIES.NAME =Rallus.aquaticus.limicola  
RTE ==

55

SPECIES-ID = 55  
GROUP =H  
GROUP.NAME =RAILS  
COMMON.NAME =SORA.RAIL  
SPECIES.NAME =Porzana.carolina  
RTE ==

56

SPECIES-ID = 56  
GROUP =I  
GROUP.NAME =SHORE.BIRDS  
COMMON.NAME =SEMIPALMATED.PLOVER  
SPECIES.NAME =Charadrius.hiaticula.semipalmatus  
RTE ==

57

SPECIES-ID = 57  
GROUP =I  
GROUP.NAME =SHORE.BIRDS

COMMON.NAME =PIPING.PLOVER  
SPECIES.NAME =Charadrius.melodus  
RTE =+#

58

SPECIES-ID = 58  
GROUP =I  
GROUP.NAME =SHORE.BIRDS  
COMMON.NAME =KILLDEER  
SPECIES.NAME =Charadrius.vociferus  
RTE =-

59

SPECIES-ID = 59  
GROUP =I  
GROUP.NAME =SHORE.BIRDS  
COMMON.NAME =BLACK-BELLIED.PLOVER  
SPECIES.NAME =Pluvialis.squatarola  
RTE =-

60

SPECIES-ID = 60  
GROUP =I  
GROUP.NAME =SHORE.BIRDS  
COMMON.NAME =SPOTTED.SANDPIPER  
SPECIES.NAME =Actitus.macularia  
RTE =-

61

SPECIES-ID = 61  
GROUP =I  
GROUP.NAME =SHORE.BIRDS  
COMMON.NAME =DUNLIN  
SPECIES.NAME =Erolia.alpina  
RTE =-

62

SPECIES-ID = 62  
GROUP =I  
GROUP.NAME =SHORE.BIRDS  
COMMON.NAME =LEAST.SANDPIPER  
SPECIES.NAME =Erolia.minutilla  
RTE =-

63

SPECIES-ID = 63  
GROUP =I  
GROUP.NAME =SHORE.BIRDS  
COMMON.NAME =PURPLE.SANDPIPER  
SPECIES.NAME =Erolia.maritima  
RTE =-

64

SPECIES-ID = 64  
GROUP =I  
GROUP.NAME =SHORE.BIRDS  
COMMON.NAME =SEMIPALMATED.SANDPIPER  
SPECIES.NAME =Ereunetes.pusilla  
RTE =-

65

SPECIES-ID = 65  
GROUP =I  
GROUP.NAME =SHORE.BIRDS  
COMMON.NAME =WESTERN.SANDPIPER  
SPECIES.NAME =Ereunetes.mauri  
RTE =-

66

SPECIES-ID = 66  
GROUP =I  
GROUP.NAME =SHORE.BIRDS  
COMMON.NAME =SANDERLING  
SPECIES.NAME =Crocethia.alba  
RTE =-

67  
SPECIES-ID = 67  
GROUP =I  
GROUP.NAME =SHORE.BIRDS  
COMMON.NAME =SHORT-BILLED.DOWITCHER  
SPECIES.NAME =Limnodramus.griseus  
RTE =-

68  
SPECIES-ID = 68  
GROUP =I  
GROUP.NAME =SHORE.BIRDS  
COMMON.NAME =WILLET  
SPECIES.NAME =Catoptrophorus.semipalmatus  
RTE =-

69  
SPECIES-ID = 69  
GROUP =I  
GROUP.NAME =SHORE.BIRDS  
COMMON.NAME =RED.KNOT  
SPECIES.NAME =Calidris.canutus  
RTE =-

70  
SPECIES-ID = 70  
GROUP =I  
GROUP.NAME =SHORE.BIRDS  
COMMON.NAME =WILSON'S.PLOVER  
SPECIES.NAME =Charadrius.wilsonia  
RTE =+#

71  
SPECIES-ID = 71  
GROUP =I  
GROUP.NAME =SHORE.BIRDS  
COMMON.NAME =GREATER.AND.LESSER.YELLOWLEGS  
SPECIES.NAME =Totanus.melanoleucus.and.Totanus.flavipes  
RTE =-

72  
SPECIES-ID = 72  
GROUP =I  
GROUP.NAME =SHORE.BIRDS  
COMMON.NAME =AMERICAN.OYSTERCATCHER  
SPECIES.NAME =Haematopus.palliatus  
RTE =-

73  
SPECIES-ID = 73  
GROUP =I  
GROUP.NAME =SHORE.BIRDS  
COMMON.NAME =MARBLED.GODWIT  
SPECIES.NAME =Limosa.fedoa  
RTE =-

74  
SPECIES-ID = 74  
GROUP =I  
GROUP.NAME =SHORE.BIRDS  
COMMON.NAME =RUDDY.TURNSTONE  
SPECIES.NAME =Arenaria.interpres  
RTE =-

75  
SPECIES-ID = 75  
GROUP =J  
GROUP.NAME =GULLS.AND.TERNS  
COMMON.NAME =LAUGHING.GULL  
SPECIES.NAME =Larus.atricilla  
RTE =-

76  
SPECIES-ID = 76  
GROUP =J

GROUP.NAME =GULLS.AND.TERNS  
COMMON.NAME =BONAPARTE'S.GULL  
SPECIES.NAME =Larus.philadelphia  
RTE =-

77

SPECIES-ID = 77  
GROUP =J  
GROUP.NAME =GULLS.AND.TERNS  
COMMON.NAME =RING-BILLED.GULL  
SPECIES.NAME =Larus.delawarensis  
RTE =-

78

SPECIES-ID = 78  
GROUP =J  
GROUP.NAME =GULLS.AND.TERNS  
COMMON.NAME =HERRING.GULL  
SPECIES.NAME =Larus.argentatus  
RTE =-

79

SPECIES-ID = 79  
GROUP =J  
GROUP.NAME =GULLS.AND.TERNS  
COMMON.NAME =GREAT.BLACK-BACKED.GULL  
SPECIES.NAME =Larus.marinus  
RTE =-

80

SPECIES-ID = 80  
GROUP =J  
GROUP.NAME =GULLS.AND.TERNS  
COMMON.NAME =BLACK.SKIMMER  
SPECIES.NAME =Rynchops.nigra  
RTE =+\*#\*

81

SPECIES-ID = 81  
GROUP =J  
GROUP.NAME =GULLS.AND.TERNS  
COMMON.NAME =GULL-BILLED.TERN  
SPECIES.NAME =Gelocheidon.nilotica  
RTE =+\*#\*

82

SPECIES-ID = 82  
GROUP =J  
GROUP.NAME =GULLS.AND.TERNS  
COMMON.NAME =ROYAL.TERN  
SPECIES.NAME =Sterna.maxima  
RTE =\*

83

SPECIES-ID = 83  
GROUP =J  
GROUP.NAME =GULLS.AND.TERNS  
COMMON.NAME =COMMON.TERN  
SPECIES.NAME =Sterna.hirundo  
RTE =-

84

SPECIES-ID = 84  
GROUP =J  
GROUP.NAME =GULLS.AND.TERNS  
COMMON.NAME =FORSTER'S.TERN  
SPECIES.NAME =Sterna.forsteri  
RTE =-

85

SPECIES-ID = 85  
GROUP =J  
GROUP.NAME =GULLS.AND.TERNS  
COMMON.NAME =LEAST.TERN  
SPECIES.NAME =Sterna.albifrons

```

RTE =+##*
86
SPECIES-ID = 86
GROUP =J
GROUP.NAME =GULLS.AND.TERNS
COMMON.NAME =CASPIAN.TERN
SPECIES.NAME =Sterna.caspia
RTE =-

87
SPECIES-ID = 87
GROUP =J
GROUP.NAME =GULLS.AND.TERNS
COMMON.NAME =SANDWICH.TERN
SPECIES.NAME =Sterna.sandvicensis
RTE =-

88
SPECIES-ID = 88
GROUP =J
GROUP.NAME =GULLS.AND.TERNS
COMMON.NAME =BLACK-LEGGED.KITTIWAKE
SPECIES.NAME =Rissa.tridactyla
RTE =-

89
SPECIES-ID = 89
GROUP =K
GROUP.NAME =ANCILLARY
COMMON.NAME =NORTHERN.PHALAROPE
SPECIES.NAME =Lobipes.lobatus
RTE =-

90
SPECIES-ID = 90
GROUP =K
GROUP.NAME =ANCILLARY
COMMON.NAME =WILSON'S.PHALAROPE
SPECIES.NAME =Steganopus.tricolor
RTE =-

91
SPECIES-ID = 91
GROUP =K
GROUP.NAME =ANCILLARY
COMMON.NAME =AMERICAN.COOT
SPECIES.NAME =Fulica.americana
RTE =-

92
SPECIES-ID = 92
GROUP =K
GROUP.NAME =ANCILLARY
COMMON.NAME =BOAT-TAILED.GRACKLE
SPECIES.NAME =Cassidix.mexicanus
RTE =-

93
SPECIES-ID = 93
GROUP =K
GROUP.NAME =ANCILLARY
COMMON.NAME =IPSWICH.SPARRROW
SPECIES.NAME =Passerculus.princeps
RTE =-

94
SPECIES-ID = 94
GROUP =K
GROUP.NAME =ANCILLARY
COMMON.NAME =ANHINGA
SPECIES.NAME =Anhinga.anhinga
RTE =*

95
SPECIES-ID = 95

```

86  
= 86  
=J  
=GULLS.AND.TERNS  
=CASPIAN.TERN  
=Sterna.caspia  
==  
87  
= 87  
=J  
=GULLS.AND.TERNS  
=SANDWICH.TERN  
=Sterna.sandvicensis  
==  
88  
= 88  
=J  
=GULLS.AND.TERNS  
=BLACK-LEGGED.KITTIWAKE  
=Rissa.tridactyla  
==  
89  
= 89  
=K  
=ANCILLARY  
=NORTHERN.PHALAROPE  
=Lobipes.lobatus  
==  
90  
= 90  
=K  
=ANCILLARY  
=WILSON'S.PHALAROPE  
=Steganopus.tricolor  
==  
91  
= 91  
=K  
=ANCILLARY  
=AMERICAN.COOT  
=Fulica.americana  
==  
92  
= 92  
=K  
=ANCILLARY  
=BOAT-TAILED.GRACKLE  
=Cassidix.mexicanus  
==  
93  
= 93  
=K  
=ANCILLARY  
=IPSWICH.SPARRROW  
=Passerculus.princeps  
==  
94  
= 94  
=K  
=ANCILLARY  
=ANHINGA  
=Anhinga.anhinga  
=\*  
95  
= 95



GROUP =L  
GROUP.NAME =ANADROMOUS  
COMMON.NAME =AMERICAN.SHAD  
SPECIES.NAME =Alosa.sapidissima  
RTE =-

96

SPECIES-ID = 96  
GROUP =L  
GROUP.NAME =ANADROMOUS  
COMMON.NAME =ALEWIFE  
SPECIES.NAME =Alosa.pseudoharengus  
RTE =-

97

SPECIES-ID = 97  
GROUP =L  
GROUP.NAME =ANADROMOUS  
COMMON.NAME =BLUEBACK.HERRING  
SPECIES.NAME =Alosa.aestivalis  
RTE =-

98

SPECIES-ID = 98  
GROUP =L  
GROUP.NAME =ANADROMOUS  
COMMON.NAME =ATLANTIC.STURGEON  
SPECIES.NAME =Acipenser.oxyrhynchus  
RTE =-

99

SPECIES-ID = 99  
GROUP =L  
GROUP.NAME =ANADROMOUS  
COMMON.NAME =SHORTNOSE.STURGEON  
SPECIES.NAME =Acipenser.brevirostrum  
RTE =+#

100

SPECIES-ID = 100  
GROUP =M  
GROUP.NAME =NURSERY  
COMMON.NAME =MULLET  
SPECIES.NAME =Mugil.cephalus  
RTE =-

101

SPECIES-ID = 101  
GROUP =M  
GROUP.NAME =NURSERY  
COMMON.NAME =ATLANTIC.MENHADEN  
SPECIES.NAME =Brevoortia.tyrannus  
RTE =-

102

SPECIES-ID = 102  
GROUP =M  
GROUP.NAME =NURSERY  
COMMON.NAME =BLUEFISH  
SPECIES.NAME =Pomatomus.saltatrix  
RTE =-

103

SPECIES-ID = 103  
GROUP =M  
GROUP.NAME =NURSERY  
COMMON.NAME =SPOT  
SPECIES.NAME =Leiostomus.xanthurus  
RTE =-

104

SPECIES-ID = 104  
GROUP =M  
GROUP.NAME =NURSERY  
COMMON.NAME =WEAKFISH

SPECIES.NAME =Cynoscion.regalis  
RTE ==

105

SPECIES-ID = 105  
GROUP =M  
GROUP.NAME =NURSERY  
COMMON.NAME =SPOTTED.SEA.TROUT  
SPECIES.NAME =Cynoscion.nebulosus  
RTE ==

106

SPECIES-ID = 106  
GROUP =M  
GROUP.NAME =NURSERY  
COMMON.NAME =BLACK.SEA.BASS  
SPECIES.NAME =Centropristis.striata  
RTE ==

107

SPECIES-ID = 107  
GROUP =M  
GROUP.NAME =NURSERY  
COMMON.NAME =RED.DRUM  
SPECIES.NAME =Sciaenops.ocellata  
RTE ==

108

SPECIES-ID = 108  
GROUP =M  
GROUP.NAME =NURSERY  
COMMON.NAME =BLACK.DRUM  
SPECIES.NAME =Pogonias.cromis  
RTE ==

109

SPECIES-ID = 109  
GROUP =M  
GROUP.NAME =NURSERY  
COMMON.NAME =SILVER.PERCH  
SPECIES.NAME =Bairdiella.chrysur  
RTE ==

110

SPECIES-ID = 110  
GROUP =M  
GROUP.NAME =NURSERY  
COMMON.NAME =EEL  
SPECIES.NAME =Anguilla.rostrata  
RTE ==

111

SPECIES-ID = 111  
GROUP =M  
GROUP.NAME =NURSERY  
COMMON.NAME =ATLANTIC.CROAKER  
SPECIES.NAME =Micropogonias.undulatus  
RTE =^

112

SPECIES-ID = 112  
GROUP =M  
GROUP.NAME =NURSERY  
COMMON.NAME =STRIPED.BASS  
SPECIES.NAME =Morone.saxatilis  
RTE =^

113

SPECIES-ID = 113  
GROUP =M  
GROUP.NAME =NURSERY  
COMMON.NAME =SOUTHERN.FLOUNDER  
SPECIES.NAME =Paralichthys.lethostigma  
RTE =^

114

SPECIES-ID = 114  
GROUP =M  
GROUP.NAME =NURSERY  
COMMON.NAME =WINTER.FLOUNDER  
SPECIES.NAME =Pseudopleuronectes.americanus  
RTE =^

115

SPECIES-ID = 115  
GROUP =M  
GROUP.NAME =NURSERY  
COMMON.NAME =SUMMER.FLOUNDER  
SPECIES.NAME =Paralichthys.dentatus  
RTE =^

116

SPECIES-ID = 116  
GROUP =N  
GROUP.NAME =RESIDENT.FRESHWATER  
COMMON.NAME =WHITE.AND.CHANNEL.CATFISH  
SPECIES.NAME =Ictalurus.catus.and.Ictalurus.punctatus  
RTE =-

117

SPECIES-ID = 117  
GROUP =N  
GROUP.NAME =RESIDENT.FRESHWATER  
COMMON.NAME =WHITE.PERCH  
SPECIES.NAME =Morone.americana  
RTE =-

118

SPECIES-ID = 118  
GROUP =N  
GROUP.NAME =RESIDENT.FRESHWATER  
COMMON.NAME =YELLOW.PERCH  
SPECIES.NAME =Perca.flavescens  
RTE =-

119

SPECIES-ID = 119  
GROUP =N  
GROUP.NAME =RESIDENT.FRESHWATER  
COMMON.NAME =BANDED.KILLIFISH  
SPECIES.NAME =Fundulus.diaphanus  
RTE =-

120

SPECIES-ID = 120  
GROUP =N  
GROUP.NAME =RESIDENT.FRESHWATER  
COMMON.NAME =TIDEWATER.SILVERSIDE  
SPECIES.NAME =Menidia.beryllina  
RTE =-

121

SPECIES-ID = 121  
GROUP =O  
GROUP.NAME =RESIDENT.ESTUARINE  
COMMON.NAME =ATLANTIC.SILVERSIDE  
SPECIES.NAME =Menidia.menidia  
RTE =-

122

SPECIES-ID = 122  
GROUP =O  
GROUP.NAME =RESIDENT.ESTUARINE  
COMMON.NAME =MUMMICHOG  
SPECIES.NAME =Fundulus.heteroclitus  
RTE =-

123

SPECIES-ID = 123  
GROUP =O  
GROUP.NAME =RESIDENT.ESTUARINE

COMMON.NAME =STRIPED.KILLIFISH  
SPECIES.NAME =Fundulus.majalis  
RTE =-

124  
SPECIES-ID = 124  
GROUP =O  
GROUP.NAME =RESIDENT.ESTUARINE  
COMMON.NAME =ANCHOVY  
SPECIES.NAME =Anchoa.mitchelli  
RTE =-

125  
SPECIES-ID = 125  
GROUP =O  
GROUP.NAME =RESIDENT.ESTUARINE  
COMMON.NAME =SHEEPSHEAD.MINNOW  
SPECIES.NAME =Cyprinodon.variegatus  
RTE =-

126  
SPECIES-ID = 126  
GROUP =O  
GROUP.NAME =RESIDENT.ESTUARINE  
COMMON.NAME =MARYLAND.DARTER  
SPECIES.NAME =Etheostoma.sellare  
RTE =+

127  
SPECIES-ID = 127  
GROUP =P  
GROUP.NAME =INVERTEBRATES  
COMMON.NAME =OYSTER  
SPECIES.NAME =Crassostrea.virginica  
RTE =-

128  
SPECIES-ID = 128  
GROUP =P  
GROUP.NAME =INVERTEBRATES  
COMMON.NAME =HARD.CLAM  
SPECIES.NAME =Mercenaria.mercenaria  
RTE =-

129  
SPECIES-ID = 129  
GROUP =P  
GROUP.NAME =INVERTEBRATES  
COMMON.NAME =SOFT.CLAM  
SPECIES.NAME =Mya.arenaria  
RTE =-

130  
SPECIES-ID = 130  
GROUP =P  
GROUP.NAME =INVERTEBRATES  
COMMON.NAME =BAY.SCALLOP  
SPECIES.NAME =Argopecten.irradians  
RTE =-

131  
SPECIES-ID = 131  
GROUP =P  
GROUP.NAME =INVERTEBRATES  
COMMON.NAME =BLUE.CRAB  
SPECIES.NAME =Callinectes.sapidus  
RTE =-

132  
SPECIES-ID = 132  
GROUP =P  
GROUP.NAME =INVERTEBRATES  
COMMON.NAME =SOUTHERN.SHRIMP  
SPECIES.NAME =Penaeus.spp.  
RTE =-

	133	
SPECIES-ID	=	133
GROUP	=Q	
GROUP.NAME	=	TURTLES.AND.ALLIGATOR
COMMON.NAME	=	ATLANTIC.GREEN
SPECIES.NAME	=	Chelonia.mydas
RTE	=+##	
	134	
SPECIES-ID	=	134
GROUP	=Q	
GROUP.NAME	=	TURTLES.AND.ALLIGATOR
COMMON.NAME	=	ATLANTIC.LOGGERHEAD
SPECIES.NAME	=	Caretta.caretta
RTE	=+##	
	135	
SPECIES-ID	=	135
GROUP	=Q	
GROUP.NAME	=	TURTLES.AND.ALLIGATOR
COMMON.NAME	=	ATLANTIC.RIDLEY
SPECIES.NAME	=	Lepidochelys.kempi
RTE	=+##	
	136	
SPECIES-ID	=	136
GROUP	=Q	
GROUP.NAME	=	TURTLES.AND.ALLIGATOR
COMMON.NAME	=	AMERICAN.ALLIGATOR
SPECIES.NAME	=	Alligator.mississippiensis
RTE	=*	

**APPENDIX III**  
**COMMON LOCAL SPECIES FILE**

NDZ# = 5108  
ESI# = 57  
SHELLFISH =  
FISH =  
BIRDS =  
REPTILES =

NDZ# = 5109  
ESI# = 56  
SHELLFISH =  
FISH =  
BIRDS =  
REPTILES =

NDZ# = 5115  
ESI# = 25  
SHELLFISH =  
FISH = 1 2 3 4:N, 1 4:99+#  
BIRDS =  
REPTILES =

NDZ# = 5207  
ESI# = 59  
SHELLFISH =  
FISH = 1 2 3 4:N, 4:99+#, 3 4:117 118  
BIRDS = 3:1 2, 1 2 4:32, 1 2 3 4:8  
REPTILES =

NDZ# = 5208  
ESI# = 58  
SHELLFISH =  
FISH = 1 4:L, 1 2 3 4:N, 4:99\*# 112^ 116, 3 4:117 118  
BIRDS = 3:A B 12 26, 3 4:1 2  
REPTILES =

NDZ# = 5214  
ESI# = 26  
SHELLFISH =  
FISH = 1 2 3 4:N, 1 4:L(+ #)  
BIRDS = 1 2 3 4:8  
REPTILES =

NDZ# = 5215  
ESI# = 9  
SHELLFISH =  
FISH =  
BIRDS =  
REPTILES =

NDZ# = 5216  
ESI# = 6  
SHELLFISH =  
FISH =  
BIRDS =

REPTILES =

NDZ# = 5217

ESI# = 4

SHELLFISH =

FISH =

BIRDS =

REPTILES =

NDZ# = 5307

ESI# = 60

SHELLFISH =

FISH = 1 2 3 4:N 4 99+# 112^, 1 4:117 118

BIRDS = 1 3 4:1 2 4 5, 3:3 12 26 28 30, 1 2 4:32

REPTILES =

NDZ# = 5314

ESI# = 27

SHELLFISH =

FISH = 1 4:L 112^, 1 2 3 4:N, 4:99+#

BIRDS = 2 3:A 26 30, 1 2 3 4:8, 2 4:H

REPTILES =

NDZ# = 5315

ESI# = 10

SHELLFISH =

FISH =

BIRDS =

REPTILES =

NDZ# = 5317

ESI# = 5

SHELLFISH =

FISH =

BIRDS =

REPTILES =

NDZ# = 5318

ESI# = 2

SHELLFISH =

FISH =

BIRDS =

REPTILES =

NDZ# = 5407

ESI# = 61

SHELLFISH =

FISH = 1 2 3 4:N, 4:112^ 117

BIRDS = 3 4:1 2, 3:1 2 28, 1 2 4: 32

REPTILES =

NDZ# = 5413

ESI# = 29

SHELLFISH =



FISH = 1 4:L 99+# 112^, 1 2 3 4:N  
BIRDS = 2 3:A 26 30, 1 2 3 4:8 49+##, 3 4:18, 1 2 4:50  
REPTILES =

NDZ# = 5414  
ESI# = 28  
SHELLFISH =  
FISH = 1 4:L 99+# 112^  
BIRDS = 2 3:A 1 2 5 26 30, 1 2 3 4:8 49+##, 3 4:18  
REPTILES =

NDZ# = 5415  
ESI# = 11  
SHELLFISH = 1 2 4:131  
FISH = 1 4:L 112^, 1 2 4:M 101 103 O, 1 2:102 112^  
BIRDS = 3:B 26, 1 2 3 4:J  
REPTILES =

NDZ# = 5416  
ESI# = 8  
SHELLFISH = 1:131  
FISH = 1 4:L 112^ 117, 1 2 4:M 101 103 112^ 118 120 121 124  
BIRDS = 3:B 26, 1 2 3 4:I J, 1 2 4:32 50  
REPTILES =

NDZ# = 5418  
ESI# = 3  
SHELLFISH =  
FISH =  
BIRDS =  
REPTILES =

NDZ# = 5419  
ESI# = 1  
SHELLFISH =  
FISH =  
BIRDS =  
REPTILES =

NDZ# = 5506  
ESI# = 64  
SHELLFISH = 1 2 3 4:131  
FISH = 1 2 4:M 101, 4:99+# 112^ 117  
BIRDS = 3:A 3 B 10 12 13 26 30, 3 4:1 2 68, 1 2 4:32  
REPTILES =

NDZ# = 5507  
ESI# = 62  
SHELLFISH =  
FISH = 1 4:L 95 96 97, 1 2 4:M, 1 2 3 4:N, 4:99+# 112^  
BIRDS = 3:A B 12 26 30 49+##, 3 4:1 2 3 5 6 12 68, 1 2 3 4:8  
REPTILES =

NDZ# = 5509

ESI# = 43  
SHELLFISH =  
FISH = 1 4:L 118, 1:M 103 111^, 1 2 3 4:N 117 O, 4:95 96 97 99+#  
112^ 116, 1 2 4:101  
BIRDS = 1 4:A 1 2 5, 2:B 10 12 13 C D 26 30, 3:25, 1 2 4:H 53 55  
REPTILES =

NDZ# = 5512  
ESI# = 31  
SHELLFISH =  
FISH = 1 4:L 99+#, 1 2 4:101 112^ 117  
BIRDS = 2 3:B 10 11 12 20 26, 1 2 3 4:8, 3:49+##, 1 2 4:50  
REPTILES =

NDZ# = 5513  
ESI# = 30  
SHELLFISH =  
FISH = 1 4:L 99+# 112^, 1 2 3 4:N 116 118  
BIRDS = 2 3:A 26 30, 1 2 3 4:8, 3 4:18, 3:49+##, 1 2 4:50  
REPTILES =

NDZ# = 5514  
ESI# = 13  
SHELLFISH = 1 2 4:131  
FISH = 1 4:L 112^, 1 2 4:M 101 103 O, 1 2:102 112^  
BIRDS = 3:B 26, 1 2 3 4:I J, 1 2 4:32 50  
REPTILES =

NDZ# = 5515  
ESI# = 12  
SHELLFISH = 1 2 4:131  
FISH = 1 4:L 112^ 117, 1 2 4:M 101 103 O, 1:102 112^  
BIRDS = 1 2 3 4:J, 2 3:B 26  
REPTILES =

NDZ# = 5606  
ESI# = 65  
SHELLFISH = 1 4:131  
FISH = 1 4:L 95 96 97, 1 2 4:M 101 112^ 117, 1 2 3 4:O  
BIRDS = 3:A B 10 11 12 13 20 C 25 D 26 30, 3 4:1 2 4 5, 1 2 3 4:I  
J, 1 2 4:32  
REPTILES =

NDZ# = 5607  
ESI# = 63  
SHELLFISH = 1 4:131  
FISH = 1 4:L 95 96 97, 1 2 4:M 101 112^ 117, 1 2 3 4:O  
BIRDS = 3 4:A 1 2 5 B 68, 3:10 12 13 25 49+##, 2 3:26, 1 2 4:32 78  
79 83  
REPTILES =

NDZ# = 5608  
ESI# = 45  
SHELLFISH = 1 2 4:131

FISH = 1 4:L, 1 2 4:M 112^ 117, 1 2 3 4:N O, 4:99+# 101 124, 1  
2:118, 1:121  
BIRDS = 3:A 3 B 10 12 13 26 30, 3 4:1 2, 1 2 3 4:J, 1 2 4:32  
REPTILES =

NDZ# = 5609  
ESI# = 44  
SHELLFISH =  
FISH = 1 4:L, 1 2 4:M 101 112^ 124, 1 2 3 4:N 117 O, 4:95 96 99+#,  
1:103 111^  
BIRDS = 3:A 1 2 3 4 5 B 10 13 25, 1 2 3 4:J, 2 3:26 30  
REPTILES =

NDZ# = 5611  
ESI# = 33  
SHELLFISH =  
FISH = 1 4:L 99+#, 1 2 4:M 102 104 112^, 1 2 3 4:117 O  
BIRDS = 1 2 4:50  
REPTILES =

NDZ# = 5612  
ESI# = 32  
SHELLFISH =  
FISH = 1 4:L(+), 1 2 4:M 102 104 112^, 1 2 3 4:117 O  
BIRDS = 1 2 3 4:8, 1 2 4:50  
REPTILES =

NDZ# = 5614  
ESI# = 14  
SHELLFISH = 1 2 4:131  
FISH = 1 4:L, 1 2 4:M 101 103 112^ O, 1 2:102 115^  
BIRDS = 3:B 26, 1 2 3 4:J, 1 2 4:50  
REPTILES =

NDZ# = 5705  
ESI# = 67  
SHELLFISH = 1 2 3 4:131  
FISH = 1 4:L, 1 2 4:M 101 102 111^ 112^ 115^ 119, 1 2 3 4:O  
BIRDS = 1 2 3 4:1 2 5 I J, 2 3:A B 10 11 12 13 20 C 25 26 30  
REPTILES =

NDZ# = 5706  
ESI# = 66  
SHELLFISH = 1 2 4:131  
FISH = 1 4:L, 1 2 4:M 101 102 112^, 1 2 3 4:N O, 4:95 96, 1:103  
111^  
BIRDS = 3:A B 10 11 12 13 20 C 25 26 30, 1 2 3 4:1 2 5 I J, 1 2 4:8  
32  
REPTILES =

NDZ# = 5707  
ESI# = 49  
SHELLFISH = 1 2 4:131  
FISH = 1 4:L, 1 2 4:M 101 102 112^ 114^ 115^ 119, 2 3 4:N O, 1:121

BIRDS = 3:A B 10 11 12 13 20 25 26 30; 1 3 4:1 2 5, 1 2 3 4:I J, 1  
2 4:50  
REPTILES =

NDZ# = 5708  
ESI# = 46  
SHELLFISH = 1 2 4:131, 1 2 3 4:127  
FISH = 1 4:L, 1 2 4:M, 1 2 3 4:O  
BIRDS = 2 3 4:1 2 5, 2 3:10 11 12 13 25 26, 2 4:32\*, 1 2 3 4:I J  
REPTILES =

NDZ# = 5711  
ESI# = 34  
SHELLFISH = 1 2 3 4:127 131, 1 4:L, 1 2 4:M 101 112^, 1 2 3 4:N O,  
4:124  
FISH = 1 4:L, 1 2 4:M 101 112^, 1 2 3 4:N O, 4:124  
BIRDS = 3:A, 2 3:1 2 4, 1 2 3 4:I J, 1 2 4:46 50  
REPTILES =

NDZ# = 5714  
ESI# = 15  
SHELLFISH = 1 2 4:131  
FISH = 1 4:L, 1 2 4:M 101 103 O, 1 2:102 112^ 115^  
BIRDS = 2 3:A B C D 26, 1 2 4:32\* 50, 1 2 3 4:I J  
REPTILES =

NDZ# = 5804  
ESI# = 71  
SHELLFISH =  
FISH = 1 4:L 99+#, 1 2 4:M, 1 2 3 4:O  
BIRDS = 1 2 3 4:2 5 I J, 2 3:A B 20 25 26 28, 1 2 4:32  
REPTILES =

NDZ# = 5805  
ESI# = 68  
SHELLFISH = 1 2 4:131  
FISH = 1 4:L, 1 2 4:M 101 102 112^ 115^, 1 2 3 4:O, 4:114^  
BIRDS = 2 3:A B 10 11 12 13 15 20 C 25, 3:D 26 30, 1 2 3 4:1 2 5 I  
J, 1 2 4:32 53 54  
REPTILES =

NDZ# = 5806  
ESI# = 53  
SHELLFISH = 1 2 3 4:131  
FISH = 1 4:L, 1 2 4:101 102 112^ 115^, 1 2 3 4:O  
BIRDS = 3:A 5 B 10 11 12 13 20 C 25, 3 4:1 2 4 5, 1 2 3 4:I J, 1 2  
4:46  
REPTILES =

NDZ# = 5807  
ESI# = 50  
SHELLFISH = 1 2 3 4:129 131  
FISH = 1 2 4:L M 101 102 112^ 114^ 115^ 119, 1 2 3 4:O, 1:121  
BIRDS = 3:10 11 12 13 20 25 26, 1 2 3 4:1 2 5 I J, 1 2 4:32\* 50

REPTILES =

NDZ# = 5809

ESI# = 40

SHELLFISH = 1 2 4:131

FISH = 1 4:L, 1 2 4:M 101 102 104 112^, 1 2 3 4:115^ O, 2 3 4:114^,  
4:119

BIRDS = 3:A B 26, 1 2 3 4:I J, 1 2 4:46 50

REPTILES =

NDZ# = 5810

ESI# = 36

SHELLFISH = 1 2 3 4:1

FISH = 1 4:L, 1 2 4:M 101 112^, 1 2 3 4:115^ O, 4:124

BIRDS = 3:A B 26, 1 2 3 4:H I J, 1 2 4:50

REPTILES =

NDZ# = 5811

ESI# = 35

SHELLFISH = 1 2 3 4:131

FISH = 1 4:L, 1 2 4:M 101 112^, 1 2 3 4:O, 4:124

BIRDS = 3:A B 26, 2 3:1 2 5, 1 2 3 4:I J, 1 2 4:46 50

REPTILES =

NDZ# = 5813

ESI# = 17

SHELLFISH = 1 2 4:131

FISH = 1 2 4:M N O

BIRDS = 3:B C D, 1 2 3 4:I J, 1 2 4:50

REPTILES =

NDZ# = 5814

ESI# = 16

SHELLFISH = 1 2 3 4:131

FISH =

BIRDS = 1 2 3 4:I J, 1 2 4:32\* 50

REPTILES =

NDZ# = 5904

ESI# = 72

SHELLFISH = 1 2 3 4:131

FISH = 1 4:L 99+#, 1 2 4:M, 1 2 3 4:O

BIRDS = 2 3:A B 20 25 26 28, 1 2 3 4:1 2 5 I J, 1 2 4:32

REPTILES = 2 4:134+##\*

NDZ# = 5905

ESI# = 69

SHELLFISH = 1 2 3 4:128 131

FISH = 1 4:L 99+#, 1 2 4:M, 1 2 3 4:O

BIRDS = 2 3:A B 20 25 26 29, 1 2 3 4:1 2 5 I J, 1 2 4:32

REPTILES =

NDZ# = 5906

ESI# = 54

SHELLFISH = 1 2 4:131  
FISH = 1 4:L 99+#, 1 2 4:M, 1 2 3 4:O  
BIRDS = 2 3:A B 20 25 26 28, 1 2 3 4:2 5 I J  
REPTILES = 1 2 4:134+#\*

NDZ# = 5907  
ESI# = 51  
SHELLFISH = 1 2 3 4:131  
FISH = 1 4:L 99+#, 1 2 4:M, 1 2 3 4:O  
BIRDS = 1 2 4:32\* 50, 2 3:A B 20 25 26 28, 1 2 3 4:I J  
REPTILES = 2 4:134+#\*

NDZ# = 5908  
ESI# = 47  
SHELLFISH = 1 2 3 4:131  
FISH = 1 4:L 99+#, 1 2 4:M, 1 2 3 4:O  
BIRDS = 2 3:A B 20 25 26 29, 1 2 3 4:I J, 1 2 4:50  
REPTILES =

NDZ# = 5909  
ESI# = 41  
SHELLFISH = 1 2 4:131  
FISH = 1 2 4:L M 101 102 104 112^ 114^ 115^, 1 2 3 4:O  
BIRDS = 3:A B 25 26, 1 2 3 4:I J  
REPTILES =

NDZ# = 5910  
ESI# = 37  
SHELLFISH = 1 2 4:131  
FISH = 1 4:L, 1 2 4:M 101 102 104 112^ 114^ 115^, 1 2 3 4:O  
BIRDS = 3:A B 26 27 28 30, 1 2 3 4:I J, 1 4:46  
REPTILES =

NDZ# = 5912  
ESI# = 19  
SHELLFISH = 1 2 3 4:129 131  
FISH = 1 4:L, 1 2 4:M O  
BIRDS = 3:B C 26 30, 1 2 3 4:I, 1 2 4:32\* 50  
REPTILES =

NDZ# = 5913  
ESI# = 18  
SHELLFISH = 1 2 4:131  
FISH = 1 4:L 112^, 1 2 4:M 103 O, 1 2:101 102 115^  
BIRDS = 3:A B C 26 30 I, 1 2 3 4:J, 1 2 4:50  
REPTILES =

NDZ# = 6004  
ESI# = 73  
SHELLFISH = 1 2 3 4:131  
FISH = 1 4:L 99+#, 1 2 4:M, 1 2 3 4:O  
BIRDS = 2 3:A B C, 3:D 26 27 30, 1 2 3 4:I J, 1 2 4:32  
REPTILES =

NDZ# = 6005  
ESI# = 70  
SHELLFISH = 1 2 3 4:131  
FISH = 1 4:L 99+#, 1 2 4:M, 1 2 3 4:O  
BIRDS = 2 3:A B 20 25 26 28, 1 2 3 4:2 5 I J  
REPTILES = 1 2 4:134+#\*

NDZ# = 6006  
ESI# = 55  
SHELLFISH = 1 2 4:131  
FISH = 1 4:L 99+#, 1 2 4:M, 1 2 3 4:O  
BIRDS = 2 3:A B 20 25 26 28, 1 2 3 4:2 5 I J  
REPTILES = 1 2 4:134+#\*

NDZ# = 6007  
ESI# = 52  
SHELLFISH = 1 2 4:131, 1 2 3 4:128  
FISH = 1 4:L 99+#, 1 2 4:M, 1 2 3 4:N  
BIRDS = 1 2 3 4:2 5 I J, 2 3:A B 20 25 26 28, 1 2:50N  
REPTILES = 1 2 4:134+#\*

NDZ# = 6008  
ESI# = 48  
SHELLFISH = 1 2 4:131  
FISH = 1 2 3 4:M O  
BIRDS = 2 3:A B 20 25 26 29, 1 2 3 4:2 5 I, 1 2 4:50  
REPTILES = 1 2 4:134+#\*

NDZ# = 6009  
ESI# = 42  
SHELLFISH = 1 2 4:131  
FISH = 1 4:L, 1 2 4:M 101 102 104, 1 2 3 4:112^ 115^ O, 4:119  
BIRDS = 3:A B C D 26 27 28 30, 1 2 3 4:I J, 1 2 4:46 50  
REPTILES = 1:134+#\*

NDZ# = 6010  
ESI# = 39  
SHELLFISH = 1 2 3 4:131  
FISH = 1 2 4:L M 101 102 104, 1 2 3 4:112^ 115^ O  
BIRDS = 3:A B C D 26 30, 1 2 3 4:I J, 1 2 4:46  
REPTILES = 1:134+#\*

NDZ# = 6011  
ESI# = 38  
SHELLFISH = 1 2 4:131  
FISH = 1 4:L, 1 2 4:B 101 102 104, 1 2 3 4:112^ 115^ O  
BIRDS = 3:A B C D 26 30, 1 2 3 4:I J, 1 2 4:50  
REPTILES = 1 2:134+#\*

NDZ# = 6012  
ESI# = 20  
SHELLFISH = 1 2 4:131  
FISH = 1 4:L, 1 2 4:M O, 3 4:114^  
BIRDS = 3:A B C 26 30, 1 2 4:32 50, 1 2 3 4:I J

REPTILES =

NDZ# = 6104

ESI# = 74

SHELLFISH = 1 2 3 4:131

FISH = 1 2 4:M, 1 2 3 4:O

BIRDS = 1 2 3 4:2 5 I J, 1 2 4:32, 2 3:A B 20 25 26 28

REPTILES = 1 2 4:134+##\*

NDZ# = 6204

ESI# = 75

SHELLFISH = 1 2 3 4:131

FISH = 1 2 3 4:O, 1 2 4:M

BIRDS = 2 3:A B 20 25 26 28, 1 2 3 4:2 5 I J, 1 2 4:F

REPTILES = 1 4:134+##\*

NDZ# = 6205

ESI# = 103

SHELLFISH = 1 2 3 4:131

FISH = 1 2 4:M, 1 2 3 4:O

BIRDS = 1 2 3 4:I J, 2 3:A B 20 25 26 27

REPTILES = 1 4:134+##\*

NDZ# = 6206

ESI# = 100

SHELLFISH = 1 2 3 4:131

FISH = 1 4:L 99+##, 1 2 4:M

BIRDS = 2 3:A B C, 1 2 3 4:1 2 F I J, 3:28 30, 1 2 4:32 50

REPTILES = 1 4:134+##\*

NDZ# = 6207

ESI# = 96

SHELLFISH = 1 2 3 4:131

FISH = 1 4:L 99+##, 1 2 4:M, 1 2 3 4:O

BIRDS = 2 3:A B C, 1 2 3 4:1 2 45 J, 3:28 30, 1 2 4:32 F 50

REPTILES = 1 4:134+##\*

NDZ# = 6212

ESI# = 21

SHELLFISH = 1 2 4:131

FISH = 1 4:L, 1 2 4:M 112^, 1 2 3 4:O

BIRDS = 2 3:A B C, 3:D 26 27 30, 1 2 4:F 50, 1 2 3 4:I J

REPTILES = 1:134+##\*

NDZ# = 6301

ESI# = 78

SHELLFISH = 1 2 3 4:131

FISH = 1 2 4:M

BIRDS = 3:A C 26 28 31 50, 1 2 3 4:I J, 2 3:G(+##\*), 2:51+##\*

REPTILES = 1 4:134+##\*

NDZ# = 6302

ESI# = 77

SHELLFISH = 1 2 3 4:131



FISH = 1 2 4:M  
BIRDS = 3:C 26 28, 1 2 4:F 50 H, 1 2 3 4:I J  
REPTILES = 1 4:134+##\*

NDZ# = 6303  
ESI# = 76  
SHELLFISH = 1 2 3 4:131  
FISH = 1 2 4:M  
BIRDS = 3:C 26, 1 2 3 4:I J  
REPTILES = 1 4:134+##\*

NDZ# = 6305  
ESI# = 104  
SHELLFISH = 1 2 4:131, 1 2 3 4:127 128  
FISH = 1 2 4:M 100 101 102 103 106 111^ 114^ 115^, 1 2 3 4:O  
BIRDS = 1 2 4:36\* F 50 51+##\*, 3:A B C D 26 27 28 30, 1 2 3 4:1 2 I  
J, 2 3 4:52  
REPTILES = 1 4:134+##\*

NDZ# = 6306  
ESI# = 101  
SHELLFISH = 1 2 3 4:131  
FISH = 1 2 4:M 100 101 102 103 106 111^ 114^ 115^  
BIRDS = 2 3:A B C, 1 2 3 4:1 2 F 50 51+##\* 52 I J, 3:28 30, 1:36\*  
REPTILES = 1 4:134+##\*

NDZ# = 6307  
ESI# = 97  
SHELLFISH = 1 2 3 4:131  
FISH = 1 2 4:M 100 101 102 103 106 111^ 114^ 115^, 1 2 3 4:O  
BIRDS = 2 3:A B C, 1 2 3 4:1 2 F 52 I J, 3:28 30, 1 2 4:50  
REPTILES = 1 4:134+##\*

NDZ# = 6308  
ESI# = 93  
SHELLFISH = 1 2 4:131  
FISH = 1 4:L, 1 2 4:M, 1 2 3 4:112^ 115^ O  
BIRDS = 3:A B D 26 27 28 30 31, 3 4:C 21 22 23 25, 1 2 4:50 H, 1 2  
3 4:I J  
REPTILES = 1 2 4:134+##\*

NDZ# = 6309  
ESI# = 90  
SHELLFISH = 1 2 4:131  
FISH = 1 4:L, 1 2 4:M 102 104 106 114^, 1 2 3 4:112^ 115^ O  
BIRDS = 3:A B D 26 27 28 30 31, 1 2 3 4:1 2 I J 85+##\*, 3 4:C 21 22  
23 25, 1 2 4:46 50 H  
REPTILES = 1:134+##\*

NDZ# = 6310  
ESI# = 86  
SHELLFISH = 1 2 4:131  
FISH = 1 4:L, 1 2 4:M 112^ O  
BIRDS = 3:A B D 26 27 30, 2 3:C, 1 2 3 4:1 2 I J, 1 2 4:46 50 54

REPTILES = 1:134+##\*

NDZ# = 6311

ESI# = 81

SHELLFISH = 1 2 4:131

FISH = 1 4:L, 1 2 4:M, 1 2 3 4:112^ O

BIRDS = 1 2 3 4:1 2 I J, 2 3:A B C 26 27 30, 1 2 4:F 52

REPTILES = 1 2 4:134+##\*

NDZ# = 6312

ESI# = 22

SHELLFISH = 1 2 4:131, 1 2 3 4:128

FISH = 1 4:L, 1 2 4:M, 1 2 3 4:112^ O

BIRDS = 2 3:A B C, 1 2 4:F 50, 1 3 4:1 2, 3:D 26 27 28 30, 1 2 3 4:52 I J 80+##\*

REPTILES = 1:134+##\*

NDZ# = 6406

ESI# = 102

SHELLFISH = 1 2 3 4:131

FISH = 1 2 4:M 100 101 102 103 106 114^ 115^, 1 2 3 4:O

BIRDS = 2 3:A B C D 26 27 28 30, 1 2 3 4:1 2 F 52 I J, 1:36\*, 1 2 4:51+##\*

REPTILES = 1 4:134+##\*

NDZ# = 6407

ESI# = 98

SHELLFISH = 1 2 3 4:131

FISH = 1 2 4:M 100 101 102 103 106 111^ 114^ 115^, 1 2 3 4:O

BIRDS = 2 3:A B C D 26 27 28 30, 1 2 4:F 51+##\* 75N 84N, 1 2 3 4:1 2 F 52 I J, 1:36\*

REPTILES = 1 4:134+##\*

NDZ# = 6408

ESI# = 94

SHELLFISH = 1 2 3 4:127 128 131

FISH = 1 2 4:M 100 101 102 103 106 111^ 114^ 115^, 1 2 3 4:O

BIRDS = 2 3:A B C D 26 27 28 30, 1 2 3 4:1 2 52 I J, 1 2 4:36\* F 51+##\*

REPTILES = 1:134+##\*

NDZ# = 6409

ESI# = 91

SHELLFISH = 1 2 3 4:128 131

FISH = 1 2 3 4:O, 1 2 4:M 100 101 102 103 106 111^ 114^ 115^

BIRDS = 2 3:A B C, 1 2 3 4:1 2 D 26 27 28 30 52 I J, 1 2 4:F 51+##\*, 1:36\*

REPTILES = 1:134+##\*

NDZ# = 6410

ESI# = 87

SHELLFISH = 1 2 4:131

FISH = 1 4:L, 1 2 4:M, 1 2 3 4:O

BIRDS = 3:A B D, 2 3:C, 1 2 3 4:1 2 I J, 1 2 4:46 H, 2:50

REPTILES = 1:134+##\*

NDZ# = 6411

ESI# = 82

SHELLFISH = 1 2 4:131

FISH = 1 4:L, 1 2 4:M, 1 2 3 4:O

BIRDS = 3:A B C D 26 27 30, 1 2 3 4:1 2 I J, 1 2 4:46

REPTILES = 1:134+##\*

NDZ# = 6412

ESI# = 23

SHELLFISH = 1 2 4:131

FISH = 1 4:L, 1 2 4:M, 1 2 3 4:O

BIRDS = 1 2 3 4:2 I J 80+##\*, 2 3:A B C, 3:26 27 30, 1 2 4:H 50 83  
84

REPTILES =

NDZ# = 6507

ESI# = 99

SHELLFISH =

FISH = 1 2 4:M 100 101 102 103 106 111^ 114^ 115^

BIRDS = 2 3:A B C D 26 27 28 30, 1 2 3 4:1 2 F 52 I J, 1:36\*

REPTILES = 1 4:134+##\*

NDZ# = 6508

ESI# = 95

SHELLFISH = 1 2 3 4:128 131

FISH = 1 2 4:M 100 101 102 103 106 111^ 114^ 115^, 1 2 3 4:O

BIRDS = 2 3:A B C, 1 2 4:F 51+##\*, 1 2 3 4:1 2 D 26 27 28 30 52 I J,  
1:36\*

REPTILES = 1:134+##\*

NDZ# = 6509

ESI# = 92

SHELLFISH = 1 2 3 4:128 131

FISH = 1 2 3 4:O, 1 2 4:M 100 101 102 103 106 111^ 114^ 115^

BIRDS = 2 3:A B C, 1 2 3 4:1 2 D 26 27 28 30 52 I J, 1 2 4:F 51+##\*,  
1:36\*

REPTILES = 1:134+##\*

NDZ# = 6510

ESI# = 88

SHELLFISH = 1 2 3 4:131

FISH = 1 2 4:M 100 101 102 103 106 111^ 114^ 115^, 1 2 3 4:O

BIRDS = 2 3:A B C, 1 2 4:F 51+##\*, 1 2 3 4:1 2 D 26 27 28 30 52 I J,  
1:36\*

REPTILES = 1:134+##\*

NDZ# = 6511

ESI# = 83

SHELLFISH = 1 2 4:131

FISH = 1 4:L, 1 2 4:M O, 1 2 3 4:112^

BIRDS = 2 3:A B, 3:C D, 1 2 3 4:1 2 H I J, 1 2 4:46 50

REPTILES = 1 4:134+##\*

NDZ# = 6512  
ESI# = 24  
SHELLFISH = 1 2 4:131  
FISH = 1 4:L, 1 2 4:M, 1 2 3 4:O  
BIRDS = 2 3:A B C D, 1 2 4:F, 1 2 3 4:55 I, 1:50  
REPTILES = 1 4:134+##

NDZ# = 6610  
ESI# = 89  
SHELLFISH = 1 2 3 4:128 131  
FISH = 1 2 4:M 100 101 102 103 106 111^ 114^ 115^, 1 2 3 4:O  
BIRDS = 2 3:A B C, 1 2 3 4:1 2 D 26 27 28 30 52 I J, 1 2 4:F 51+##,  
1:36\*  
REPTILES = 1:134+##

NDZ# = 6611  
ESI# = 84  
SHELLFISH = 1 2 3 4:128 131  
FISH = 1 2 4:M 100 101 102 103 106 111^ 114^ 115^, 1 2 3 4:O  
BIRDS = 2 3:A B C, 1 2 3 4:1 2 D 26 27 28 30 52 I J, 1 2 4:F 51+##,  
1:36\*  
REPTILES = 1:134+##

NDZ# = 6711  
ESI# = 85  
SHELLFISH = 1 2 3 4:131  
FISH = 1 2 4:M, 4:114^, 1 2 3 4:O  
BIRDS = 2 3:A B C 26, 1 2 3 4:1 2 F 52 I J 85+##, 3:D, 1:36\*, 1  
2:51+##  
REPTILES = 1:134+##

NDZ# = 6712  
ESI# = 79  
SHELLFISH = 1 2 3 4:128 131  
FISH = 1 2 4:M, 1 2 3 4:O  
BIRDS = 2 3:A B C 26, 1 2 3 4:1 2 4 5 I 57+## 72 J, 3:D, 1:36\*,  
2:G(+##), 1 2:51+##  
REPTILES = 1:134+##

NDZ# = 6812  
ESI# = 80  
SHELLFISH = 1 2 3 4:128 131  
FISH = 1 2 4:M, 1 2 3 4:O, 3 4:114^  
BIRDS = 3:A B C D 27 28 30, 1 2 3 4:1 2 4 F 51+## I J, 2 3 4:26 31,  
1:36\*, 1 2 4:57+## 70+##, 2:G(+##)  
REPTILES = 1 4:134+##