SEA TURTLE NESTING HABITAT SURVEY

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EXECUTIVE SUMMARY

In November of 1991 the Florida Department of Natural Resources (DNR) received a grant from the Florida Department of Environmental Regulation, Office of Coastal Management to complete a Sea Turtle Nesting Habitat Survey for the State's prime turtle nesting beaches. Funds were made available through the National Oceanic and Atmospheric Administration under the Coastal Zone Management Act.

Greater than ninety percent of the total sea turtle nesting in the United States occurs in Florida, primarily along the Atlantic coast. The DNR oversees the administration of a number of programs which directly or indirectly affect marine turtle nesting. The Division of Marine Resources (DMR) is responsible for administering the Marine Turtle Protection Program, the mission of which is to promote the recovery of the five species of sea turtles that occur in Florida. The Division of Beaches and Shores (DBS) is responsible for regulating coastal construction through the Coastal Construction Control Line Program.

Although efforts to protect sea turtles in Florida were initiated over 85 years ago, and efforts continue at the state and federal level, the survival of each species is still in jeopardy. One fundamental weakness in sea turtle protection is the lack of comprehensive habitat protection, especially nesting habitat.

DMR, in cooperation with the United States Fish and Wildlife Service (USFWS), has been collecting marine turtle nesting data from 27 "Index Nesting Beaches" since 1989. Surveys of these beaches represent about 85% of the nesting activity in the state. Likewise, DBS has indirectly collected habitat quality data for these and other beaches through a number of their programs.

Historically, the data collection efforts of the DBS and DMR have been accomplished independent of one another. This inventory serves to consolidate the available data from each source in a format that will allow analysis of nesting trends with respect to habitat quality and will provide a useful tool for planning and regulatory beach management activities.

Part I

INTRODUCTION

Greater than ninety percent of the total sea turtle nesting in the United States occurs in Florida, primarily along the Atlantic coast. The sandy beaches from Brevard through Broward counties support the largest nesting colony of threatened loggerhead sea turtles (Caretta) in the western hemisphere, and the second largest in the world. The southeast coast also provides important nesting habitat for the U.S. populations of two endangered species: the green turtle (Chelonia mydas) and the leatherback (Dermochelys coriacea). The endangered hawksbill (Eretmochelys imbricata) and Kemp's ridley (Lepidochelys kempi) occasionally nest on Florida's beaches. Although the most extensive nesting occurs on the east coast, there is also significant nesting on certain west coast beaches.

Florida's efforts to protect sea turtles were initiated in 1907 when legislation was passed restricting the harvest of marine animals. By 1974, Florida law completely protected all sea turtles. More recently prohibitions on harvesting the rare turtles were strengthened to include incidental catch during fishing operations. Additional protection has been provided by regulations addressing coastal construction, armoring, beachfront lighting, beach driving, and the release of lighter than air balloons.

Because of the extent and diversity of nesting activity in the state, Florida's sea turtle population can be considered a national resource. Hence, federal sea turtle protection efforts closely parallel those of the State. By 1979, the Endangered Species Act provided protection for all five sea turtle species that occur in Florida waters. The USFWS has furthered habitat protection by, among other things, designating the Archie Carr National Wildlife Refuge in Brevard and Indian River counties. In addition to state restrictions, the National Marine Fisheries Service has implemented its own restrictions on incidental catch of turtles.

Despite these efforts, human activity continues to affect sea turtles populations. Through intentional harvesting, incidental catch, and the alteration and destruction of nesting and foraging habitat, the populations of each species have been severely impacted. One fundamental weakness in sea turtle protection efforts is the lack of comprehensive habitat protection, especially nesting habitat. Miles of suitable nesting habitat have been lost or severely impacted by development and coastal armoring. Severely eroding beaches, often associated with structurally improved inlets, also represent a potential threat to the preservation of nesting habitat.

To address these issues, the USFWS has recently updated the recovery plans for the U.S. populations of the loggerhead, green turtle, leatherback, and kemp's ridley. The plans are intended to improve coordination of the recovery programs required under the Endangered Species Act. The plans identify specific tasks designed to promote the recovery of each species. Separate species plans have been developed to provide greater focus and to emphasize the uniqueness of individual species. Each plan recognizes the importance of obtaining accurate nesting data in understanding regional trends and in evaluating the extent, quality and stability of nesting habitat.

In an effort to standardize sea turtle nesting data collection methodologies, a cooperative agreement in 1989 by the Department of Natural Resources, Florida Marine Research Institute (FMRI) and the USFWS resulted in the establishment of "Index Nesting Beach Surveys". The surveys serve a dual purpose of providing a long term index of statewide nesting activity from which statistically and scientifically valid conclusions regarding the status of nesting populations can be derived, and providing standardized data which can be utilized to evaluate the effects of degradation or enhancement of nesting habitat on nesting populations. Under the program, 27 "index nesting beaches", comprising 197 miles of shoreline and approximately 85% of all nesting in Florida, are systematically monitored for nesting activity. A data base has been developed by FMRI to maintain the data collected and to allow preparation of summary information and detailed analysis of index nesting data.

Likewise, the Division of Beaches and Shores (DBS) has indirectly collected habitat quality data for these and other beaches through a number of their programs. Pertinent physical information is available through coastal construction permit files, coastal construction control line documentation, the 1990 armoring policy report, habitat studies for beach restoration planning, aerial photography, and aerial videos of the state's coastline.

Historically, the data collection efforts of the DBS and FMRI have been undertaken independently of one another. The primary purpose of the federally funded Sea Turtle Nesting Habitat Survey is to consolidate the available data from each source in a format which is easily accessible to field and office personnel and is useful for planning and regulatory beach management activities. The survey can be used to query daily nesting events by species, physical beach characteristics, and habitat endangering conditions such as shoreline erosion and construction, as well as to determine what additional data is needed to fill information gaps.

The inventory will allow assessment of turtle nesting habitat quality, prediction of long-term habitat availability, and will assist in the identification of nesting areas for protection. Applications could include the development of nesting beach protection standards, beach management planning, and nesting habitat restoration, all on a more comprehensive statewide basis. A complete set of disks containing the GIS and the data bases has been provided to both DBS and DMR.

Part II

METHODOLOGY

The index nesting beach geographic information system was created using historic shoreline change maps as base maps for plotting the location of turtle nesting activities, and beach characteristics. These maps contain several different shorelines for each nesting area, ranging in time from the mid-1800's to the early 1980's, and are stored in an Autocad-compatible computerized mapping format. The historic shoreline change maps were scaled into meters and projected into a universal transverse mercator (UTM) coordinate system. Arc-info coverages were created from the shorelines by using Arcad, a computer mapping program that transforms an Autocad drawing entity into an arc-info feature and give it topology. Arcad stores its locational information in a data base (.DBF compatible format) so that other information about a particular map feature can easily be stored together with the locational information. The remainder of the data for the system was obtained from four general areas - turtle nesting activity, adjacent land use, armoring, and beach profile characteristics.

Turtle nesting data have been collected since 1989 as part of the index nesting beach program administered by Florida Marine Research Institute (FMRI) personnel. There are twenty-seven index nesting beaches, encompassing approximately 197 miles of Florida's coastline. Each index nesting beach is divided into zones of approximately one kilometer in length. Data collected over the three year period from 1989 to 1991 were catalogued by zone and computerized into a data base (.DBF compatible) format. The zone boundaries were recorded in degrees, decimal minute readings for longitude and latitude directions, using a global positioning system. Zone boundary readings were projected into UTM meter coordinates which were then plotted on the historic shoreline change maps, converted to arc-info coverages, and linked to the appropriate nesting data files.

Land use characteristics adjacent to the index nesting beaches were examined using data from aerial photography and airplane fly-over videos (1992). The beginning and end points of each index nesting beach were located on aerial maps. The fly-over videos were viewed and six different land use categories were sought and recorded on the aerial maps for each index nesting beach. Recorded land use categories include single and multi-family residential, commercial, mixed use, recreation, and undeveloped land. Visible armoring, the extent of vegetative cover, and the presence or absence of dune systems were also recorded on the aerial maps. The common locational links between the aerial maps and the historic shoreline change maps are the DNR range monuments. Land use information was measured and converted to the percentage of each land use type between a particular pair of DNR range monuments. These percentages were then computerized and attached to the DNR range monument locational markers on each historic shoreline change map.

Information on beach armoring was obtained from the DBS permit file data base which includes all beach armoring and construction activities that have been permitted through DBS. All permit locational information contained in the permit file data base is referenced by DNR range monuments. Information on the type and date of the activity, permit number, name of the permit holder, and the distance and direction of the activity from a particular DNR range monument, were

collected for the following categories: breakwater or jetty; bulkhead or seawall; groin; revetment or toe scour protection; sandbag structure; fill; and, beach nourishment.

Data from these activities were entered into a computerized data base for each index nesting beach, located on the historic shoreline change maps using DNR range monuments as reference points, and plotted adjacent to the shoreline on which they occur.

Beach profile data were collected as part of an ongoing shoreline monitoring program conducted by DNR's Division of Beaches and Shores. The Division provided data points on the elevation of the beach at a specific distance from a particular DNR range monument. The dates of data collection for each index nesting beach vary, but the data were the most recent available at the time of this writing. These data points were furnished in a .DXF file format for import into the Autocad drawing editor and were then converted into an arc-info coverage.

Part III

CONCLUSIONS AND RECOMMENDATIONS

The completion of the Sea Turtle Nesting Habitat Survey will contribute significantly to improved management and protection of turtle nesting habitat in Florida. By consolidating nesting data with physical beach attribute data associations can be drawn between the two sets of data. The inventory provides a useful tool for research, planning, and regulatory beach management.

However, there are issues that must be addressed to ensure its usefulness in the future. Most important is the continued management and updating of the inventory, without which it will become obsolete. FMRI should be responsible for overall management and for maintaining a "master" version of the database and GIS. Periodic updates should be accomplished and redistributed to the appropriate users throughout the Department. DBS should designate staff to cooperate with FMRI in conducting this task.

Regarding recommendations for future use, without implementing the system it is not possible to identify fully its capabilities and flaws. To ensure the inventory not only continues to be useful, but is improved upon, management should address the following considerations:

- Conduct ongoing needs assessment. As the system is put into use, practical modifications may be recognized concerning the data scale, data structure, and application functionality, all of which are dependent on who is using the inventory and for what purposes;
- Compile a comprehensive, detailed listing of each database that includes information about the origin of the data and a detailed listing of each attribute in each database. The scale, date collected, update frequency, attribute definitions, units of measurement, and limitations of the data should be documented, at a minimum. Data transfer and update protocols need to be developed and organizational responsibilities identified;
- Protocol for data access should also be addressed. Because the turtle nesting data is intrinsically sensitive, database design and application functionality should reflect the goal of accurately portraying the nuances of the data while maintaining security;
- The database portion of the survey should be integrated into the GIS of the Coast of Florida Erosion and Storm Effects Study GIS, which is being completed by DBS;
- Include the most appropriate digital shoreline for future application development. The Coastal and Marine Resource Assessment (CAMRA) group at FMRI uses a 1:40,000 shoreline that is more current than the historic shoreline. This shoreline was used to develop the GIS, but problems were encountered when attempting to use the full shoreline in a PC environment. The historic shoreline segments used as "base" shorelines in the system should be used temporarily until a more appropriate shoreline can be employed.

- The DBS monument database includes a rich collection of attributes that describe the site and situation at each monument. The absence of these attributes from the inventory limits the utility of the application for analyzing the relationship of nesting activity to habitat characteristics. After reviewing the Coast of Florida Erosion and Storm Effects Study Geographic Information System, pertinent attributes should be selected, obtained and integrated with the turtle nesting data sets;
- Consider the relationship of the turtle nesting habitat inventory to CAMRA's prototype oil spill application. CAMRA is developing a prototype Automate Oil Spill Sensitivity Atlas. This GIS application is a structured oil spill management tool that brings together a variety of coastal resource databases to identify those areas sensitive to oiling. The existing oil spill prototype does not include turtle nesting data, but the State of Florida-Marine Spill Analysis System, Database Acquisition and Application Development Manual specifically identifies the need for treatment of turtle nests. Direct compatibility with the oil spill application should be a goal when considering the turtle nesting application specifications;
- Include the addresses, and phone numbers of the permit holders in the inventory. This would make it easier for department staff to contact the appropriate person when information is needed. FMRI maintains a list of permit holders;
- Gaps in information should be filled in. This survey includes data for 22 of 27 index nesting beaches in Florida. Because of difficulties in obtaining GPS readings on the remainder of the index nesting beaches and because of the lack of data and digitized shoreline for one of the inland nesting beaches, they have not been included. Nesting data is available for these beaches and they should be included in the future. Department staff would have a greater ability to manage beach resources if information were available for all of these index nesting beaches and, ultimately, other beaches where information is available; and,
- Include information in the inventory concerning nesting productivity, rather than just the number of nests and false crawls.

Appendix I

NOTES TO THE USER

A complete set of disks containing the GIS and the data bases has been provided to both the Division of Beaches and Shores and the Division of Marine Resources. The index nesting beach GIS can be installed on an IBM-compatible personal computer with the following minimum specifications:

MS-DOS version 3.1 or higher
Intel 80386 processor
6 Megabytes (MB) Random Access Memory (RAM)
Microsoft-compatible mouse
3 1/2 inch disk drive
hard disk with at least 60 MB of free space

Note that not all IBM-compatible computers are the same. While the GIS will work on a computer that is compatible with the IBM-AT, Intel 80386 processors, faster results will be obtained with machines containing a math co-processor, and comparable with the Intel 80486 processors. Note also, that the 6 MB RAM requirement is the minimum. The GIS system interface will usually make use of any additional RAM available, resulting in a faster system response time.

The index nesting beach GIS has been developed using the Autocad map drawing editor and Arcad geographical information system development software. These software packages are only necessary when creating arc-info coverages (land use features) for the system. Primary users of the system have been provided with a copy of Arcview to use as an interface to the arc-info coverages. Arcview provides the user with a means to access, query, manipulate, and produce results of the GIS information, both on the computer screen and in hard copy, without altering the physical data in the system.

The Arcview software must be run in the 386-enhanced mode of the Windows 3.1 environment. Arcview is fully menu-driven and user friendly. The file search process is automatically set up to look for arc-info coverages on the local hard drive. Coverages can be retrieved in any manner or quantity desired by the user - the lack of sufficient RAM being the only barrier. The Arcview software has a "read-only" relationship with the physical data on disk. The user may overlay arc-info coverages from different GIS systems on the same screen, or retrieve coverages with the same attribute definitions without overwriting the information.

Once coverages are retrieved and manipulated in Arcview, the results can be saved in a separate file called a view (a user-named file with an .AV extension). Views contain information on the location of the data and status of the user's work settings. Template views have been created for each of the index nesting beaches and will be backed up and provided to users for restoration to their hard drive in the following format:

c:\arcview\turtles\inb01.av	·
inb02.av	
•••••	
c:\arcview\turtles\inb28.av	
(where "inb" is index nesting be-	ach and the number is the beach number - assuming c: is
the destination drive)	

These files can only be used when Arcview has access to the physical data. The actual GIS coverage information must be present on disk. Views are nothing more than an address and status file for the user's work. Any attempt at retrieving a view when the physical data is not present, will not damage the view. The view can be used again when the physical data is returned to its former location.

The coverages for the index nesting beach GIS will be backed up and provided to users for restoration to their hard drive in the following format:

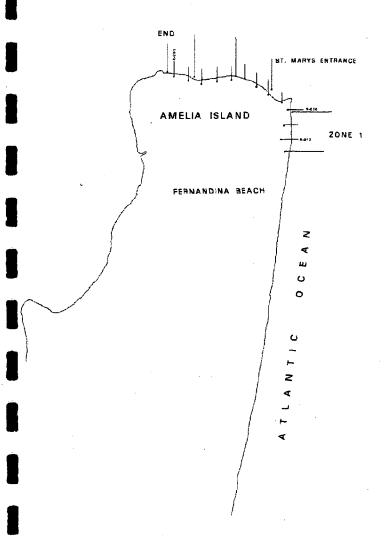
c:\data\arcad\turtles\inb01\
\inb02\
c:\data\arcad\turtles\inb28\
c:\data\arcad\turtles\nassau\
\stjohns\
c:\data\arcad\turtles\collier\

The directories labeled "inb..", mark the beginning of a separate set of sub-directories which contains the arc-info data base and support files for each index nesting beach. The directories labeled with a Florida county name begin a separate set of sub-directories which contains the arc-info data base and support files for the historic shoreline change maps and beach profile data for that county.

Appendix II

INDEX NESTING BEACH MAPS

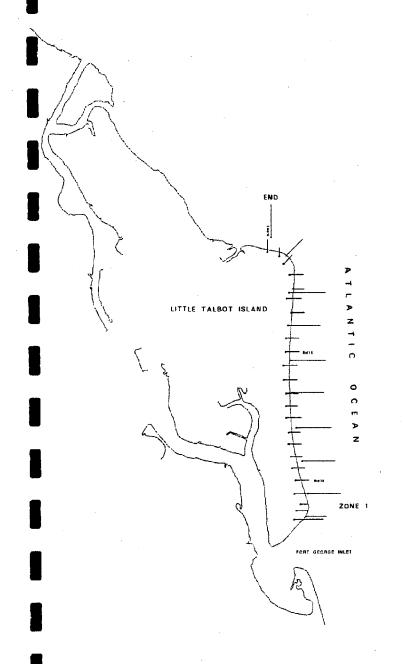
This appendix contains maps of each index nesting beach. The maps show the location of the base shoreline, GPS readings, nesting zones, range monuments, and permitted armoring. The maps provide a geographical reference for the index nesting beach data.



Fort Clinch State Park Index Nesting Beach #1 Nassua County

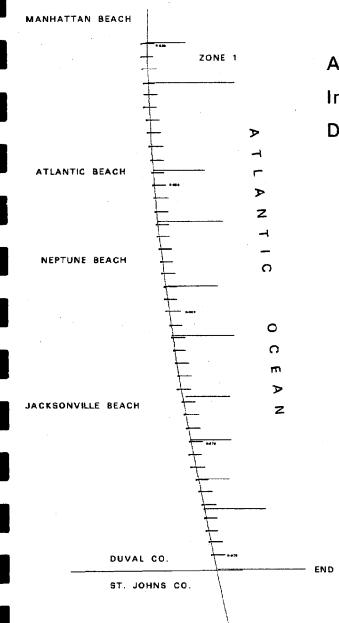






Little Talbot Island State Park Index Nesting Beach #3 Duval County





Atlantic-Jacksonville Beach Index Nesting Beach #4 Duval County

R-MONUMENT/PERMITS

GPS READINGS

BASE SHORELINE

LAND USE PERCENTAGES

NESTING ZONES

COUNTY LINE





Guana River State Park Index Nesting Beach #5 St. John's County

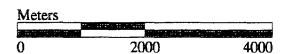
BASE SHORELINE

GPS READINGS

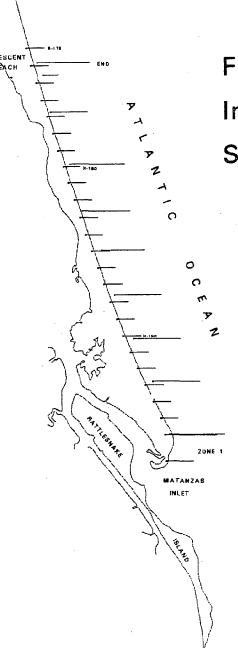
NESTING ZONES

R-MONUMENTS/PERMITS

LAND USE PERCENTAGES



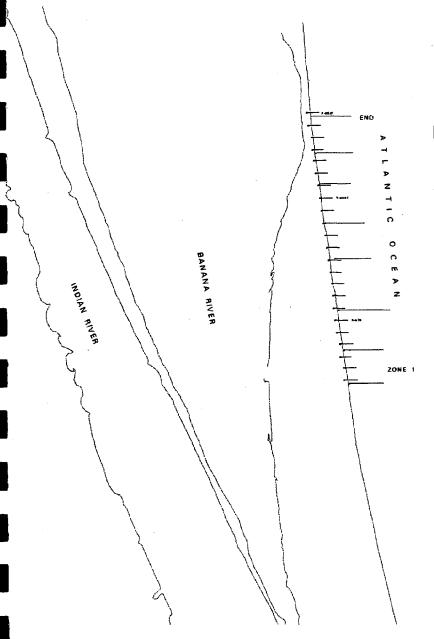
R-100 ZONE 1



Ft. Mantanzas Monument Index Nesting Beach #6 St. John's County

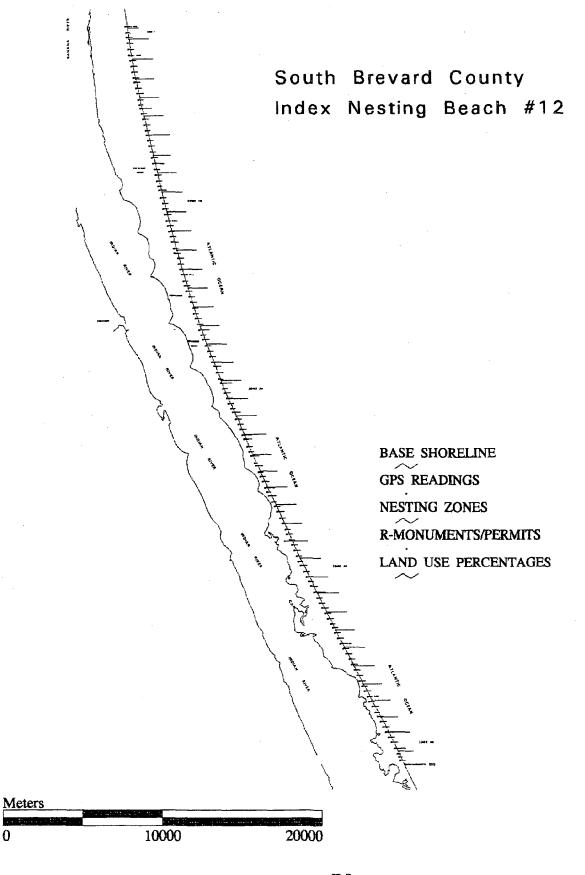
BASE SHORELINE
GPS READINGS
NESTING ZONES
LAND USE PERCENTAGES
R-MONUMENTS/PERMITS

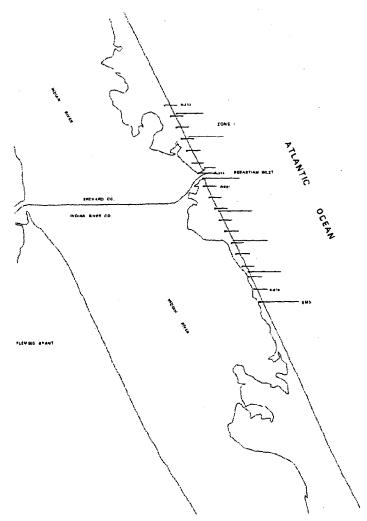




Patrick Air Force Base Index Nesting Beach #11 Brevard County



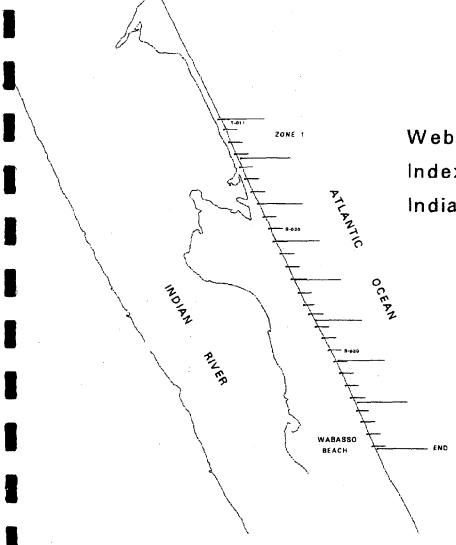




Sebastian Inlet SRA Index Nesting Beach #13 Brevard/Indian River Counties



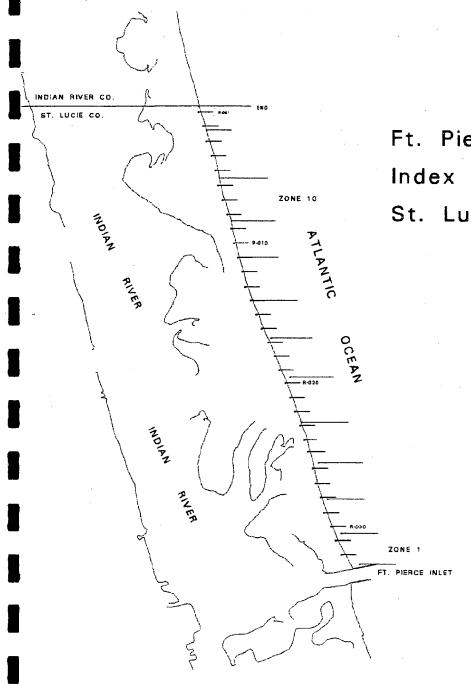




Webasso Beach Index Nesting Beach #14 Indian River County



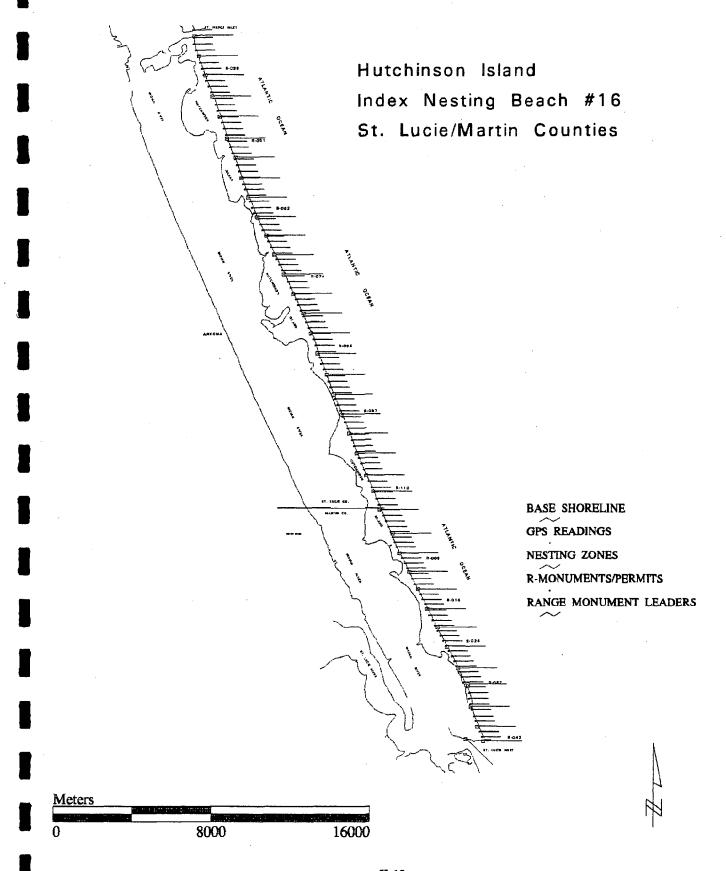




Ft. Pierce Inlet SRA Index Nesting Beach #15 St. Lucie County







TLANTIC OCEAN

St. Lucie Inlet State Preserve Index Nesting Beach #17
Martin County

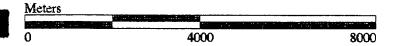
BASE SHORELINE

GPS READINGS

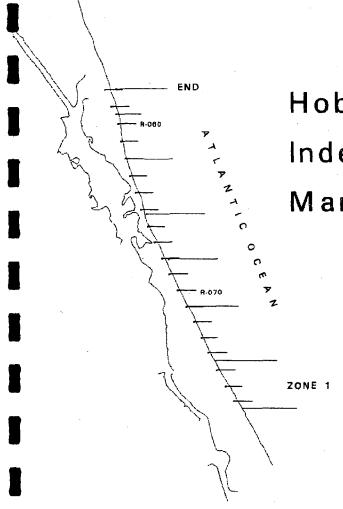
NESTING ZONES

R-MONUMENTS/PERMITS

LAND USE PERCENTAGES





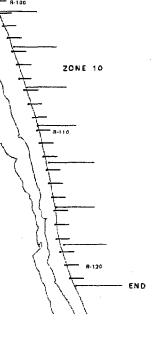


Hobe Sound NWR
Index Nesting Beach #18
Martin County





Jupiter Island
Index Nesting Beach #19
Martin County

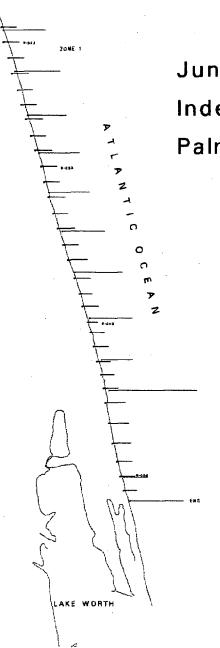


BASE-SHORELINE
GPS-READINGS
.
NESTING ZONES
R-MONUMENTS/PERMITS
.
LAND USE PERCENTAGES



ZONE 1

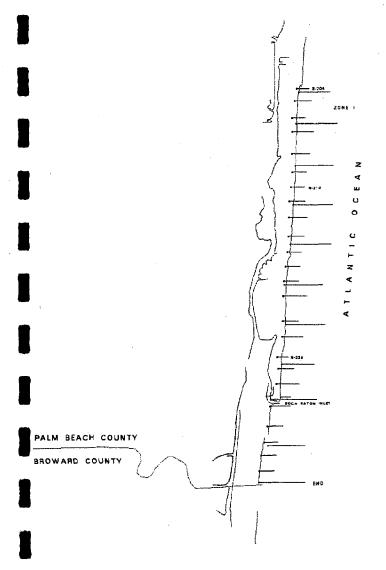




Juno Beach Index Nesting Beach #20 Palm Beach County



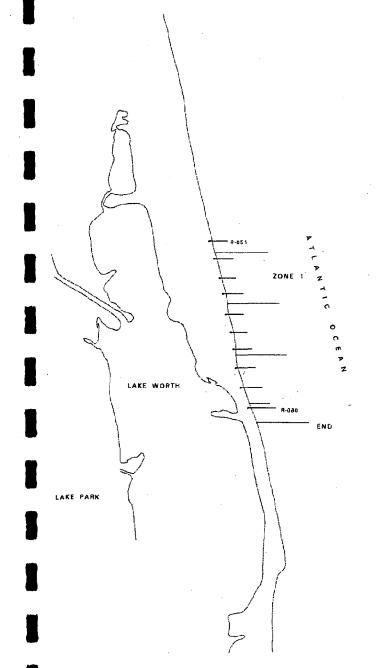




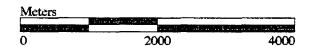
Boca Raton Index Nesting Beach #21 Palm Beach County



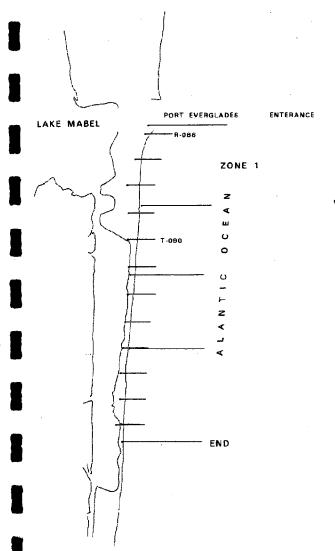




J.D. McArthur State Park Index Nesting Beach #22 Palm Beach County



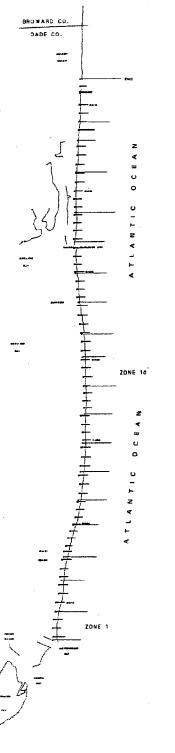




John U. Lloyd SRA Index Nesting Beach #23 Broward County







Miami Beaches Index Nesting Beach #24 Dade County





SANIBEL ISLAND

Sanibel Island
Index Nesting Beach #26
Lee County

BASE SHORELINE

GPS READINGS

NESTING ZONES

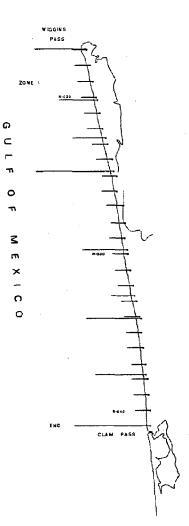
R-MONUMENTS/PERMITS

LAND USE PERCENTAGES





Wiggins Pass SRA Index Nesting Beach #27 Collier County





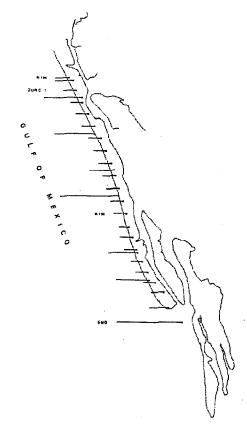


Keewaydin Island Index Nesting Beach #28 Collier County

BASE SHORELINE
GPS READINGS
NESTING ZONES
R-MONUMENTS/PERMITS

LAND USE PERCENTAGES









Appendix III

INDEX NESTING BEACH DATA

This appendix contains a printout of the data base files contained in the GIS for Hutchinson Island (Index Nesting Beach No. 16). Because of the excessive size of the database, hard copy of the data for each index nesting beach has not been included. The Hutchinson Island information is included as an example.

The first data base printout displays the land use data collected for that beach. These data show the percentages of several types of land use and beach armoring found between each pair of DNR range monuments. In the GIS, land use data is attached to the range monument leaders shown on the maps. The distance between range monument leaders can be considered a land use zone. The information for each zone is attached to the range monument leader to the north of the zone. For example, the land use data for the area between range monuments R-001 and R-002, would be attached to range monument leader R-001.

The next data base printout, beginning on page III-27, shows the permit information for several different types of beach armoring. In the GIS, these data are connected to the actual range monument locational markers. These markers appear on the map as points, attached to the base of each range monument leader. Permit data are connected to the closest range monument north, of the northern point of beginning for each type of beach armoring. For example, if the distance between range monuments R-001 and R-002 is 400 meters, and a seawall begins 300 meters south of R-001, the permit information for the seawall will be located at range monument R-001.

The third data base, beginning on page III-34, contains the turtle nesting data collected for the years 1989, 1990, and 1991. The GIS stores these data in the nesting zone leaders. Turtle nesting zones begin as "Zone 1" at the north end of the beach, and are numbered consecutively in a southerly direction, for most beaches. However, for some beaches the turtle nesting zones begin on the south end of the beach and travel north. The beginning and end points of these beaches are labeled to avoid confusion.

FLORIDA DEPARTMENT OF NATURAL RESOURCES Sea Turtle Nesting GIS 04/24/93

Land Use/Armoring Percentages Index Nesting Beach #16

Range Monument: R-033

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	0%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	18%	Vegetative Cover:	LOW
Undeveloped:	82%	•	

Range Monument: R-034

Single Family:	10%	Revetment/Toe Scour:	0%
Multi Family:	45%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	20%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	LOW
Undeveloped:	25%	-	

Range Monument: R-035

Single Family:	15%	Revetment/Toe Scour:	0%
Multi Family:	12%	Bulkhead/Seawall:	0왕
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	LOW
Undeveloped:	53%	-	

Range Monument: R-036

Single Family:	40%	Revetment/Toe Scour:	0%
Multi Family:	10%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	. 6%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	LOW
Undeveloped:	40%		

Range Monument: R-037

Single Family:	15%	Revetment/Toe Scour:	0%
Multi Family:	12%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	73%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	LOW
Undeveloped:	0%		

Single Family:	20%	Revetment/Toe Scour:	0%
Multi Family:	15%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	65%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	LOW
Undeveloped:	0%	_	

Range Monument: R-039

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	30%	Bulkhead/Seawall:	0%
Commercial:	35%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	LOW
Undeveloped:	· 35%		

Range Monument: R-040

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	0%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	100%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	LOW
Undeveloped:	0%	•	

Range Monument: R-041

Single Family:	20%	Revetment/Toe Scour:	0%
Multi Family:	50%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	MED
Indeveloped.	30%	_	

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	0%	Bulkhead/Seawall:	-0%
Commercial:	0%	Sandbags:	0%
Recreation:	15%	Dune System:	0%
Mixed Use:	0왕	Vegetative Cover:	HIGH
Undeveloped:	85%	-	

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	70%	Bulkhead/Seawall:	- 0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	66%
Mixed Use:	0%	Vegetative Cover:	HIGH
Undeveloped:	30%		

Range Monument: R-044

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	100%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	100%
Mixed Use:	0%	Vegetative Cover:	HIGH
Undeveloped.	በջ		

Range Monument: R-045

Single Family:	0%	Revetment/Toe Scour:	. 0%
Multi Family:	100%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	100%
Mixed Use:	0%	Vegetative Cover:	LOW
Undeveloped:	0%		

Range Monument: R-046

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	0%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	10%	Dune System:	24%
Mixed Use:	0%	Vegetative Cover:	LOW
Undeveloped:	90%		

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	0%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	LOW
Undeveloped:	100%	_	

Range Monument: R-049

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	0%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	LOW
Undeveloped:	100%	- -	

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	0%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	. 0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	LOW
Undeveloped:	100%	-	

Range Monument: R-050

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	0%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	LOW
77m d 9 d .	1000	=	

Undeveloped: 100%

Range Monument: R-051

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	0%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	` 0%
Mixed Use:	0%	Vegetative Cover:	LOW
Undeveloped:	100%	_	

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	. 0%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	LOW
Undeveloped.	1009	•	

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	0%	Bulkhead/Seawall:	. 0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	LOW
Undeveloped:	100%	_	

Range Monument: R-054

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	0%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	. Vegetative Cover:	LOW
Undeveloped:	100%		f)

Range Monument: R-055

		• •	
Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	0%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	LOW
Undeveloped:	100%	_	

Range Monument: R-056

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	25%	Bulkhead/Seawall:	-0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	
Undeveloped:	75%	-	

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	0%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	LOW
Indeveloped.	100%		

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	0%	Bulkhead/Seawall:	0%
Commercial:	.0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	LOW
Undeveloped:	100%		

Range Monument: R-059

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	0%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	. 0%	Vegetative Cover:	LOW
Undeveloped:	100%	81	

Range Monument: R-060

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	0%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	LOW
IIndeveloped:	1002	•	

Range Monument: R-061

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	0%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	LOW
Undeveloped:	100%	-	

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	. 0%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	LOW
Undeveloped:	100%	•	

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	0%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	LOW
Undeveloped:	100%	-	

Range Monument: R-064

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	0%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	LOW
Undeveloped:	100%		

Range Monument: R-065

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	0%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	LOW
Undeveloped:	100%	-	

Range Monument: R-066

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	0%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	LOW
Undeveloped:	100%		

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	98	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	LOW
Undeveloped:	100%	-	

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	0%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	LOW
Undeveloped:	100%	-	

Range Monument: R-069

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	0%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	LOW
IIndeveloned.	1002		

Range Monument: R-070

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	0%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	LOW
Undeveloped:	100%		

Range Monument: R-071

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	0%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	LOW
Undeveloped:	100%	-	

Single Family:	.0%	Revetment/Toe Scour:	0%
Multi Family:	0%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	LOW
Undeveloped:	100%	-	

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	0%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	LOW
IIndeveloped:	1 በ በ &		

Range Monument: R-074

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	0%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	LOW
Indeveloped.	1 በ በ 2	_	

Range Monument: R-075

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	0%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	LOW
Undeveloped:	1 በ በ %		

Range Monument: R-076

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	0%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	LOW
Undeveloped:	100%	-	

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	0%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	LOW
Undeveloped:	100%		•

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	. 0%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	LOW
Undeveloped:	100%		

Range Monument: R-079

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	0%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	LOW
Undeveloped:	100%	_	

Range Monument: R-080

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	0%	Bulkhead/Seawall:	. 0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	45%	Vegetative Cover:	MED
Undeveloped:	55%		

Range Monument: R-081

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	0%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	100%	Vegetative Cover:	MED
findeveloped.	0%		

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	0%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	100%	Vegetative Cover:	HIGH
Undeveloped:	0%	•	

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	0%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	50%	Vegetative Cover:	HIGH
Indeveloped.	502	-	

Range Monument: R-084

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	0%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	HIGH
IIndeveloped:	1009	_	

Range Monument: R-085

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	0%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	100%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	HIGH
Indeveloped.	08		

Range Monument: R-086

		•	
Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	0%	Bulkhead/Seawall:	. 0%
Commercial:	0%	Sandbags:	. 0%
Recreation:	100%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	HIGH
Indeveloped.	0 %	-	

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	0%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	30%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	HIGH
IIndeveloped.	70%	_	

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	60%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	HIGH
Indevalaned.	4በይ		

Range Monument: R-089

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	100%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	. 0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	HIGH
Undeveloped:	0왕		

Range Monument: R-090

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	30%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	HIGH
Undeveloped:	70%		

Range Monument: R-091

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	0%	Bulkhead/Seawall:	ં 0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	HIGH
IIndeveloped.	100%		

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	0%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	10%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	HIGH
Undeveloped:	90%		

0%	Revetment/Toe Scour:	0%	Single Family:
0%	Bulkhead/Seawall:	0.8	Multi Family:
0%	Sandbags:	0%	Commercial:
0%	Dune System:	20%	Recreation:
HIGH	Vegetative Cover:	0%	Mixed Use:
	-		77 3 3 3 -

Undeveloped: 80%

Range Monument: R-094

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	08	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	HIGH
77	1000		

Undeveloped: 100%

Range Monument: R-095

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	0% ·	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	HIGH
there levebril	100%	-	

Undeveloped: 100%

Range Monument: R-096

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	0%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	HIGH
17m - 1	1000	= .	

Undeveloped: 100%

Range Monument: R-097

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	0%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	HIGH
Undeveloped:	100%		

III-14

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	0%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	50%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	MED
Undeveloped:	50%	-	

Range Monument: R-099

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	50%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	MED
Undeveloped.	5/03-	_	

Range Monument: R-100

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	100%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	MED
Indeveloped:	ሰይ	_	

Range Monument: R-101

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	100%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	MED
Undeveloped:	0%		

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	30%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	MED
Undeveloped:	70%		

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	70%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	MED
Undeveloped:	30%		

Range Monument: R-104

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	100%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	92%
Mixed Use:	0%	Vegetative Cover:	MED
Indeveloped:	0%	_	

Range Monument: R-105

•			
Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	100%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	MED
Undeveloped:	0%		

Range Monument: R-106

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	100%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	. 0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	LOW
Undeveloped:	0%	-	

Single Family:	. 0%	Revetment/Toe Scour:	0%
Multi Family:	100%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	MED
Undeveloped:	0%	_	

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	100%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	MED
Indeveloped.	ሰ ያ	•	

Range Monument: R-109

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	70%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	MED
Undeveloped:	30%	<u>-</u>	

Range Monument: R-110

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	85%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	80	Vegetative Cover:	LOW
Undeveloped:	15%	_	

Range Monument: R-111

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	85%	Bulkhead/Seawall:	0%
Commercial:	15%	Sandbags:	33%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	LOW
Undeveloped:	0%		

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	100%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	22%
Recreation:	0%	Dune System:	28%
Mixed Use:	0%	Vegetative Cover:	LOW
Undeveloped:	.0%	•	

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	100%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	MED
Undeveloped:	0%	_	

Range Monument: R-114

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	45%	Bulkhead/Seawall:	0%
Commercial:	55%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	LOW
IIndorroloned.	Λ %	-	

Range Monument: R-115

0%	Revetment/Toe Scour:	0%	Single Family:
0%	Bulkhead/Seawall:	100%	Multi Family:
0%	Sandbags:	0%	Commercial:
0%	Dune System:	0%	Recreation:
MED	Vegetative Cover:	0%	Mixed Use:
	- ,	ሰይ	Indeveloped:

Range Monument: R-001

Single Family:	30%	Revetment/Toe Scour:	0%
Multi Family:	55%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	MED
Undeveloped:	15%	_	

Single Family:	40%	Revetment/Toe Scour:	0%
Multi Family:	0%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	MED
Undeveloped:	60%		

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	0%	Bulkhead/Seawall:	56%
Commercial:	40%	Sandbags:	0%
Recreation:	10%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	MED

Undeveloped: 50%

Range Monument: R-004

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	0%	Bulkhead/Seawall:	9%
Commercial:	0%	Sandbags:	0%
Recreation:	85%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	LOW

Undeveloped: 15%

Range Monument: R-005

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	0%	Bulkhead/Seawall:	0%
Commercial:	. 0%	Sandbags:	0%
Recreation:	100%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	LOW

Undeveloped: 0%

Range Monument: R-006

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	45%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	5%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	LOW

Undeveloped: 55%

Range Monument: R-007

Single Family:	25%	Revetment/Toe Scour:	0%
Multi Family:	20%	Bulkhead/Seawall:	0.8
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	LOW
**** 3 3 3 -		-	

Undeveloped: 55%

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	0%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	-0왕
Mixed Use:	0%	Vegetative Cover:	MED
indeveloped:	1 0 0 2	-	

Range Monument: R-009

Single Family:	0%	Revetment/Toe Scour:	0%
	Un		U
Multi Family:	0%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	LOW
· baro levebrii	1102	-	

Range Monument: R-010

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	0%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	MED
· borro [ovobrii	1 በበያ	-	

Range Monument: R-011

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	0%	Bulkhead/Seawall:	0%
Commercial:	30%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	MED
indeveloped.	70%		

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	60%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	. 0%
Mixed Use:	0%	Vegetative Cover:	MED
Undeveloped:	40%		

Single Family:	45%	Revetment/Toe Scour:	0%
Multi Family:	55%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	20%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	MED
Undeveloped:	0%	-	

Range Monument: R-014

Single Family:	0%	Revetment/Toe Scour:	08
Multi Family:	100%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	LOW
Undeveloped:	റഃ	_	

Range Monument: R-015

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	30%	Bulkhead/Seawall:	0%
Commercial:	70%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	LOW
. bear levelal!	۸s	-	

Range Monument: R-016

Single Family:	20%	Revetment/Toe Scour:	51%
Multi Family:	25%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	51%
Recreation:	15%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	MED
Undeveloped:	40%	-,	

Single Family:	0%	Revetment/Toe Scour:	57%
Multi Family:	35%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	57%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	MED
Undeveloped:	65%	,	

Single Family:	0%	Revetment/Toe Scour:	74%
Multi Family:	90%	Bulkhead/Seawall:	10%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	LOW
Undeveloped:	10%	_	

Range Monument: R-019

Single Family:	0%	Revetment/Toe Scour:	25%
Multi Family:	90%	Bulkhead/Seawall:	20%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	LOW
Undeveloped:	102	<u>-</u>	

Range Monument: R-020

Single Family:	55%	Revetment/Toe Scour:	0%
Multi Family:	0%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	MED
Undeveloped.	458	_	

Range Monument: R-021

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	0%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	65%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	HIGH
Indeveloped:	358	•	

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	0%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	100%	Dune System:	. 0%
Mixed Use:	0%	Vegetative Cover:	LOW
Undeveloped:	0%		

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	100%	Bulkhead/Seawall:	. 0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	MED
Undeveloped:	0%	-	

Range Monument: R-024

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	100%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	MED
Undeveloped:	0%	_	

Range Monument: R-025

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	40%	Bulkhead/Seawall:	0%
Commercial:	. 0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	MED
Undeveloped:	60%	•	

Range Monument: R-026

Single Family:	15%	Revetment/Toe Scour:	0%
Multi Family:	25%	Bulkhead/Seawall:	0%.
Commercial:	0%	Sandbags:	-0%
Recreation:	15%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	HIGH
findeveloped:	152		

Single Family:	0%	Revetment/Toe Scour: Bulkhead/Seawall: Sandbags:	0%
Multi Family:	0%		0%
Commercial:	0%		0%
Recreation: Mixed Use: Undeveloped:	0% 0%	Dune System: Vegetative Cover: F	0%

Single Family:	. 0%	Revetment/Toe Scour:	0%
Multi Family:	0%	Bulkhead/Seawall:	0왕
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	LOW
Undeveloped:	100%	-	

Range Monument: R-029

Single Family:	0%	Revetment/Toe Scour:	Ó\$
Multi Family:	0%	Bulkhead/Seawall:	0%
Commercial:	30%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	LOW
Undeveloped:	70%		

Range Monument: R-030

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	0%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	MED
Undeveloped:	100%		

Range Monument: R-031

Single Family:	100%	Revetment/Toe Scour:	0%
Multi Family:	0%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	LOW
Undeveloped:	0%		

Single Family:	65%	Revetment/Toe Scour:	0%
Multi Family:	0%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	. 0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	LOW
Undeveloped:	35%	-	

Single Family:	75%	Revetment/Toe Scour:	0%
Multi Family:	25%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	LOW
Indeveloped:	0 %	-	

Range Monument: R-034

Single Family:	25%	Revetment/Toe Scour:	0%
Multi Family:	0%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	45%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	LOW
Undeveloped:	30%	•	

Range Monument: R-035

a		D	- 0
Single Fam		Revetment/Toe Scour:	0%
Multi Fam		Bulkhead/Seawall:	0%
Commerc	ial: 0%	Sandbags:	28%
Recreat	ion: 100%	Dune System:	0%
Mixed	Use: 0%	Vegetative Cover:	MED
Undevelo	ped: 0%	-	

Range Monument: R-036

Single Family:	35%	Revetment/Toe Scour:	0%
Multi Family:	15%	Bulkhead/Seawall:	0%
Commercial:	25%	Sandbags:	100%
Recreation:	25%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	MED
Undeveloped:	0%	_	

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	100%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	100%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	MED
Undeveloped:	0%	,	

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	100%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	100%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	LOW
Undeveloped:	0%		

Range Monument: R-039

Single Family:	30%	Revetment/Toe Scour:	0%
Multi Family:	0%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	70%	Dune System:	. 0%
Mixed Use:	0%	Vegetative Cover:	LOW
Undeveloped:	0%		

Range Monument: R-040

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	.0%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	LOW
findeveloped:	1002	•	

Range Monument: R-041

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	100%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0왕
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	LOW
Undeveloped:	0%	_	

Single Family:	0%	Revetment/Toe Scour:	0%
Multi Family:	100%	Bulkhead/Seawall:	0%
Commercial:	0%	Sandbags:	0%
Recreation:	0%	Dune System:	0%
Mixed Use:	0%	Vegetative Cover:	MED
Undeveloped:	ሰջ	-	

FLORIDA DEPARTMENT OF NATURAL RESOURCES Sea Turtle Nesting GIS 04/24/93

Permitted Beach Armoring Index Nesting Beach #16

Range Monument: R-034

Permit No: -DBS690033

Owner's Name: St. Lucie County Beach Erosion

Date: 09/23/69
Type: Nourishment

Distance

From R-Mon: 0 ft. Total Length: 6864 ft.

Range Monument: R-033

Permit No: -DBS910297

Owner's Name: Chisolm, James V.

Date: 06/19/92 Type: Nourishment

Distance

From R-Mon: 820 ft. Total Length: 500 ft.

Range Monument: R-043
Permit No: SL000085

Owner's Name: Hutchison Island Limited

Date: 05/10/88

Type: Dune Construction

Distance

From R-Mon: 340 ft. Total Length: 2900 ft.

Range Monument: R-043

Permit No: SL000064

Owner's Name: Ocean Village Property Owners

Date: 01/25/85

Type: Fill

Distance

From R-Mon: 0 ft. Total Length: 3000 ft.

Range Monument: T-063

Permit No: SL000097

Owner's Name: Pugliese, Anthony V.

Date: 03/23/90

Type: Fill

Distance

From R-Mon: 0 ft. Total Length: 3300 ft.

Permit No: SL000075

Owner's Name: Islandia East Association, Inc.

Date: 01/23/86 Type: Fill

Distance

From R-Mon: 52 ft. Total Length: 916 ft.

Range Monument: R-104

Permit No: SL000029

Owner's Name: Van Aldenbbruck, Dennis

Date: 04/12/82

Type: Dune Construction

Distance

From R-Mon: 46 ft. Total Length: 916 ft.

Range Monument: R-111

Permit No: SL000063

Owner's Name: Oceana South Recreation Association

Date: 12/26/84 Type: Fill

Distance

From R-Mon: 670 ft. Total Length: 1216 ft.

Range Monument: R-111

Permit No: SL000063

Owner's Name: Oceana South Recreation Association

Date: 01/24/85

Type: Sandbag Structure

Distance

From R-Mon: 670 ft. Total Length: 1216 ft.

Range Monument: R-112

Permit No: SL000110

Owner's Name: McKnight, James A.

Date: 01/15/91

Type: Dune Construction

Distance

From R-Mon: 720 ft. Total Length: 300 ft.

Permit No: SL000116

Owner's Name: Russell, Richard R.

Date: 12/16/91

Type: Fill

Distance

From R-Mon: 25 ft. Total Length: 395 ft.

Range Monument: R-113

Permit No: SL000062

Owner's Name: Venture II Condominium Association

Date: 12/11/84

Type: Fill

Distance

From R-Mon: 794 ft. Total Length: 60 ft.

Range Monument: R-113

Permit No: SL000048

Owner's Name: Holiday Out at St. Lucie

Date: 11/27/84

Type: Fill

Distance

From R-Mon: 854 ft. Total Length: 586 ft.

Range Monument: R-003

Permit No: MI000096

Owner's Name: Winn, James B.

Date: 02/10/86

Type: Bulkhead or Seawall

Distance

From R-Mon: 100 ft. Total Length: 575 ft.

Range Monument: R-004

Permit No: MI000094

Owner's Name: Winn, James B.

Date: 03/27/86

Type: Bulkhead or Seawall

Distance

From R-Mon: 138 ft. Total Length: 86 ft.

Range Monument: R-005 Permit No: MI000070

Owner's Name: Holiday Inn Oceanside Date: 12/27/84

Type: Fill

Distance

From R-Mon: 940 ft. Total Length: 500 ft.

Range Monument: R-006 Permit No: MI000068

Owner's Name: Leedy, John D.

Date: 09/05/85 Type: Fill

Distance

From R-Mon: 5 ft. 533 ft. Total Length:

Range Monument: R-006 Permit No: MI000049

Owner's Name: Hutchinson Island Inc.

Date: 04/26/84

Type: Sandbag Structure

Distance

From R-Mon: 5 ft. Total Length: 533 ft.

Range Monument: R-006 Permit No: MI000048

Owner's Name: Hutchinson Island Inn Inc.

Date: 03/01/84 Type: Fill

Distance

From R-Mon: 0 ft. Total Length: 500 ft.

Range Monument: R-007 Permit No: MI000065

Owner's Name: NacNider, Tom

Date: 12/07/84 Type: Fill

Distance

From R-Mon: 650 ft. Total Length: 100 ft.

Permit No: MI000064

Owner's Name: Bob Rigel Inc.

Date: 12/07/84

Type: Fill

Distance

From R-Mon: 450 ft. Total Length: 200 ft.

Range Monument: R-013

Permit No: MI000119

Owner's Name: Linardy, Margaret

Date: 01/20/87

Type: Sandbag Structure

Distance

From R-Mon: 700 ft. Total Length: 200 ft.

Range Monument: R-013

Permit No: MI000080

Owner's Name: Linardy, Margaret

Date: 01/25/85

Type: Fill

Distance

From R-Mon: 670 ft. Total Length: 200 ft.

Range Monument: R-016

Permit No: -9000363

Owner's Name: Perry, Mark D.

Date: 11/13/91

Type: Fill

Distance

From R-Mon: 0 ft. Total Length: 250 ft.

Range Monument: R-016

Permit No: MI000151

. Owner's Name: Evinrude, Francis L.

Date: 08/24/88

Type: Sandbag Structure

Distance

From R-Mon: 490 ft. Total Length: 1080 ft.

Permit No: -9000360

Owner's Name: Suntide Condominium Association

Date: 11/08/91

Type: Bulkhead or Seawall

Distance

From R-Mon: 900 ft. Total Length: 300 ft.

Range Monument: R-020
Permit No: MI000053

Owner's Name: Jones Associates, Ltd.

Date: 10/26/84 Type: Fill

Distance

From R-Mon: 220 ft. Total Length: 100 ft.

Range Monument: R-035
Permit No: MI000073

Owner's Name: Saltfish Point Inc.

Date: 01/16/85

Type: Sandbag Structure

Distance

From R-Mon: 720 ft. Total Length: 700 ft.

Range Monument: R-036

Permit No: MI000059

Owner's Name: Saltfish Point Inc.

Date: 11/28/84

Type: Sandbag Structure

Distance

From R-Mon: 270 ft. Total Length: 700 ft.

Range Monument: R-036

Permit No: MI000111

Owner's Name: Saltfish Point Property Owners & Co.

Date: 07/18/86

Type: Sandbag Structure

Distance

From R-Mon: 590 ft. Total Length: 1000 ft.

Permit No: MI000111

Owner's Name: Krchnak, Joe L.
Date: 09/05/86
Type: Sandbag Structure

Distance

From R-Mon: 0 ft. Total Length: 2000 ft.

Range Monument: R-037

Permit No: MI000111

Owner's Name: Krchnak, Joe L.

Date: 08/14/87
Type: Sandbag Structure

Distance

From R-Mon: 320 ft. Total Length: 520 ft.

FLORIDA DEPARTMENT OF NATURAL RESOURCES Sea Turtle Nesting GIS 04/24/93

Beach Zone Nesting Data
Index Nesting Beach #16

Nest Zone Number:	1
GPS Latitude Reading:	_
GPS Longitude Reading:	
Year:	
Loggerhead Turtle Nests:	14
Loggerhead False Crawls:	21
Green Turtle Nests:	0
Green Turtle False Crawls:	0
Green Turtle False Crawls: Leatherback Turtle Nests: Leatherback False Crawls:	0
Leatherback False Crawls:	0
Nest Zone Number:	2
GPS Latitude Reading:	
GPS Longitude Reading:	
Year:	
Loggerhead Turtle Nests:	31
Loggerhead False Crawls:	31
Green Turtle Nests:	0
Green Turtle False Crawls:	0
Leatherback Turtle Nests:	0
Leatherback False Crawls:	0 .
Nest Zone Number: GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls: Green Turtle Nests: Green Turtle False Crawls: Leatherback Turtle Nests: Leatherback False Crawls:	80°17.130'
Nest Zone Number: GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls: Green Turtle Nests: Green Turtle False Crawls: Leatherback Turtle Nests: Leatherback False Crawls:	4 27°26.699' 80°16.929' 1989 94 44 0 0

Nest Zone Number:	5
	_
GPS Latitude Reading:	27°26.177'
GPS Longitude Reading:	80°16.727'
Year:	
Loggerhead Turtle Nests:	
Loggerhead False Crawls:	61
Green Turtle Nests:	0
Green Turtle False Crawls:	0
Leatherback Turtle Nests:	0
Leatherback False Crawls:	0
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Nest Zone Number:	6
GPS Latitude Reading:	27°25.620'
GPS Longitude Reading:	80°16.520'
Year:	1989
Loggerhead Turtle Nests:	63
Loggerhead False Crawls:	71
Green Turtle Nests:	0
Green Turtle False Crawls:	0
Leatherback Turtle Nests:	Ö
Leatherback False Crawls:	Ö
Deather Dack Tarse Crawis.	· ·
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Nest Zone Number:	7
Nest Zone Number: GPS Latitude Reading:	7 27°25.141'
GPS Latitude Reading:	27°25.141'
GPS Latitude Reading: GPS Longitude Reading:	27°25.141' 80°16.271'
GPS Latitude Reading: GPS Longitude Reading: Year:	27°25.141' 80°16.271' 1989
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GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls: Green Turtle Nests: Green Turtle False Crawls: Leatherback Turtle Nests: Leatherback False Crawls: Nest Zone Number: GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests:	27°25.141' 80°16.271' 1989 132 47 0 0 0 0 0 10 10 10 10 10 10 10 10 10 10
GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls: Green Turtle Nests: Green Turtle False Crawls: Leatherback Turtle Nests: Leatherback False Crawls: Nest Zone Number: GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls:	27°25.141' 80°16.271' 1989 132 47 0 0 0 0 8 27°24.617' 80°16.111' 1989 137 82
GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls: Green Turtle Nests: Green Turtle False Crawls: Leatherback Turtle Nests: Leatherback False Crawls: Nest Zone Number: GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls: Green Turtle Nests:	27°25.141' 80°16.271' 1989 132 47 0 0 0 0 0 8 27°24.617' 80°16.111' 1989 137 82 0
GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls: Green Turtle Nests: Green Turtle False Crawls: Leatherback Turtle Nests: Leatherback False Crawls: Nest Zone Number: GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls: Green Turtle Nests: Green Turtle False Crawls:	27°25.141' 80°16.271' 1989 132 47 0 0 0 0 8 27°24.617' 80°16.111' 1989 137 82 0 2
GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls: Green Turtle Nests: Green Turtle False Crawls: Leatherback Turtle Nests: Leatherback False Crawls: GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls: Green Turtle Nests: Green Turtle False Crawls: Leatherback Turtle Nests:	27°25.141' 80°16.271' 1989 132 47 0 0 0 0 0 8 27°24.617' 80°16.111' 1989 137 82 0
GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls: Green Turtle Nests: Green Turtle False Crawls: Leatherback Turtle Nests: Leatherback False Crawls: Nest Zone Number: GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls: Green Turtle Nests: Green Turtle False Crawls:	27°25.141' 80°16.271' 1989 132 47 0 0 0 0 8 27°24.617' 80°16.111' 1989 137 82 0 2

Nest Zone Number: GPS Latitude Reading: 27°24.118' GPS Longitude Reading: 80°15.916' Year: 1989 Loggerhead Turtle Nests: 126 Loggerhead False Crawls: 111 Green Turtle Nests: 0 Green Turtle False Crawls: 1 Leatherback Turtle Nests: 2 Leatherback False Crawls: Nest Zone Number: GPS Latitude Reading: 27°23.618' GPS Longitude Reading: 80°15.660' Year: 1989 Loggerhead Turtle Nests: 177 Loggerhead False Crawls: 98 Green Turtle Nests: 0 Green Turtle False Crawls: 0 Leatherback Turtle Nests: 0 Leatherback False Crawls: Nest Zone Number: 11 GPS Latitude Reading: 27°23.132' GPS Longitude Reading: 80°15.398' Year: 1989 Loggerhead Turtle Nests: 158 Loggerhead False Crawls: 143 Green Turtle Nests: 1 Green Turtle False Crawls: 0 Leatherback Turtle Nests: 0 Leatherback False Crawls: Nest Zone Number: 12 GPS Latitude Reading: 27°22.631' GPS Longitude Reading: 80°15.165' Year: 1989 Loggerhead Turtle Nests: 125 Loggerhead False Crawls: 202 Green Turtle Nests: 1 Green Turtle False Crawls: 4 Leatherback Turtle Nests: Leatherback False Crawls: 0

Nest Zone Number:	13
GPS Latitude Reading:	27°22.135'
GPS Longitude Reading:	80°14.904'
Year:	1989
Loggerhead Turtle Nests:	191
Loggerhead False Crawls:	186
Green Turtle Nests:	2
Green Turtle False Crawls:	7
Leatherback Turtle Nests:	1
Leatherback False Crawls:	2
Nest Zone Number:	14
GPS Latitude Reading:	27°21.646'
GPS Longitude Reading:	
	1989
Loggerhead Turtle Nests:	
Loggerhead False Crawls:	136
Green Turtle Nests:	0
Green Turtle False Crawls:	4
Leatherback Turtle Nests:	1
Leatherback False Crawls:	0 -
Nest Zone Number:	15
GPS Latitude Reading:	27°21.139'
GPS Latitude Reading: GPS Longitude Reading:	27°21.139' 80°14.337'
GPS Latitude Reading: GPS Longitude Reading: Year:	27°21.139' 80°14.337' 1989
GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests:	27°21.139' 80°14.337' 1989 166
GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls:	27°21.139' 80°14.337' 1989 166 126
GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls: Green Turtle Nests:	27°21.139' 80°14.337' 1989 166 126
GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls: Green Turtle Nests: Green Turtle False Crawls:	27°21.139' 80°14.337' 1989 166 126 1
GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls: Green Turtle Nests: Green Turtle False Crawls: Leatherback Turtle Nests:	27°21.139' 80°14.337' 1989 166 126 1
GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls: Green Turtle Nests: Green Turtle False Crawls:	27°21.139' 80°14.337' 1989 166 126 1
GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls: Green Turtle Nests: Green Turtle False Crawls: Leatherback Turtle Nests:	27°21.139' 80°14.337' 1989 166 126 1
GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls: Green Turtle Nests: Green Turtle False Crawls: Leatherback Turtle Nests: Leatherback False Crawls:	27°21.139' 80°14.337' 1989 166 126 1 1
GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls: Green Turtle Nests: Green Turtle False Crawls: Leatherback Turtle Nests: Leatherback False Crawls: Nest Zone Number:	27°21.139' 80°14.337' 1989 166 126 1 1
GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls: Green Turtle Nests: Green Turtle False Crawls: Leatherback Turtle Nests: Leatherback False Crawls: Nest Zone Number: GPS Latitude Reading:	27°21.139' 80°14.337' 1989 166 126 1 1 26 27°20.627'
GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls: Green Turtle Nests: Green Turtle False Crawls: Leatherback Turtle Nests: Leatherback False Crawls: Mest Zone Number: GPS Latitude Reading: GPS Longitude Reading:	27°21.139' 80°14.337' 1989 166 126 1 1 27°20.627' 80°14.134'
GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls: Green Turtle Nests: Green Turtle False Crawls: Leatherback Turtle Nests: Leatherback False Crawls: Mest Zone Number: GPS Latitude Reading: GPS Longitude Reading: Year:	27°21.139' 80°14.337' 1989 166 126 1 1 0 16 27°20.627' 80°14.134' 1989
GPS Latitude Reading:	27°21.139' 80°14.337' 1989 166 126 1 1 0 16 27°20.627' 80°14.134' 1989 93
GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls: Green Turtle Nests: Green Turtle False Crawls: Leatherback Turtle Nests: Leatherback False Crawls: Nest Zone Number: GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls:	27°21.139' 80°14.337' 1989 166 126 1 1 0 16 27°20.627' 80°14.134' 1989 93 95
GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls: Green Turtle Nests: Green Turtle False Crawls: Leatherback Turtle Nests: Leatherback False Crawls: Nest Zone Number: GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls: Green Turtle Nests:	27°21.139' 80°14.337' 1989 166 126 1 1 0 16 27°20.627' 80°14.134' 1989 93 95 0
GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls: Green Turtle Nests: Green Turtle False Crawls: Leatherback Turtle Nests: Leatherback False Crawls: Nest Zone Number: GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls: Green Turtle Nests: Green Turtle Nests:	27°21.139' 80°14.337' 1989 166 126 1 1 0 16 27°20.627' 80°14.134' 1989 93 95 0
GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls: Green Turtle Nests: Green Turtle False Crawls: Leatherback Turtle Nests: Leatherback False Crawls: Nest Zone Number: GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls: Green Turtle Nests:	27°21.139' 80°14.337' 1989 166 126 1 1 0 16 27°20.627' 80°14.134' 1989 93 95 0

Nest Zone Number: GPS Latitude Reading: 27°20.098' GPS Longitude Reading: 80°13.940' Year: 1989 Loggerhead Turtle Nests: 151 Loggerhead False Crawls: 82 Green Turtle Nests: 0 Green Turtle False Crawls: 1 Leatherback Turtle Nests: 0 Leatherback False Crawls: Nest Zone Number: GPS Latitude Reading: 27°19.561' GPS Longitude Reading: 80°13.682' Year: 1989 Loggerhead Turtle Nests: Loggerhead False Crawls: 122 Green Turtle Nests: 0 Green Turtle False Crawls: 1 Leatherback Turtle Nests: 1 Leatherback False Crawls: 0 Nest Zone Number: GPS Latitude Reading: 27°19.042' GPS Longitude Reading: 80°13.482' Year: 1989 Loggerhead Turtle Nests: Loggerhead False Crawls: 136 Green Turtle Nests: 0 Green Turtle False Crawls: 5 Leatherback Turtle Nests: 0 Leatherback False Crawls: Nest Zone Number: GPS Latitude Reading: 27°18.539' GPS Longitude Reading: 80°13.254' Year: 1989 Loggerhead Turtle Nests: Loggerhead False Crawls: 174 Green Turtle Nests: 0 Green Turtle False Crawls: 2 Leatherback Turtle Nests: 2 Leatherback False Crawls:

Nest Zone Number: 21 GPS Latitude Reading: 27°18.049' GPS Longitude Reading: 80°13.045' Year: 1989 Loggerhead Turtle Nests: 157 Loggerhead False Crawls: 151 Green Turtle Nests: 2 Green Turtle False Crawls: 4 Leatherback Turtle Nests: 2 Leatherback False Crawls: 0 Nest Zone Number: GPS Latitude Reading: 27°17.528' GPS Longitude Reading: 80°13.824' Year: 1989 Loggerhead Turtle Nests: 212 Loggerhead False Crawls: 256 Green Turtle Nests: 1 Green Turtle False Crawls: 3 Leatherback Turtle Nests: 0 Leatherback False Crawls: 0 Nest Zone Number: 23 GPS Latitude Reading: 27°16.960' GPS Longitude Reading: 80°12.563' Year: 1989 Loggerhead Turtle Nests: 191 Loggerhead False Crawls: Green Turtle Nests: 2 Green Turtle False Crawls: 3 Leatherback Turtle Nests: 1 Leatherback False Crawls: Nest Zone Number: GPS Latitude Reading: 27°16.538' GPS Longitude Reading: 80°12.356' Year: 1989 Loggerhead Turtle Nests: 156 Loggerhead False Crawls: 147 Green Turtle Nests: Green Turtle False Crawls: 1 Leatherback Turtle Nests: 0 Leatherback False Crawls:

Nest Zone Number: GPS Latitude Reading: 27°16.067' GPS Longitude Reading: 80°12.176' Year: 1989 Loggerhead Turtle Nests: 210 Loggerhead False Crawls: 147 Green Turtle Nests: Green Turtle False Crawls: Leatherback Turtle Nests: Leatherback False Crawls: Nest Zone Number: 26 GPS Latitude Reading: 27°15.445' GPS Longitude Reading: 80°11.804' Year: 1989 Loggerhead Turtle Nests: 125 Loggerhead False Crawls: Green Turtle Nests: 1 Green Turtle False Crawls: 3 Leatherback Turtle Nests: Leatherback False Crawls: Nest Zone Number: GPS Latitude Reading: 27°14.942' GPS Longitude Reading: 80°11.606' Year: 1989 Loggerhead Turtle Nests: 157 Loggerhead False Crawls: 108 Green Turtle Nests: 7 Green Turtle False Crawls: 0 Leatherback Turtle Nests: 2 Leatherback False Crawls: Nest Zone Number: 28 GPS Latitude Reading: 27°14.460' GPS Longitude Reading: 80°11.325' Year: 1989 Loggerhead Turtle Nests: 172 Loggerhead False Crawls: 123 Green Turtle Nests: 6 Green Turtle False Crawls: 2 Leatherback Turtle Nests: 1 Leatherback False Crawls:

Nest Zone Number: GPS Latitude Reading: 27°14.013' GPS Longitude Reading: 80°11.069' Year: 1989 Loggerhead Turtle Nests: 92 Loggerhead False Crawls: 166 Green Turtle Nests: Green Turtle False Crawls: 6 Leatherback Turtle Nests: 0 Leatherback False Crawls: Nest Zone Number: GPS Latitude Reading: 27°13.499' GPS Longitude Reading: 80°10.815' Year: 1989 Loggerhead Turtle Nests: 139 Loggerhead False Crawls: Green Turtle Nests: 13 Green Turtle False Crawls: 8 Leatherback Turtle Nests: 0 Leatherback False Crawls: Nest Zone Number: GPS Latitude Reading: 27°13.030' GPS Longitude Reading: 80°10.509' Year: 1989 Loggerhead Turtle Nests: 103 Loggerhead False Crawls: 146 Green Turtle Nests: Green Turtle False Crawls: Leatherback Turtle Nests: 2 Leatherback False Crawls: Nest Zone Number: GPS Latitude Reading: 27°12.531' GPS Longitude Reading: 80°10.253' Year: 1989 Loggerhead Turtle Nests: 114 Loggerhead False Crawls: 84 Green Turtle Nests: Green Turtle False Crawls: 0 Leatherback Turtle Nests: Leatherback False Crawls:

Nest Zone Number: 33 GPS Latitude Reading: 27°11.985' GPS Longitude Reading: 80°09.926' Year: 1989 Loggerhead Turtle Nests: 163 Loggerhead False Crawls: 111 Green Turtle Nests: 0 Green Turtle False Crawls: 0 Leatherback Turtle Nests: 1 Leatherback False Crawls: Nest Zone Number: 34 GPS Latitude Reading: 27°11.565' GPS Longitude Reading: 80°09.647' Year: 1989 Loggerhead Turtle Nests: 97 Loggerhead False Crawls: 67 Green Turtle Nests: 0 Green Turtle False Crawls: 0 Leatherback Turtle Nests: 0 Leatherback False Crawls: 0 Nest Zone Number: GPS Latitude Reading: 27°10.991' GPS Longitude Reading: 80°09.575' Year: 1989 Loggerhead Turtle Nests: 152 Loggerhead False Crawls: 96 Green Turtle Nests: Green Turtle False Crawls: O Leatherback Turtle Nests: 0 Leatherback False Crawls: Nest Zone Number: 36 GPS Latitude Reading: 27°10.476' GPS Longitude Reading: 80°09.391' Year: 1989 Loggerhead Turtle Nests: 148 Loggerhead False Crawls: 92 Green Turtle Nests: 0 Green Turtle False Crawls: 0 Leatherback Turtle Nests: 0 Leatherback False Crawls:

Nest Zone Number: GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls: Green Turtle Nests: Green Turtle False Crawls: Leatherback Turtle Nests: Leatherback False Crawls:	37 27°10.109' 80°09.223' 1989 15 24 0 0
Nest Zone Number: GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls: Green Turtle Nests: Green Turtle False Crawls: Leatherback Turtle Nests: Leatherback False Crawls:	1 27°28.241' 80°17.435' 1990 8 6 0 0
Nest Zone Number: GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls: Green Turtle Nests: Green Turtle Nests: Leatherback Turtle Nests: Leatherback False Crawls:	2 27°27.716' 80°17.311' 1990 28 27 0 0
Nest Zone Number: GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls: Green Turtle Nests: Green Turtle Nests: Leatherback Turtle Nests: Leatherback False Crawls:	80°17.130' 1990 41 55. 0

Nest Zone Number: GPS Latitude Reading: 27°26.699' GPS Longitude Reading: 80°16.929' Year: 1990 Loggerhead Turtle Nests: 93 Loggerhead False Crawls: 80 Green Turtle Nests: 1 Green Turtle False Crawls: 0 0 Leatherback Turtle Nests: Leatherback False Crawls: Nest Zone Number: 5 GPS Latitude Reading: 27°26.177' GPS Longitude Reading: 80°16.727' Year: 1990 Loggerhead Turtle Nests: 141 Loggerhead False Crawls: Green Turtle Nests: 0 Green Turtle False Crawls: 1 Leatherback Turtle Nests: Leatherback False Crawls: 0 Nest Zone Number: GPS Latitude Reading: 27°25.620' GPS Longitude Reading: 80°16.520' Year: 1990 Loggerhead Turtle Nests: 98 Loggerhead False Crawls: 61 Green Turtle Nests: 1 Green Turtle False Crawls: 0 Leatherback Turtle Nests: 0 Leatherback False Crawls: Nest Zone Number: GPS Latitude Reading: 27°25.141' GPS Longitude Reading: 80°16.271' Year: 1990 Loggerhead Turtle Nests: 148 Loggerhead False Crawls: 57 Green Turtle Nests: 0 Green Turtle False Crawls: 1 Leatherback Turtle Nests:

Nest Zone Number: GPS Latitude Reading: 27°24.617' GPS Longitude Reading: 80°16.111' Year: 1990 Loggerhead Turtle Nests: 184 Loggerhead False Crawls: 59 Green Turtle Nests: 0 Green Turtle False Crawls: 1 Leatherback Turtle Nests: 0 Leatherback False Crawls: Nest Zone Number: GPS Latitude Reading: 27°24.118' GPS Longitude Reading: 80°15.916' Year: 1990 Loggerhead Turtle Nests: 181 Loggerhead False Crawls: Green Turtle Nests: 1 Green Turtle False Crawls: 1 Leatherback Turtle Nests: Leatherback False Crawls: 0 Nest Zone Number: 10 GPS Latitude Reading: 27°23.618' GPS Longitude Reading: 80°15.660' Year: 1990 Loggerhead Turtle Nests: 178 Loggerhead False Crawls: 166 Green Turtle Nests: 1 Green Turtle False Crawls: 0 Leatherback Turtle Nests: 0 Leatherback False Crawls: 0 Nest Zone Number: 11 GPS Latitude Reading: 27°23.132' GPS Longitude Reading: 80°15.398' Year: 1990 Loggerhead Turtle Nests: 181 Loggerhead False Crawls: 215 Green Turtle Nests: 2 Green Turtle False Crawls: 2 Leatherback Turtle Nests: Leatherback False Crawls:

Nest Zone Number: 12 GPS Latitude Reading: 27°22.631' GPS Longitude Reading: 80°15.165' Year: 1990 Loggerhead Turtle Nests: Loggerhead False Crawls: 137 Green Turtle Nests: 2 Green Turtle False Crawls: 2 Leatherback Turtle Nests: Leatherback False Crawls: Nest Zone Number: GPS Latitude Reading: 27°22.135' GPS Longitude Reading: 80°14.904' Year: 1990 Loggerhead Turtle Nests: Loggerhead False Crawls: 132 Green Turtle Nests: 1 Green Turtle False Crawls: 2 Leatherback Turtle Nests: Leatherback False Crawls: ° Nest Zone Number: 14 GPS Latitude Reading: 27°21.646' GPS Longitude Reading: 80°14.633' Year: 1990 Loggerhead Turtle Nests: Loggerhead False Crawls: 110 Green Turtle Nests: Green Turtle False Crawls: 2 Leatherback Turtle Nests: 0 Leatherback False Crawls: Nest Zone Number: GPS Latitude Reading: 27°21.139' GPS Longitude Reading: 80°14.337' Year: 1990 Loggerhead Turtle Nests: Loggerhead False Crawls: 141 Green Turtle Nests: 3 Green Turtle False Crawls: 1 Leatherback Turtle Nests: Leatherback False Crawls:

Nest Zone Number GPS Latitude Reading GPS Longitude Reading Year Loggerhead Turtle Nests Loggerhead False Crawls Green Turtle Nests Green Turtle False Crawls Leatherback Turtle Nests Leatherback False Crawls	: 27°20.627' : 80°14.134' : 1990 : 149 : 96 : 2 : 1 : 0
Nest Zone Number	: 17
GPS Latitude Reading	
GPS Longitude Reading	
Year	
Loggerhead Turtle Nests	
Loggerhead False Crawls	
Green Turtle Nests	
Green Turtle False Crawls	
Leatherback Turtle Nests	
Leatherback False Crawls	
•	
Nest Zone Number GPS Latitude Reading GPS Longitude Reading Year Loggerhead Turtle Nests Loggerhead False Crawls	: 27°19.561' : 80°13.682' : 1990 : 141 : 207
GPS Latitude Reading GPS Longitude Reading Year Loggerhead Turtle Nests Loggerhead False Crawls Green Turtle Nests	: 27°19.561' : 80°13.682' : 1990 : 141 : 207 : 7
GPS Latitude Reading GPS Longitude Reading Year Loggerhead Turtle Nests Loggerhead False Crawls Green Turtle Nests Green Turtle False Crawls	: 27°19.561' : 80°13.682' : 1990 : 141 : 207 : 7
GPS Latitude Reading GPS Longitude Reading Year Loggerhead Turtle Nests Loggerhead False Crawls Green Turtle Nests Green Turtle False Crawls Leatherback Turtle Nests	: 27°19.561' : 80°13.682' : 1990 : 141 : 207 : 7 : 12 : 0
GPS Latitude Reading GPS Longitude Reading Year Loggerhead Turtle Nests Loggerhead False Crawls Green Turtle Nests Green Turtle False Crawls	: 27°19.561' : 80°13.682' : 1990 : 141 : 207 : 7 : 12
GPS Latitude Reading GPS Longitude Reading Year Loggerhead Turtle Nests Loggerhead False Crawls Green Turtle Nests Green Turtle False Crawls Leatherback Turtle Nests	: 27°19.561' : 80°13.682' : 1990 : 141 : 207 : 7 : 12 : 0 : 0
GPS Latitude Reading GPS Longitude Reading Year Loggerhead Turtle Nests Loggerhead False Crawls Green Turtle Nests Green Turtle False Crawls Leatherback Turtle Nests Leatherback False Crawls	: 27°19.561' : 80°13.682' : 1990 : 141 : 207 : 7 : 12 : 0 : 0 : 19 : 27°19.042'
GPS Latitude Reading GPS Longitude Reading Year Loggerhead Turtle Nests Loggerhead False Crawls Green Turtle Nests Green Turtle False Crawls Leatherback Turtle Nests Leatherback False Crawls Nest Zone Number	: 27°19.561' : 80°13.682' : 1990 : 141 : 207 : 7 : 12 : 0 : 0 : 19 : 27°19.042'
GPS Latitude Reading GPS Longitude Reading Year Loggerhead Turtle Nests Loggerhead False Crawls Green Turtle Nests Green Turtle False Crawls Leatherback Turtle Nests Leatherback False Crawls Nest Zone Number GPS Latitude Reading GPS Longitude Reading Year	: 27°19.561' : 80°13.682' : 1990 : 141 : 207 : 7 : 12 : 0 : 0 : 19 : 27°19.042' : 80°13.482' : 1990
GPS Latitude Reading GPS Longitude Reading Year Loggerhead Turtle Nests Loggerhead False Crawls Green Turtle Nests Green Turtle False Crawls Leatherback Turtle Nests Leatherback False Crawls Nest Zone Number GPS Latitude Reading GPS Longitude Reading Year Loggerhead Turtle Nests	: 27°19.561' : 80°13.682' : 1990 : 141 : 207 : 7 : 12 : 0 : 0 : 0 : 19 : 27°19.042' : 80°13.482' : 1990 : 339
GPS Latitude Reading GPS Longitude Reading Year Loggerhead Turtle Nests Loggerhead False Crawls Green Turtle Nests Green Turtle False Crawls Leatherback Turtle Nests Leatherback False Crawls Nest Zone Number GPS Latitude Reading GPS Longitude Reading Year Loggerhead Turtle Nests Loggerhead False Crawls	: 27°19.561' : 80°13.682' : 1990 : 141 : 207 : 7 : 12 : 0 : 0 : 19 : 27°19.042' : 80°13.482' : 1990 : 339 : 336
GPS Latitude Reading GPS Longitude Reading Year Loggerhead Turtle Nests Loggerhead False Crawls Green Turtle Nests Green Turtle Salse Crawls Leatherback Turtle Nests Leatherback False Crawls Nest Zone Number GPS Latitude Reading GPS Longitude Reading Year Loggerhead Turtle Nests Loggerhead False Crawls Green Turtle Nests	: 27°19.561' : 80°13.682' : 1990 : 141 : 207 : 7 : 12 : 0 : 0 : 0 : 19 : 27°19.042' : 80°13.482' : 1990 : 339 : 336 : 18
GPS Latitude Reading	: 27°19.561' : 80°13.682' : 1990 : 141 : 207 : 7 : 12 : 0 : 0 : 19 : 27°19.042' : 80°13.482' : 1990 : 339 : 336 : 18 : 7
GPS Latitude Reading GPS Longitude Reading Year Loggerhead Turtle Nests Loggerhead False Crawls Green Turtle Nests Green Turtle Salse Crawls Leatherback Turtle Nests Leatherback False Crawls Nest Zone Number GPS Latitude Reading GPS Longitude Reading Year Loggerhead Turtle Nests Loggerhead False Crawls Green Turtle Nests	: 27°19.561' : 80°13.682' : 1990 : 141 : 207 : 7 : 12 : 0 : 0 : 19 : 27°19.042' : 80°13.482' : 1990 : 339 : 336 : 18 : 7

Nest Zone Number: GPS Latitude Reading: 27°18.539' GPS Longitude Reading: 80°13.254' Year: 1990 Loggerhead Turtle Nests: 272 Loggerhead False Crawls: 238 Green Turtle Nests: 8 Green Turtle False Crawls: 13 Leatherback Turtle Nests: 0 Leatherback False Crawls: 0 Nest Zone Number: GPS Latitude Reading: 27°18.049' GPS Longitude Reading: 80°13.045' Year: 1990 Loggerhead Turtle Nests: 309 Loggerhead False Crawls: 227 Green Turtle Nests: 9 Green Turtle False Crawls: 9 Leatherback Turtle Nests: 1 Leatherback False Crawls: Nest Zone Number: GPS Latitude Reading: 27°17.528' GPS Longitude Reading: 80°13.824' Year: 1990 Loggerhead Turtle Nests: 287 Loggerhead False Crawls: 210 Green Turtle Nests: 2 Green Turtle False Crawls: 6 Leatherback Turtle Nests: 0 Leatherback False Crawls: Nest Zone Number: GPS Latitude Reading: 27°16.960' GPS Longitude Reading: 80°12.563' Year: 1990 Loggerhead Turtle Nests: 237 Loggerhead False Crawls: 212 Green Turtle Nests: 5 Green Turtle False Crawls: Leatherback Turtle Nests: Leatherback False Crawls:

Nest Zone Number: 24 GPS Latitude Reading: 27°16.538' GPS Longitude Reading: 80°12.356' Year: 1990 Loggerhead Turtle Nests: Loggerhead False Crawls: Green Turtle Nests: 3 Green Turtle False Crawls: 0 Leatherback Turtle Nests: 0 Leatherback False Crawls: Nest Zone Number: GPS Latitude Reading: 27°16.067' GPS Longitude Reading: 80°12.176' Year: 1990 Loggerhead Turtle Nests: Loggerhead False Crawls: 157 Green Turtle Nests: Green Turtle False Crawls: Leatherback Turtle Nests: Leatherback False Crawls: Nest Zone Number: GPS Latitude Reading: 27°15.445' GPS Longitude Reading: 80°11.804' Year: 1990 Loggerhead Turtle Nests: Loggerhead False Crawls: 111 Green Turtle Nests: 2 Green Turtle False Crawls: Leatherback Turtle Nests: 0 Leatherback False Crawls: Nest Zone Number: GPS Latitude Reading: 27°14.942' GPS Longitude Reading: 80°11.606' Year: 1990 Loggerhead Turtle Nests: 168 Loggerhead False Crawls: 105 Green Turtle Nests: 7 Green Turtle False Crawls: 6 Leatherback Turtle Nests: Leatherback False Crawls:

Nest Zone Number: GPS Latitude Reading: 27°14.460' GPS Longitude Reading: 80°11.325' Year: 1990 Loggerhead Turtle Nests: 165 Loggerhead False Crawls: 150 Green Turtle Nests: 10 Green Turtle False Crawls: 3 Leatherback Turtle Nests: 0 Leatherback False Crawls: Nest Zone Number: 29 GPS Latitude Reading: 27°14.013' GPS Longitude Reading: 80°11.069' Year: 1990 Loggerhead Turtle Nests: 137 Loggerhead False Crawls: 152 Green Turtle Nests: 5 Green Turtle False Crawls: 3 Leatherback Turtle Nests: 0 Leatherback False Crawls: Nest Zone Number: 30 GPS Latitude Reading: 27°13.499' GPS Longitude Reading: 80°10.815' Year: 1990 Loggerhead Turtle Nests: 174 Loggerhead False Crawls: 159 Green Turtle Nests: 9 Green Turtle False Crawls: 10 Leatherback Turtle Nests: 2 Leatherback False Crawls: Nest Zone Number: 31 GPS Latitude Reading: 27°13.030' GPS Longitude Reading: 80°10.509' Year: 1990 Loggerhead Turtle Nests: 167 Loggerhead False Crawls: 145 Green Turtle Nests: 5 Green Turtle False Crawls: 3 Leatherback Turtle Nests: 0 Leatherback False Crawls: 0

Nest Zone Number: 32 GPS Latitude Reading: 27°12.531' GPS Longitude Reading: 80°10.253' Year: 1990 Loggerhead Turtle Nests: 126 Loggerhead False Crawls: Green Turtle Nests: Green Turtle False Crawls: 0 Leatherback Turtle Nests: 0 Leatherback False Crawls: 0 Nest Zone Number: GPS Latitude Reading: 27°11.985' GPS Longitude Reading: 80°09.926' Year: 1990 Loggerhead Turtle Nests: 202 Loggerhead False Crawls: 99 Green Turtle Nests: 11 Green Turtle False Crawls: 12 Leatherback Turtle Nests: 0 Leatherback False Crawls: 0 Nest Zone Number: GPS Latitude Reading: 27°11.565' GPS Longitude Reading: 80°09.647' Year: 1990 Loggerhead Turtle Nests: 151 Loggerhead False Crawls: 107 Green Turtle Nests: Green Turtle False Crawls: 0 Leatherback Turtle Nests: 0 Leatherback False Crawls: Nest Zone Number: GPS Latitude Reading: 27°10.991' GPS Longitude Reading: 80°09.575' Year: 1990 Loggerhead Turtle Nests: 181 Loggerhead False Crawls: 147 Green Turtle Nests: Green Turtle False Crawls: 0 Leatherback Turtle Nests: 0 Leatherback False Crawls:

Nest Zone Number: 36 GPS Latitude Reading: 27°10.476' GPS Longitude Reading: 80°09.391' Year: 1990 Loggerhead Turtle Nests: 196 Loggerhead False Crawls: 143 Green Turtle Nests: 1 Green Turtle False Crawls: Leatherback Turtle Nests: 0 Leatherback False Crawls: 0 Nest Zone Number: GPS Latitude Reading: 27°10.109' GPS Longitude Reading: 80°09.223' Year: 1990 Loggerhead Turtle Nests: 10 Loggerhead False Crawls: 31 Green Turtle Nests: Green Turtle False Crawls: 0 Leatherback Turtle Nests: 0 Leatherback False Crawls: 0 Nest Zone Number: GPS Latitude Reading: 27°28.241' GPS Longitude Reading: 80°17.435' Year: 1991 Loggerhead Turtle Nests: Loggerhead False Crawls: 14 Green Turtle Nests: 2 Green Turtle False Crawls: 0 Leatherback Turtle Nests: 1 Leatherback False Crawls: Nest Zone Number: GPS Latitude Reading: 27°27.716' GPS Longitude Reading: 80°17.311' Year: 1991 Loggerhead Turtle Nests: Loggerhead False Crawls: 33 Green Turtle Nests: 0 Green Turtle False Crawls: Leatherback Turtle Nests: 0 Leatherback False Crawls:

Nest Zone Number: GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls: Green Turtle Nests: Green Turtle False Crawls: Leatherback Turtle Nests:	3 27°27.240' 80°17.130' 1991 51 53 0
Leatherback False Crawls:	0
Nest Zone Number:	4
	27°26.699'
GPS Longitude Reading:	
Year:	
Loggerhead Turtle Nests:	56
Loggerhead False Crawls:	66
Green Turtle Nests:	0
Green Turtle False Crawls: Leatherback Turtle Nests:	.0
Leatherback Turtle Nests: Leatherback False Crawls:	0 0
Leadherback raise clawis:	. 0
Nest Zone Number: GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls: Green Turtle Nests: Green Turtle False Crawls: Leatherback Turtle Nests: Leatherback False Crawls:	
Nest Zone Number: GPS Latitude Reading: GPS Longitude Reading:	6 27°25.620' 80°16.520'
Year: Loggerhead Turtle Nests: Loggerhead False Crawls: Green Turtle Nests: Green Turtle False Crawls:	1991 111 81 0
Loggerhead Turtle Nests: Loggerhead False Crawls:	1991 111 81 0

Nest Zone Number:	
GPS Latitude Reading:	27°25.141'
GPS Longitude Reading:	80°16.271'
Year:	
Loggerhead Turtle Nests:	124
Loggerhead False Crawls:	
Green Turtle Nests:	
Green Turtle False Crawls:	
Leatherback Turtle Nests:	1 .
Leatherback False Crawls:	0
•	
Nest Zone Number:	8
GPS Latitude Reading:	
GPS Longitude Reading:	
Year:	
Loggerhead Turtle Nests:	
Loggerhead False Crawls:	
Green Turtle Nests:	
Green Turtle False Crawls:	0
Leatherback Turtle Nests:	0
Leatherback False Crawls:	. 0
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Nest Zone Number:	9.
GPS Latitude Reading:	27°24.118'
GPS Longitude Reading:	
Year:	
Loggerhead Turtle Nests:	
Loggerhead False Crawls:	
Green Turtle Nests:	0
Green Turtle False Crawls:	0
Leatherback Turtle Nests:	0
Leatherback False Crawls:	0
•	
Nest Zone Number:	10
GPS Latitude Reading:	
GPS Longitude Reading:	
Year:	1991
Loggerhead Turtle Nests:	202
Loggerhead False Crawls:	183
Green Turtle Nests:	0
Green Turtle False Crawls:	0
Leatherback Turtle Nests:	0 .
Leatherback False Crawls:	0
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Nest Zone Number: GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls: Green Turtle Nests: Green Turtle False Crawls:	11 27°28.241' 80°17.435' 1991 150 196 2
Leatherback Turtle Nests:	0 .
Leatherback False Crawls:	0
Nest Zone Number:	12
GPS Latitude Reading:	27°22.631'
GPS Longitude Reading:	80°15.165'
Year:	1991
Loggerhead Turtle Nests:	165
Loggerhead False Crawls:	197
Green Turtle Nests:	2
Green Turtle False Crawls:	3
Leatherback Turtle Nests:	1
Leatherback False Crawls:	0
Nest Zone Number:	13
Nest Zone Number:	13 27022 1351
Nest Zone Number: GPS Latitude Reading: GPS Longitude Reading:	13 27°22.135' 80°14.904'
GPS Latitude Reading:	27°22.135'
GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests:	27°22.135' 80°14.904'
GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls:	27°22.135' 80°14.904' 1991 252 145
GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls: Green Turtle Nests:	27°22.135' 80°14.904' 1991 252
GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls: Green Turtle Nests: Green Turtle False Crawls:	27°22.135' 80°14.904' 1991 252 145 3 8
GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls: Green Turtle Nests: Green Turtle False Crawls: Leatherback Turtle Nests:	27°22.135' 80°14.904' 1991 252 145 3 8
GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls: Green Turtle Nests: Green Turtle False Crawls:	27°22.135' 80°14.904' 1991 252 145 3 8
GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls: Green Turtle Nests: Green Turtle False Crawls: Leatherback Turtle Nests: Leatherback False Crawls:	27°22.135' 80°14.904' 1991 252 145 3 8 1
GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls: Green Turtle Nests: Green Turtle False Crawls: Leatherback Turtle Nests: Leatherback False Crawls: Nest Zone Number:	27°22.135' 80°14.904' 1991 252 145 3 8 1
GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls: Green Turtle Nests: Green Turtle False Crawls: Leatherback Turtle Nests: Leatherback False Crawls: Nest Zone Number: GPS Latitude Reading:	27°22.135' 80°14.904' 1991 252 145 3 8 1 0
GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls: Green Turtle Nests: Green Turtle False Crawls: Leatherback Turtle Nests: Leatherback False Crawls: Mest Zone Number: GPS Latitude Reading: GPS Longitude Reading:	27°22.135' 80°14.904' 1991 252 145 3 8 1 0
GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls: Green Turtle Nests: Green Turtle False Crawls: Leatherback Turtle Nests: Leatherback False Crawls: Mest Zone Number: GPS Latitude Reading: GPS Longitude Reading: Year:	27°22.135' 80°14.904' 1991 252 145 3 8 1 0
GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls: Green Turtle Nests: Green Turtle False Crawls: Leatherback Turtle Nests: Leatherback False Crawls: Nest Zone Number: GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests:	27°22.135' 80°14.904' 1991 252 145 3 8 1 0
GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls: Green Turtle Nests: Green Turtle False Crawls: Leatherback Turtle Nests: Leatherback False Crawls: Nest Zone Number: GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls:	27°22.135' 80°14.904' 1991 252 145 3 8 1 0 14 27°21.646' 80°14.633' 1991 336 194
GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls: Green Turtle Nests: Green Turtle False Crawls: Leatherback Turtle Nests: Leatherback False Crawls: Nest Zone Number: GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls: Green Turtle Nests:	27°22.135' 80°14.904' 1991 252 145 3 8 1 0 14 27°21.646' 80°14.633' 1991 336 194 3
GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls: Green Turtle Nests: Green Turtle False Crawls: Leatherback Turtle Nests: Leatherback False Crawls: Nest Zone Number: GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls:	27°22.135' 80°14.904' 1991 252 145 3 8 1 0 14 27°21.646' 80°14.633' 1991 336 194

Nest Zone Number: GPS Latitude Reading: 27°21.139' GPS Longitude Reading: 80°14.337' Year: 1991 Loggerhead Turtle Nests: Loggerhead False Crawls: 194 Green Turtle Nests: 0 Green Turtle False Crawls: 0 Leatherback Turtle Nests: 1 Leatherback False Crawls: Nest Zone Number: 16 GPS Latitude Reading: 27°20.627' GPS Longitude Reading: 80°14.134' Year: 1991 Loggerhead Turtle Nests: 160 Loggerhead False Crawls: 156 Green Turtle Nests: Green Turtle False Crawls: 1 Leatherback Turtle Nests: 0 Leatherback False Crawls: Nest Zone Number: GPS Latitude Reading: 27°20.098' GPS Longitude Reading: 80°13.940' Year: 1991 Loggerhead Turtle Nests: 261 Loggerhead False Crawls: 159 Green Turtle Nests: Green Turtle False Crawls: 0 Leatherback Turtle Nests: 0 Leatherback False Crawls: Nest Zone Number: 18 GPS Latitude Reading: 27°19.561' GPS Longitude Reading: 80°13.682' Year: 1991 Loggerhead Turtle Nests: 213 Loggerhead False Crawls: 172 Green Turtle Nests: 0 Green Turtle False Crawls: 0 Leatherback Turtle Nests: Leatherback False Crawls: 0

Nest Zone Number: GPS Latitude Reading: 27°19.042' GPS Longitude Reading: 80°13.482' Year: 1991 Loggerhead Turtle Nests: 285 Loggerhead False Crawls: Green Turtle Nests: 4 Green Turtle False Crawls: 2 Leatherback Turtle Nests: 0 Leatherback False Crawls: Nest Zone Number: GPS Latitude Reading: 27°18.539' GPS Longitude Reading: 80°13.254' Year: 1991 Loggerhead Turtle Nests: 262 Loggerhead False Crawls: 265 Green Turtle Nests: 3 Green Turtle False Crawls: 5 Leatherback Turtle Nests: 1 Leatherback False Crawls: Nest Zone Number: GPS Latitude Reading: 27°18.049' GPS Longitude Reading: 80°13.045' Year: 1991 Loggerhead Turtle Nests: Loggerhead False Crawls: 217 Green Turtle Nests: 2 Green Turtle False Crawls: 5 Leatherback Turtle Nests: 1 Leatherback False Crawls: Nest Zone Number: GPS Latitude Reading: 27°17.528' GPS Longitude Reading: 80°13.824' Year: 1991 Loggerhead Turtle Nests: 246 Loggerhead False Crawls: 236 Green Turtle Nests: 0 Green Turtle False Crawls: 1 Leatherback Turtle Nests:

Nest Zone Number: 23 GPS Latitude Reading: 27°16.960' GPS Longitude Reading: 80°12.563' Year: 1991 Loggerhead Turtle Nests: Loggerhead False Crawls: 165 Green Turtle Nests: 0 Green Turtle False Crawls: 0 Leatherback Turtle Nests: 1 Leatherback False Crawls: 0 Nest Zone Number: GPS Latitude Reading: 27°16.538' GPS Longitude Reading: 80°12.356' Year: 1991 Loggerhead Turtle Nests: 191 Loggerhead False Crawls: 159 Green Turtle Nests: 0 Green Turtle False Crawls: 2 Leatherback Turtle Nests: 2 Leatherback False Crawls: Nest Zone Number: GPS Latitude Reading: 27°16.067' GPS Longitude Reading: 80°12.176' Year: 1991 Loggerhead Turtle Nests: 215 Loggerhead False Crawls: 144 Green Turtle Nests: 0 Green Turtle False Crawls: 1 Leatherback Turtle Nests: 2 Leatherback False Crawls: Nest Zone Number: GPS Latitude Reading: 27°15.445' GPS Longitude Reading: 80°11.804' Year: 1991 Loggerhead Turtle Nests: 136 Loggerhead False Crawls: 110 Green Turtle Nests: 0 Green Turtle False Crawls: 0 Leatherback Turtle Nests:

Nest Zone Number:	27
GPS Latitude Reading:	27°14.942'
GPS Longitude Reading:	80°11.606'
Year:	1991
Loggerhead Turtle Nests:	169
Loggerhead False Crawls:	133
Green Turtle Nests:	6
Green Turtle False Crawls:	1
Leatherback Turtle Nests:	1
Leatherback False Crawls:	1
_	
Nest Zone Number:	28
GPS Latitude Reading:	27°14.460'
GPS Longitude Reading:	80°11.325'
Year:	1991
Loggerhead Turtle Nests:	154
Loggerhead False Crawls:	134
Green Turtle Nests:	4
Green Turtle False Crawls:	1
Leatherback Turtle Nests:	4
Leatherback False Crawls:	0
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March Claus Manulana	
Nest Zone Number:	29
GPS Latitude Reading:	27°14.013'
GPS Latitude Reading: GPS Longitude Reading:	27°14.013' 80°11.069'
GPS Latitude Reading: GPS Longitude Reading: Year:	27°14.013' 80°11.069' 1991
GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests:	27°14.013' 80°11.069' 1991 76
GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls:	27°14.013' 80°11.069' 1991 76 159
GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls: Green Turtle Nests:	27°14.013' 80°11.069' 1991 76 159 3
GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls: Green Turtle Nests: Green Turtle False Crawls:	27°14.013' 80°11.069' 1991 76 159 3
GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls: Green Turtle Nests: Green Turtle False Crawls: Leatherback Turtle Nests:	27°14.013' 80°11.069' 1991 76 159 3 4
GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls: Green Turtle Nests: Green Turtle False Crawls:	27°14.013' 80°11.069' 1991 76 159 3
GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls: Green Turtle Nests: Green Turtle False Crawls: Leatherback Turtle Nests:	27°14.013' 80°11.069' 1991 76 159 3 4
GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls: Green Turtle Nests: Green Turtle False Crawls: Leatherback Turtle Nests: Leatherback False Crawls:	27°14.013' 80°11.069' 1991 76 159 3 4 0
GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls: Green Turtle Nests: Green Turtle False Crawls: Leatherback Turtle Nests: Leatherback False Crawls: Nest Zone Number:	27°14.013' 80°11.069' 1991 76 159 3 4 0
GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls: Green Turtle Nests: Green Turtle False Crawls: Leatherback Turtle Nests: Leatherback False Crawls: Nest Zone Number: GPS Latitude Reading:	27°14.013' 80°11.069' 1991 76 159 3 4 0 1
GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls: Green Turtle Nests: Green Turtle False Crawls: Leatherback Turtle Nests: Leatherback False Crawls: Mest Zone Number: GPS Latitude Reading: GPS Longitude Reading:	27°14.013' 80°11.069' 1991 76 159 3 4 0 1
GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls: Green Turtle Nests: Green Turtle False Crawls: Leatherback Turtle Nests: Leatherback False Crawls: Nest Zone Number: GPS Latitude Reading: GPS Longitude Reading: Year:	27°14.013' 80°11.069' 1991 76 159 3 4 0 1
GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls: Green Turtle Nests: Green Turtle False Crawls: Leatherback Turtle Nests: Leatherback False Crawls: Nest Zone Number: GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests:	27°14.013' 80°11.069' 1991 76 159 3 4 0 1
GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls: Green Turtle Nests: Green Turtle False Crawls: Leatherback Turtle Nests: Leatherback False Crawls: Nest Zone Number: GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls:	27°14.013' 80°11.069' 1991 76 159 3 4 0 1 30 27°13.499' 80°10.815' 1991 158 131
GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls: Green Turtle Nests: Green Turtle False Crawls: Leatherback Turtle Nests: Leatherback False Crawls: Nest Zone Number: GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls: Green Turtle Nests:	27°14.013' 80°11.069' 1991 76 159 3 4 0 1 30 27°13.499' 80°10.815' 1991 158 131 6
GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls: Green Turtle Nests: Green Turtle False Crawls: Leatherback Turtle Nests: Leatherback Turtle Nests: Leatherback False Crawls: GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls: Green Turtle Nests: Green Turtle False Crawls:	27°14.013' 80°11.069' 1991 76 159 3 4 0 1 30 27°13.499' 80°10.815' 1991 158 131 6 5
GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls: Green Turtle Nests: Green Turtle False Crawls: Leatherback Turtle Nests: Leatherback False Crawls: Nest Zone Number: GPS Latitude Reading: GPS Longitude Reading: Year: Loggerhead Turtle Nests: Loggerhead False Crawls: Green Turtle Nests:	27°14.013' 80°11.069' 1991 76 159 3 4 0 1 30 27°13.499' 80°10.815' 1991 158 131 6

Nest Zone Number: 31 GPS Latitude Reading: 27°13.030' GPS Longitude Reading: 80°10.509' Year: 1991 Loggerhead Turtle Nests: Loggerhead False Crawls: Green Turtle Nests: 1 Green Turtle False Crawls: 1 Leatherback Turtle Nests: 1 Leatherback False Crawls: Nest Zone Number: GPS Latitude Reading: 27°12.531' GPS Longitude Reading: 80°10.253' Year: 1991 Loggerhead Turtle Nests: Loggerhead False Crawls: 89 Green Turtle Nests: 0 Green Turtle False Crawls: 0 Leatherback Turtle Nests: 2 Leatherback False Crawls: 1 Nest Zone Number: GPS Latitude Reading: 27°11.985' GPS Longitude Reading: 80°09.926' Year: 1991 Loggerhead Turtle Nests: Loggerhead False Crawls: 95 Green Turtle Nests: 0 Green Turtle False Crawls: 3 Leatherback Turtle Nests: Leatherback False Crawls: Nest Zone Number: GPS Latitude Reading: 27°11.565' GPS Longitude Reading: 80°09.647' Year: 1991 Loggerhead Turtle Nests: Loggerhead False Crawls: 91 Green Turtle Nests: 1 Green Turtle False Crawls: 1 Leatherback Turtle Nests:

Nest Zone Number:	35
GPS Latitude Reading:	27°10.991'
GPS Longitude Reading:	80°09.575'
Year:	
Loggerhead Turtle Nests:	171
Loggerhead False Crawls:	189
Green Turtle Nests:	1
Green Turtle False Crawls:	0
Leatherback Turtle Nests:	0
Leatherback False Crawls:	0
Nest Zone Number:	36
GPS Latitude Reading:	27°10.476'
GPS Longitude Reading:	80°09.391'
Year:	1991
Loggerhead Turtle Nests:	
Loggerhead False Crawls:	188
Green Turtle Nests:	1
Green Turtle False Crawls:	2
Leatherback Turtle Nests:	1
Leatherback False Crawls:	0 -
**	
Nest Zone Number:	37
GPS Latitude Reading:	27°10.109'
GPS Longitude Reading:	
Year:	
Loggerhead Turtle Nests:	9
Loggerhead False Crawls:	15
Green Turtle Nests:	0
Green Turtle False Crawls:	0
Leatherback Turtle Nests:	0
Leatherback False Crawls:	0

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Ed Blaine, Greg Diehl, Andrea Mosier	<u>. Ernie barneti</u>	. VICKI EMBRY	16	MATERIAL LINE No.
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the goal of which is to promote the Florida. The Division of Beaches a construction through the Coastal Construction through the Coastal Construction through the data collection independent of one another. The infrom each source in a format which management activities.	and Shores is re onstruction Con tion efforts of nventory serves	esponsible for trol Line Prog each division	regulating ram. have been	accomplished
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