FWS/0BS-80/05

**Biological Services Program** 

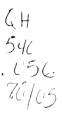
FWS/OBS-80/05 August 1981



# Atlas of Gull and Tern Colonies: North Carolina to Key West, Florida

(including Pelicans, Cormorants and Skimmers)





Fish and Wildlife Service

**U.S. Department of the Interior** 

The Biological Services Program was established within the U.S. Fish and wildlife Service to supply scientific information and methodologies on key environmental issues that impact fish and wildlife resources and their supporting ecosystems. The mission of the program is as follows:

- To strengthen the Fish and Wildlife Service in its role as a primary source of information on national fish and wildlife resources, particularly in respect to environmental impact assessment.
- To gather, analyze, and present information that will aid decisionmakers in the identification and resolution of problems associated with major changes in land and water use.
- To provide better ecological information and evaluation for Department of the Interior development programs, such as those relating to energy development.

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#### FWS/OBS-80/05 August 1981

ATLAS OF GULL AND TERN COLONIES: NORTH CAROLINA TO KEY WEST, FLORIDA (INCLUDING PELICANS, CORMORANTS AND SKIMMERS)

by

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Performed for

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#### PREFACE

This report is one of several recounting the results of 1976-77 surveys of nesting colonies of colonial waterbirds in coastal areas along the U.S. Atlantic coast, Great Lakes, and the northern Gulf of Mexico.

Publication of the results will aid resource managers. But also the hope is that as citizens learn about the resources, they will appreciate even more the interrelationships among coastal processes and resources.

Comments or requests for this report should be directed to:

Information Transfer Specialist U.S. Fish and Wildlife Service National Coastal Ecosystems Team 1010 Gause Boulevard Slidell, Louisiana 70458

#### SUMMARY

Colonies of pelicans, cormorants, gulls, terns and black skimmers were inventoried in 1976 from North Carolina to Key West, Florida. Five teams of investigators used ground and aerial counts of nests or adults, or both, throughout the spring and summer. This atlas shows the location of each known active colony and includes information on nesting site and substrate, species composition and numbers, nesting stage, and inventory method. Field work was conducted in conjunction with a survey of wading birds under the direction of T. Custer and R. Osborn at the Patuxent Wildlife Research Center.

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#### ACKNOWLEDGMENTS

We thank all the volunteers who contributed colony data to this atlas. D. Brown provided technical assistance; P. McDonald and M. Civello prepared the tables and text. The Massachusetts Cooperative Wildlife Research Unit, Migratory Bird and Habitat Research Laboratory, and Patuxent Wildlife Research Center provided administrative support throughout the preparation of this report.

#### INTRODUCTION

The southeastern Atlantic shore of the United States is a mosaic of marshes, sandy barrier beaches, maritime forests, and mangroves. Such habitats are biologically diverse and are among the most productive ecosystems in the world (Odum 1971).

Increased human recreation and development pressures in these coastal areas has resulted in greater disturbance to the associated coastal resources. Recognizing the need to monitor certain important wildlife resources, the U.S. Fish and Wildlife Service initiated programs in 1975 to inventory colonially nesting waterbirds along the east and gulf coasts of the United States and in Alaska.

Many species of waterbirds were nearly extirpated in the late 19th and early 20th centuries by millinery traders and egg collectors. Although protection allowed most species to recover during the middle part of this century, pollution problems and habitat destruction have intensified in the past 30 years and continue to threaten breeding populations. The stability of coastal bird populations may then reflect the relative quality of their wetland habitats.

This is one of a series of atlases showing the results of coastal surveys and inventories of colonial waterbirds (see also Portnoy 1977, Sowls et al. 1978, Osborn and Custer 1978, Erwin and Korschgen 1979). This atlas documents the location and abundance of pelicans, cormorants, gulls, terns, and black skimmers, that nested in 1976 from the Virginia-North Carolina border to Key West, Florida (Table 1). These species were included in the atlas by Osborn and Custer (1978) but only for those locations where herons also nested. To that extent, there is duplication between the two atlases.

Information in this atlas includes: colony location, species composition and estimated number of breeding adults, site description and nest substrates, stage of nesting, census method and date of census. Table 2 summarizes the total number of colonies and breeding birds found and the frequency of occurrence of all species censused for this atlas. Table 1. Colonial species included in censuses of south Atlantic U.S. coast colonies.

Common name	Scientific name
Brown pelican	Pelecanus occidentalis
Double-crested cormorant	Phalacrocorax auritus
Great black-backed gull	Larus marinus
Herring gull	Larus argentatus
Laughing gull	Larus atricilla
Gull-billed tern	<u>Gelochelidon nilotica</u>
Forster's tern	Sterna forsteri
Common tern	Sterna hirundo
Least tern	Sterna albifrons
Royal tern	<u>Sterna maxima</u>
Sandwich tern	Sterna sandvicensis
Caspian tern	<u>Sterna caspia</u>
Black skimmer	<u>Rynchops nigra</u>

Table 2. Total number of colonies and breeding birds and frequency of occurrence of gulls, cormorants, gulls, terns and skimmers of the south Atlantic U.S. Coast, 1976.

Species	Colonies	Breeding birds	Percent of total colonies	Percent of total breeding birds
Brown pelican	21	11,836	6.0	8.0
Double-crested cormorant	39	12,922	11.0	8.8
Great black-backed gull	1 7	6	.3	.004
Herring gull	7	640	2.0	. 4
Laughing gull	37	37,892	10.5	25.7
Gull-billed tern	36	1,314	10.2	.9
Forster's tern	16	1,610	4.5	1.1
Common tern	51	8,088	14.4	5.5
Least tern	78	4,894	22.1	3.3
Royal tern	11	59,238	3.1	40.2
Sandwich tern	7	1,704	2.0	1.2
Caspian tern	1	18	.3	.01
Black skimmer	48	7,153	13.6	4.9
	353	147,315	100	100.014

#### METHODS

Five teams of investigators conducted intensive surveys and inventories during the spring and summer of 1976 (Table 3) from North Carolina to Key West, Florida. Inventories were complete in all areas except Georgia which was less intensively searched due to limited time and personnel. Estimates and counts of all nesting species were made on foot or by use of fixed-wing aircraft and boats. Aircraft were used primarily in the initial location of colonies. The census method employed at each site depended on the colony size and accessibility, time, and work force available. In general, counts of active nests were preferred to counts of adults because they indicated a total nesting population and exclude the nonbreeding "surplus" birds associated with the colony (Kadlec and Drury 1968). In response to a protracted nesting season in southern regions (e.g., cormorants may nest in any month of the year in Florida) several inventories were made at the same colonies from late winter through the summer.

Standardized census forms were provided to each investigator to ensure that the data were collected uniformly. Survey results have been entered into a data bank at the Colonial Bird Register, Laboratory of Ornithology, Cornell University, Ithaca, New York.

#### ORGANIZATION OF THE ATLAS

The atlas is arranged with 14 U.S. Geological Survey maps showing colony locations, followed by tables summarizing the census results for each colony on that map. The maps are photographically reduced from a scale of 1:250,000, and arranged consecutively from north to south (Figure 1). Each map is assigned a three-digit locator number. Colony locations are referenced with a six-digit number, the first three identifying the corresponding USGS map and the last three identifying the individual colony. Colonies described in earlier atlases (Osborn and Custer 1978, Erwin and Korschgen 1979) have retained their previously assigned number. In addition, code numbers used by Parnell and Soots (1979) have been listed for those colonies in North Carolina.

Tables following each map, describe colonies by name, state, latitude and longitude, nest substrate, species composition, date of census, number of breeding birds, nesting stage and inventory method. General site descriptions include marsh, swamp, barrier beach, island-coastal (nonbarrier), or urban. Nest site (micro-habitat) categories include sand or shell, dredged material, driftage, herbaceous vegetation, trees or shrubs and artificial (e.g. roof tops, runways). Nesting stages are described as pairing, prenesting, egg laying, incubation, hatching, downy young, feathered young, flying young, renesting, loafing, abandoned or unknown. Inventory methods include aerial estimates (fixed-wing or rotary), ground estimate, aerial photographic count, adult or nest count (ground), and sample count (point-centered quarter method or line transect).

Investigator	Area
James Parnell Department of Biology University of North Carolina - Wilmington Wilmington, NC	North Carolina
Robert Soots, Jr. Department of Biology Campbell University Buies Creek, NC	North Carolina
Alexander Sprunt IV Research Department National Audubon Society Tavernier, FL	South Carolina
John C. Ogden Research Department National Audubon Society Tavernier, FL	South Carolina
Ronald Odom Georgia Department of Natural Resources Game and Fish Division Social Circle, GA	Georgia <sup>2</sup>
Stephen Nesbitt Florida Game & Freshwater Fish Commission Gainesville, FL	Florida (from Merritt Island north)
James Kushlan and William Robertson, Jr. National Parks Service Everglades National Park Homestead, FL	Florida (south of Merritt Island to and including Keys)

Table 3. Principal investigators<sup>1</sup> and their census areas in 1976.

<sup>1</sup> Other contributors were North Carolina -- L. Jernigan, M. Pate; South Carolina -- D. Forsythe, G. Garris, L. Pate, F. Probst, A. Von Harten; Florida -- O. Bass, H. Kale II, J. Ogden, D. White

<sup>2</sup> Incomplete coverage.

Locator for Colony Maps

Map Number	Name
499	Rocky Mount, NC
500	Manteo, NC
523	Beaufort, NC
544	Georgetown, SC
563	Savannah, GA
564	James Island, SC
581	Brunswick, GA
594	Jacksonville, FL
606	Daytona Beach, FL
612	Orlando, FL
616	Ft. Pierce, FL
619	West Palm Beach, FL
620	Miami, FL
621	Key West, FL

	Index to Colony Maps	
Map Number	Name	Page
499 500 523 544 563 564	Rocky Mount, NC	13 21 31 51 59
504 581 594 606 612 616 619 620 621	Brunswick, GA	63 67 69 73 75 79 83 85 91

List of Colonies

Map Number	Colony Name	Page
499001 499002 499007 499009 499010 499011 499012 499013 499014 499015 499016 499017 499018 499019 499020 499021 499022 499023	Beacon Island (11-04), NC	14 14 15 15 16 16 16 16 17 17 17 17 18 18 18 18 19 19
500001 500002 500003 500005 500006 500007 500008 500009 500010 500011 500012 500013 500014 500015 500016 500017 500018 500019 500020 500021 500022 500023 500024 500025	Gull Island (06-12), NC         Herring Gull Island (03-05), NC         Outer Green, NC         Unnamed (03-09), NC         Unnamed (03-06), NC         Oregon Inlet North (05-01), NC         Unnamed (03-07), NC         Unnamed (06-07), NC         Unnamed (06-07), NC         Unnamed (06-07), NC         Unnamed (06-08), NC         Unnamed (06-07), NC         Unnamed (06-08), NC         Unnamed (06-09), NC         Long Shoal Point (50-03), NC         Long Shoal Point (50-05), NC         Hatteras Island (08-01), NC         King Island (06-21), NC         King Island (06-21), NC         Hatteras Inlet (09-04), NC         Hatteras Inlet (09-03), NC         Hatteras Inlet (09-03), NC         Ocracoke (09-02), NC         Whalebone (03-08), NC         Unnamed (1C-03), NC         Unnamed (03-01), NC	22 23 23 24 24 24 25 25 25 25 25 26 26 26 26 26 26 27 27 27 28 28 28 28 29 29

Map Number	Colony Name	Page
523001	Alligator Bay (27-04), NC	32
523003	Dump Island (16-01), NC	32
523007	Morgan Island (17-01), NC	32
523011	Shell Island (14-01), NC	33
523013	Woodhouse Island (14-10), NC	33
523014	Core Banks (14-11), NC	33
523015	Big Deep (14-09), NC	34
523016	Tump Island (06-20), NC	34
523017	Unnamed (17-03), NC	34
523018	Unnamed (18-12), NC	35
523019	Bottle Run (18-08), NC	35
523020	Shackleford (20-05), NC	35
523021	Unnamed (18-13), NC	36
523022	Unnamed (20-03), NC	36
523023	Unnamed (22-02), NC	36
523024	Unnamed (22-04), NC	37
523025	Unnamed (20-02), NC	37
523026	Annex Island (21-03), NC	37
523027	Unnamed (21-01), NC	38
523028	Brant Island (20-06), NC	38
523029	Lake Ellis Simon, NC	38
523030	Unnamed (22-08), NC	39
523031	Unnamed (22-26), NC	39
523032	Unnamed (22-40), NC	39
523033	Unnamed (23-10), NC	40
523034	Unnamed (23-11), NC	40
523035	Unnamed (22-45), NC	40
523036	Bogue Inlet (23-04), NC	41
523037	Hammocks Beach (23-02), NC	41
523038	Unnamed (23-14), NC	41
523039	Unnamed (26-07), NC	42
523040	Tiny Triangle (15-14), NC	42
523041	Alligator Bay Main (50-01), NC	42
523042	Unnamed (29-25), NC	43
523043	Topsail South (30-01), NC	43
523044	North Old-Topsail (31-01), NC	43
523045	Unnamed $(29-36)$ , NC	44
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523049	Shinn Creek (36-03), NC	45
523050	Masonboro Island (35-02), NC	45
523051	Unnamed (36-14), NC	46
523052	Unnamed (37-18), NC	46
523053	Unnamed (39–26), NC	46
523053	Laughing Gull (39–28), NC	40
523055	Chainshot (15-11), NC	47
523056	Harbor $(14-03)$ , NC	47
523030		17

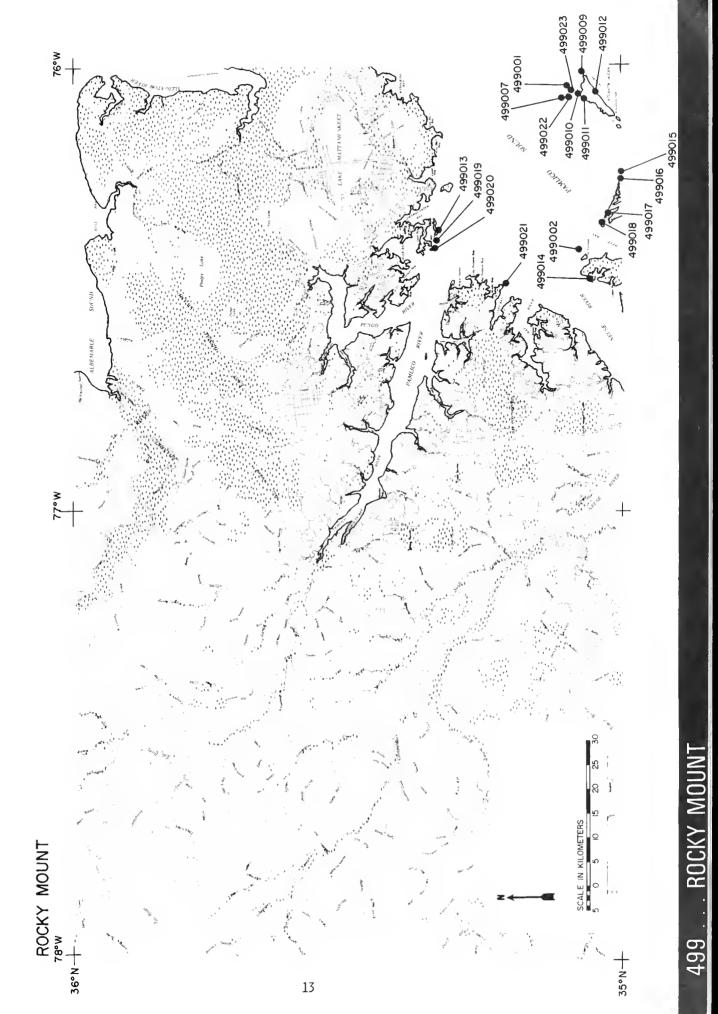
Map Number	Colony Name	Page
523057 523058 523059 523060 523061 523062	Cedar Point (50-02), NC	48 48 49 49 49 49
544005 544009 544010 544011 544012 544013 544014 544015 544016 544016 544017 544018 544019 544020 544021 544022 544023 544024 544025 544026	White Banks, SC	52 52 53 53 53 54 54 55 55 56 56 56 57 57 57 58
563006 563012 563013 563014 563015 563016 563017	Deveaux Bank, SC John's Island Airport, SC	60 60 61 61 61 62
564001 564006 564007 564008 564009 564010 564011 564012	Bird Island, SCSCSCNorthwood Mall, SCSCSCCharleston Naval Base, SCSCSCHog Island, SCSCSCRiverview Inn, SCSCSCFolly River Road, SCSCSCBird Key, SCSCSCWhite Island, SCSCSC	64 64 65 65 65 66 66
581025	Pelican Spit, GA	68

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60600 <b>1</b> 606002 606003	New Smyrna Beach, FL	74 74 74
612001 612002 612003 612004 612007	Bird Island, FL	76 76 77 77 77 77
616001 616002 616003 616004 616007 616008 616009 616051	County Line Spoil, FL	80 80 81 81 81 82 82
620005 620007 620009 620012 620016 620046 620053 620054 620055 620056 620057	Cowpens Keys, FL	86 86 87 87 87 88 88 88 88 88 88 88 89 89
621001 621002 621004 621005 621006 621007 621008	Archer Key, FLBarnes Key, FLBig Mangrove Key, FLBuchanan Key, FLChannel Key, FLCotton Key, FLCottrell Key, FL	92 92 93 93 93 93 94

Map Name	Colony Name	Page
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621010	Don Quixote Key, FL	95
621011	Fanny Keys, FL	95
621012	Green Mangrove Key, FL	95
621014	Johnston Key Mangroves, FL	96
621015	Johnston Keys - West, FL	96
621016	Marvin Keys - South, FL	96
621017	Peterson Keys - East, FL	97
621018	Shell Key, FL	97
621020	Tarpon Belly Keys, FL	97
621021	Upper Arsnicker Keys, FL	98
621023	West Bahia Honda Key, FL	98
621026	East Key, FL	98
621027	Rabbit Keys, FL	99
621028	Lower Arsnicker Key, FL	99
621029	Horseshoe Keys - East, FL	99
621030	Teatable Key, FL	100
621031	Bay Key, FL	100

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#### 499 ROCKY MOUNT, NC

499001 Beacon Island (11-04), North Carolina

35<sup>0</sup>05.9'N: 76<sup>0</sup>02.8'W LOCATION: SITE DESCRIPTION: Marsh Herbaceous Vegetation **NESTING SUBSTRATE:** INVENTORY METHOD SPECIES DATE BREEDING BIRDS NESTING STAGE Laughing Gull Forster's Tern Nest Count-Ground June 1 3034 Incubation June 1 282 Incubation Nest Count-Ground

<u>499002</u> Big Swan	Island (	06-19), North Carolina	
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	35 <sup>0</sup> 04.7 Island- Sand or		
SPECIES	DATE	BREEDING BIRDS NESTING STAGE	INVENTORY METHOD
Forster's Tern	May 20	Colony present; later abandoned after washout	Aerial Estimate- Fixed Wing
Common Tern	May 20		Aerial Estimate-
Black Skimmer	May 20		Fixed Wing Aerial Estimate- Fixed Wing

#### 499007 North Rock (11-07), North Carolina

LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	Island-	'N; 76 <sup>0</sup> 04.3'W Coastal Material		
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Brown Pelican Forster's Tern Common Tern	June 1 June 1 June 1	270 94 120	Egg Laying Egg Laying Egg Laying	Nest Count-Ground Nest Count-Ground Nest Count-Ground

Ocracoke Flats (11-01), North Carolina 499009 35<sup>0</sup>04.2'N; 76<sup>0</sup>00.6'W LOCATION: Barrier Beach SITE DESCRIPTION: NEST SUBSTRATE: Sand or Shell SPECIES DATE BREEDING BIRDS NESTING STAGE INVENTORY METHOD Gull-Billed Tern June 1 24 Incubation Nest Count-Ground Nest Count-Ground Common Tern June 1 808 Incubation Least Tern August 7 Ground Estimate Pairing 14 June 1 Nest Count-Ground Black Skimmer 392 Incubation

<u>499010</u> North Cas	ey (12-02	), North Carolin	a	
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	35 <sup>0</sup> C4.6' Marsh Driftage	N; 76 <sup>0</sup> 04.1'W		
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Forster's Tern	June 2	94	Egg Laying	Nest Count-Ground

499011 Unnamed	(12-20), N	orth Carolina		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	35 <sup>0</sup> C4.1' Marsh Driftage	N; 76 <sup>0</sup> 04.4'W		
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Forster's Tern	June 2	86	Egg Laying	Nest Count-Ground

499012 Portsmout	h Island	(12-01), North C	arolina	
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	35 <sup>0</sup> 01.8' Barrier Sand or			
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Gull-Billed Tern	June 22 July 7	62 6	Incubation Incubation	Nest Count-Ground Nest Count-Ground
Common Tern	June 22	50	Egg Laying Incubation	Nest Count-Ground
Least Tern	July 7 June 22	12 283	Incubation	Nest Count-Ground Nest Count-Ground Nest Count-Ground
Black Skimmer	July 7 June 22 July 7	262 116 124	Flying Young Egg Laying Incubation	Nest Count-Ground Nest Count-Ground

499013 SI	nell Poi	nt (06-13	), North Carolin	a	
LOCATION SITE DESCRIM NEST SUBSTRA		Marsh	N; 76 <sup>0</sup> 22.5'W Material		
SPECIES		DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Common Tern		June 11	104	Egg Laying	Nest Count-Ground

<u>499014</u> Rattan Ba	y (06-18)	, North Carolina		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	35 <sup>0</sup> 03.5'N; 76 <sup>0</sup> 28.6'W Marsh Driftage			
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Common Tern	July 7	97	Hatching	Ground Estimate

499015 Hog Island Reef (15-10), North Carolina

LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	35 <sup>0</sup> 00.1'N; 76 <sup>0</sup> 15.1'W Island-Coastal Sand or Shell			
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Gull-Billed Tern Common Tern Black Skimmer	May 27 May 27 May 27	8 18 2	Egg Laying Egg Laying Pairing	Nest Count-Ground Nest Count-Ground Ground Estimate

499016 Unnamed (	(15-09), N	lorth Carolina		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	35 <sup>0</sup> 00.1' Island-0 Sand or			
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Gull-Billed Tern Common Tern Black Skimmer	May 27 May 27 May 27	20 12 2	Egg Laying Egg Laying Egg Laying	Nest Count-Ground Nest Count-Ground Ground Estimate

499017 Cedar Isl	and (15-0	)2), North Caroli	na	
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	35 <sup>0</sup> 01.7'N; 76 <sup>0</sup> 20.4'W Island-Coastal Sand or Shell			
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Least Tern	May 26	2	Egg Laying	Nest Count-Ground

499018North Bay (15-01), North CarolinaLOCATION:35°02.0'N; 76°21.3'WSITE DESCRIPTION:Island-CoastalNEST SUBSTRATE:UnknownSPECIESDATELeast TernMay 20Present -- no estimate madeAerial Estimate-<br/>Fixed Wing

499019 Judith Point (06-14), North Carolina

LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	35 <sup>0</sup> 20.3'N; 76 <sup>0</sup> 24.2'W Marsh Dredged Material			
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Common Tern	June 11	107	Incubation	Nest Count-Ground

499020 Judith Island Point (06-15), North Carolina

LOCATION:	35 <sup>0</sup> 20.3'N; 76 <sup>0</sup> 24.4'W
SITE DESCRIPTION:	Marsh
NEST SUBSTRATE:	Dredged Material

SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Common Tern	June 11	184	Incubation	Nest Count-Ground
	July 1	165	Incubation	Nest Count-Ground

<u>499021</u> Sow Islan	d (06-16)	, North Carolina		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	35 <sup>0</sup> 13.0' Marsh Dredged	N; 76 <sup>0</sup> 29.2'W Material		
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Common Tern	May 20	30	Unknown	Aerial Estimate- Fixed Wing
	June 30	70	Egg Laying	Nest Count-Ground

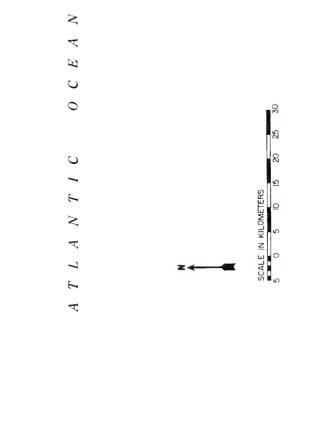
# 499022 Shell Castle (11-06), North Carolina

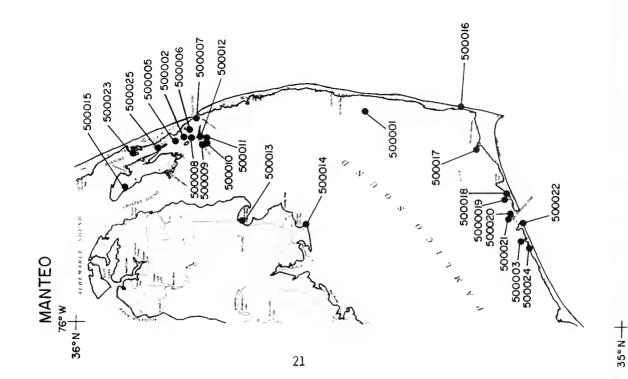
LOCATION:	35 <sup>0</sup> 05.9'N; 76 <sup>0</sup> 04.4'W
SITE DESCRIPTION:	Island-Coastal
NEST SUBSTRATE:	Dredged Material, Driftage

SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Herring Gull	June 2	16	Egg Laying	Nest Count-Ground
Forster's Tern	June 2	116	Egg Laying	Nest Count-Ground
Common Tern	June 2	82	Egg Laying	Nest Count-Ground

499023 Long Rock	(11-05),	North Carolina		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	35 <sup>0</sup> 05.9' Island-C Dredged			
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Herring Gull Common Tern Royal Tern	June 2 June 2 June 2	22 50 122	Egg Laying Egg Laying Incubation	Nest Count-Ground Nest Count-Ground Nest Count-Ground







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## 500 MANTEO, NC

<u>500001</u> Gull Isla	nd (C6-12	), North Carolin	a	
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	35 <sup>0</sup> 28'N; Island-C Sand or	oastal		
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Laughing Gull Forster's Tern Royal Tern	June 10 June 10 May 13	2906 112 1462	Hatching Egg Laying Incubation	Nest Count-Ground Nest Count-Ground Aerial Photo Count

500002 Herring G	ull Islan	d (03-05), North	Carolina	
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	35 <sup>0</sup> 48.3' Island-C Dredged			
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Great BlkBacked Gull Herring Gull Laughing Gull	June 9 June 9 June 9	6 462 2008	Egg Laying Egg Laying Incubation	Nest Count-Ground Nest Count-Ground Nest Count-Ground

<u>500003</u> Outer Gre	en, North	Carolina		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	35 <sup>0</sup> 11.1' Marsh Driftage	N; 75 <sup>0</sup> 48.4'W		
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Laughing Gull	June 1	334	Incubation	Nest Count-Ground

500005 Unnamed (03-09), North Carolina

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LOCATION:	35 <sup>0</sup> 49.1'N; 75 <sup>0</sup> 35.4'W
SITE DESCRIPTION:	Island-Coastal
NEST SUBSTRATE:	Dredged Material

Laughing GullJune 914Egg LayingNest Count-GroundGull-Billed TernJune 912Egg LayingNest Count-GroundCommon TernJune 9342IncubationNest Count-Ground	SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
	Laughing Gull Gull-Billed Tern Common Tern Least Tern	June 9 June 9 June 9 June 9	14 12 342 268	Egg Laying Egg Laying Incubation Egg Laying	Nest Count-Ground Nest Count-Ground Nest Count-Ground Nest Count-Ground Nest Count-Ground Nest Count-Ground

500006 Unnamed	(03-06), N	orth Carolina		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	Island-C	N; 75 <sup>0</sup> 34.8'W coastal Material		
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Herring Gull Laughing Gull	June 9 June 9	36 96	Incubation Egg Laying	Nest Count-Ground Nest Count-Ground

500007 Oregon Inlet North (05-01), North Carolina

LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	35 <sup>0</sup> 47.2' Barrier Sand or			
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Least Tern	July 9	15	Egg Laying	Nest Count-Ground

500008	Unnamed	(03-07), N	North Carolina		
LOCATION: SITE DESCR NEST SUBST		Island-C	'N; 75 <sup>0</sup> 34.9'W Coastal Material		
SPECIES		DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Common Ter Black Skin		June 9 June 9	450 42	Egg Laying Incubation	Nest Count-Ground Nest Count-Ground

500009 Unnamed	(03-12), M	lorth Carolina		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	Island-O	N; 75 <sup>0</sup> 35.9'W Coastal Material		
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Herring Gull Laughing Gull Gull-Billed Tern Common Tern Black Skimmer	June 10 June 10 June 10 June 10 June 10	36 296 20 82 322	Incubation Egg Laying Incubation Incubation Incubation	Nest Count-Ground Nest Count-Ground Nest Count-Ground Nest Count-Ground Nest Count-Ground

500010 Unnamed	(06-07), N	North Carolina		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	Island-O	'N; 75 <sup>0</sup> 35.5'W Coastal Material		
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Gull-Billed Tern Common Tern Black Skimmer	June 9 June 9 June 9	8 154 64	Egg Laying Egg Laying Egg Laying	Nest Count-Ground Nest Count-Ground Nest Count-Ground

<u>500011</u> Unnamed (	06-08), N	orth Carolina		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	35 <sup>0</sup> 45.6' Island-C Dredged			
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Gull-Billed Tern Common Tern Royal Tern Sandwich Tern Caspian Tern Black Skimmer	June 9 June 9 May 13 June 9 June 9 June 9	16 174 5440 88 18 108	Incubation Incubation Incubation Incubation Incubation Incubation	Nest Count-Ground Nest Count-Ground Aerial Photo Count Ground Estimate Nest Count-Ground Nest Count-Ground

<u>500012</u> Unnamed (	06-04), N	lorth Carolina		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	Island-C	N; 75 <sup>0</sup> 35.1'W Coastal Material		
SPECIES	DATE	BREEDING BIRDS	NESTINC STAGE	INVENTORY METHOD
Least Tern	June 9	8	Pre-nesting	Adult Count-Ground

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500013 Stumpy Point Bay (06-09), North Carolina

LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	Island-C	N; 75 <sup>0</sup> 46.1'W Coastal Material		
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Gull-Billed Tern Common Tern Least Tern Black Skimmer	June 11 June 11 June 11 June 11	48 576 20 291	Egg Laying Egg Laying Egg Laying Egg Laying	Nest Count-Ground Nest Count-Ground Nest Count-Ground Nest Count-Ground

500014 Long Shoa	l Point (	50-03), North Ca	rolina	
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	35 <sup>0</sup> 34.8' Marsh Sand or	N; 75 <sup>0</sup> 46.7'W Shell		
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Least Tern	June 11	67	Flying Young	Adult Count-Ground

500015 Manteo Ai	rport (5G	-G5), North Caro	lina	
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	35 <sup>0</sup> 54.8'N; 75 <sup>0</sup> 42.1'W Marsh Artificial-Airport			
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Least Tern	May 21	42	Pairing	Adult Count-Ground

500016 Hatteras	Island (O	E-01), North Car	olina	
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	35 <sup>0</sup> 17.4' Barrier Sand or			
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Least Tern	June 2 July 8	<b>4</b> 82	Incubation Flying Young	Nest Count-Groung Nest Count-Ground

500017 King Isla	nd (06-21	), North Carolin	a	
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	35 <sup>0</sup> 16.2' Marsh Sand or	N; 75 <sup>0</sup> 36.1'W Shell		
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Common Tern	June 2	24	Egg Laying	Nest Count-Ground

500018 Royal Tern Island (06-10), North Carolina

LOCATION:	35 <sup>0</sup> 12.5'N; 75 <sup>0</sup> 42.6'W
SITE DESCRIPTION:	Island-Coastal
NEST SUBSTRATE:	Dredged Material

SPECIES	DATE	BREEDING BIRDS	NESTINC STAGE	INVENTORY METHOD
Laughing Gull Forster's Tern Royal Tern	June 2 June 2 May 13 June 2	898 130 1794 1700	Incubation Incubation Incubation Incubation	Nest Count-Ground Nest Count-Ground Aerial Photo Count Nest Count-Ground

500019 Hatteras Inlet (06-11), North Carolina

LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	Island-C	N; 75 <sup>0</sup> 43.0'W Coastal Material		
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Gull-Billed Tern	June 2 July 8	16 2	Egg Laying Egg Laying	Nest Count-Ground Nest Count-Ground
Common Tern	June 2 July 8	32 14	Egg Laying Egg Laying	Nest Count-Ground Nest Count-Ground
Least Tern Black Skimmer	July 8 June 2	2 52	Egg Laying Egg Laying Egg Laying	Nest Count-Ground Nest Count-Ground

# 500020 Hatteras Inlet (09-04), North Carolina

LOCATION:	35 <sup>0</sup> 11.9'N; 75 <sup>0</sup> 45.5'W
SITE DESCRIPTION:	Island-Coastal
NEST SUBSTRATE:	Dredged Material

SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Laughing Gull	June 8	16	Incubation	Nest Count-Ground
Gull-Billed Tern	June 8	2	Incubation	Nest Count-Ground
Forster's Tern	June 8	98	Egg Laying	Nest Count-Ground
Common Tern	June 8	552	Egg Laying	Nest Count-Ground
Black Skimmer	June 8	190	Egg Laying	Nest Count-Ground

## 500021 Hatteras Inlet (09-03), North Carolina

LOCATION:	35 <sup>0</sup> 12.1'N; 75 <sup>0</sup> 45.6'W
SITE DESCRIPTION:	Island-Coastal
NEST SUBSTRATE:	Dredged Material

SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Laughing Gull Gull-Billed Tern	June 2 June 2 July 8	4 90 8	Incubation Egg Laying Incubation	Nest Count-Ground Nest Count-Ground Nest Count-Ground
Forster's Tern Common Tern	June 2 June 2 June 2 July 8	78 986 8	Egg Laying Egg Laying Incubation	Nest Count-Ground Nest Count-Ground Nest Count-Ground
Least Tern	June 2 July 8	562 88	Egg Laying Egg Laying	Nest Count-Ground Nest Count-Ground
Black Skimmer	June 2 July 8	310 52	Egg Laying Incubation	Nest Count-Ground Nest Count-Ground

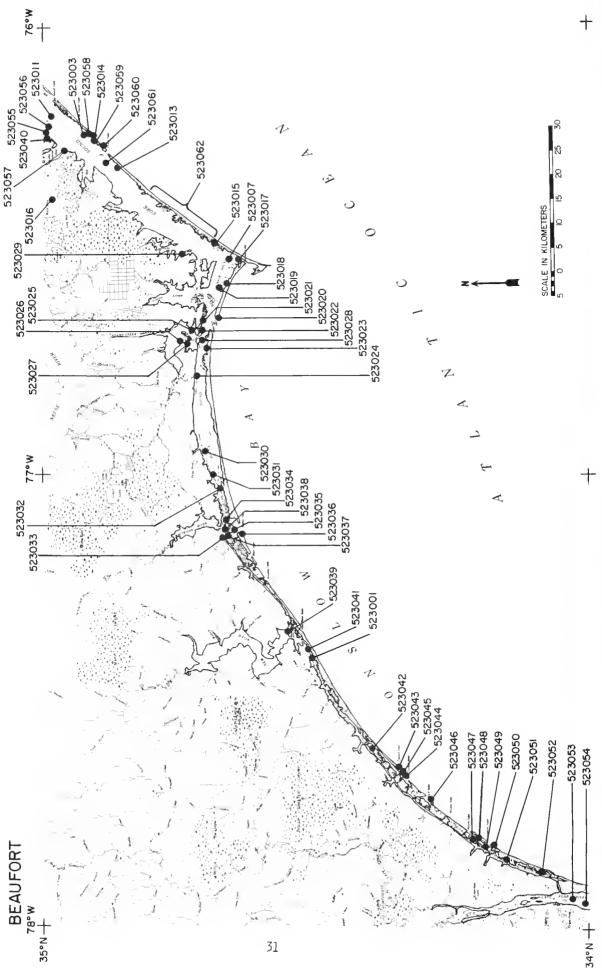
500022 Ocracoke	(09-02),	North Carolina		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	35 <sup>0</sup> 11.1' Barrier Sand or			
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Least Tern	June 2	4	Pairing	Nest Count-Ground

# 500 MANTEO, NC (Continued)

500023	Whalebone	(03-08),	North Carolina			
LOCATION: SITE DESC NEST SUBS	RIPTION:	35 <sup>0</sup> 53.8'N; 75 <sup>0</sup> 37.2'W Marsh Sand or Shell				
SPECIES		DATE	BREEDING BIPDS	NESTING STAGE	INVENTORY METHOD	
Least Ter	n	June 10	22	Incubation	Nest Count-Ground	

500024 Unnamed	(10-03), N	orth Carolina		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	35 <sup>0</sup> 10.4' Marsh Driftage	N; 75 <sup>0</sup> 48.8'W		
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Forster's Tern	June 1	262	Egg Laying	Nest Count-Ground

500025	Unnamed	(03-01), N	lorth Carolina		
LOCATION: SITE DESCR NEST SUBST		Island-C	N; 75 <sup>0</sup> 36.5'W oastal Material		
SPECIES		DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Common Ter Least Terr		June 9 June 9	22 22	Egg Laying Incubation	Nest Count-Ground Nest Count-Ground



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<u>523001</u> Alligato	or Bay (27-	-04), North Carol	ina	
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	Island-(	'N; 77 <sup>0</sup> 24.7'W Coastal Material		
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Least Tern	May 13	10	Egg Laying	Nest Count-Ground

523003 Dump Island (16-01), North Carolina

		NECTING
NEST SUBSTRATE:	Dredged Material	
SITE DESCRIPTION:	Island-Coastal	
LOCATION:	34 <sup>0</sup> 53.6'N; 76 <sup>0</sup> 17.2'W	

SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Herring Gull Laughing Gull Royal Tern	May 26 May 26 May 13 May 26	6 8478 6888 5450	Incubation Incubation Incubation Incubation	Nest Count-Ground Sample Census Aerial Photo Count Nest Count-Ground
Sandwich Tern	May 26	1152	Incubation	Nest Count-Ground

523007 Morgan Island (17-01), North Carolina

LOCATION:	34 <sup>0</sup> 39.6'N; 76 <sup>0</sup> 31.6'W				
SITE DESCRIPTION:	Island-Coastal				
NEST SUBSTRATE:	Dredged Material				
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD	
Laughing Gull	May 19	2772	Incubation	Sample Census	
Least Tern	May 19	4	Incubation	Nest Count-Ground	
Royal Tern	May 13	5628	Incubation	Aerial Photo-Ground	
Sandwich Tern	May 19	76	Incubation	Nest Count-Ground	
Black Skimmer	May 19	6	Incubation	Nest Count-Ground	

523011 Shell Island (14-01), North Carolina

LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	34 <sup>0</sup> 59.0'N; 76 <sup>0</sup> 11.9'W Island-Coastal Dredged Material			
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Laughing Gull Royal Tern Sandwich Tern	May 27 May 15 May 27 May 27	1248 2704 1986 44	Incubation Incubation Hatching Downy Young	Nest Count-Ground Aerial Photo Count Nest Count-Ground Nest Count-Ground

Woodhouse Island (14-10), North Carolina 523013 34<sup>0</sup>50.9'N: 76<sup>0</sup>15.6'W I OCATION.

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SITE DESCRIPTION:	Island-Coastal
NEST SUBSTRATE:	Dredged Material

SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Common Tern	May 26 August 7	286 7 16	Incubation Egg Laying	Nest Count-Ground Nest Count-Ground
Black Skimmer	May 26	28	Incubation	Nest Count-Ground

523014 Core Bank	s (14-11)	, North Carolina		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	34 <sup>0</sup> 55.3' Barrier Sand and			
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Least Tern	June 22	9	Incubation	Ground Estimate

523015	Big Deep (14-09), North Carolina				
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	34 <sup>0</sup> 41.3'N; 76 <sup>0</sup> 29.6'W Narsh Driftage				
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD	
Forster's Tern	May 25	18	Egg Laying	Nest Count-Ground	

<u>523016</u> Tump Isla	and (06-20	), North Carolin	a	
LOCATION:	34 <sup>0</sup> 59.0'N; 76 <sup>0</sup> 23.1'W			
SITE DESCRIPTION:	Marsh			
NEST SUBSTRAGE:	Sand or Shell, Driftage			
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Laughing Gull	May 26	16	Incubation	Nest Count-Ground
Forster's Tern	May 26	138	Incubation	Nest Count-Ground
Black Skimmer	May 26	4	Egg Laying	Nest Count-Ground

<u>523017</u> Unnamed (	17-03), N	orth Carolina		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	Island-C	N; 76 <sup>0</sup> 31.2'W oastal Material		
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Gull-Billed Tern Common Tern Black Skimmer	May 19 May 19 May 19	14 584 96	Egg Laying Egg Laying Egg Laying	Nest Count-Ground Nest Count-Ground Nest Count-Ground

<u>523018</u> Unnamed (	18-12), N	lorth Carolina		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	34 <sup>0</sup> 40.0' Island-C Sand or			
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Common Tern	May 20	66	Egg Laying	Nest Count-Ground

<u>523019</u> Bottle Ru	un (18-08)	, North Carolina		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	34 <sup>0</sup> 40.8' Island-C Sand or			
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Gull-Billed Tern	May 20 July 15	18 4	Egg Laying Feathered	Nest Count-Ground
Common Tern Black Skimmer	May 20 July 15 May 20	122 21 12	Young Incubation Flying Young Egg Laying	Nest Count-Ground Nest Count-Ground Nest Count-Ground Nest Count-Ground

523020 Shackleford (20-05), North Carolina				
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	34 <sup>0</sup> 41.0 Barrier Sand or			
SPECIES	DATE	BREEDINC BIRDS	NESTING STAGE	INVENTORY METHOD
Common Tern	May 25	82	Pairing	Nest Count-Cround

523021	Unnamed	(18-13), N	lorth Carolina		
LOCATION: SITE DESC NEST SUBS		Island-C	N; 76 <sup>0</sup> 39.8'W Coastal Material		
SPECIES		DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Least Teri	า	May 21	2	Pairing	Nest Count-Ground

523022 Unnamed	(20-03), N	orth Carolina		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	34 <sup>0</sup> 42.6' Island-C Dredged			
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Gull-Billed Tern	May 21 July 1	18 32	Egg Laying Egg Laying	Nest Count-Ground Nest Count-Ground
Common Tern	May 21 July 1	32 222	Egg Laying Egg Laying	Nest Count-Ground Nest Count-Ground
Least Tern	May 21 July 1	120	Incubation Flying Young	Nest Count-Ground Nest Count-Ground
Black Skimmer	May 21 July 1	62 18	Egg Laying Flying Young	Nest Count-Ground Nest Count-Ground

<u>523023</u> Unnamed (	22-02), N	lorth Carolina		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	34 <sup>0</sup> 42.1' Narsh Sand and	N; 76 <sup>0</sup> 43.5'W   Shell		
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Common Tern Least Tern Black Skimmer	May 25 Nay 25 May 25	4 70 4	Incubation Incubation Incubation	Nest Count-Ground Nest Count-Ground Nest Count-Ground

523024 Unnamed (	(22-04), N	lorth Carolina		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	Island-C	N; 76 <sup>0</sup> 47.1'W Coastal Material		
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Gull-Billed Tern Common Tern Least Tern	May 25 May 25 May 25	2 2 64	Egg Laying Egg Laying Egg Laying	Nest Count-Ground Nest Count-Ground Nest Count-Ground

523025 Unnamed	(20-02), N	lorth Carolina		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	Island-C	N; 76 <sup>0</sup> 41.1'W Coastal Material		
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
G <b>ull-</b> Billed Tern Common Tern	May 20 May 20	28 6	Incubation Incubation	Nest Count-Ground Nest Count-Ground

523026 Annex Isl	and (21-0	)3), North Caroli	na	
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	Island-C	N; 76 <sup>0</sup> 41.5'W Coastal Material		
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Gull-Billed Tern Common Tern	May 20 May 20	2 2	Incubation Incubation	Nest Count-Ground Nest Count-Ground

523027 Unnamed	(21-01), N	orth Carolina		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	Island-C	N; 76 <sup>0</sup> 41.9'W coastal Material		
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Least Tern	May 20 July 1	140 12	Incubation Egg Laying	Nest Count-Ground Nest Count-Ground

<u>523028</u> Brant Isl	and (20-0	16), North Caroli	na	
LOCATION:	34 <sup>0</sup> 42.4'N; 76 <sup>0</sup> 41.8'V			
SITE DESCRIPTION:	Island-Coastal			
NEST SUBSTRATE:	Dredged Material			
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Gull-Billed Tern	May 21	36	Incubation	Nest Count-Ground
	July 1	44	Egg Laying	Nest Count-Ground
Common Tern	May 21	40	Egg Laying	Nest Count-Ground
	July 1	230	Egg Laying	Nest Count-Ground
Least Tern Black Skimmer	July 1 May 21 July 1	2 24 36	Flying Young Incubation Egg Laying	Nest Count-Ground Nest Count-Ground Nest Count-Ground

523029 Lake Ellis Simon, North Carolina

LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	34 <sup>0</sup> 51.0'N; 77 <sup>0</sup> 00.0'W Swamp Trees				
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD	
Double-Cr. Cormorant	June 7	26	Feathered Young	Aerial Estimate- Fixed Wing	

<u>523030</u> Unnamed (	22-08), N	lorth Carolina		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	Island-C	N; 76 <sup>0</sup> 56.7'W Coastal Material		
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Gull-Billed Tern Common Tern Least Tern Black Skimmer	May 25 May 25 May 25 May 25 May 25	8 182 2 8	Incubation Incubation Incubation Egg Laying	Nest Count-Ground Nest Count-Ground Nest Count-Ground Nest Count-Ground

<u>523031</u> U	Innamed	(22-26), N	lorth Carolina		
LOCATION: SITE DESCRI NEST SUBSTR		Island-C	N; 77 <sup>0</sup> 00.3'W Coastal Material		
SPECIES		DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Least Tern		May 25	52	Incubation	Nest Count-Ground

<u>523032</u> Unnamed (	22-40), N	orth Carolina		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	34 <sup>0</sup> 40.7' Island-C Dredged			
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Gull-Billed Tern Common Tern Least Tern Black Skimmer	June 24 June 24 May 25 June 24 June 24	4 6 192 22 4	Incubation Incubation Egg Laying Incubation Incubation	Nest Count-Ground Nest Count-Ground Nest Count-Ground Nest Count-Ground Nest Count-Ground

523033 Unnamed	(23-10), N	North Carolina		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	Island-(	'N; 77 <sup>0</sup> 07.7'W Coastal Material		
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Gull-Billed Tern Common Tern Least Tern Black Skimmer	June 24 June 24 June 24 June 24	4 6 110 6	Egg Laying Egg Laying Incubation Egg Laying	Nest Count-Ground Nest Count-Ground Nest Count-Ground Nest Count-Ground

523034 Unnamed	(23 <b>-</b> 11), N	lorth Carolina		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	Island-C	N; 77 <sup>0</sup> 07.8'W Coastal Material		
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Least Tern	June 24	12	Egg Laying	Nest Count-Ground

<u>523035</u> Unnamed (	22-45), N	orth Carolina		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	34 <sup>0</sup> 40.2' Island-C Dredged			
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Least Tern	May 25	14	Incubation	Nest Count-Ground

523036 Bogue Inlet (23-04), North Carolina				
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	34 <sup>0</sup> 39.1' Marsh Sand or	N; 77 <sup>0</sup> 07.3'W Shell		
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Least Tern	June 30	2	Flying Young	Nest Count-Ground

523037 Hammocks	Beach (23	8-02), North Caro	lina	
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	34 <sup>0</sup> 38.4' Barrier Sand or			
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Least Tern	June 30	2	Flying Young	Nest Count-Ground

523038 Unnamed	(23 <b>-</b> 14), N	lorth Carolina		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	Island-C	'N; 77 <sup>0</sup> C5.8'W Coastal Material		
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Common Tern Black Skimmer	June 24 June 24	28 10	Incubation Incubation	Nest Count-Ground Nest Count-Ground

523039 Unnamed	(26-07), N	orth Carolina		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	34 <sup>0</sup> 33.4′ Island-C Dredged			
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Common Tern	June 25	14	Egg Laying	Nest Count-Ground
	July 13	12	Egg Laying	Nest Count-Ground
Least Tern	June 25	32	Egg Laying	Nest Count-Ground
	July 13	20	Egg Laying	Nest Count-Ground
Black Skimmer	June 25	6	Egg Laying	Nest Count-Ground
	July 13	10	Incubation	Nest Count-Ground

523040 Tiny Triangle (15-14), North Carolina					
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	34 <sup>0</sup> 59.6'N; 76 <sup>0</sup> 14.7'W Island-Coastal Driftage				
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD	
Forster's Tern	May 27	46	Incubation	Nest Count-Ground	

523041	Alligator	Bay	Main	(50-01),	North	Carolina

LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	Marsh	'N; 77 <sup>0</sup> 23.1'W Material		
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Least Tern	May 13	2	Egg Laying	Nest Count-Ground

523042 Unnamed	(29-25), N	lorth Carolina		
LOCATION: 34 <sup>0</sup> 23.9'N; 77 <sup>0</sup> 36.7'W SITE DESCRIPTION: Island-Coastal NEST SUBSTRATE: Dredged Material				
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Least Tern	May 13	10	Pairing	Nest Count-Ground

<u>523043</u> Topsail S	outh (30-	01), North Carol	ina		
LOCATION: 34 <sup>0</sup> 21.0'N; 77 <sup>0</sup> 39.1'W SITE DESCRIPTION: Barrier Beach NEST SUBSTRATE: Sand or Shell					
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD	
Least Tern	June 25	2	Egg Laying	Nest Count-Ground	

523044 North Old-Topsail (31-01), North Carolina

LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	34 <sup>0</sup> 20.1' Barrier Sand or			
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Gull-Billed Tern Common Tern Black Skimmer	June 15 June 15 June 15	6 74 54	Egg Laying Incubation Incubation	Nest Count-Ground Nest Count-Ground Nest Count-Ground

523045 Unnamed	(29-36), N	lorth Carolina		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	Island-C	N; 77 <sup>0</sup> 39.8'W Coastal Material		
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Gull-Billed Tern Common Tern Least Tern Black Skimmer	June 15 June 15 June 15 June 15	26 386 132 43	Incubation Incubation Egg Laying Incubation	Nest Count-Ground Nest Count-Grund Nest Count-Ground Nest Count-Ground

523046 Rich Inlet South (32-02), North Carolina					
LOCATION: 34 <sup>0</sup> 17.4'N; 77 <sup>0</sup> 43.1'W SITE DESCRIPTION: Barrier Beach NEST SUBSTRATE: Sand or Shell					
SPECIES	DATE BREEDING	BIRDS NESTING STAGE	INVENTORY METHOD		
Least Tern	June 15 2	Unknown	Nest Count-Ground		

<u>523047</u> Unnamed (	36-21), N	orth Carolina		
LOCATION: 34 <sup>0</sup> 12.6'N; 77 <sup>0</sup> 48.4'W SITE DESCRIPTION: Island-Coastal NEST SUBSTRATE: Dredged Material				
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Common Tern	June 7	4	Feathered Young	Nest Count-Ground

<u>523048</u> Bird I. (	36-22), N	lorth Carolina		
LOCATION: 34 <sup>0</sup> 12.3'N; 77 <sup>0</sup> 48.3'W SITE DESCRIPTION: Island-Coastal NEST SUBSTRATE: Dredged Material				
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Gull-Billed Tern Common Tern Black Skimmer	June 7 June 7 June 7	40 76 30	Egg Laying Egg Laying Egg Laying	Nest Count-Ground Nest Count-Ground Nest Count-Ground

523049 Shinn Creek (36-03), North Carolina					
LOCATION: 34 <sup>0</sup> 11.5'N; 77 <sup>0</sup> 49.5'W SITE DESCRIPTION: Island-Coastal NEST SUBSTRATE: Dredged Material					
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD	
Least Tern	June 25 July 20	6 2	Egg Laying Flying Young	Nest Count-Ground Nest Count-Ground	

523050 Masonboro Island (35-02), North Carolina

LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	34 <sup>0</sup> 10.8' Barrier Sand and			
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Gull-Billed Tern Common Tern Least Tern Black Skimmer	June 7 July 20 June 7 June 7 July 20	10 4 26 12 40	Egg Laying Incubation Egg Laying Egg Laying Incubation	Nest Count-Ground Nest Count-Ground Nest Count-Ground Nest Count-Ground Nest Count-Ground

523051 Unnamed	(36-14), N	lorth Carolina		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	Island-C	'N; 77 <sup>0</sup> 51.2'W Coastal Material		
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Least Tern	July 6	30	Egg Laying	Nest Count-Ground

<u>523052</u> Unnamed (	37-18), N	orth Carolina		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	34 <sup>0</sup> 04.5' Island-C Dredged			
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Black Skimmer	June 25	2	Egg Laying	Nest Count-Ground

<u>523053</u> Unnamed (	39-26), N	lorth Carolina		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	Island-C	N; 77 <sup>0</sup> 56.1'W coastal Material		
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Gull-Billed Tern Common Tern Black Skimmer	June 16 June 16 June 16	130 2 2	Egg Laying Egg Laying Egg Laying	Nest Count-Ground Nest Count-Ground Nest Count-Ground

Laughing Gull (39-28), North Carolina 523054 34<sup>0</sup>00.4'N; 77<sup>0</sup>56.9'W LOCATION: Island-Coastal SITE DESCRIPTION: NEST SUBSTRATE: Dredged Material BREEDING BIRDS NESTING STAGE INVENTORY METHOD SPECIES DATE Laughing Gull June 16 1322 Incubation Nest Count-Ground Common Tern May 11 82 Pairing Nest Count-Ground

523055	Chainshot	(15-11),	North Carolina		
LOCATION: SITE DESC NEST SUBS	RIPTION:	34 <sup>0</sup> 59.3'  Island-Co Driftage			
SPECIES		DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Laughing	Gull	May 27	962	Incubation	Nest Count-Ground

<u>523056</u> Harbor (1	4-03), No	rth Carolina		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	34 <sup>0</sup> 59.3' Island-C Sand or			
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Laughing Gull	May 27	214	Incubation	Nest Count-Ground

523057Cedar Point (50-02), North CarolinaLOCATION:34°59.5'N; 76°18.4'WSITE DESCRIPTION:MarshNEST SUBSTRATE:Dredged MaterialSPECIESDATELeast TernMay 2710IncubationNest Count-Ground

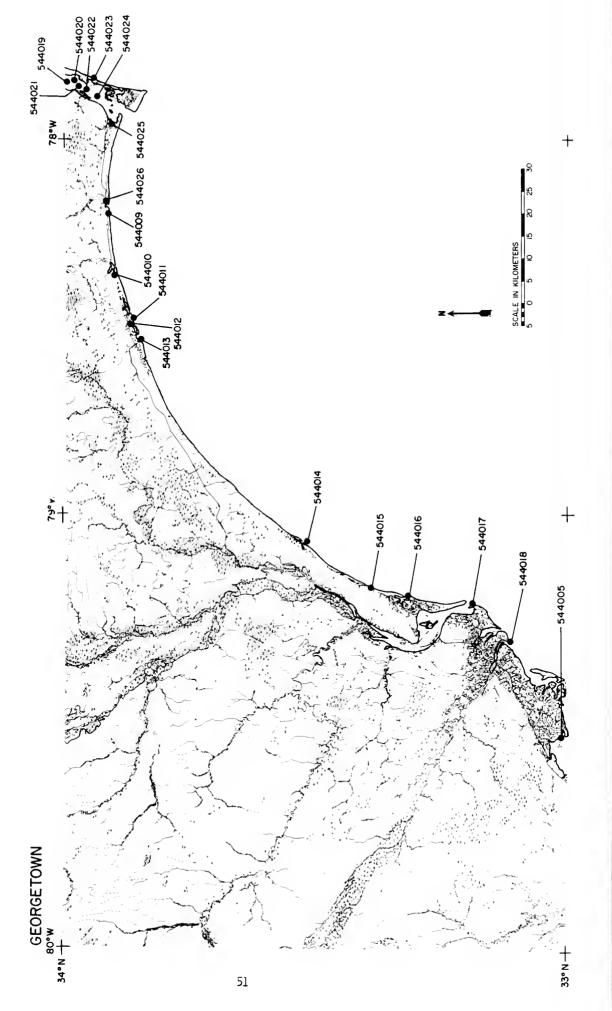
523058 Dump Sout	h (16-02)	, North Carolina		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	34 <sup>0</sup> 53.3' Island-C Driftage			
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Laughing Gull Forster's Tern	May 26 May 26	52 36	Incubation Incubation	Nest Count-Ground Nest Count-Ground

523059 Unnamed	(16-04), N	lorth Carolina		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:				
SFECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Forster's Tern	May 26	20	Incubation	Nest Count-Ground

523060Core Banks (14-05), North CarolinaLOCATION:34°51.4'N; 76°18.5'WSITE DESCRIPTION:Barrier BeachNEST SUBSTRATE:Sand or ShellSPECIESDATELeast TernMay 266IncubationNest Count-Ground

523061 New Dump	(14-04),	North Carolina		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	34 <sup>0</sup> 51.8' Island-C Dredged			
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Gull-Billed Tern	May 26 July 9	58 42	Incubation Egg Laying	Nest Count-Ground Nest Count-Ground
Common Tern	May 26 July 9	170 496	Incubation Egg Laying	Nest Count-Ground Nest Count-Ground
Least Tern Black Skimmer	May 26 May 26 July 9	6 148 360	Egg Laying Incubation Egg Laying	Nest Count-Ground Nest Count-Ground Nest Count-Ground

523062 Core Bank	s (14-08)	, North Carolina		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	34 <sup>0</sup> 42.9' Barrier Dredged			
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Least Tern	June 23	118	Pairing	Ground Estimate



544 ... GEORGETOWN

### 544 GEORGETOWN, SC

544005 White Banks, South Carolina				
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	Marsh	N; 79 <sup>0</sup> 30.4'W us Vegetation		
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Laughing Gull	June 1	2940	Incubation	Nest Count-Ground
	July 14	900	Feathered Young	Ground Estimate
Gull-Billed Tern	June 1	18	Pairing	Nest Count-Ground
	July 14	10	Pairing	Ground Estimate
Black Skimmer	June 1	150	Pairing	Nest Count-Ground
	July 14	16	Incubation	Ground Estimate

544009 Unnamed (	(50-04), N	orth Carolina		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	33 <sup>0</sup> 55.1' Marsh Dredged	N; 78 <sup>0</sup> 14.6'W Material		
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Least Tern	May 17	2	Egg Laying	Nest Count-Ground

544010 Unnamed	(45-03), N	lorth Carolina		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	33 <sup>0</sup> 53.9' Island-C Sand or			
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Least Tern	May 12	6	Prenesting	Adult Count-Ground

544011 Sunset Beach (48-06), North Carolina

LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	33 <sup>0</sup> 52.1'N; 78 <sup>0</sup> 30.3'W Barrier Beach Sand or Shell			
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Least Tern	May 12	246	Egg Laying	Nest Count-Ground

544012 Unnamed	(48-07), N	North Carolina		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	Marsh	'N; 78 <sup>0</sup> 29.1'W Material		
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Least Tern	May 12	10	Egg Laying	Nest Count-Ground

544013 Waiter Island, South Carolina					
LOCATION: 33 <sup>0</sup> 51.2'N; 78 <sup>0</sup> 33.2'W SITE DESCRIPTION: Barrier Beach NEST SUBSTRATE: Dredged Material					
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD	
Least Tern	July 1	18	Incubation	Nest Count-Ground	

<u>544014</u> Magnolia	Beach, So	uth Carolina		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	33 <sup>0</sup> 32.0' Barrier Sand or			
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Gull-Billed Tern Least Tern	May 30 May 16 May 30	2 22 8	Incubation Egg Laying Incubation	Nest Count-Ground Nest Count-Ground Nest Count-Ground

544015 DuBourdie	u Beach,	South Carolina			
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:					
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD	
Least Tern	May 17 May 30	38 3	Incubation Prenesting	Nest Count-Ground Adult Count-Ground	

<u>544016</u> North Isl	and, Sout	h Carolina		
LOCATION: 33 <sup>0</sup> 19.5'N; 79 <sup>0</sup> 10.0'W SITE DESCRIPTION: Barrier Beach NEST SUBSTRATE: Sand and Shell				
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Least Tern Black Skimmer	June 10 June 10	6 45	Renesting Pairing	Adult Count-Ground Adult Count-Ground

544017 Sand Bank, South Carolina				
LOCATION: 33 <sup>0</sup> 11.4'N; 79 <sup>0</sup> 10.3'W SITE DESCRIPTION: Barrier Beach NEST SUBSTRATE: Sand or Shell				
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Least Tern Black Skimmer	June 28 June 28	12 94	Renesting Egg Laying	Nest Count-Ground Nest Count-Ground
<u>544018</u> Cedar Isl	and, Sout	h Carolina		

LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	33 <sup>0</sup> 06.5' Barrier Sand or			
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Least Tern	June 28	3	Renesting	Nest Count-Ground

544019 Unnamed	(39-29), N	lorth Carolina		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	33 <sup>0</sup> 59.9' Island-C Dredged			
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Laughing Gull Gull-Billed Tern	June 16 May 12	8 60	Incubation Prenesting	Nest Count-Ground Nest Count-Ground

544020 Unnamed	(39-30), N	lorth Carolina		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	Island-C	N; 77 <sup>0</sup> 56.3'W Coastal Material		
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Laughing Gull	May 12 June 16	2 22	Prenesting Incubation	Nest Count-Ground Nest Count-Ground

544021 Royal Ter	n Island	(39-32), North C	arolina	
LOCATION: 33 <sup>0</sup> 58.4'N; 77 <sup>0</sup> 56.6'W SITE DESCRIPTION: Island-Coastal NEST SUBSTRATE: Dredged Material				
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Laughing Gull Royal Tern	June 16 May 11 May 13	6 8800 8060	Incubation Incubation Incubation	Nest Count-Ground Sample Census Aerial Photo Count
Sandwich Tern	June 16	4	Unknown	Nest Count-Ground

<u>544022</u> Unnamed (	39-33), N	orth Carolina		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	33 <sup>0</sup> 57.9' Island-C Dredged			
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Gull-Billed Tern	May 11 June 16	4 48	Egg Laying Egg Laying	Nest Count-Ground Nest Count-Ground
Common Tern Least Tern	June 16 May 11 June 16	4 6 58	Egg Laying Egg Laying Egg Laying Egg Laying	Nest Count-Ground Nest Count-Ground Nest Count-Ground

544023 Carolina Beach (39-49), North Carolina

LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	33 <sup>0</sup> 56.1' Barrier Sand and			
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Least Tern Black Skimmer	May 21 July 20	210 274	Incubation Incubation	Nest Count-Ground Nest Count-Ground

544024 Gull-Billed Tern (39-37), North Carolina

LOCATION:	33 <sup>0</sup> 56.1'N; 77 <sup>0</sup> 58.7'W			
SITE DESCRIPTION:	•Island-Coastal			
NEST SUBSTRATE:	Dredged Material			
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Gull-Billed Tern	May 11	40	Incubation	Nest Count-Ground
Common Tern	May 11	16	Incubation	Nest Count-Ground

544025 Unnamed	(40-01), N	lorth Carolina		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	Island-(	'N; 78 <sup>0</sup> 01.9'W Coastal Material		
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Least Tern	May б May 12	16 46	Egg Laying Egg Laying	Nest Count-Ground Nest Count-Ground

544026 Monks Island (43-09), North Carolina

LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	33 <sup>0</sup> 54.7'N; 78 <sup>0</sup> 22.7'W Island-Coastal Dredged Material			
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Common Tern Least Tern	June 29 May 12 June 29	6 86 108	Egg Laying Egg Laying Egg Laying	Nest Count-Ground Nest Count-Ground Nest Count-Ground
Black Skimmer	June 29	12	Egg Laying	Nest Count-Ground



563 ... SAVANNAH

563006 Deveaux B	ank, Sout	h Carolina		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	32 <sup>0</sup> 32.6' Marsh Sand or	N; 80 <sup>0</sup> 10.2'W Shell		
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Brown Pelican Laughing Gull	July 11 June 4 July 11	2944 2300 5000	Incubation Downy Young	Ground Estimate Nest Count-Ground Ground Estimate
Least Tern Royal Tern	June 4 June 4 July 11	10 12000 6400	Incubation Incubation Incubation	Nest Count-Ground Nest Count-Ground Ground Estimate
Sandwich Tern	June 4 July 11	300 20	Pairing Unknown	Nest Count-Ground Ground Estimate
Black Skimmer	June 4 July 11	300 375	Pairing Renesting	Nest Count-Ground Ground Estimate

<u>563012</u> John's Is	land Airp	ort, South Carol	ina	
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	Marsh	N; 80 <sup>0</sup> 00.5'W al-Airport		
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Least Tern	June 14	10	Egg Laying	Nest Count-Ground

563013	Kiawah	Island,	South	Carolina

LOCATION:	32 <sup>0</sup> 35.0'N; 80 <sup>0</sup> 08.4'W			
SITE DESCRIPTION:	Barrier Beach			
NEST SUBSTRATE:	Sand or Shell			
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Least Tern	June 4	86	Incubation	Nest Count-Ground
	June 24	118	Incubation	Nest Count-Ground
	June 30	15	Renesting	Nest Count-Ground

### 563 SAVANNAH, GA (Continued)

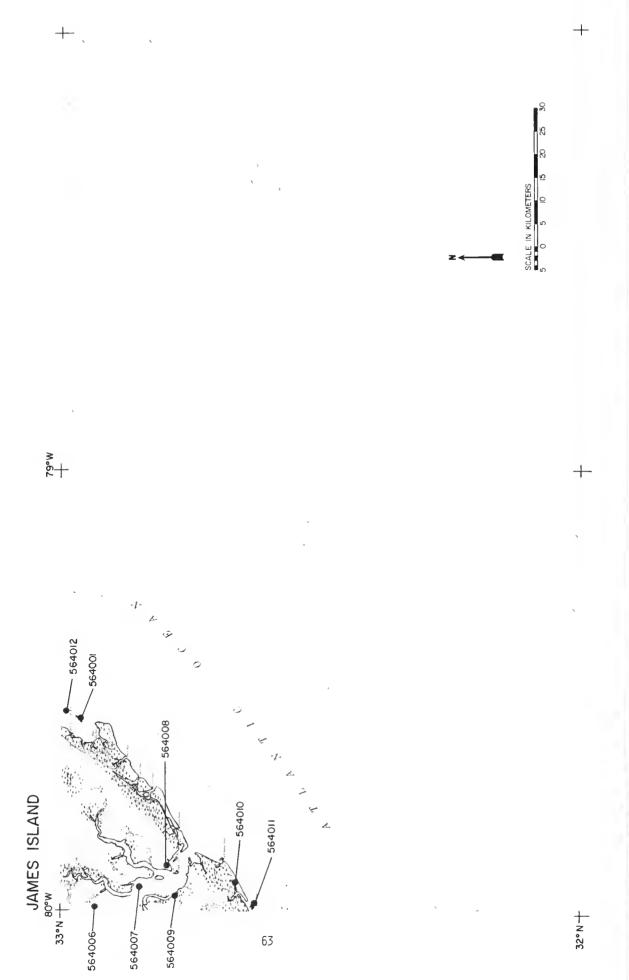
<u>563014</u> Botany Ba	y, South	Carolina		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	32 <sup>0</sup> 32.0' Barrier Sand or			
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Least Tern	July 5	60	Incubation	Ground Estimate

<u>563015</u> Edinesvil	le Beach,	South Carolina		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	32 <sup>0</sup> 31.6' Barrier `Sand or			
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Least Tern	July 5	6	Renesting	Adult Count-Ground

563016 Hunting I	sland, So	uth Carolina		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	32 <sup>0</sup> 23.5' Barrier Sand or			
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Least Tern	June 13 June 27	18 2	Incubation Egg Laying	Nest Count-Ground Nest Count-Ground

## 563 SAVANNAH, GA (Continued)

563017	Savannah	River Nat	ional Wildlife R	efug <mark>e,</mark> South Ca	rolina
LOCATION: SITE DESC NEST SUBS	RIPTION:				
SPECIES		DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Gull-Bill Least Ter Black Ski	n	July 16 July 16 July 16	12 178 4	Flying Young Downy Young Incubation	Ground Estimate Ground Estimate Ground Estimate



564 . . JAMES ISLAND

#### 564 JAMES ISLAND, SC

564001 Bird Island, South Carolina						
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	32 <sup>0</sup> 57.8'N; 79 <sup>0</sup> 33.8'W Island-Coastal Herbaceous Vegetation, Sand or Shell					
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD		
Laughing Gull	May 7 July 14	160 3000	Incubation Downy Young	Nest Count-Ground Ground Estimate		
Gull-Billed Tern	May 7 July 14	200 64	Incubation Downy Young	Nest Count-Ground Ground Estimate		
Least Tern	May 7	500	Incubation	Nest Count-Ground		
Royal Tern	May 7	10400	Incubation	Nest Count-Ground		
Black Skimmer	July 14 July 14	3400 468	Downy Young Downy Young	Ground Estimate Ground Estimate		
	J		<b>3</b>			

564006 Northwood	Mall, So	uth Carolina		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	Urban	N; EC <sup>O</sup> O2.6'W al roof top		
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Least Tern	June 9 June 14 June 21 June 25	56 12 26 4	Egg Laying Incubation Hatching Hatching	Adult Count-Ground Nest Count-Ground Nest Count-Ground Nest Count-Ground

564007 Charleston Naval Base, South Carolina						
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	32 <sup>0</sup> 51.3'N; 79 <sup>0</sup> 57.7'W Urban Artificial roof top					
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD		
Least Tern	July 12	48	Downy Young	Nest Count-Ground		

# 564 JAMES ISLAND, SC (Continued)

<u>564008</u> Hog Islan	d, South	Carolina		
LOCATION:	32 <sup>0</sup> 47.6'N; 79 <sup>0</sup> 54.2'W			
SITE DESCRIPTION:	Island-Coastal			
NEST SUBSTRATE:	Dredged Material			
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Least Tern	May 25	8	Egg Laying	Nest Count-Ground
	May 28	22	Egg Laying	Nest Count-Ground
	May 30	6	Renesting	Nest Count-Ground

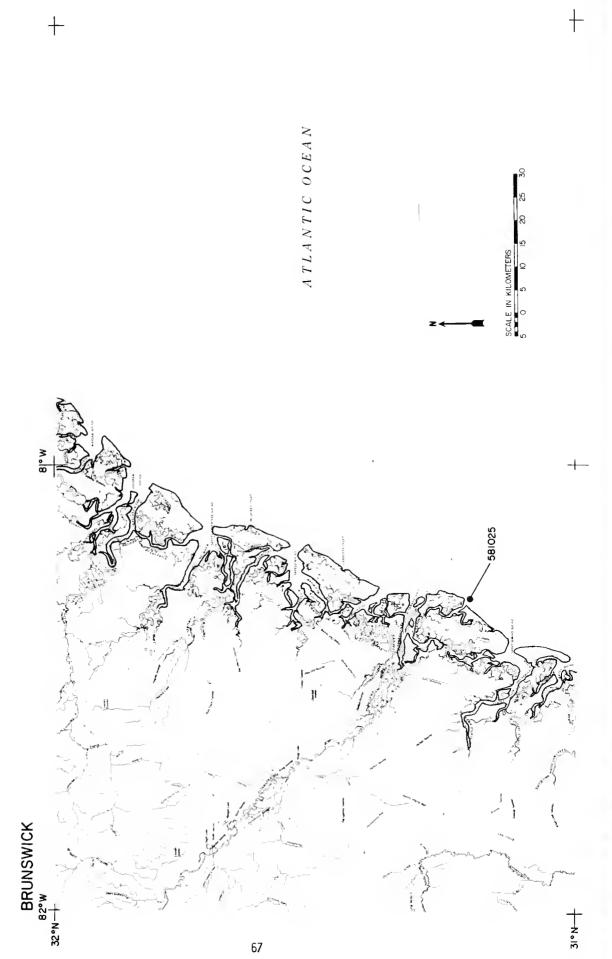
564009	Riverview	Inn, Sou	ith Carolina		
LOCATION: SITE DESC NEST SUBS	RIPTION:	Marsh	N; 79 <sup>0</sup> 58.2'W Material		
SPECIES		DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Least Teri	n	June 13	58	Egg Laying	Nest Count-Ground

564010 Folly Rive	er Road, South Carol	ina	
SITE DESCRIPTION:	32 <sup>0</sup> 39.6'N; 79 <sup>0</sup> 56.6'  Marsh Dredged Material	~'	
SPECIES	DATE BREEDING B	IRDS NESTING STAGE	INVENTORY METHOD
Least Tern	June 13 3	Prenesting	Adult Count-Ground

## 564 JAMES ISLAND, SC (Continued)

564011	Bird Key,	South Ca	rolina		
LOCATION: SITE DESCR NEST SUBST		32 <sup>0</sup> 37.7'N; 79 <sup>0</sup> 59.2'W Island-Coastal Sand or Shell			
SPECIES		DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Black Skin	nmer	May 27	300	Pairing	Aerial Estimate- Fixed Wing

<u>564012</u> White Isl	and, Sout	h Carolina		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	32 <sup>0</sup> 59.5'N; 79 <sup>0</sup> 32.8'W Island-Coastal Sand, Herbaceous Vegetation			
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Brown Pelican	May 7	3010	Incubation	Nest Count-Ground



BRUNSWICK 581.

#### 581 BRUNSWICK, GA

581025 Pelican Spit, Georgia

LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	31 <sup>0</sup> 12.5'N; 81 <sup>0</sup> 17.7'W Island-Coastal Sand or Shell			
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Black Skimmer	July 9	400	Incubation	Aerial Estimate- Fixed Wing

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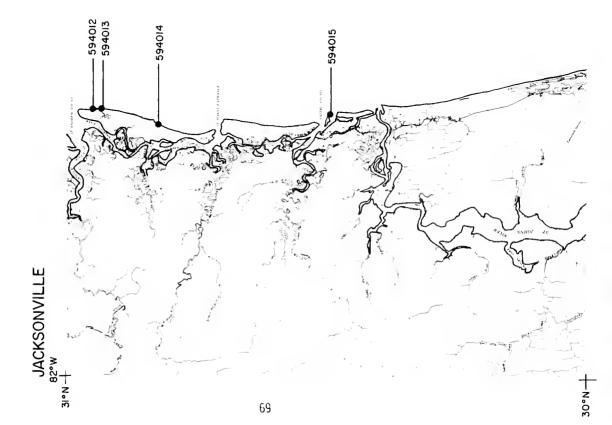
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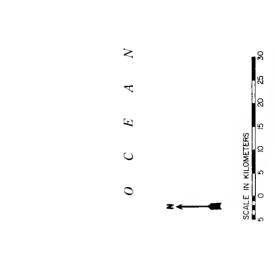
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#### 594 JACKSONVILLE, FL

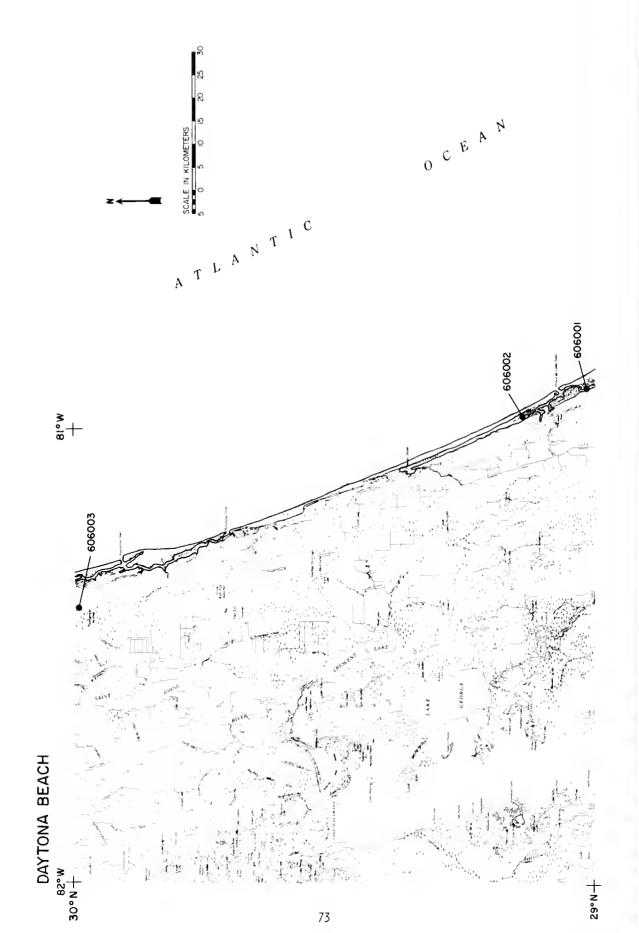
<u>594012</u> Little Cu	mberland	Island, Georgia		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	30 <sup>0</sup> 56.8' Barrier Sand or			
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Black Skimmer	July 9	60	Unknown	Aerial Estimate- Fixed Wing

594013 Long Poin	it, Georgi	a		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	30 <sup>0</sup> 56.3'N; 81 <sup>0</sup> 24.2'W Barrier Beach Sand or Shell			
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Least Tern	May 31	30	Pairing	Aerial Estimate- Fixed Wing
Black Skimmer	May 31	300	Pairing	Aerial Estimate- Fixed Wing

594014 Willow Po	nd Beach,	Georgia		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	30 <sup>0</sup> 49.4' Island-C Sand or			
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Least tern	May 4	30	Prenesting	Aerial Estimate- Fixed Wing

# 594 JACKSONVILLE, FL (Continued)

594015 Bird Islands, Georgia				
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	30 <sup>0</sup> 29.8' Island-0 Sand or			
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Gull-Billed Tern	June 8 July 25	182 105	Hatching Renesting	Nest Count-Ground Nest Count-Ground
Least Tern	June 8 July 25	36 166	Egg Laying Incubation	Nest Count-Ground Nest Count-Ground
Royal Tern	June 8 July 25	3060 4000	Incubation Downy Young	Nest Count-Ground Nest Count-Ground
Sandwich Tern	June 8 July 25	40 40 40	Incubation Downy Young	Nest Count-Ground Nest Count-Ground
Black Skimmer	July 25	1907	Incubation	Nest Count-Ground



606 ... DAYTONA BEACH

606001 New Smyrn	a Beach,	Florida		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	29 <sup>0</sup> 1.7'N Urban Trees (M	; 80 <sup>0</sup> 55.2'W angrove)		
SPECIES	DATE	BREEDING BIRDS	NESTING STACE	INVENTORY METHOD
Brown Pelican	May 14	70	Downy Young	Aerial Estimate- Fixed Wing
	June 8	70	Downy Young	Unknown
	June 17	30	Downy Young	Unknown
	July 22	20	Flying Young	Unknown

<u>606002</u> Po	rt Orange,	Florida
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LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	29 <sup>0</sup> 08.7'I Island-Co Trees (Ma			
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Brown Pelican	April 26	650	Flying Young	Unknown
	June 17	700	Flying Young	Unknown
	July 21	160	Flying Young	Unknown
Double-Cr.	June 8	400	Feathered Young	Unknown
Cormorant	July 21	60	Flying Young	Unknown

<u>606003</u> St. Marks	Pond Swamp, Florida		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	29 <sup>0</sup> 59.4'N; 81 <sup>0</sup> 23.7'W Swamp Shrub		
SPECIES	DATE BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Double-Cr. Cormorant	April 27 100	Downy Young	Aerial Estimate- Fixed Wing



612 . . . ORLANDO

#### 612 ORLANDO, FL

<u>612001</u> Bird Isla	nd, Florid	da		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	28 <sup>0</sup> 48.8'N Marsh Trees (Ma	N; 80 <sup>0</sup> 46.4'W angrove)		
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Brown Pelican	April 26	700	Feathered Young	Aerial Estimate- Fixed Wing
	May 24	674	Feathered Young	Unknown
	June 17	700	Feathered Young	Aerial Estimate- Fixed Wing
	July 7	70	Feathered Young	Nest Count-Ground
Double-Cr.	May 24	350	Downy Young	Unknown
Cormorant	June 17	500	Feathered Young	Aerial Estimate- Fixed Wing
	July 7	80	Feathered Young	Nest Count-Ğround

<u>612002</u> George an	d Brady Island	, Florida		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	28 <sup>0</sup> 17.8'N; 80 Island-Coasta Trees (Mangro	1		
SPECIES	DATE BREE	DING BIRDS	NESTING STAGE	INVENTORY METHOD
Brown Pelican	April 26	500	Downy Young	Aerial Estimate- Fixed Wing
	June 7	450	Downy Young	Unknown
	June 17	450	Downy Young	Aerial Estimate- Fixed Wing
	July 6	124	Renesting	Aerial Estimate- Fixed Wing
Double-Cr. Cormorant	April 26	600	Incubation	Aerial Estimate- Fixed Wing
	June 7	900	Hatching	Unknown
	June 17	250	Downy Young	Aerial Estimate- Fixed Wing
	July 6	130	Flying Young	Aerial Estimate- Fixed Wing

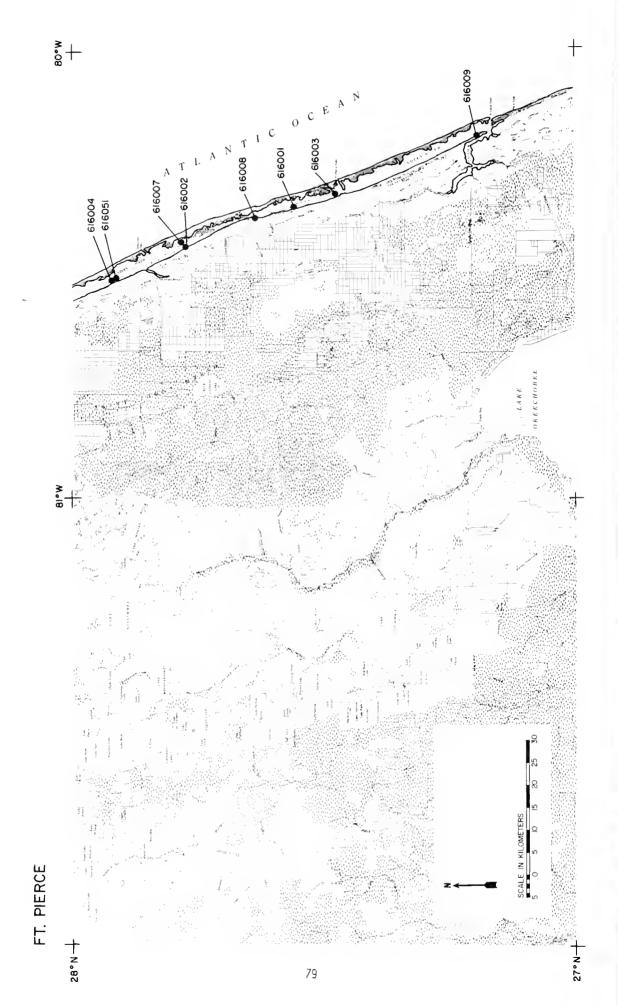
## 612 ORLANDO, FL (Continued)

612003 Hall Island, Florida					
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	28 <sup>0</sup> 22.4'N; 80 <sup>0</sup> 36.8'W Island-Coastal Trees (Mangrove)				
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD	
Brown Pelican	April 26	250	Unknown	Aerial Estimate- Fixed Wing	
	June 7 June 17	500 300	Flying Young Flying Young	Unknown Aerial Estimate- Fixed Wing	
Double-Cr. Cormorant	July 6 April 26	60 300	Flying Young Unknown	Nest Count-Ground Aerial Estimate- Fixed Wing	
	June 7 June 17	600 I 1450	Feathered Young Unknown	Unknown Aerial Estimate- Fixed Wing	
	July 6	60	Flying Young	Nest Count-Ground	

612004 Haulover	Canal, Fl	orida		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	28 <sup>0</sup> 43.6' Island-C Shrubs	N; 80 <sup>0</sup> 16.2'W Coastal		
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Double-Cr. Cormorant	June 17 July 6	60 52	Hatching Flying Young	Unknown Unknown

612007 Moore Creek, Florida					
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	Island-C	N; 80 <sup>0</sup> 42.5'W Coastal Langrove)			
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD	
Double-Cr.	May 11	126	Downy Young	Aerial Estimate- Fixed Wing	
Cormorant	July 6	860	Feathered Young	Nest Count-Ground	

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616 ... FT. PIERCE

<u>616001</u> County Li	ne Spoil,	Florida		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	Island-C	N; 80 <sup>0</sup> 21.0'W oastal angrove)		
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Double-Cr. Cormorant	May 29	10	Downy Young	Nest Count-Ground

616002	Duck Point Spoil, Florida

LOCATION: 27 <sup>0</sup> 46.4'N SITE DESCRIPTION: Island-Co NEST SUBSTRATE: Dredged N	
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SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Least Tern Double-Cr Cormorant	May 20 June 8	138 50	Incubation Downy Young	Nest Count-Ground Aerial Estimate- Fixed Wing
oor mor and	July 13	120	Downy Young	Nest Count-Ground

616003 Fort Pier	ce Spoil,	Florida		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	27 <sup>0</sup> 28.6' Island-C Trees (M			
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Brown Pelican	May 27 July 17	294 150	Feathered Young Flying Young	Nest Count-Ground Unknown
Double-Cr. Cormorant	May 27 July 17		Feathered Young Feathered Young	Nest Count-Ground Unknown

#### 616 FORT PIERCE, FL (Continued)

<u>616004</u> Grant Far	m Island	(SW), Florida		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	27 <sup>0</sup> 55.4' Island-C Trees (M			
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Double-Cr. Cormorant	May 20 July 13	50 50 I	Hatching Feathered Young	Nest Count-Ground Nest Count-Ground

#### 616007 Pelican Island, Florida

LOCATION:	27 <sup>0</sup> 47.8'N; 80 <sup>0</sup> 26.0'W
SITE DESCRIPTION:	Island-Coastal
NEST SUBSTRATE:	Trees (Mangrove)

Brown Pelican May 20 June 8 July 13 Double-Cr. May 20		Feathered Young Feathered Young	Nest Count-Ground Aerial Estimate-
		reachered roung	Fixed Wing
Cormorant June 8 July 13	250	Feathered Young Downy Young Feathered Young Flying Young	Nest Count-Ground Nest Count-Ground Aerial Estimate- Fixed Wing Nest Count-Ground

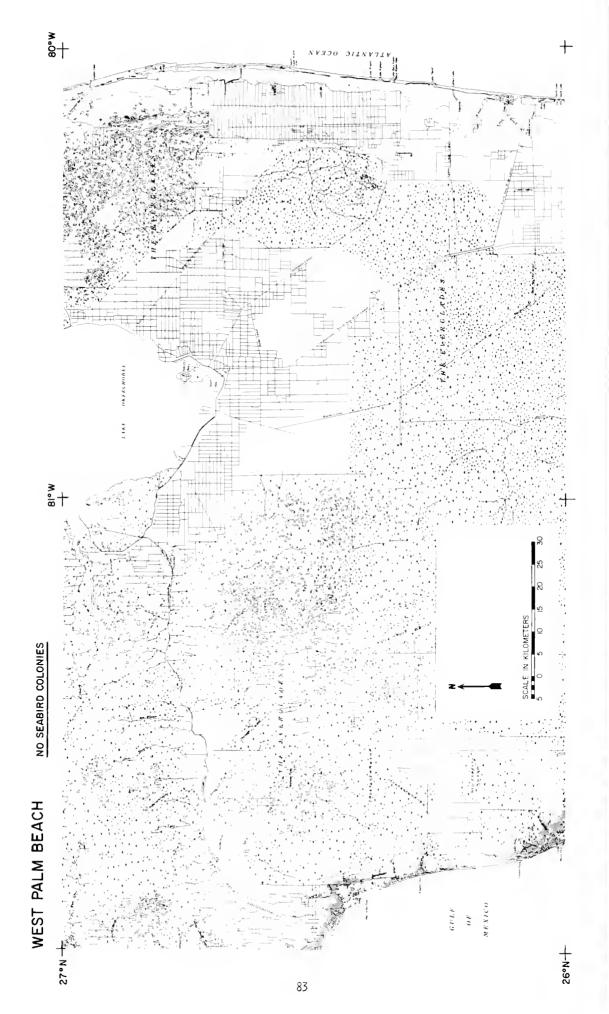
#### 616008 Riomar Spoil, Florida

LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	Island-(	N; 80 <sup>0</sup> 22.2'W coastal iangrove)
SPECIES	DATE	BREEDING BIRDS NESTING STAGE INVENTORY METHOD
Brown Pelican	May 14 June 8	626 Feathered Young Nest Count-Ground 400 Feathered Young Aerial Estimate- Fixed Wing
	July 2	120 Feathered Young Aerial Estimate- Fixed Wing
Double-Cr. Cormorant	May 14 July 2	50 Downy Young Nest Count-Ğround 50 Feathered Young Aerial Estimate- Fixed Wing

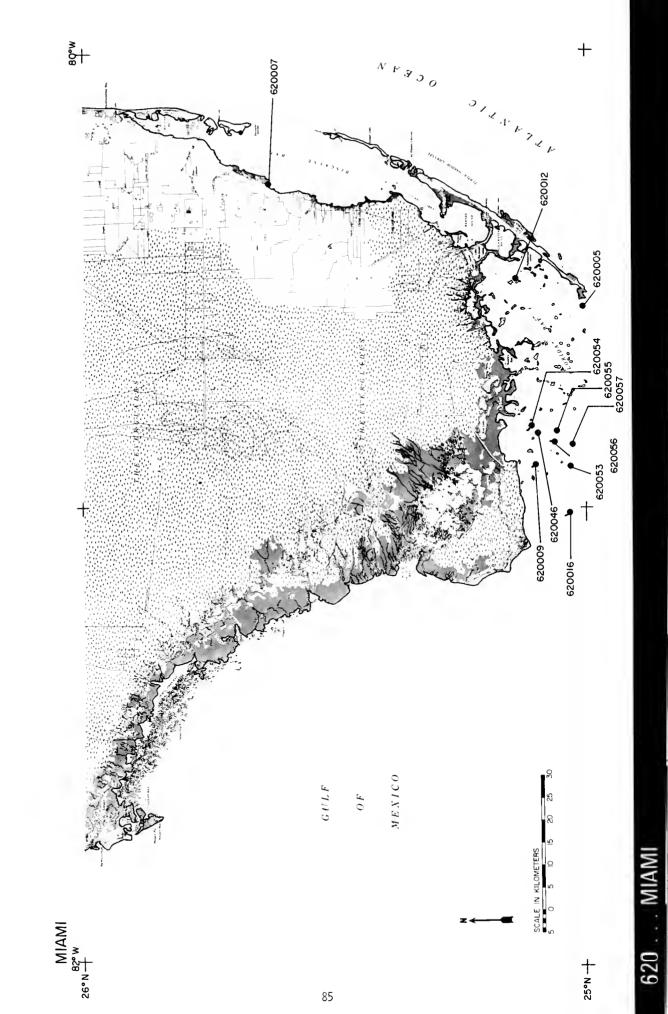
# 616 FORT PIERCE, FL (Continued)

<u>616009</u> Sewall Po	int East,	Florida	
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	27 <sup>0</sup> 11.4' Island-C Trees (M		
SPECIES	DATE	BREEDING BIRDS NESTING STAGE	INVENTORY METHOD
Brown Pelican	June 7 June 8	200Feathered Young300Feathered Young	Nest Count-Ground Aerial Estimate- Fixed Wing
Double-Cr. Cormorant	June 7 June 8	100 Downy Young 150 Downy Young	Nest Count-Ğround Aerial Estimate- Fixed Wing

<u>616051</u> Micco, F1	orida			
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	Island-C	N; 80 <sup>0</sup> 30.9'W Coastal Material		
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Least Tern Black Skimmer	May 20 May 20	56 2	Incubation Pairing	Nest Count-Ground Adult Count-Ground



619 ... WEST PALM BEACH



#### 620 MIAMI, FL

<u>620005</u> Cowpens k	Ceys, Florida			
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	25 <sup>0</sup> 0.2'N; 8 Island-Coas Trees (Mang	tal		
SPECIES	DATE BR	EEDING BIRD	S NESTING STAGE	INVENTORY METHOD
Brown Pelican	April 19	60	Feathered Young	Aerial Estimate- Fixed Wing
Double-Cr. Cormorant	April 19	40	Downy Young	Aerial Estimate- Fixed Wing
	May 16	200	Feathered Young	Unknown

<u>620007</u> Cut	ler (Paradise:	Pt.),	Florida
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SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Double-Cr. Cormorant	July 17	700	Flying Young	Aerial Estimate- Fixed Wing

620009	Frank	Key,	Florida
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LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	Island-C	l; 80 <sup>0</sup> 54.7'W Coastal langrove)		
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Brown Pelican Double-Cr. Cormorant	Jan. 27 Jan. 27 July 2	500 700 400	Egg Laying Egg Laying Downy Young	Nest Count-Ground Nest Count-Ground Nest Count-Ground

## 620 MIAMI, FL (Continued)

<u>620012</u> Nest Keys	South, F	lorida		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	25 <sup>0</sup> 08.8'N; 80 <sup>0</sup> 30.6'W Island-Coastal Sand or Shell			
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Double-Cr. Cormorant	April 20	50	Flying Young	Nest Count-Ground

<u>620016</u> Sandy Key	, Florida			
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	25 <sup>0</sup> 2.0'N Island-C Trees (M			
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Double-Cr. Cormorant	April 21 June 1 July 11	500 500 500	Feathered Young Flying Young Flying Young	Nest Count-Ground Nest Count-Ground Nest Count-Ground

<u>620046</u> Curlew Ke	y, Florid	la		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	25 <sup>0</sup> 05.9' Island-0 Sand or			
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Laughing Gull	May 3	50	Pairing	Aerial Estimate- Fixed Wing

# 620 MIAMI, FL (Continued)

<u>620053</u> Man of Wa	r Key, Fl	orida		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	25 <sup>0</sup> 01.9' Island-C Sand or			
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Laughing Gull	July 13	120	Loafing	Nest Count-Ground

<u>620054</u> South of	Buoy Key,	Florida		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	25 <sup>0</sup> 06.7' Island-C Sand or			
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Laughing Gull	June 23	60	Loafing	Ground Estimate

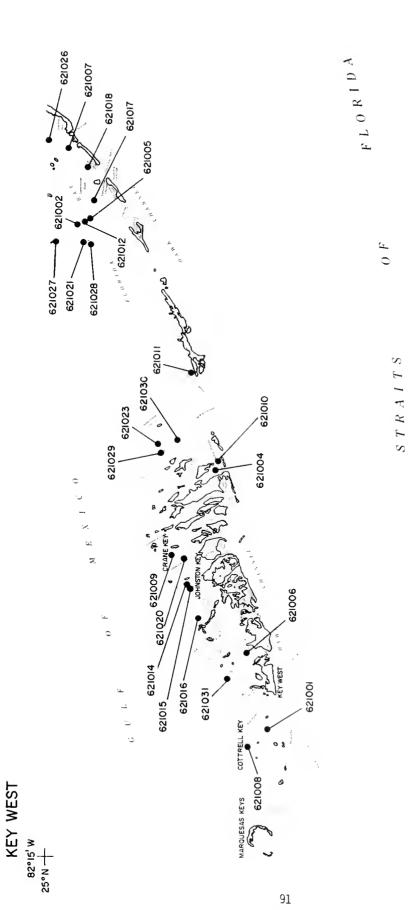
<u>620055</u> East of P	elican Ke	y, Florida		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	25 <sup>0</sup> 03.8' Island-C Sand or			
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Laughing Gull	May 3	4	Egg Laying	Aerial Estimate- Fixed Wing
	Jun 23	40	Flying Young	Aerial Estimate- Fixed Wing

## 620 MIAMI, FL (Continued)

<u>620056</u> Pelican K	ey, Flori	da		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	25 <sup>0</sup> 04.1' Island-C Sand or			
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Laughing Gull	June 23	150	Loafing	Ground Estimate

<u>620057</u> Cluett Key, Florida				
LOCATION: 25 <sup>0</sup> 01.9'N; 80 <sup>0</sup> 51.8'N SITE DESCRIPTION: Island-Coastal NEST SUBSTRATE: Sand or Shell				
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Laughing Gull	June 23	60	Flying Young	Aerial Estimate- Fixed Wing





621 ... KEY WEST

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#### 621 KEY WEST, FL

621001 Archer Ke	y, Florid	a		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	Island-C	N; 81 <sup>0</sup> 53.3'W oastal angrove)		
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Double-Cr. Cormorant	May 14	36	Downy Young	Aerial Estimate- Fixed Wing

621002 Barnes Key, Florida

LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	24 <sup>0</sup> 56.3' Island-C Sand or 1			
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Laughing Gull	June 23	100	Feathered Young	Aerial Estimate- Fixed Wing
Double-Cr. Cormorant	April 19	80	Feathered Young	Aerial Estimate- Fixed Wing

<u>621004</u> Big Mangr	ove Key,	Florida		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	24 <sup>0</sup> 40.0' Island-C Trees (M			
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Brown Pelican	May 14	60 I	Feathered Young	Aerial Estimate- Fixed Wing
Double-Cr. Cormorant	May 14	40 H	Feathered Young	Aerial Estimate- Fixed Wing

<u>621005</u> Buchanan	Key, Flor	ida		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	24 <sup>0</sup> 55.1' Island-C Sand or			
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Brown Pelican Double-Cr. Cormorant Laughing Gull	Feb. 13 Feb. 13 June 14 June 1	176 400 400 2	Incubation Downy Young Flying Young Incubation	Nest Count-Ground Nest Count-Ground Nest Count-Ground Nest Count-Ground

<u>621006</u> Channel k	Key, Flori	da		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	Island-C	N; 81'43.3'W Coastal Mangrove)		
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Double-Cr. Cormorant	May 14	700	Downy Young	Aerial Estimate- Fixed Wing

<u>621007</u> Cotton Ke	ey, Florida
LOCATION:	24 <sup>0</sup> 57.6'N; 80 <sup>0</sup> 37.5'W
SITE DESCRIPTION:	Island-Coastal
NEST SUBSTRATE:	Trees (Mangrove)
SPECIES	DATE BEEEDING BIRDS NESTING STAGE INVENTORY METHOD
Double-Cr.	April 19 80 Feathered Young Aerial Estimate-
Cormorant	Fixed Wing

<u>621008</u> Cottrell	Key, Flor	ida		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	24 <sup>0</sup> 36.2' Island-C Trees (M	• • • • • • •		
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Brown Pelican	May 27	280	Hatching	Aerial Estimate- Fixed Wing
Double-Cr. Cormorant	May 27	840	Incubation	Aerial Estimate- Fixed Wing

<u>621009</u> Crane Key	, Florida			
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	24 <sup>0</sup> 45.3' Island-C Trees (M			
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Brown Pelican	May 27	16 F	Feathered Young	Aerial Estimate- Fixed Wing

<u>621010</u> Don Quixo	ote Key, F	lorida		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	Island-O	'N; 81 <sup>0</sup> 18.6'W Coastal Mangrove)		
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Double-Cr. Cormorant	June 2	10	Flying Young	Nest Count-Ground

<u>621011</u> Fanny Key	vs, Florid	la		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	Island-O	'N; 81 <sup>0</sup> 6.1'W Coastal Mangrove)		
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Brown Pelican	May 14	140	Flying Young	Aerial Estimate- Fixed Wing
Double-Cr. Cormorant	May 14	1160	Downy Young	Aerial Estimate- Fixed Wing

<u>621012</u> Green Mar	igrove Key	, Florida		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	24 <sup>0</sup> 55.5'I Island-Co Trees (Ma			
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Double-Cr. Cormorant	April 19	80	Feathered Young	Aerial Estimate- Fixed Wing

<u>621014</u> Johnston	Key Mangr	oves, Florida		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	24 <sup>0</sup> 43.7' Island-C Trees (M			
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Brown Pelican	May 27	50	Flying Young	Aerial Estimate- Fixed Wing
Double-Cr. Cormorant	May 27	30	Feathered Young	Aerial Estimate- Fixed Wing

<u>621015</u> Johnston	Keys - We	st, Florida		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	Island-C	N; 81 <sup>0</sup> 35.7'W oastal angrove)		
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Double-Cr. Cormorant	June 2	40 F	eathered Young	Nest Count-Ground

<u>621016</u> Marvin Ke	ys <mark>-</mark> Sout	h, Florida		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	Island-C	N; 81 <sup>0</sup> 38.9'W oastal angrove)		
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Double-Cr. Cormorant	May 14	20 F	eathered Young	Aerial Estimate- Fixed Wing

<u>621017</u> Peterson	Keys <mark>-</mark> Ea	st, Florida		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	24 <sup>0</sup> 54.5' Island-C Trees (M			
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Double-Cr. Cormorant	April 19	50	Downy Young	Aerial Estimate- Fixed Wing

621018 Shell Key, Florida

LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	24 <sup>0</sup> 55.3'I Island-Co Trees (Ma			
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Double-Cr. Cormorant	April 19	500	Feathered Young	Aerial Estimate- Fixed Wing

<u>621020</u> Tarpon Be	lly Keys,	Florida		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	Island-C	N; 81 <sup>0</sup> 31.2'W Coastal !angrove)		
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Double-Cr. Cormorant	May 27	140	Downy Young	Aerial Estimate- Fixed Wing

621021 Upper Arsnicker Keys, Florida					
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	24 <sup>0</sup> 55.8'N; 80 <sup>0</sup> 49.7'W Island-Coastal Sand or Shell				
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD	
Brown Pelican	April 19	40	Downy Young	Aerial Estimate- Fixed Wing	
Double-Cr. Cormorant	April 19	120	Feathered Young	Aerial Estimate- Fixed Wing	

<u>621023</u> West Bahia Honda Key, Florida					
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	Island-C	24 <sup>0</sup> 46.9'N; 81 <sup>0</sup> 16.3'W Island-Coastal Trees (Mangrove)			
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD	
Double-Cr. Cormorant	May 27	360	Hatching	Aerial Estimate- Fixed Wing	
<u>621026</u> East Key,	Florida				
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	25 <sup>0</sup> 00.0' Island-C Sand or				
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD	
Laughing Gull	May 14	200	Egg Laying	Aerial Estimate- Fixed Wing	
	June 1	366	Hatching	Nest Count-Ground	

<u>621027</u> Rabbit Keys, Florida						
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	24 <sup>0</sup> 59.3'N; 80 <sup>0</sup> 49.8'W Island-Coastal Sand or Shell					
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD		
Laughing Gull	May 3	3	Pairing	Aerial Estimate-		
	June 23	60	Flying Young	Fixed Wing Nest Count-Ground		

<u>621028</u> Lower Ars	nicker Ke	y, Florida		
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	24 <sup>0</sup> 55.2' Island-C Sand or			
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTCRY METHOD
Laughing Gull	June 23	60	Flying Young	Aerial Estimate- Fixed Wing

621029	Horseshoe	Keys - E	ast, Florida		
LOCATION: SITE DESC NEST SUBS		24 <sup>0</sup> 46.4'N; 81 <sup>0</sup> 16.5'W Island-Coastal Sand or Shell			
SPECIES		DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Laughing	Gull	May 27	350	Hatching	Aerial Estimate- Fixed Wing
		June 10	1058	Feathered Young	Nest Count-Ground

<u>621030</u> Teatable Key, Florida						
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	24 <sup>0</sup> 44.6'N; 81 <sup>0</sup> 15.7'W Island-Coastal Sand or Shell					
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD		
Laughing Gull	May 27	120	Hatching	Aerial Estimate- Fixed Wing		

<u>621031</u> Bay Key,	Florida			
LOCATION: SITE DESCRIPTION: NEST SUBSTRATE:	Island-C	N; 81 <sup>0</sup> 46.7'W coastal langrove)		
SPECIES	DATE	BREEDING BIRDS	NESTING STAGE	INVENTORY METHOD
Double-Cr. Cormorant	May 14	970	Downy Young	Aerial Estimate- Fixed Wing

#### APPENDIX A

Colony number	Colony name	Breeding birds	Site description
	Brown Pelican	· · · · · · · · · · · · · · · · · · ·	
North Carolina 499007	North Rock	270	Island-Coastal
South Carolina 563006 564012	Deveaux Bank White Island	2944 3010	Marsh Island-Coastal
Florida 606001 606002 612001 612002 612003 616003 616007 616008 616009 620005 620009 621004 621005 621008 621009 621011 621014 621021	New Smyrna Beach Port Orange Bird Island George and Brady Island Hall Island Fort Pierce Spoil Pelican Island Riomar Spoil Sewall Point East Cowpens Keys Frank Key Big Mangrove Key Buchanan Key Cottrell Key Cottrell Key Fanny Keys Johnston Key Mangroves Upper Arsnicker Keys	70* 700* 500* 500* 294* 600* 626* 300* 60 500 60 176 280 16 140 50 40	Urban Island-Coastal Marsh Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal
North Carolina	Double-Crested Cormorant		
523029	Lake Ellis Simon	26	Swamp
Florida 606002 606003 612001 612002 612003 612004 612007 616001 616002 616003	Port Orange St. Marks Pond Swamp Bird Island George & Brady Island Hall Island Haulover Canal Moore Creek County Line Spoil Duck Point Spoil Fort Pierce Spoil	400* 100 500* 900* 1450* 60* 860* 10 120* 190*	Island-Coastal Swamp Marsh Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal

#### Table A1. Index to colonies by species.

Colony number	Colony name	Breeding birds	Site description
	Double-Crested Cormorant	(Continued)	
Florida (Cont.) 616004 616007 616008 616009 620005 620007 620009 620012 620016 621001 621002 621004 621005 621004 621005 621006 621007 621008 621010 621011 621012 621014 621015 621016 021017 621018 621020 621021	Grant Farm Island Pelican Island Riomar Spoil Sewall Point East Cowpens Keys Cutler (Paradise Pt.) Frank Key Nest Keys-South Sandy Key Archer Key Barnes Key Big Mangrove Key Buchanan Key Cotton Key Cottrell Key Cottrell Key Don Quixote Key Fanny Keys Green Mangrove Key Johnston Keys-West Marvin Keys-South Peterson Keys-East Shell Key Tarpon Belly Keys Upper Arsnicker Keys	50* 250* 50* 200* 700 700* 50 500* 36 80 40 400* 700 80 840 10 1160 80 30 40 20 50 500* 36 80 30 40 20 50 500 500 500 140 120	Island-Coastal Island-Coastal
621023 621031	West Bahia Honda Key Bay Key	360 970	Island-Coastal Island-Coastal
	Great Black-Backed Gull		
North Carolina 500002	Herring Gull Island	6	Island-Coastal
	Herring Gull		
North Carolina 499022 499023 500002 500005 500006 500009 523003	Shell Castle Long Rock Herring Gull Island Unnamed Unnamed Unnamed Dump Island	16 22 462 62 36 36 6	Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal

Colony number	Colony name	Breeding birds	Site description
	Laughing Gull	· · · · · · · · · · · · · · · · · · ·	
North Carolina 499001 500002 500003 500005 500006 500009 500018 500020 500021 523003 523007 523011 523016 523054 523055 523056 523058 544019 544020 544021	Beacon Island Gull Island Herring Gull Island Outer Green Unnamed Unnamed Unnamed Royal Tern Island Hatteras Inlet Hatteras Inlet Dump Island Morgan Island Shell Island Tump Island Laughing Gull Chainshot Harbor Dump South Unnamed Royal Tern Island	3034 2906 2008 334 14 96 296 898 16 4 8478 2772 1248 16 1322 962 214 52 8 22* 6	Marsh Island-Coastal Island-Coastal Marsh Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal
South Carolina 544005 563006 564001	White Banks Deveaux Bank Bird Island	2940* 5000* 3000*	Marsh Marsh Island-Coasta
Florida 620046 620053 620054 620055 620056 620057 621002 621005 621026 621027 621028 621029 621030	Curlew Key Man of War Key South of Buoy Key East of Pelican Key Pelican Key Barnes Key Buchanan Key East Key Rabbit Keys Lower Arsnicker Key Horseshoe Keys-East Teatable Key	50 120 60 40* 150 60 100 2 366* 60* 60 1058* 120	Island-Coasta Island-Coasta Island-Coasta Island-Coasta Island-Coasta Island-Coasta Island-Coasta Island-Coasta Island-Coasta Island-Coasta Island-Coasta Island-Coasta

Colony number	Colony name	Breeding birds	Site description
	Gull-Billed Tern		
North Carolina			
499009	Ocracoke Flats	24	Barrier Beach
499012	Portsmouth Island	62*	Barrier Beach
499015	Hog Island Reef	8	Island-Coastal
499016	Unnamed	20	Island-Coastal
500005	Unnamed	12	Island-Coastal
500009	Unnamed	20	Island-Coastal
500010	Unnamed	8	Island-Coastal
500011	Unnamed	16	Island-Coastal
500013	Stumpy Point Bay	48	Island-Coastal
500019	Hatteras Inlet	16*	Island-Coastal
500020	Hatteras Inlet	2	Island-Coastal
500021	Hatteras Inlet	90×	Island-Coastal
523017	Unnamed	14	Island-Coastal
523019	Bottle Run	18*	Island-Coastal
523022	Unnamed	32*	Island-Coastal
523024	Unnamed	2	Island-Coastal
523025	Unnamed	28	Island-Coastal
523026	Annex Island	2	Island-Coastal
523028	Brant Island	44*	Island-Coastal
523030	Unnamed	8	Island-Coastal
523032	Unnamed	4	Island-Coastal
523033	Unnamed	4	Island-Coastal
523044	North Old-Topsail	6	Barrier Beach
523045	Unnamed	26	Island-Coastal
523048	Bird I.	40	Island-Coastal
523050	Masonboro Island	10	Barrier Beach
523053	Unnamed	130	Island-Coastal
523C61	New Dump	58*	Island-Coastal
544019	Unnamed	60	Island-Coastal
544022	Unnamed	48*	Island-Coastal
544024	Gull-Billed Tern	40	Island-Coastal
South Carolina			
544005	White Banks	18*	Marsh
544014	Magnolia Beach	2	Barrier Beach
563017	Savannah River NWR	12	Marsh
564001	Bird Island	200*	Island-Coastal
Georgia			
594015	Bird Islands	182*	Island-Coastal

Colony number	Colony name	Breeding birds	Site description
	Forster's Tern		
North Carolina 499001 499002 499007 499010 499011 499022 500001 500018 500020 500021 500024 523015 523016 523040 523058 523059	Beacon Island Big Swan Island North Rock North Casey Unnamed Shell Castle Gull Island Royal Tern Island Hatteras Inlet Hatteras Inlet Unnamed Big Deep Tump Island Tiny Triangle Dump South Unnamed	282 abandoned 94 94 86 116 112 130 98 78 262 18 138 46 36 20	Marsh Island-Coastal Island-Coastal Marsh Island-Coastal Island-Coastal Island-Coastal Island-Coastal Marsh Marsh Marsh Island-Coastal Island-Coastal Island-Coastal
	Common Tern		
North Carolina 499002 499007 499009 499012 499013 499014 499015 499016 499019 499020 499021 499022 499023 500005 500008 500009 500000 500010 500011 500013 500017 500019 500020 500021	Big Swan Island North Rock Ocracoke Flats Portsmouth Island Shell Point Rattan Bay Hog Island Reef Unnamed Judith Point Judith Island Point Sow Island Shell Castle Long Rock Unnamed Unnamed Unnamed Unnamed Stumpy Point Bay King Island Hatteras Inlet Hatteras Inlet	abandoned 120 808 50* 104 97 18 12 107 184* 70* 82 50 342 450 82 154 174 576 24 32* 552 986*	Island-Coastal Island-Coastal Barrier Beach Marsh Marsh Island-Coastal Island-Coastal Marsh Marsh Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal

Colony number	Colony name	Breeding birds	Site description
	<u>Common Tern</u> (Continued)		
North Carolina 500025 523013 523017 523018 523020 523022 523023 523024 523025 523026 523026 523028 523030 523032 523032 523033 523038 523038 523038 523039 523044 523045 523044 523045 523044 523045 523044 523045 523044 523050 523053 523054 523054 523051 544022 544024	Unnamed Woodhouse Island Unnamed Bottle Run Shackleford Unnamed Unnamed Unnamed Unnamed Annex Island Unnamed Unnamed Unnamed Unnamed Unnamed Unnamed Sird I. Masonboro Island Unnamed Bird I. Masonboro Island Unnamed Cunamed Bird I. Masonboro Island Unnamed Laughing Gull New Dump Unnamed Gull-Billed Tern Monks Island	$22 \\ 286* \\ 584 \\ 66 \\ 122* \\ 82 \\ 222* \\ 4 \\ 2 \\ 6 \\ 2 \\ 230* \\ 182 \\ 6 \\ 6 \\ 28 \\ 14* \\ 74 \\ 386 \\ 4 \\ 76 \\ 4 \\ 2 \\ 82 \\ 496* \\ 4 \\ 16 \\ 6 \end{bmatrix}$	Island-Coastal Island-Coastal Island-Coastal Island-Coastal Barrier Beach Island-Coastal Marsh Island-Coastal
North Carolina 499009 499012 499017 499018 500005 500007 500012 500012 500013 500014 500015 500016	Ocracoke Flats Portsmouth Island Cedar Island North Bay Unnamed Oregon Inlet North Unnamed Stumpy Point Bay Long Shoal Point Manteo Airport Hatteras Island	14 283* 2 unknown 268 15 8 20 67 42 82*	Barrier Beach Barrier Beach Island-Coastal Island-Coastal Barrier Beach Island-Coastal Island-Coastal Marsh Marsh Barrier Beach

Colony number	Colony name	Breeding birds	Site description	
Least Tern (Continued)				
North Carolina				
500019	Hatteras Inlet	2	Island-Coastal	
500021	Hatteras Inlet	562*	Island-Coastal	
500022	Ocracoke	4	Barrier Beach	
500023	Whalebone	22	Marsh	
500025	Unnamed	22	Island-Coastal	
523001	Alligator Bay	10	Island-Coastal	
523007	Morgan Island	4	Island-Coastal	
523014	Core Banks	9	Barrier Beach	
523021	Unnamed	2	Island-Coastal	
523022	Unnamed	120*	Island-Coastal	
523023	Unnamed	70	Marsh	
523024	Unnamed	64	Island-Coastal	
523027	Unnamed	140*	Island-Coastal	
523028	Brant Island	2	Island-Coastal	
523030	Unnamed	2	Island-Coasta	
523031	Unnamed	52	Island-Coastal	
523032	Unnamed	192*	Island-Coastal	
523033	Unnamed	110	Island-Coasta	
523034	Unnamed	12	Island-Coasta	
523035	Unnamed	14	Island-Coasta	
523036	Bogue Inlet	2	Marsh	
523037	Hammocks Beach	2	Barrier Beach	
523039	Unnamed	32*	Island-Coasta	
523041	Alligator Bay Main	2	Marsh	
523042	Unnamed	10	Island-Coasta	
523043	Topsail South	2	Barrier Beach	
523045	Unnamed	132	Island-Coasta	
523046	Rich Inlet South	2	Barrier Beach	
523049	Shinn Creek	6*	Island-Coasta	
523050	Masonboro Island	26	Barrier Beach	
523051	Unnamed	30	Island-Coasta	
523057	Cedar Point	10	Marsh	
523060	Core Banks	6	Barrier Beach	
523061	New Dump	6	Island-Coasta	
523062	Core Banks	118	Barrier Beach	
544009	Unnamed	2	Marsh	
544010	Unnamed	6	Island-Coasta	
544011	Sunset Beach	246	Barrier Beach	
544012	Unnamed	10	Marsh	
544022	Unnamed	58*	Island-Coasta	
544023	Carolina Beach	210	Barrier Beach	
544025	Unnamed	46*	Island-Coasta	
544026	Monks Island	108*	Island-Coasta	

Colony number	Colony name	Breeding birds	Site description
	Least Tern (Continued)		
South Carolina 544013 544014 544015 544016 544017 544018 563006 563012 563013 563014 563015 563016 563017 564001 564001 564006 564007 564008 564009 564010	Waiter Island Magnolia Beach DuBourdieu Beach North Island Sand Bank Cedar Island Deveaux Bank John's Island Airport Kiawah Island Botany Bay Edinesville Beach Hunting Island Savannah River NWR Bird Island Northwood Mall Charleston Naval Base Hog Island Riverview Inn Folly River Road	18 22* 38* 6 12 3 10 10 10 118* 60 6 18* 178 500 56* 48 22* 58 3	Barrier Beach Barrier Beach Barrier Beach Barrier Beach Barrier Beach Barrier Beach Marsh Barrier Beach Barrier Beach Barrier Beach Barrier Beach Marsh Island-Coastal Urban Island-Coastal Marsh Marsh
Georgia 594013 594014 594015	Long Point Willow Pond Beach Bird Islands	30 30 166*	Barrier Beach Island-Coastal Island-Coastal
Florida 616002 616051	Duck Point Spoil Micco <u>Royal Tern</u>	138 56	Island-Coastal Island-Coastal
North Carolina 499023 500001 500011 500018 523003 523007 523011 544021	Long Rock Gull Island Unnamed Royal Tern Island Dump Island Morgan Island Shell Island Royal Tern Island	122 1462 5440 1794* 6888* 5628 2704* 8800*	Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal
South Carolina 563006 564001	Deveaux Bank Bird Island	12000* 10400*	Marsh Island-Coastal

Colony number	Colony name	Breeding birds	Site description
	Royal Tern (Continued)		
Georgia 594015	Bird Islands	4000*	Island-Coastal
	Sandwich Tern		
North Carolina 500011 523003 523007 523011 544021	Unnamed Dump Island Morgan Island Shell Island Royal Tern Island	88 1152 76 44 4	Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal
South Carolina 563006	Deveaux Bank	300*	Marsh
Georgia 594015	Bird Islands	40*	Island-Coastal
	<u>Caspian Tern</u>		
North Carolina 500011	Unnamed	18	Island-Coastal
	Black Skimmer		
North Carolina 499002 499009 499012 499015 499016 500005 500008 500009 500010 500011 500013 500019 500020 500021 523007 523013 523016 523017	Big Swan Island Ocracoke Flats Portsmouth Island Hog Island Reef Unnamed Unnamed Unnamed Unnamed Unnamed Stumpy Point Bay Hatteras Inlet Hatteras Inlet Hatteras Inlet Morgan Island Woodhouse Island Tump Island Unnamed	abandoned 392 124* 2 46 42 322 64 108 291 52 190 310* 6 28 4 96	Island-Coastal Barrier Beach Barrier Beach Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal

Colony number	Colony name	Breeding birds	Site description
	Black Skimmer (Continued)		
North Carolina			
523019	Bottle Run	12	Island-Coastal
523022	Unnamed	62*	Island-Coastal
523023	Unnamed	4	Marsh
523028	Brant Island	36*	Island-Coastal
523030	Unnamed	8	Island-Coastal
523032	Unnamed	4	Island-Coastal
523033	Unnamed	6	Island-Coastal
523038	Unnamed	10	Island-Coastal
523039	Unnamed	10*	Island-Coastal
523044	North Old-Topsail	54	Barrier Beach
523045	Unnamed	43	Island-Coastal
523048	Bird I.	30	Island-Coastal
523050	Masonboro Island	40*	Barrier Beach
523052	Unnamed	2	Island-Coastal
523053	Unnamed	2	Island-Coastal
523061	New Dump	360*	Island-Coastal
544023	Carolina Beach	274	Barrier Beach
544026	Monks Island	12	Island-Coastal
South Carolina			
544005	White Banks	150*	Marsh
544016	North Island	45	Barrier Beach
544017	Sand Bank	94	Barrier Beach
563006	Deveaux Bank	375*	Marsh
563017	Savannah River NWR	4	Marsh
564001	Bird Island	468	Island-Coastal
564011	Bird Key	300	Island-Coastal
Georgia			
58 <b>1</b> 025	Pelican Spit	400	Island-Coastal
594012	Little Cumberland Island	60	Barrier Beach
594013	Long Point	300	Barrier Beach
594015	Bird Islands	1907	Island-Coastal
Florida			
616051	Micco	2	Island-Coastal

\* Colony censused at least twice. Number in table is the highest estimation of breeding birds.

# APPENDIX B

#### Table B1. Index to colonies by state.

## <u>North Carolina</u>

Colony number	Colony name	Breeding birds	Site description
Brown Pelican 499007	North Rock	270	Island-Coastal
Double-Crested Cor 523029	morant Lake Ellis Simon	26	Swamp
Great Black-Backed 500002	Gull Herring Gull Island	6	Island-Coastal
Herring Gull 499022 499023 500002 500005 500006 500009 523003	Shell Castle Long Rock Herring Gull Island Unnamed Unnamed Unnamed Dump Island	16 22 462 62 36 36 6	Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal
Laughing Gull 499001 500002 500003 500005 500006 500009 500018 500020 500021 523003 523007 523011 523016 523054 523055 523056 523058 544019 544020 544021	Beacon Island Gull Island Herring Gull Island Outer Green Unnamed Unnamed Royal Tern Island Hatteras Inlet Hatteras Inlet Dump Island Morgan Island Shell Island Tump Island Laughing Gull Chainshot Harbor Dump South Unnamed Royal Tern Island	$\begin{array}{c} 3034\\ 2906\\ 2008\\ 334\\ 14\\ 96\\ 296\\ 898\\ 16\\ 4\\ 8478\\ 2772\\ 1248\\ 16\\ 1322\\ 962\\ 214\\ 52\\ 8\\ 22*\\ 6\end{array}$	Marsh Island-Coastal Island-Coastal Marsh Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal Island-Coastal

Colony number	Colony name	Breeding birds	Site description
Gull-Billed Tern		······································	
499009	Ocracoke Flats	24	Barrier Beach
499012	Portsmouth Island	62*	Barrier Beach
499015	Hog Island Reef	8	Island-Coastal
499016	Unnamed	20	Island-Coastal
500005	Unnamed	12	Island-Coastal
500009	Unnamed	20	Island-Coastal
500010	Unnamed	8	Island-Coastal
500011	Unnamed	16	Island-Coastal
500013	Stumpy Point Bay	48	Island-Coastal
500019	Hatteras Inlet	16*	Island-Coastal
500020	Hatteras Inlet	2	Island-Coastal
500021	Hatteras Inlet	90*	Island-Coastal
523017	Unnamed	14	Island-Coastal
523019	Bottle Run	18*	Island-Coastal
523022	Unnamed	32*	Island-Coastal
523024	Unnamed	2	Island-Coastal
523025	Unnamed	28	Island-Coastal
523026	Annex Island	2	Island-Coastal
523028	Brant Island	44*	Island-Coastal
523030	Unnamed	8	Island-Coastal
523032	Unnamed	4	Island-Coastal
523033	Unnamed	4	Island-Coastal
523044	North Old-Topsail	6	Barrier Beach
523045	Unnamed	26	Island-Coastal
523048	Bird I.	40	Island-Coastal
523050	Masonboro Island	10	Barrier Beach
523053	Unnamed	130	Island-Coastal
523061	New Dump	58*	Island-Coastal
544019	Unnamed	60	Island-Coastal
544022	Unnamed	48*	Island-Coastal
544024	Gull-Billed Tern	40	Island-Coastal
Forster's Tern			
499001	Beacon Island	282	Marsh
499002	Big Swan Island	abandoned	Island-Coastal
499007	North Rock	94	Island-Coastal
499010	North Casey	94	Marsh
499011	Unnamed	86	Marsh
499022	Shell Castle	116	Island-Coastal
500001	Gull Island	112	Island-Coastal
500018	Royal Tern Island	130	Island-Coastal
500020	Hatteras Inlet	98	Island-Coastal
500021	Hatteras Inlet	78	Island-Coastal
500024	Unnamed	262	Marsh

Colony number	Colony name	Breeding birds	Site description
Forster's Tern	(continued)		
523015	Big Déep	18	Marsh
523016	Tump Island	138	Marsh
523040	Tiny Triangle	46	Island-Coastal
523058	Dump South	36	Island-Coastal
523059	Unnamed	20	Island-Coastal
Common Tern			
499002	Big Swan Island	abandoned	Island-Coastal
499007	North Rock	120	Island-Coastal
499009	Ocracoke Flats	803	Barrier Beach
499012	Portsmouth Island	50*	Barrier Beach
499013	Shell Point	104	Marsh
499014	Rattan Bay	97	Marsh
499015	Hog Island Reef	18	Island-Coastal
499016	Unnamed	12	Island-Coastal
499019	Judith Point	107	Marsh
499020	Judith Island Point	184*	Marsh
499021	Sow Island	70*	Marsh
499022	Shell Castle	82	Island-Coastal
499023	Long Rock	50	Island-Coastal
500005	Unnamed	342	Island-Coastal
500008	Unnamed	450	Island-Coastal
500009	Unnamed	82	Island-Coastal
500010	Unnamed	154	Island-Coastal
500011	Unnamed	174	Island-Coastal
500013	Stumpy Point Bay	576	Island-Coastal
500017	King Island	24	Marsh
500019	Hatteras Inlet	32*	Island-Coastal
500020	Hatteras Inlet	522	Island-Coastal
500021	Hatteras Inlet	986*	Island-Coastal
500025	Unnamed	22	Island-Coastal
523013	Woodhouse Island	286*	Island-Coastal
523017	Unnamed	584	Island-Coastal
523018	Unnamed	66	Island-Coastal
523019	Bottle Run	122*	Island-Coastal
523020	Shackleford	82	Barrier Beach
523022	Unnamed	222*	Island-Coastal
523023	Unnamed	4	Marsh
523024	Unnamed	2	Island-Coastal
523025	Unnamed	6	Island-Coastal
523026	Annex Island	2	Island-Coastal
523028	Brant Island	230*	Island-Coastal
523030	Unnamed	182	Island-Coastal
523032	Unnamed	6	Island-Coastal

Colony number	Colony name	Breeding birds	Site description
Common Tern (cont			
523033	Unnamed	6	Island-Coastal
523038	Unnamed	28	Island-Coastal
523039	Unnamed	14*	Island-Coastal
523044	North Old-Topsail	74	Barrier Beach
523045	Unnamed	386	Island-Coastal
523047	Unnamed	4	Island-Coastal
523048	Bird I.	76	Island-Coastal
523050	Masonboro Island	4	Barrier Beach
523053	Unnamed	2	Island-Coastal
523054	Laughing Gull	82	Island-Coastal
523061	New Dump	496*	Island-Coastal
544022	Unnamed	4	Island-Coastal
544024	Gull-Billed Tern	16	Island-Coastal
544026	Monks Island	6	Island-Coastal
	homes is range	Ū	
Least Tern		1.4	
499009	Ocracoke Flats	14	Barrier Beach
499012	Portsmouth Island	283*	Barrier Beach
499017	Cedar Island	2	Island-Coastal
499018	North Bay	unknown	Island-Coastal
500005	Unnamed	268	Island-Coastal
500007	Oregon Inlet North	15	Barrier Beach
500012	Unnamed	8	Island-Coastal
500013	Stumpy Point Bay	20	Island-Coastal
500014	Long Shoal Point	67	Marsh
500015	Manteo Airport	42	Marsh
500016	Hatteras Island	82*	Barrier Beach
500019	Hatteras Inlet	2	Island-Coastal
500021	Hatteras Inlet	562*	Island-Coastal
500022	Ocracoke	4	Barrier Beach
500023	Whalebone	22	Marsh
500025	Unnamed	22	Island-Coastal
523001	Alligator Bay	10	Island-Coastal
523007	Morgan Island	4	Island-Coastal
523014	Core Banks	9	Barrier Beach
523021	Unnamed	2	Island-Coastal
523022	Unnamed	120*	Island-Coastal
523023	Unnamed	70	Marsh
523024	Unnamed	64	Island-Coastal
523027	Unnamed	140*	Island-Coastal
523028	Brant Island	2	Island-Coastal
523030	Unnamed	2	Island-Coastal
523031		52	Island-Coastal
523031	Unnamed	52	ISTANU-CUASEd I

Colony number	Colony name	Breeding birds	Site description
Least Tern (conti	nued)		
523032	Unnamed	192*	Island-Coastal
523033	Unnamed	110	Island-Coastal
523034	Unnamed	12	Island-Coastal
523035	Unnamed	14	Island-Coastal
523036	Bogue Inlet	2	Marsh
523037	Hammocks Beach	2	Barrier Beach
523039	Unnamed	32*	Island-Coastal
523041	Alligator Bay Main	2	Marsh
523042	Unnamed	10	Island-Coastal
523043	Topsail South	2	Barrier Beach
523045	Unnamed	132	Island-Coastal
523046	Rich Inlet South	2	Barrier Beach
523049	Shinn Creek	6*	Island-Coastal
523050	Masonboro Island	26 30	Barrier Beach
523051 523057	Unnamed Cedar Point	10	Island-Coastal Marsh
523060	Core Banks	6	Barrier Beach
523061	New Dump	6	Island-Coastal
523062	Core Banks	118	Barrier Beach
544009	Unnamed	2	Marsh
544010	Unnamed	6	Island-Coastal
544011	Sunset Beach	246	Barrier Beach
544012	Unnamed	10	Marsh
544022	Unnamed	58*	Island-Coastal
544023	Carolina Beach	210	Barrier Beach
544025	Unnamed	46*	Island-Coastal
544026	Monks Island	108*	Island-Coastal
Royal Tern		100	
499023	Long Rock	122 1462	Island-Coastal Island-Coastal
500001 500011	Gull Island Unnamed	5440	Island-Coastal
500018	Royal Tern Island	1794*	Island-Coastal
523003	Dump Island	6888*	Island-Coastal
523003	Morgan Island	5628	Island-Coastal
523011	Shell Island	2704*	Island-Coastal
544021	Royal Tern Island	8800*	Island-Coastal
Sandwich Tern			
500011	Unnamed	88	Island-Coastal
523003	Dump Island	1152	Island-Coastal
523007	Morgan Island	76	Island-Coastal
523011	Shell Island	44	Island-Coastal
544021	Royal Tern Island	4	Island-Coastal

Colony number	Colony name	Breeding birds	Site description
Caspian Tern		10	
500011	Unnamed	18	Island-Coastal
Black Skimmer			
499002	Big Swan Island	abandoned	Island-Coastal
499009	Ocracoke Flats	392	Barrier Beach
499012	Portsmouth Island	124*	Barrier Beach
499015	Hog Island Reef	2	Island-Coastal
499016	Unnamed	2	Island-Coastal
500005	Unnamed	46	Island-Coastal
500008	Unnamed	42	Island-Coastal
500009	Unnamed	322	Island-Coastal
500010	Unnamed	64	Island-Coastal
500011	Unnamed	108	Island-Coastal
500013	Stumpy Point Bay	291	Island-Coastal
500019	Hatteras Inlet	52	Island-Coastal
500020	Hatteras Inlet	190	Island-Coastal
500021	Hatteras Inlet	310*	Island-Coastal
523007	Morgan Island	6	Island-Coastal
523013	Woodhouse Island	28	Island Marsh
523016	Tump Island	4	Marsh
523017	Unnamed	96	Island-Coastal
	Bottle Run	12	Island-Coastal
523019		62*	
523022	Unnamed	4	Island-Coastal
523023	Unnamed Broot Joland		Marsh Joland Coostal
523028	Brant Island	36*	Island-Coastal
523030	Unnamed	8	Island-Coastal
523032	Unnamed	4	Island-Coastal
523033	Unnamed	6	Island-Coastal
523038	Unnamed	10	Island-Coastal
523039	Unnamed	10*	Island-Coastal
523044	North Old-Topsail	54	Barrier Beach
523045	Unnamed	43	Island-Coastal
523048	Bird I.	30	Island-Coastal
523050	Masonboro Island	40*	Barrier Beach
523052	Unnamed	2	Island-Coastal
523053	Unnamed	2	Island-Coastal
523061	New Dump	360*	Island-Coastal
544023	Carolina Beach	274	Barrier Beach
544026	Monks Island	12	Island-Coastal

### South Carolina

Colony number	Colony name	Breeding birds	Site description
Brown Pelican 563006 564012	Deveaux Bank White Island	29 <b>4</b> 4 3010	Marsh Island-Coastal
Laughing Gull 544005 563006 564001	White Banks Deveaux Bank Bird Island	2940* 5000* 3000*	Marsh Marsh Island-Coastal
Gull-Billed Tern 544005 544014 563017 564001	White Banks Magnolia Beach Savannah River NWR Bird Island	18* 2 12 200*	Marsh Barrier Beach Marsh Island-Coastal
Least Tern 544013 544014 544015 544016 544017 544018 563006 563012 563013 563014 563015 563016 563017 564001 564006 564007 564008 564009 564010	Waiter Island Magnolia Beach DuBourdieu Beach North Island Sand Bank Cedar Island Deveaux Bank John's Island Airport Kiawah Island Botany Bay Edinesville Beach Hunting Island Savannah River NWR Bird Island Northwood Mall Charleston Naval Base Hog Island Riverview Inn Folly River Road	18 22* 38* 6 12 3 10 10 10 118* 60 6 18* 178 500 56* 48 22* 58 3	Barrier Beach Barrier Beach Barrier Beach Barrier Beach Barrier Beach Marsh Barrier Beach Barrier Beach Barrier Beach Barrier Beach Barrier Beach Marsh Island-Coastal Urban Island-Coastal Marsh Marsh
Royal Tern 563006 564001	Deveaux Bank Bird Island	12000* 10400*	Marsh Island-Coastal
Sandwich Tern 563006	Deveaux Bank	300*	Marsh

Colony number	Colony name	Breeding birds	Site description
Black Skimmer			<u></u>
544005	White Banks	150*	Marsh
544016	North Island	45	Barrier Beach
544017	Sand Bank	94	Barrier Beach
563006	Deveaux Bank	375*	Marsh
563017	Savannah River NWR	4	Marsh
564001	Bird Island	468	Island-Coastal
564011	Bird Key	300	Island-Coastal

### Georgia

Colony number	Colony name	Breeding birds	Site description
Gull-Billed Tern 594015	Bird Islands	182*	Island-Coastal
Least Tern 594013 594014 594015	Long Point Willow Pond Beach Bird Islands	30 30 166*	Barrier Beach Island-Coastal Island-Coastal
Royal Tern 594015	Bird Islands	4000*	Isl <b>a</b> nd-Coastal
Sandwich Tern 594015	Bird Islands	40*	Island-Coastal
Black Skimmer 581025 594012 594013 594015	Pelican Spit Little Cumberland Island Long Point Bird Islands	400 60 300 1907	Island-Coastal Barrier Beach Barrier Beach Island-Coastal

## <u>Florida</u>

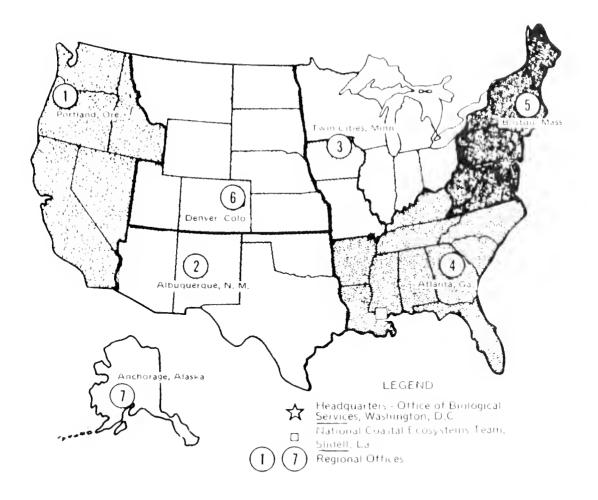
Colony number	Colony name	Breeding birds	Site description
Brown Pelican			· · · · · · · · · · · · · · · · · · ·
606001	New Smyrna Beach	70*	Urban
606002	Port Orange	700*	Island-Coastal
612001	Bird Island	700*	Marsh
612002	George and Brady Island	500*	Island-Coastal
612003	Hall Island	500*	Island-Coastal
616003	Fort Pierce Spoil	294*	Island-Coastal
616007	Pelican Island	600*	Island-Coastal
616008	Riomar Spoil	626*	Island-Coastal
616009	Sewall Point East	300*	Island-Coastal
620005	Cowpens Keys	60	Island-Coastal
620009	Frank Key	500	Island-Coastal
621004	Big Mangrove Key	60	Island-Coastal
621005	Buchanan Key	176	Island-Coastal
621008	Cottrell Key	280	Island-Coastal
621009	Crane Key	16	Island-Coastal
621011	Fanny Keys	140	Island-Coastal
621014	Johnston Key Mangroves	50	Island-Coastal
621021	Upper Arsnicker Keys	40	Island-Coastal
Double-Crested Co			
606002	Port Orange	400*	Island-Coastal
606003	St. Marks Pond Swamp	100	Swamp
612001	Bird Island	500*	Marsh
612002	George & Brady Island	900*	Island-Coastal
612003	Hall Island	1450*	Island-Coastal
612004	Haulover Canal	60*	Island-Coastal
612007	Moore Creek	860*	Island-Coastal
616001	County Line Spoil	10	Island-Coastal
616002	Duck Point Spoil	120*	Island-Coastal
616003	Fort Pierce Spoil	190*	Island-Coastal
616004	Grant Farm Island	50*	Island-Coastal
616007	Pelican Island	250*	Island-Coastal
616008	Riomar Spoil	50*	Island-Coastal
616009	Sewall Point East	150*	Island-Coastal
620005	Cowpens Keys	200*	Island-Coastal
620007	Cutler (Paradise Pt.)	700	Island-Coastal
620009	Frank Key	700*	Island-Coastal
620012	Nest Keys-South	50 500*	Island-Coastal
620016	Sandy Key	500*	Island-Coastal
621001	Archer Key	36	Island-Coastal
621002	Barnes Key	80	Island-Coastal
621004	Big Mangrove Key	40	Island-Coastal
621005	Buchanan Key	400*	Island-Coastal

### Florida (continued)

Colony number	Colony name	Breeding birds	Site description
Double-Crested Co	ormorant (continued)		
621006	Channel Key	700	Island-Coastal
621007	Cotton Key	80	Island-Coastal
621008	Cottrell Key	840	Island-Coastal
621010	Don Quixote Key	10	Island-Coastal
621011	Fanny Keys	1160	Island-Coastal
621012	Green Mangrove Key	80	Island-Coastal
621014	Johnston Key Mangroves	30	Island-Coastal
621015	Johnston Keys-West	40	Island-Coastal
621016	Marvin Keys-South	20	Island-Coastal
621017	Peterson Keys-East	50	Island-Coastal
621018	Shell Key	500	Island-Coastal
621020	Tarpon Belly Keys	140	Island-Coastal
621021	Upper Arsnicker Keys	120	Island-Coastal
621023	West Bahia Honda Key	360	Island-Coastal
621031	Bay Key	970	Island-Coastal
021031	buy key	570	ISTAIL COUSCUT
Laughing Gull			
620046	Curlew Key	50	Island-Coastal
620053	Man of War Key	120	Island-Coastal
620054	South of Buoy Key	60	Island-Coastal
620055	East of Pelican Key	40*	Island-Coastal
620056	Pelican Key	150	Island-Coastal
620057	Cluett Key	60	Island-Coastal
621002	Barnes Key	100	Island-Coastal
621005	Buchanan Key	2	Island-Coastal
621026	East Key	366*	Island-Coastal
621027	Rabbit Keys	60*	Island-Coastal
621028	Lower Arsnicker Key	60	Island-Coastal
621029	Horseshoe Keys-East	1058*	Island-Coastal
621030	Teatable Key	120	Island-Coastal
Least Tern			
616002	Duck Point Spoil	138	Island-Coastal
616051	Micco	56	Island-Coastal
Black Skimmer			
616051	Micco	2	Island-Coastal

\* Colony censused at least twice. Number in table is the highest estimation of breeding birds.

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