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Louisiana Barrier Island Comprehensive Monitoring Program (BICM) Volume 5: Chenier Plain, South-Central Louisiana, and Chandeleur Islands, Habitat Mapping and Change Analysis 1996 to 2005 Part 3: Habitat Class Tables, Habitat Change Tables, and Final Statistics 1996 to 2005

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**Louisiana Barrier Island Comprehensive Monitoring Program (BICM)
Volume 5: Chenier Plain, South-Central Louisiana, and Chandeleur Islands,
Habitat Mapping and Change Analysis 1996 to 2005
Part 3: Habitat Class Tables, Habitat Change Tables, and Final Statistics
1996 to 2005**

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of Engineers®**

INTRODUCTION

The goal of the Habitat Analysis was to classify land from the five delta shorelines in the Louisiana Coastal Zone (Fig. 1) for four different time periods and make comparisons of habitat change between the time periods. The approach presented herein follows according to the classification by Penland *et al.* (2004). This is Part 3 of four parts in this Volume 5 of the BICM Final Report. Part 1 describes all methods used in the analysis, all maps included with the deliverables are presented in Part 2, and the final results and interpretations are provided in Part 4. The objective of this Volume 5, Part 3 is to provide in detail all data tables and statistical information associated with the final maps in Part 2.

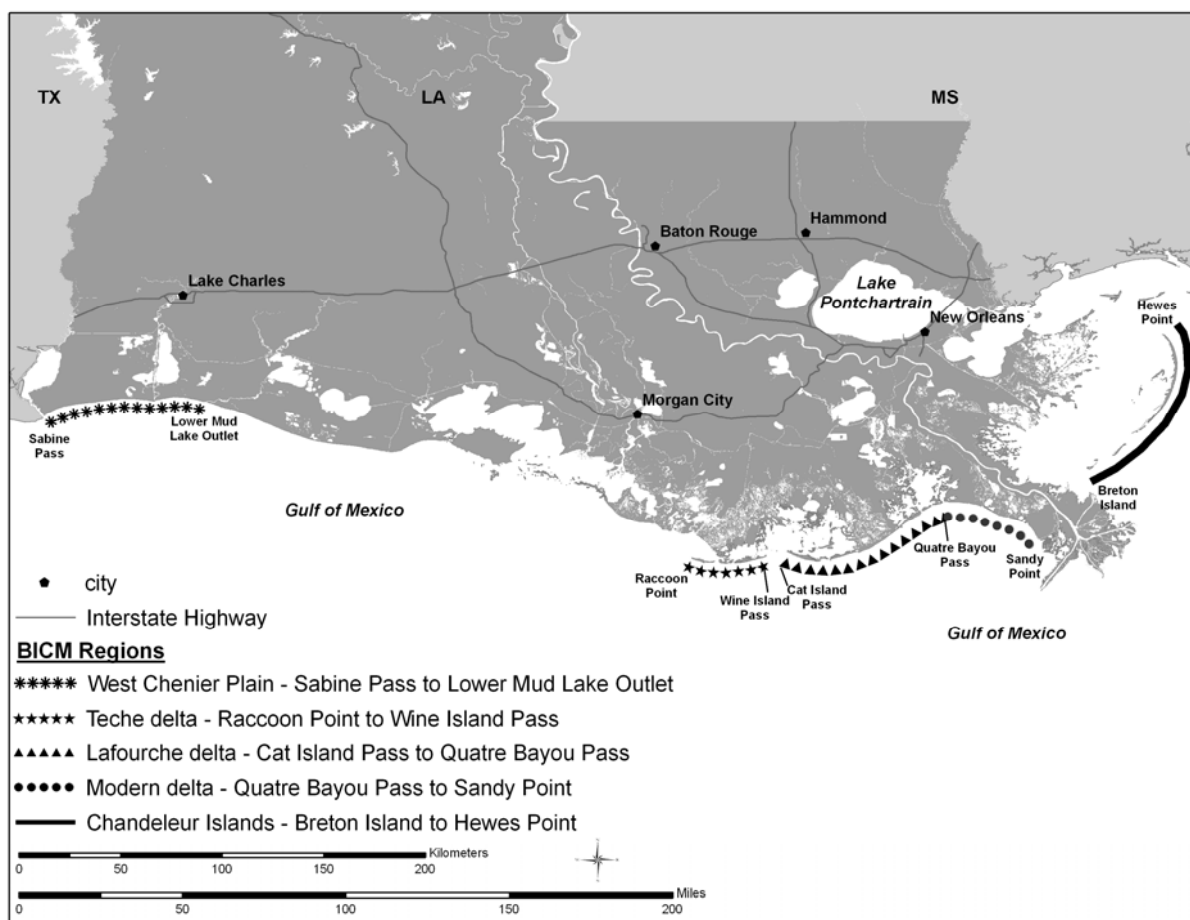


Figure 1. The five sections of shoreline used in the BICM Habitat Analysis include 1) Western Chenier Plain, which extends from the Texas/Louisiana border at Sabine Pass to the Lower Mud Lake Outlet; 2) Teche delta from Raccoon Pass to Wine Island Pass; 3) Lafourche delta from Cat Island Pass to Quatre Bayou Pass, 4) Modern delta continues from Quatre Bayou Pass to Sandy Point; and 5) Chandeleur Islands from Breton Island north to Hewes Point.

TABLES

Chenier Plain (Sabine Pass to Mud Lake Outlet)

Table 1. The amount of land gained, lost, and unchanged between the time periods 1998 to 2001 and 2001 to 2004 in the Chenier Plain. West of Calcasieu Pass includes the coastline sections Johnson’s Bayou, Ocean View Beach, and Holly Beach. East of Calcasieu Pass includes West of Hackberry Beach and Hackberry Beach.

West Chenier Plain - West of Calcasieu Pass					
Habitat Classes	2001 from 1998		Habitat Classes	2004 from 2001	
	Acres	Hectares		Acres	Hectares
Water	8836	3576	Water	6457	2613
Land Gain	1385	561	Land Gain	10618	4297
Land Loss	2931	1186	Land Loss	1782	721
Land Unchanged	30049	12161	Land Unchanged	37926	15348
Analysis Area	57340	23205	Analysis Area	57337	23204

West Chenier Plain - East of Calcasieu Pass					
Habitat Classes	2001 from 1998		Habitat Classes	2004 from 2001	
	Acres	Hectares		Acres	Hectares
Water	17765	7189	Water	17117	6927
Land Gain	3499	1416	Land Gain	5422	2194
Land Loss	4108	1662	Land Loss	2267	918
Land Unchanged	24172	9782	Land Unchanged	26013	10527
Analysis Area	40718	16478	Analysis Area	40718	16478

Table 2. The amount of land gained, lost, and unchanged between the time periods 2004 to 2005 and 1998 to 2005 in the Chenier Plain. West of Calcasieu Pass includes the coastline sections Johnson’s Bayou, Ocean View Beach, and Holly Beach. East of Calcasieu Pass includes West of Hackberry Beach and Hackberry Beach.

West Chenier Plain - West of Calcasieu Pass					
Habitat Classes	2005 from 2004		Habitat Classes	2005 from 1998	
	Acres	Hectares		Acres	Hectares
Water	6249	2529	Water	6913	2798
Land Gain	3933	1592	Land Gain	3310	1339
Land Loss	2301	931	Land Loss	4046	1637
Land Unchanged	44611	18054	Land Unchanged	43602	17645
Analysis Area	57340	23205	Analysis Area	57340	23205

West Chenier Plain - East of Calcasieu Pass					
Habitat Classes	2005 from 2004		Habitat Classes	2005 from 1998	
	Acres	Hectares		Acres	Hectares
Water	16599	6717	Water	16486	6672
Land Gain	1385	561	Land Gain	5422	2194
Land Loss	2931	1186	Land Loss	2267	918
Land Unchanged	30049	12161	Land Unchanged	26013	10527
Analysis Area	40718	16478	Analysis Area	40719	16478

Table 3. The total amount of land in each habitat class from Johnson's Bayou, Ocean View Beach, and Holly Beach in the Chenier Plain for the time periods 1998 to 2001 and 2001 to 2004.

Johnson's Bayou					
Habitat Classes	1998		Habitat Classes	2001	
	Acres	Hectares		Acres	Hectares
Water	4620	1870	Water	12144	4915
Intertidal Flat	4407	1784	Intertidal Flat	122	49
Marsh	30465	12329	Marsh	28174	11402
Barrier Vegetation	0	0	Barrier Vegetation	0	0
Bare Land	1014	411	Bare Land	135	55
Beach	282	114	Beach	214	86
Rip Rap	0	0	Rip Rap	0	0
Structure	557	225	Structure	557	225
Analysis Extent	41346	16732	Analysis Extent	41346	16732
Ocean View Beach					
Habitat Classes	1998		Habitat Classes	2001	
	Acres	Hectares		Acres	Hectares
Water	3075	1245	Water	3274	1325
Intertidal Flat	883	357	Intertidal Flat	66	27
Marsh	5730	2319	Marsh	6394	2587
Barrier Vegetation	0	0	Barrier Vegetation	0	0
Bare Land	90	36	Bare Land	63	25
Beach	214	87	Beach	199	80
Rip Rap	10	4	Rip Rap	8	3
Structure	364	147	Structure	364	147
Analysis Extent	10367	4195	Analysis Extent	10367	4195
Holly Beach					
Habitat Classes	1998		Habitat Classes	2001	
	Acres	Hectares		Acres	Hectares
Water	1995	807	Water	2195	888
Intertidal Flat	530	214	Intertidal Flat	59	24
Marsh	2915	1180	Marsh	3057	1237
Barrier Vegetation	0	0	Barrier Vegetation	0	0
Bare Land	20	8	Bare Land	50	20
Beach	118	48	Beach	216	88
Rip Rap	0	0	Rip Rap	1	0
Structure	156	63	Structure	156	63
Analysis Extent	5734	2320	Analysis Extent	5734	2320

Table 4. The total amount of land in each habitat class from Johnson's Bayou, Ocean View Beach, and Holly Beach in the Chenier Plain for the time periods 2004 to 2005 and 1998 to 2005.

Johnson's Bayou					
Habitat Classes	2004		Habitat Classes	2005	
	Acres	Hectares		Acres	Hectares
Water	4480	1813	Water	5506	2228
Intertidal Flat	2392	968	Intertidal Flat	6222	2518
Marsh	32986	13349	Marsh	29046	11754
Barrier Vegetation	0	0	Barrier Vegetation	0	0
Bare Land	704	285	Bare Land	158	64
Beach	280	113	Beach	199	80
Rip Rap	0	0	Rip Rap	0	0
Structure	503	204	Structure	214	87
Analysis Extent	41346	16732	Analysis Extent	41346	16732
Ocean View Beach					
Habitat Classes	2004		Habitat Classes	2005	
	Acres	Hectares		Acres	Hectares
Water	2258	914	Water	2617	1059
Intertidal Flat	228	92	Intertidal Flat	1519	615
Marsh	7235	2928	Marsh	5567	2253
Barrier Vegetation	0	0	Barrier Vegetation	0	0
Bare Land	14	6	Bare Land	45	18
Beach	256	103	Beach	390	158
Rip Rap	12	5	Rip Rap	14	6
Structure	364	147	Structure	214	87
Analysis Extent	10367	4195	Analysis Extent	10367	4195
Holly Beach					
Habitat Classes	2004		Habitat Classes	2005	
	Acres	Hectares		Acres	Hectares
Water	2048	829	Water	2303	932
Intertidal Flat	78	32	Intertidal Flat	448	181
Marsh	3272	1324	Marsh	2708	1096
Barrier Vegetation	0	0	Barrier Vegetation	0	0
Bare Land	6	2	Bare Land	8	3
Beach	148	60	Beach	196	79
Rip Rap	1	0	Rip Rap	1	0
Structure	180	73	Structure	70	28
Analysis Extent	5734	2320	Analysis Extent	5734	2320

Table 5. The total amount of land in each habitat class from West of Hackberry Beach and Hackberry Beach in the Chenier Plain for the time periods 1998 to 2001 and 2001 to 2004.

West of Hackberry Beach					
Habitat Classes	1998		Habitat Classes	2001	
	Acres	Hectares		Acres	Hectares
Water	6730	2723	Water	6603	2672
Intertidal Flat	1452	587	Intertidal Flat	473	191
Marsh	9471	3833	Marsh	10345	4186
Barrier Vegetation	0	0	Barrier Vegetation	0	0
Bare Land	106	43	Bare Land	351	142
Beach	193	78	Beach	181	73
Rip Rap	4	2	Rip Rap	4	2
Structure	962	389	Structure	961	389
Analysis Extent	18917	7655	Analysis Extent	18917	7655
Hackberry Beach					
Habitat Classes	1998		Habitat Classes	2001	
	Acres	Hectares		Acres	Hectares
Water	5713	2312	Water	6441	2607
Intertidal Flat	2604	1054	Intertidal Flat	282	114
Marsh	12955	5243	Marsh	14036	5680
Barrier Vegetation	0	0	Barrier Vegetation	0	0
Bare Land	193	78	Bare Land	713	288
Beach	113	46	Beach	108	44
Rip Rap	0	0	Rip Rap	0	0
Structure	406	164	Structure	406	164
Analysis Extent	21985	8897	Analysis Extent	21985	8897

Table 6. The total amount of land in each habitat class from West of Hackberry Beach and Hackberry Beach in the Chenier Plain for the time periods 2004 to 2005 and 1998 to 2005.

West of Hackberry Beach					
Habitat Classes	2004		Habitat Classes	2005	
	Acres	Hectares		Acres	Hectares
Water	4299	1740	Water	4000	1619
Intertidal Flat	838	339	Intertidal Flat	2524	1021
Marsh	12648	5119	Marsh	11212	4537
Barrier Vegetation	0	0	Barrier Vegetation	0	0
Bare Land	54	22	Bare Land	349	141
Beach	191	77	Beach	392	159
Rip Rap	3	1	Rip Rap	2	1
Structure	883	357	Structure	439	178
Analysis Extent	18917	7655	Analysis Extent	18917	7655
Hackberry Beach					
Habitat Classes	2004		Habitat Classes	2005	
	Acres	Hectares		Acres	Hectares
Water	3414	1382	Water	5252	2125
Intertidal Flat	903	365	Intertidal Flat	4616	1868
Marsh	17182	6953	Marsh	11625	4705
Barrier Vegetation	0	0	Barrier Vegetation	0	0
Bare Land	28	11	Bare Land	174	70
Beach	102	41	Beach	254	103
Rip Rap	0	0	Rip Rap	0	0
Structure	357	144	Structure	64	26
Analysis Extent	21985	8897	Analysis Extent	21985	8897

Table 7. Habitat change statistics for Johnson’s Bayou in the western Chenier Plain for the time periods 1998 to 2001, 2001 to 2004, 2004 to 2005, and 1998 to 2005.

Habitat Class				Habitat Class			
2001	1998	Acreages	Hectares	2004	2001	Acreages	Hectares
water	water	3533	1430	water	water	3503	1417
unchanged land	unchanged land	23260	9413	unchanged land	unchanged land	25153	10179
intertidal flat	water	32	13	intertidal flat	water	786	318
marsh	water	1026	415	marsh	water	7736	3131
barrier vegetation	water	0	0	barrier vegetation	water	0	0
bare land	water	15	6	bare land	water	123	50
beach	water	12	5	beach	water	43	17
water	intertidal flat	1115	451	water	intertidal flat	48	19
water	marsh	7281	2946	water	marsh	932	377
water	barrier vegetation	0	0	water	barrier vegetation	0	0
water	bare land	153	62	water	bare land	33	13
water	beach	56	23	water	beach	13	5
water	structure	6	2	water	structure	5	2
intertidal flat	marsh	32	13	intertidal flat	marsh	1576	638
intertidal flat	barrier vegetation	0	0	intertidal flat	barrier vegetation	0	0
intertidal flat	bare land	4	2	intertidal flat	bare land	3	1
intertidal flat	beach	13	5	intertidal flat	beach	13	5
marsh	intertidal flat	3206	1298	marsh	intertidal flat	50	20
marsh	barrier vegetation	0	0	marsh	barrier vegetation	0	0
marsh	bare land	824	334	marsh	bare land	88	36
marsh	beach	59	24	marsh	beach	46	18
barrier vegetation	intertidal flat	0	0	barrier vegetation	intertidal flat	0	0
barrier vegetation	marsh	0	0	barrier vegetation	marsh	0	0
barrier vegetation	bare land	0	0	barrier vegetation	bare land	0	0
barrier vegetation	beach	0	0	barrier vegetation	beach	0	0
bare land	intertidal flat	20	8	bare land	intertidal flat	1	0
bare land	marsh	69	28	bare land	marsh	572	231
bare land	barrier vegetation	0	0	bare land	barrier vegetation	0	0
bare land	beach	0	0	bare land	beach	0	0
beach	intertidal flat	24	10	beach	intertidal flat	12	5
beach	marsh	24	10	beach	marsh	83	34
beach	barrier vegetation	0	0	beach	barrier vegetation	0	0
beach	bare land	0	0	beach	bare land	1	0
rip rap	rip rap	0	0	rip rap	rip rap	0	0
structure	structure	527	213	structure	structure	475	192
	analysis extent	41293	16711		analysis extent	41293	16711

Table 7, continued.

Habitat Class				Habitat Class			
2005	2004	Acreages	Hectares	2005	1998	Acreages	Hectares
water	water	3121	1263	water	water	3118	1262
unchanged land	unchanged land	25807	10444	unchanged land	unchanged land	25075	10148
intertidal flat	water	629	254	intertidal flat	water	783	317
marsh	water	1082	438	marsh	water	1127	456
barrier vegetation	water	0	0	barrier vegetation	water	0	0
bare land	water	7	3	bare land	water	4	1
beach	water	13	5	beach	water	9	4
water	intertidal flat	177	72	water	intertidal flat	271	110
water	marsh	2499	1011	water	marsh	2450	991
water	barrier vegetation	0	0	water	barrier vegetation	0	0
water	bare land	61	25	water	bare land	56	22
water	beach	9	4	water	beach	18	7
water	structure	10	4	water	structure	14	6
intertidal flat	marsh	4801	1943	intertidal flat	marsh	3982	1611
intertidal flat	barrier vegetation	0	0	intertidal flat	barrier vegetation	0	0
intertidal flat	bare land	326	132	intertidal flat	bare land	101	41
intertidal flat	beach	110	44	intertidal flat	beach	118	48
marsh	intertidal flat	1945	787	marsh	intertidal flat	2986	1208
marsh	barrier vegetation	0	0	marsh	barrier vegetation	0	0
marsh	bare land	312	126	marsh	bare land	831	336
marsh	beach	56	23	marsh	beach	35	14
barrier vegetation	intertidal flat	0	0	barrier vegetation	intertidal flat	0	0
barrier vegetation	marsh	0	0	barrier vegetation	marsh	0	0
barrier vegetation	bare land	0	0	barrier vegetation	bare land	0	0
barrier vegetation	beach	0	0	barrier vegetation	beach	0	0
bare land	intertidal flat	4	2	bare land	intertidal flat	8	3
bare land	marsh	102	41	bare land	marsh	85	34
bare land	barrier vegetation	0	0	bare land	barrier vegetation	0	0
bare land	beach	1	0	bare land	beach	0	0
beach	intertidal flat	16	6	beach	intertidal flat	10	4
beach	marsh	65	26	beach	marsh	67	27
beach	barrier vegetation	0	0	beach	barrier vegetation	0	0
beach	bare land	0	0	beach	bare land	1	0
rip rap	rip rap	0	0	rip rap	rip rap	0	0
structure	structure	142	57	structure	structure	142	57
	analysis extent	41293	16711		analysis extent	41293	16711

Table 8. Habitat change statistics for Ocean View Beach in the western Chenier Plain for the time periods 1998 to 2001, 2001 to 2004, 2004 to 2005, and 1998 to 2005.

Habitat Class				Habitat Class			
2001	1998	Acreages	Hectares	2004	2001	Acreages	Hectares
water	water	2345	949	water	water	1865	755
unchanged land	unchanged land	5190	2100	unchanged land	unchanged land	6027	2439
intertidal flat	water	32	13	intertidal flat	water	75	30
marsh	water	669	271	marsh	water	1246	504
barrier vegetation	water	0	0	barrier vegetation	water	0	0
bare land	water	4	2	bare land	water	1	0
beach	water	24	10	beach	water	83	34
water	intertidal flat	242	98	water	intertidal flat	14	6
water	marsh	635	257	water	marsh	350	141
water	barrier vegetation	0	0	water	barrier vegetation	0	0
water	bare land	4	1	water	bare land	6	2
water	beach	45	18	water	beach	23	9
water	structure	1	0	water	structure	1	0
intertidal flat	marsh	10	4	intertidal flat	marsh	125	51
intertidal flat	barrier vegetation	0	0	intertidal flat	barrier vegetation	0	0
intertidal flat	bare land	1	1	intertidal flat	bare land	3	1
intertidal flat	beach	18	7	intertidal flat	beach	18	7
marsh	intertidal flat	623	252	marsh	intertidal flat	16	6
marsh	barrier vegetation	0	0	marsh	barrier vegetation	0	0
marsh	bare land	61	25	marsh	bare land	46	19
marsh	beach	10	4	marsh	beach	29	12
barrier vegetation	intertidal flat	0	0	barrier vegetation	intertidal flat	0	0
barrier vegetation	marsh	0	0	barrier vegetation	marsh	0	0
barrier vegetation	bare land	0	0	barrier vegetation	bare land	0	0
barrier vegetation	beach	0	0	barrier vegetation	beach	0	0
bare land	intertidal flat	2	1	bare land	intertidal flat	0	0
bare land	marsh	32	13	bare land	marsh	8	3
bare land	barrier vegetation	0	0	bare land	barrier vegetation	0	0
bare land	beach	0	0	bare land	beach	0	0
beach	intertidal flat	11	5	beach	intertidal flat	30	12
beach	marsh	21	9	beach	marsh	15	6
beach	barrier vegetation	0	0	beach	barrier vegetation	0	0
beach	bare land	0	0	beach	bare land	1	0
rip rap	rip rap	7	3	rip rap	rip rap	7	3
structure	structure	351	142	structure	structure	351	142
	analysis extent	10338	4184		analysis extent	10338	4184

Table 8, continued.

Habitat Class				Habitat Class			
2005	2004	Acreages	Hectares	2005	1998	Acreages	Hectares
water	water	1990	805	water	water	2082	843
unchanged land	unchanged land	5370	2173	unchanged land	unchanged land	4296	1739
intertidal flat	water	128	52	intertidal flat	water	286	116
marsh	water	246	100	marsh	water	723	292
barrier vegetation	water	0	0	barrier vegetation	water	0	0
bare land	water	1	0	bare land	water	3	1
beach	water	31	13	beach	water	121	49
water	intertidal flat	54	22	water	intertidal flat	90	37
water	marsh	703	284	water	marsh	561	227
water	barrier vegetation	0	0	water	barrier vegetation	0	0
water	bare land	1	0	water	bare land	7	3
water	beach	5	2	water	beach	15	6
water	structure	7	3	water	structure	7	3
intertidal flat	marsh	1230	498	intertidal flat	marsh	957	387
intertidal flat	barrier vegetation	0	0	intertidal flat	barrier vegetation	0	0
intertidal flat	bare land	3	1	intertidal flat	bare land	16	6
intertidal flat	beach	52	21	intertidal flat	beach	79	32
marsh	intertidal flat	101	41	marsh	intertidal flat	643	260
marsh	barrier vegetation	0	0	marsh	barrier vegetation	0	0
marsh	bare land	8	3	marsh	bare land	60	24
marsh	beach	13	5	marsh	beach	14	6
barrier vegetation	intertidal flat	0	0	barrier vegetation	intertidal flat	0	0
barrier vegetation	marsh	0	0	barrier vegetation	marsh	0	0
barrier vegetation	bare land	0	0	barrier vegetation	bare land	0	0
barrier vegetation	beach	0	0	barrier vegetation	beach	0	0
bare land	intertidal flat	1	0	bare land	intertidal flat	1	0
bare land	marsh	34	14	bare land	marsh	29	12
bare land	barrier vegetation	0	0	bare land	barrier vegetation	0	0
bare land	beach	0	0	bare land	beach	0	0
beach	intertidal flat	17	7	beach	intertidal flat	19	8
beach	marsh	130	52	beach	marsh	119	48
beach	barrier vegetation	0	0	beach	barrier vegetation	0	0
beach	bare land	0	0	beach	bare land	0	0
rip rap	rip rap	12	5	rip rap	rip rap	10	4
structure	structure	201	81	structure	structure	201	81
	analysis extent	10338	4184		analysis extent	10338	4184

Table 9. Habitat change statistics for Holly Beach in the western Chenier Plain for the time periods 1998 to 2001, 2001 to 2004, 2004 to 2005, and 1998 to 2005.

Habitat Class				Habitat Class			
2001	1998	Acreages	Hectares	2004	2001	Acreages	Hectares
water	water	1769	716	water	water	1712	683
unchanged land	unchanged land	2701	1099	unchanged land	unchanged land	2845	1157
intertidal flat	water	38	15	intertidal flat	water	28	11
marsh	water	122	49	marsh	water	456	185
barrier vegetation	water	0	0	barrier vegetation	water	0	0
bare land	water	3	1	bare land	water	1	0
beach	water	62	25	beach	water	22	9
water	intertidal flat	163	66	water	intertidal flat	31	12
water	marsh	254	103	water	marsh	270	109
water	barrier vegetation	0	0	water	barrier vegetation	0	0
water	bare land	1	1	water	bare land	5	2
water	beach	8	3	water	beach	53	22
water	structure	0	0	water	structure	1	0
intertidal flat	marsh	8	3	intertidal flat	marsh	7	3
intertidal flat	barrier vegetation	0	0	intertidal flat	barrier vegetation	0	0
intertidal flat	bare land	1	0	intertidal flat	bare land	1	0
intertidal flat	beach	6	3	intertidal flat	beach	36	15
marsh	intertidal flat	322	130	marsh	intertidal flat	10	4
marsh	barrier vegetation	0	0	marsh	barrier vegetation	0	0
marsh	bare land	9	4	marsh	bare land	23	9
marsh	beach	6	2	marsh	beach	33	13
barrier vegetation	intertidal flat	0	0	barrier vegetation	intertidal flat	0	0
barrier vegetation	marsh	0	0	barrier vegetation	marsh	0	0
barrier vegetation	bare land	0	0	barrier vegetation	bare land	0	0
barrier vegetation	beach	0	0	barrier vegetation	beach	0	0
bare land	intertidal flat	9	4	bare land	intertidal flat	1	0
bare land	marsh	30	12	bare land	marsh	1	1
bare land	barrier vegetation	0	0	bare land	barrier vegetation	0	0
bare land	beach	0	0	bare land	beach	0	0
beach	intertidal flat	28	11	beach	intertidal flat	10	4
beach	marsh	27	11	beach	marsh	23	9
beach	barrier vegetation	0	0	beach	barrier vegetation	0	0
beach	bare land	0	0	beach	bare land	0	0
rip rap	rip rap	0	0	rip rap	rip rap	1	0
structure	structure	147	60	structure	structure	147	59
	analysis extent	5716	2326		analysis extent	5716	2326

Table 9, continued.

Habitat Class				Habitat Class			
2005	2004	Acreages	Hectares	2005	1998	Acreages	Hectares
water	water	1985	763	water	water	1866	705
unchanged land	unchanged land	2631	1071	unchanged land	unchanged land	2320	944
intertidal flat	water	44	18	intertidal flat	water	80	32
marsh	water	101	41	marsh	water	146	59
barrier vegetation	water	0	0	barrier vegetation	water	0	0
bare land	water	0	0	bare land	water	1	0
beach	water	15	6	beach	water	23	9
water	intertidal flat	38	15	water	intertidal flat	109	44
water	marsh	346	140	water	marsh	419	170
water	barrier vegetation	0	0	water	barrier vegetation	0	0
water	bare land	1	0	water	bare land	2	1
water	beach	25	10	water	beach	23	9
water	structure	8	3	water	structure	8	3
intertidal flat	marsh	295	119	intertidal flat	marsh	227	92
intertidal flat	barrier vegetation	0	0	intertidal flat	barrier vegetation	0	0
intertidal flat	bare land	1	1	intertidal flat	bare land	2	1
intertidal flat	beach	54	22	intertidal flat	beach	32	13
marsh	intertidal flat	7	3	marsh	intertidal flat	324	131
marsh	barrier vegetation	0	0	marsh	barrier vegetation	0	0
marsh	bare land	3	1	marsh	bare land	13	5
marsh	beach	16	6	marsh	beach	9	4
barrier vegetation	intertidal flat	0	0	barrier vegetation	intertidal flat	0	0
barrier vegetation	marsh	0	0	barrier vegetation	marsh	0	0
barrier vegetation	bare land	0	0	barrier vegetation	bare land	0	0
barrier vegetation	beach	0	0	barrier vegetation	beach	0	0
bare land	intertidal flat	0	0	bare land	intertidal flat	1	1
bare land	marsh	6	2	bare land	marsh	4	1
bare land	barrier vegetation	0	0	bare land	barrier vegetation	0	0
bare land	beach	0	0	bare land	beach	0	0
beach	intertidal flat	16	7	beach	intertidal flat	20	8
beach	marsh	60	24	beach	marsh	49	20
beach	barrier vegetation	0	0	beach	barrier vegetation	0	0
beach	bare land	0	0	beach	bare land	1	0
rip rap	rip rap	1	0	rip rap	rip rap	0	0
structure	structure	63	25	structure	structure	39	16
	analysis extent	5716	2326		analysis extent	5716	2326

Table 10. Habitat Change Statistics for West of Hackberry Beach in the western Chenier Plain for the time periods 1998 to 2001, 2001 to 2004, 2004 to 2005, and 1998 to 2005.

Habitat Class				Habitat Class			
2001	1998	Acreages	Hectares	2004	2001	Acreages	Hectares
water	water	5019	2031	water	water	3773	1502
unchanged land	unchanged land	8460	3442	unchanged land	unchanged land	10006	4071
intertidal flat	water	254	103	intertidal flat	water	370	150
marsh	water	1410	570	marsh	water	2469	999
barrier vegetation	water	0	0	barrier vegetation	water	0	0
bare land	water	34	14	bare land	water	2	1
beach	water	8	3	beach	water	47	19
water	intertidal flat	544	220	water	intertidal flat	169	68
water	marsh	973	394	water	marsh	362	146
water	barrier vegetation	0	0	water	barrier vegetation	0	0
water	bare land	22	9	water	bare land	22	9
water	beach	41	17	water	beach	27	11
water	structure	5	2	water	structure	8	3
intertidal flat	marsh	44	18	intertidal flat	marsh	235	95
intertidal flat	barrier vegetation	0	0	intertidal flat	barrier vegetation	0	0
intertidal flat	bare land	0	0	intertidal flat	bare land	15	6
intertidal flat	beach	8	3	intertidal flat	beach	9	4
marsh	intertidal flat	690	279	marsh	intertidal flat	96	39
marsh	barrier vegetation	0	0	marsh	barrier vegetation	0	0
marsh	bare land	49	20	marsh	bare land	292	118
marsh	beach	25	10	marsh	beach	25	10
barrier vegetation	intertidal flat	0	0	barrier vegetation	intertidal flat	0	0
barrier vegetation	marsh	0	0	barrier vegetation	marsh	0	0
barrier vegetation	bare land	0	0	barrier vegetation	bare land	0	0
barrier vegetation	beach	0	0	barrier vegetation	beach	0	0
bare land	intertidal flat	9	4	bare land	intertidal flat	0	0
bare land	marsh	265	107	bare land	marsh	33	13
bare land	barrier vegetation	0	0	bare land	barrier vegetation	0	0
bare land	beach	0	0	bare land	beach	0	0
beach	intertidal flat	40	16	beach	intertidal flat	10	4
beach	marsh	14	6	beach	marsh	15	6
beach	barrier vegetation	0	0	beach	barrier vegetation	0	0
beach	bare land	0	0	beach	bare land	0	0
rip rap	rip rap	3	1	rip rap	rip rap	3	1
structure	structure	918	371	structure	structure	846	343
	analysis extent	18833	7663		analysis extent	18833	7663

Table 10, continued.

Habitat Class				Habitat Class			
2005	2004	Acreages	Hectares	2005	1998	Acreages	Hectares
water	water	3850	1413	water	water	4148	1498
unchanged land	unchanged land	10595	4311	unchanged land	unchanged land	8277	3368
intertidal flat	water	412	167	intertidal flat	water	863	349
marsh	water	336	136	marsh	water	2105	852
barrier vegetation	water	0	0	barrier vegetation	water	0	0
bare land	water	11	4	bare land	water	31	13
beach	water	48	19	beach	water	23	9
water	intertidal flat	387	157	water	intertidal flat	191	77
water	marsh	100	41	water	marsh	69	28
water	barrier vegetation	0	0	water	barrier vegetation	0	0
water	bare land	0	0	water	bare land	1	0
water	beach	8	3	water	beach	23	9
water	structure	11	4	water	structure	11	4
intertidal flat	marsh	1828	740	intertidal flat	marsh	1219	493
intertidal flat	barrier vegetation	0	0	intertidal flat	barrier vegetation	0	0
intertidal flat	bare land	6	2	intertidal flat	bare land	18	7
intertidal flat	beach	62	25	intertidal flat	beach	41	17
marsh	intertidal flat	252	102	marsh	intertidal flat	843	341
marsh	barrier vegetation	0	0	marsh	barrier vegetation	0	0
marsh	bare land	31	13	marsh	bare land	77	31
marsh	beach	4	1	marsh	beach	13	5
barrier vegetation	intertidal flat	0	0	barrier vegetation	intertidal flat	0	0
barrier vegetation	marsh	0	0	barrier vegetation	marsh	0	0
barrier vegetation	bare land	0	0	barrier vegetation	bare land	0	0
barrier vegetation	beach	0	0	barrier vegetation	beach	0	0
bare land	intertidal flat	15	6	bare land	intertidal flat	10	4
bare land	marsh	209	85	bare land	marsh	184	75
bare land	barrier vegetation	0	0	bare land	barrier vegetation	0	0
bare land	beach	1	0	bare land	beach	1	0
beach	intertidal flat	25	10	beach	intertidal flat	91	37
beach	marsh	204	83	beach	marsh	161	65
beach	barrier vegetation	0	0	beach	barrier vegetation	0	0
beach	bare land	0	0	beach	bare land	0	0
rip rap	rip rap	1	1	rip rap	rip rap	1	1
structure	structure	435	176	structure	structure	431	174
	analysis extent	18833	7663		analysis extent	18833	7663

Table 11. Habitat change statistics for Hackberry Beach in the western Chenier Plain for the time periods 1998 to 2001, 2001 to 2004, 2004 to 2005, and 1998 to 2001.

Habitat Class				Habitat Class			
2001	1998	Acreages	Hectares	2004	2001	Acreages	Hectares
water	water	3865	1576	water	water	2810	1137
unchanged land	unchanged land	11219	4565	unchanged land	unchanged land	13483	5486
intertidal flat	water	160	65	intertidal flat	water	559	226
marsh	water	1554	629	marsh	water	3062	1239
barrier vegetation	water	0	0	barrier vegetation	water	0	0
bare land	water	102	41	bare land	water	1	1
beach	water	0	0	beach	water	5	2
water	intertidal flat	1162	470	water	intertidal flat	167	67
water	marsh	1360	550	water	marsh	358	145
water	barrier vegetation	0	0	water	barrier vegetation	0	0
water	bare land	11	4	water	bare land	22	9
water	beach	9	4	water	beach	53	21
water	structure	5	2	water	structure	5	2
intertidal flat	marsh	23	9	intertidal flat	marsh	218	88
intertidal flat	barrier vegetation	0	0	intertidal flat	barrier vegetation	0	0
intertidal flat	bare land	0	0	intertidal flat	bare land	44	18
intertidal flat	beach	1	0	intertidal flat	beach	6	2
marsh	intertidal flat	1301	526	marsh	intertidal flat	43	17
marsh	barrier vegetation	0	0	marsh	barrier vegetation	0	0
marsh	bare land	151	61	marsh	bare land	637	258
marsh	beach	8	3	marsh	beach	10	4
barrier vegetation	intertidal flat	0	0	barrier vegetation	intertidal flat	0	0
barrier vegetation	marsh	0	0	barrier vegetation	marsh	0	0
barrier vegetation	bare land	0	0	barrier vegetation	bare land	0	0
barrier vegetation	beach	0	0	barrier vegetation	beach	0	0
bare land	intertidal flat	37	15	bare land	intertidal flat	0	0
bare land	marsh	544	220	bare land	marsh	20	8
bare land	barrier vegetation	0	0	bare land	barrier vegetation	0	0
bare land	beach	0	0	bare land	beach	0	0
beach	intertidal flat	4	2	beach	intertidal flat	0	0
beach	marsh	8	3	beach	marsh	57	23
beach	barrier vegetation	0	0	beach	barrier vegetation	0	0
beach	bare land	0	0	beach	bare land	1	0
rip rap	rip rap	0	0	rip rap	rip rap	0	0
structure	structure	373	151	structure	structure	334	135
	analysis extent	21895	8909		analysis extent	21895	8909

Table 11, continued.

Habitat Class				Habitat Class			
2005	2004	Acreages	Hectares	2005	1998	Acreages	Hectares
water	water	3016	1141	water	water	3507	1324
unchanged land	unchanged land	11452	4660	unchanged land	unchanged land	9796	3986
intertidal flat	water	390	158	intertidal flat	water	1172	474
marsh	water	171	69	marsh	water	1246	504
barrier vegetation	water	0	0	barrier vegetation	water	0	0
bare land	water	5	2	bare land	water	14	6
beach	water	26	11	beach	water	12	5
water	intertidal flat	374	152	water	intertidal flat	799	323
water	marsh	2046	828	water	marsh	1119	453
water	barrier vegetation	0	0	water	barrier vegetation	0	0
water	bare land	1	1	water	bare land	18	7
water	beach	0	0	water	beach	31	12
water	structure	8	3	water	structure	15	6
intertidal flat	marsh	3794	1535	intertidal flat	marsh	2544	1030
intertidal flat	barrier vegetation	0	0	intertidal flat	barrier vegetation	0	0
intertidal flat	bare land	11	4	intertidal flat	bare land	60	24
intertidal flat	beach	36	15	intertidal flat	beach	39	16
marsh	intertidal flat	183	74	marsh	intertidal flat	1046	423
marsh	barrier vegetation	0	0	marsh	barrier vegetation	0	0
marsh	bare land	13	5	marsh	bare land	109	44
marsh	beach	11	5	marsh	beach	4	2
barrier vegetation	intertidal flat	0	0	barrier vegetation	intertidal flat	0	0
barrier vegetation	marsh	0	0	barrier vegetation	marsh	0	0
barrier vegetation	bare land	0	0	barrier vegetation	bare land	0	0
barrier vegetation	beach	0	0	barrier vegetation	beach	0	0
bare land	intertidal flat	7	3	bare land	intertidal flat	12	5
bare land	marsh	111	45	bare land	marsh	87	35
bare land	barrier vegetation	0	0	bare land	barrier vegetation	0	0
bare land	beach	0	0	bare land	beach	0	0
beach	intertidal flat	6	3	beach	intertidal flat	17	7
beach	marsh	167	68	beach	marsh	186	75
beach	barrier vegetation	0	0	beach	barrier vegetation	0	0
beach	bare land	0	0	beach	bare land	0	0
rip rap	rip rap	0	0	rip rap	rip rap	0	0
structure	structure	64	26	structure	structure	64	26
	analysis extent	21896	8909		analysis extent	21895	8909

Teche (Raccoon Point to Wine Island Pass)

Table 12. The amount of land gained, lost, and unchanged between the time periods 1996 to 2002 and 2002 to 2004 in the Teche delta, which includes Raccoon, Whiskey, Trinity, and East Islands.

Raccoon Island					
Habitat Classes	2002 from 1996		Habitat Classes	2004 from 2002	
	Acres	Hectares		Acres	Hectares
Water	1390	563	Water	1405	569
Land Gain	151	61	Land Gain	24	10
Land Loss	41	17	Land Loss	72	29
Land Unchanged	144	58	Land Unchanged	223	90
Analysis Area	1726	699	Analysis Area	1724	698

Whiskey Island					
Habitat Classes	2002 from 1996		Habitat Classes	2004 from 2002	
	Acres	Hectares		Acres	Hectares
Water	3919	1586	Water	4079	1651
Land Gain	468	189	Land Gain	8	3
Land Loss	166	67	Land Loss	258	105
Land Unchanged	384	155	Land Unchanged	593	240
Analysis Area	4936	1998	Analysis Area	4938	1998

Trinity Island					
Habitat Classes	2002 from 1996		Habitat Classes	2004 from 2002	
	Acres	Hectares		Acres	Hectares
Water	2586	1047	Water	2725	1103
Land Gain	279	113	Land Gain	23	9
Land Loss	162	66	Land Loss	153	62
Land Unchanged	598	242	Land Unchanged	725	293
Analysis Area	3626	1467	Analysis Area	3625	1467

East Island					
Habitat Classes	2002 from 1996		Habitat Classes	2004 from 2002	
	Acres	Hectares		Acres	Hectares
Water	2049	829	Water	2092	847
Land Gain	289	117	Land Gain	13	5
Land Loss	54	22	Land Loss	92	37
Land Unchanged	205	83	Land Unchanged	402	163
Analysis Area	2598	1051	Analysis Area	2599	1052

Table 13. The amount of land gained, lost, and unchanged between the time periods 2004 to 2005 and 1996 to 2005 in the Teche delta, which includes Raccoon, Whiskey, Trinity, and East Islands.

Raccoon Island					
Habitat Classes	2005 from 2004		Habitat Classes	2005 from 1996	
	Acres	Hectares		Acres	Hectares
Water	1372	555	Water	1347	545
Land Gain	106	43	Land Gain	194	79
Land Loss	55	22	Land Loss	81	33
Land Unchanged	192	78	Land Unchanged	104	42
Analysis Area	1725	698	Analysis Area	1725	698

Whiskey Island					
Habitat Classes	2005 from 2004		Habitat Classes	2005 from 1996	
	Acres	Hectares		Acres	Hectares
Water	4077	1650	Water	3924	1588
Land Gain	260	105	Land Gain	463	187
Land Loss	44	18	Land Loss	196	79
Land Unchanged	557	225	Land Unchanged	354	143
Analysis Area	4938	1998	Analysis Area	4936	1998

Trinity Island					
Habitat Classes	2005 from 2004		Habitat Classes	2005 from 1996	
	Acres	Hectares		Acres	Hectares
Water	2731	1105	Water	2568	1039
Land Gain	147	59	Land Gain	296	120
Land Loss	33	13	Land Loss	195	79
Land Unchanged	714	289	Land Unchanged	565	229
Analysis Area	3625	1467	Analysis Area	3624	1467

East Island					
Habitat Classes	2005 from 2004		Habitat Classes	2005 from 1996	
	Acres	Hectares		Acres	Hectares
Water	2113	855	Water	2100	850
Land Gain	73	30	Land Gain	239	97
Land Loss	88	36	Land Loss	98	40
Land Unchanged	327	132	Land Unchanged	161	65
Analysis Area	2601	1053	Analysis Area	2598	1051

Table 14. The total amount of land in each habitat class from Raccoon and Whiskey Islands in the Teche delta for the time periods 1996 and 2002.

Raccoon Island					
Habitat Classes	1996		Habitat Classes	2002	
	Acres	Hectares		Acres	Hectares
Water	1542	624	Water	1432	580
Intertidal Flat	57	23	Intertidal Flat	218	88
Marsh	69	28	Marsh	42	17
Barrier Vegetation	0	0	Barrier Vegetation	0	0
Bare Land	5	2	Bare Land	5	2
Beach	53	21	Beach	28	11
Rip Rap	0	0	Rip Rap	2	1
Structure	0	0	Structure	0	0
Analysis Extent	1727	699	Analysis Extent	1727	699
Whiskey Island					
Habitat Classes	1996		Habitat Classes	2002	
	Acres	Hectares		Acres	Hectares
Water	4388	1776	Water	4086	1654
Intertidal Flat	73	30	Intertidal Flat	321	130
Marsh	304	123	Marsh	270	109
Barrier Vegetation	3	1	Barrier Vegetation	8	3
Bare Land	2	1	Bare Land	188	76
Beach	165	67	Beach	64	26
Rip Rap	0	0	Rip Rap	0	0
Structure	1	0	Structure	1	0
Analysis Extent	4937	1998	Analysis Extent	4937	1998

Table 15. The total amount of land in each habitat class from Raccoon and Whiskey Islands in the Teche delta for the time periods 2004 and 2005.

Raccoon Island					
Habitat Classes	2004		Habitat Classes	2005	
	Acres	Hectares		Acres	Hectares
Water	1479	599	Water	1429	578
Intertidal Flat	140	57	Intertidal Flat	189	76
Marsh	54	22	Marsh	12	5
Barrier Vegetation	0	0	Barrier Vegetation	0	0
Bare Land	25	10	Bare Land	0	0
Beach	26	10	Beach	95	38
Rip Rap	2	1	Rip Rap	2	1
Structure	0	0	Structure	0	0
Analysis Extent	1726	699	Analysis Extent	1727	699
Whiskey Island					
Habitat Classes	2004		Habitat Classes	2005	
	Acres	Hectares		Acres	Hectares
Water	4337	1755	Water	4121	1668
Intertidal Flat	64	26	Intertidal Flat	252	102
Marsh	269	109	Marsh	247	100
Barrier Vegetation	55	22	Barrier Vegetation	44	18
Bare Land	101	41	Bare Land	0	0
Beach	111	45	Beach	273	110
Rip Rap	0	0	Rip Rap	0	0
Structure	1	0	Structure	1	0
Analysis Extent	4937	1998	Analysis Extent	4938	1998

Table 16. The total amount of land in each habitat class from Trinity and East Islands in the Teche delta for the time periods 1996 and 2002.

Trinity Island					
Habitat Classes	1996		Habitat Classes	2002	
	Acres	Hectares		Acres	Hectares
Water	2866	1160	Water	2748	1112
Intertidal Flat	143	58	Intertidal Flat	215	87
Marsh	408	165	Marsh	236	95
Barrier Vegetation	6	3	Barrier Vegetation	47	19
Bare Land	14	6	Bare Land	323	131
Beach	188	76	Beach	57	23
Rip Rap	0	0	Rip Rap	0	0
Structure	0	0	Structure	0	0
Analysis Extent	3626	1467	Analysis Extent	3625	1467
East Island					
Habitat Classes	1996		Habitat Classes	2002	
	Acres	Hectares		Acres	Hectares
Water	2339	947	Water	2104	851
Intertidal Flat	66	27	Intertidal Flat	205	83
Marsh	40	16	Marsh	9	4
Barrier Vegetation	16	7	Barrier Vegetation	26	11
Bare Land	1	0	Bare Land	199	80
Beach	136	55	Beach	55	22
Rip Rap	0	0	Rip Rap	0	0
Structure	0	0	Structure	0	0
Analysis Extent	2598	1051	Analysis Extent	2598	1051

Table 17. The total amount of land in each habitat class from Trinity and East Islands in the Teche delta for the time periods 2004 and 2005.

Trinity Island					
Habitat Classes	2004		Habitat Classes	2005	
	Acres	Hectares		Acres	Hectares
Water	2878	1165	Water	2764	1119
Intertidal Flat	96	39	Intertidal Flat	280	113
Marsh	235	95	Marsh	225	91
Barrier Vegetation	165	67	Barrier Vegetation	11	4
Bare Land	234	95	Bare Land	83	34
Beach	17	7	Beach	262	106
Rip Rap	0	0	Rip Rap	0	0
Structure	0	0	Structure	0	0
Analysis Extent	3625	1467	Analysis Extent	3625	1467
East Island					
Habitat Classes	2004		Habitat Classes	2005	
	Acres	Hectares		Acres	Hectares
Water	2183	884	Water	2198	890
Intertidal Flat	191	77	Intertidal Flat	109	44
Marsh	52	21	Marsh	22	9
Barrier Vegetation	54	22	Barrier Vegetation	9	4
Bare Land	31	13	Bare Land	71	29
Beach	87	35	Beach	189	76
Rip Rap	0	0	Rip Rap	0	0
Structure	0	0	Structure	0	0
Analysis Extent	2598	1051	Analysis Extent	2598	1051

Table 18. Habitat change statistics for Raccoon Island in the Teche delta for the time periods 1996 to 2002, 2002 to 2004, 2004 to 2005, and 1996 to 2005.

Habitat Class				Habitat Class			
2002	1996	Acreages	Hectares	2004	2002	Acreages	Hectares
water	water	1391	563	water	water	1407	570
unchanged land	unchanged land	78	32	unchanged land	unchanged land	160	65
intertidal flat	water	134	54	intertidal flat	water	16	7
marsh	water	1	1	marsh	water	2	1
barrier vegetation	water	0	0	barrier vegetation	water	0	0
bare land	water	0	0	bare land	water	3	1
beach	water	14	5	beach	water	3	1
water	intertidal flat	11	5	water	intertidal flat	70	28
water	marsh	6	3	water	marsh	1	0
water	barrier vegetation	0	0	water	barrier vegetation	0	0
water	bare land	0	0	water	bare land	0	0
water	beach	23	9	water	beach	2	1
water	structure	0	0	water	structure	0	0
intertidal flat	marsh	23	9	intertidal flat	marsh	1	1
intertidal flat	barrier vegetation	0	0	intertidal flat	barrier vegetation	0	0
intertidal flat	bare land	2	1	intertidal flat	bare land	0	0
intertidal flat	beach	22	9	intertidal flat	beach	7	3
marsh	intertidal flat	2	1	marsh	intertidal flat	7	3
marsh	barrier vegetation	0	0	marsh	barrier vegetation	0	0
marsh	bare land	1	0	marsh	bare land	4	2
marsh	beach	3	1	marsh	beach	4	2
barrier vegetation	intertidal flat	0	0	barrier vegetation	intertidal flat	0	0
barrier vegetation	marsh	0	0	barrier vegetation	marsh	0	0
barrier vegetation	bare land	0	0	barrier vegetation	bare land	0	0
barrier vegetation	beach	0	0	barrier vegetation	beach	0	0
bare land	intertidal flat	0	0	bare land	intertidal flat	15	6
bare land	marsh	3	1	bare land	marsh	2	1
bare land	barrier vegetation	0	0	bare land	barrier vegetation	0	0
bare land	beach	0	0	bare land	beach	6	2
beach	intertidal flat	6	3	beach	intertidal flat	11	5
beach	marsh	3	1	beach	marsh	2	1
beach	barrier vegetation	0	0	beach	barrier vegetation	0	0
beach	bare land	0	0	beach	bare land	0	0
rip rap	rip rap	2	1	rip rap	rip rap	2	1
structure	structure	0	0	structure	structure	0	0
	analysis extent	1726	699		analysis extent	1726	699

Table 18, continued.

Habitat Class				Habitat Class			
2005	2004	Acreages	Hectares	2005	1996	Acreages	Hectares
water	water	1374	556	water	water	1347	545
unchanged land	unchanged land	91	37	unchanged land	unchanged land	40	16
intertidal flat	water	81	33	intertidal flat	water	129	52
marsh	water	0	0	marsh	water	1	0
barrier vegetation	water	0	0	barrier vegetation	water	0	0
bare land	water	0	0	bare land	water	0	0
beach	water	25	10	beach	water	63	26
water	intertidal flat	33	14	water	intertidal flat	26	10
water	marsh	5	2	water	marsh	20	8
water	barrier vegetation	0	0	water	barrier vegetation	0	0
water	bare land	7	3	water	bare land	1	0
water	beach	10	4	water	beach	33	14
water	structure	0	0	water	structure	0	0
intertidal flat	marsh	17	7	intertidal flat	marsh	21	9
intertidal flat	barrier vegetation	0	0	intertidal flat	barrier vegetation	0	0
intertidal flat	bare land	11	4	intertidal flat	bare land	2	1
intertidal flat	beach	8	3	intertidal flat	beach	14	5
marsh	intertidal flat	0	0	marsh	intertidal flat	1	0
marsh	barrier vegetation	0	0	marsh	barrier vegetation	0	0
marsh	bare land	1	0	marsh	bare land	0	0
marsh	beach	0	0	marsh	beach	0	0
barrier vegetation	intertidal flat	0	0	barrier vegetation	intertidal flat	0	0
barrier vegetation	marsh	0	0	barrier vegetation	marsh	0	0
barrier vegetation	bare land	0	0	barrier vegetation	bare land	0	0
barrier vegetation	beach	0	0	barrier vegetation	beach	0	0
bare land	intertidal flat	0	0	bare land	intertidal flat	0	0
bare land	marsh	0	0	bare land	marsh	0	0
bare land	barrier vegetation	0	0	bare land	barrier vegetation	0	0
bare land	beach	0	0	bare land	beach	0	0
beach	intertidal flat	34	14	beach	intertidal flat	7	3
beach	marsh	21	8	beach	marsh	17	7
beach	barrier vegetation	0	0	beach	barrier vegetation	0	0
beach	bare land	7	3	beach	bare land	2	1
rip rap	rip rap	2	1	rip rap	rip rap	2	1
structure	structure	0	0	structure	structure	0	0
	analysis extent	1726	699		analysis extent	1726	699

Table 19. Habitat change statistics for Whiskey Island in the Teche delta for the time periods 1996 to 2002, 2002 to 2004, 2004 to 2005, and 1996 to 2005.

Habitat Class				Habitat Class			
2002	1996	Acreages	Hectares	2004	2002	Acreages	Hectares
water	water	3920	1587	water	water	4078	1650
unchanged land	unchanged land	257	104	unchanged land	unchanged land	410	166
intertidal flat	water	264	107	intertidal flat	water	1	0
marsh	water	32	13	marsh	water	1	0
barrier vegetation	water	2	1	barrier vegetation	water	0	0
bare land	water	128	52	bare land	water	1	0
beach	water	40	16	beach	water	6	2
water	intertidal flat	39	16	water	intertidal flat	224	91
water	marsh	6	3	water	marsh	18	7
water	barrier vegetation	1	1	water	barrier vegetation	1	1
water	bare land	0	0	water	bare land	6	3
water	beach	119	48	water	beach	8	3
water	structure	0	0	water	structure	0	0
intertidal flat	marsh	17	7	intertidal flat	marsh	0	0
intertidal flat	barrier vegetation	0	0	intertidal flat	barrier vegetation	0	0
intertidal flat	bare land	0	0	intertidal flat	bare land	1	1
intertidal flat	beach	26	11	intertidal flat	beach	18	7
marsh	intertidal flat	2	1	marsh	intertidal flat	11	4
marsh	barrier vegetation	1	0	marsh	barrier vegetation	4	2
marsh	bare land	1	1	marsh	bare land	7	3
marsh	beach	1	0	marsh	beach	1	0
barrier vegetation	intertidal flat	0	0	barrier vegetation	intertidal flat	3	1
barrier vegetation	marsh	4	2	barrier vegetation	marsh	2	1
barrier vegetation	bare land	0	0	barrier vegetation	bare land	47	19
barrier vegetation	beach	0	0	barrier vegetation	beach	2	1
bare land	intertidal flat	16	6	bare land	intertidal flat	11	4
bare land	marsh	34	14	bare land	marsh	2	1
bare land	barrier vegetation	0	0	bare land	barrier vegetation	1	0
bare land	beach	9	4	bare land	beach	2	1
beach	intertidal flat	3	1	beach	intertidal flat	29	12
beach	marsh	10	4	beach	marsh	3	1
beach	barrier vegetation	0	0	beach	barrier vegetation	0	0
beach	bare land	0	0	beach	bare land	40	16
rip rap	rip rap	0	0	rip rap	rip rap	0	0
structure	structure	1	0	structure	structure	1	0
	analysis extent	4937	1998		analysis extent	4937	1998

Table 19, continued.

Habitat Class				Habitat Class			
2005	2004	Acreages	Hectares	2005	1996	Acreages	Hectares
water	water	4077	1650	water	water	3925	1589
unchanged land	unchanged land	330	133	unchanged land	unchanged land	230	93
intertidal flat	water	189	77	intertidal flat	water	208	84
marsh	water	16	6	marsh	water	36	15
barrier vegetation	water	2	1	barrier vegetation	water	37	15
bare land	water	0	0	bare land	water	0	0
beach	water	53	21	beach	water	182	74
water	intertidal flat	3	1	water	intertidal flat	44	18
water	marsh	7	3	water	marsh	18	7
water	barrier vegetation	2	1	water	barrier vegetation	1	1
water	bare land	3	1	water	bare land	0	0
water	beach	29	12	water	beach	133	54
water	structure	0	0	water	structure	0	0
intertidal flat	marsh	11	4	intertidal flat	marsh	21	9
intertidal flat	barrier vegetation	5	2	intertidal flat	barrier vegetation	1	0
intertidal flat	bare land	11	4	intertidal flat	bare land	0	0
intertidal flat	beach	16	6	intertidal flat	beach	15	6
marsh	intertidal flat	1	0	marsh	intertidal flat	2	1
marsh	barrier vegetation	3	1	marsh	barrier vegetation	1	0
marsh	bare land	2	1	marsh	bare land	1	1
marsh	beach	0	0	marsh	beach	0	0
barrier vegetation	intertidal flat	0	0	barrier vegetation	intertidal flat	2	1
barrier vegetation	marsh	0	0	barrier vegetation	marsh	5	2
barrier vegetation	bare land	15	6	barrier vegetation	bare land	0	0
barrier vegetation	beach	4	2	barrier vegetation	beach	0	0
bare land	intertidal flat	0	0	bare land	intertidal flat	0	0
bare land	marsh	0	0	bare land	marsh	0	0
bare land	barrier vegetation	0	0	bare land	barrier vegetation	0	0
bare land	beach	0	0	bare land	beach	0	0
beach	intertidal flat	39	16	beach	intertidal flat	19	8
beach	marsh	26	11	beach	marsh	54	22
beach	barrier vegetation	23	9	beach	barrier vegetation	0	0
beach	bare land	70	28	beach	bare land	1	0
rip rap	rip rap	0	0	rip rap	rip rap	0	0
structure	structure	1	0	structure	structure	1	0
	analysis extent	4938	1998		analysis extent	4938	1998

Table 20. Habitat change statistics for Trinity Island in the Teche delta for the time periods 1996 to 2002, 2002 to 2004, 2004 to 2005, and 1996 to 2005.

Habitat Class				Habitat Class			
2002	1996	Acreages	Hectares	2004	2002	Acreages	Hectares
water	water	2586	1047	water	water	2725	1103
unchanged land	unchanged land	263	106	unchanged land	unchanged land	484	196
intertidal flat	water	113	46	intertidal flat	water	13	5
marsh	water	11	4	marsh	water	1	0
barrier vegetation	water	9	3	barrier vegetation	water	1	1
bare land	water	134	54	bare land	water	7	3
beach	water	13	5	beach	water	0	0
water	intertidal flat	45	18	water	intertidal flat	107	43
water	marsh	16	6	water	marsh	20	8
water	barrier vegetation	3	1	water	barrier vegetation	3	1
water	bare land	2	1	water	bare land	9	4
water	beach	97	39	water	beach	14	5
water	structure	0	0	water	structure	0	0
intertidal flat	marsh	28	11	intertidal flat	marsh	6	2
intertidal flat	barrier vegetation	1	1	intertidal flat	barrier vegetation	0	0
intertidal flat	bare land	2	1	intertidal flat	bare land	2	1
intertidal flat	beach	36	15	intertidal flat	beach	11	4
marsh	intertidal flat	15	6	marsh	intertidal flat	12	5
marsh	barrier vegetation	1	0	marsh	barrier vegetation	15	6
marsh	bare land	2	1	marsh	bare land	4	2
marsh	beach	2	1	marsh	beach	1	1
barrier vegetation	intertidal flat	4	2	barrier vegetation	intertidal flat	7	3
barrier vegetation	marsh	26	10	barrier vegetation	marsh	7	3
barrier vegetation	bare land	4	2	barrier vegetation	bare land	118	48
barrier vegetation	beach	4	2	barrier vegetation	beach	9	4
bare land	intertidal flat	35	14	bare land	intertidal flat	23	9
bare land	marsh	119	48	bare land	marsh	1	1
bare land	barrier vegetation	1	0	bare land	barrier vegetation	6	2
bare land	beach	31	12	bare land	beach	12	5
beach	intertidal flat	10	4	beach	intertidal flat	2	1
beach	marsh	15	6	beach	marsh	0	0
beach	barrier vegetation	0	0	beach	barrier vegetation	0	0
beach	bare land	1	0	beach	bare land	4	2
rip rap	rip rap	0	0	rip rap	rip rap	0	0
structure	structure	0	0	structure	structure	0	0
	analysis extent	3626	1467		analysis extent	3625	1467

Table 20, continued.

Habitat Class				Habitat Class			
2005	2004	Acreages	Hectares	2005	1996	Acreages	Hectares
water	water	2731	1105	water	water	2569	1040
unchanged land	unchanged land	270	109	unchanged land	unchanged land	246	100
intertidal flat	water	109	44	intertidal flat	water	131	53
marsh	water	20	8	marsh	water	19	8
barrier vegetation	water	0	0	barrier vegetation	water	4	2
bare land	water	0	0	bare land	water	30	12
beach	water	17	7	beach	water	111	45
water	intertidal flat	11	4	water	intertidal flat	44	18
water	marsh	11	4	water	marsh	39	16
water	barrier vegetation	2	1	water	barrier vegetation	4	2
water	bare land	8	3	water	bare land	3	1
water	beach	1	1	water	beach	105	43
water	structure	0	0	water	structure	0	0
intertidal flat	marsh	47	19	intertidal flat	marsh	80	32
intertidal flat	barrier vegetation	30	12	intertidal flat	barrier vegetation	1	0
intertidal flat	bare land	35	14	intertidal flat	bare land	2	1
intertidal flat	beach	11	4	intertidal flat	beach	35	14
marsh	intertidal flat	11	4	marsh	intertidal flat	19	8
marsh	barrier vegetation	21	8	marsh	barrier vegetation	1	0
marsh	bare land	6	3	marsh	bare land	4	2
marsh	beach	0	0	marsh	beach	7	3
barrier vegetation	intertidal flat	0	0	barrier vegetation	intertidal flat	1	0
barrier vegetation	marsh	1	0	barrier vegetation	marsh	5	2
barrier vegetation	bare land	3	1	barrier vegetation	bare land	0	0
barrier vegetation	beach	0	0	barrier vegetation	beach	0	0
bare land	intertidal flat	0	0	bare land	intertidal flat	11	4
bare land	marsh	3	1	bare land	marsh	38	15
bare land	barrier vegetation	36	14	bare land	barrier vegetation	0	0
bare land	beach	0	0	bare land	beach	2	1
beach	intertidal flat	27	11	beach	intertidal flat	38	15
beach	marsh	7	3	beach	marsh	71	29
beach	barrier vegetation	69	28	beach	barrier vegetation	1	0
beach	bare land	137	56	beach	bare land	3	1
rip rap	rip rap	0	0	rip rap	rip rap	0	0
structure	structure	0	0	structure	structure	0	0
	analysis extent	3625	1467		analysis extent	3625	1467

Table 21. Habitat change statistics for East Island in the Teche delta for the time periods 1996 to 2002, 2002 to 2004, 2004 to 2005, and 1996 to 2005.

Habitat Class				Habitat Class			
2002	1996	Acreages	Hectares	2004	2002	Acreages	Hectares
water	water	2050	830	water	water	2092	847
unchanged land	unchanged land	30	12	unchanged land	unchanged land	158	64
intertidal flat	water	148	60	intertidal flat	water	9	4
marsh	water	2	1	marsh	water	0	0
barrier vegetation	water	8	3	barrier vegetation	water	0	0
bare land	water	96	39	bare land	water	0	0
beach	water	35	14	beach	water	4	1
water	intertidal flat	6	2	water	intertidal flat	76	31
water	marsh	9	4	water	marsh	1	0
water	barrier vegetation	4	1	water	barrier vegetation	3	1
water	bare land	0	0	water	bare land	7	3
water	beach	35	14	water	beach	6	2
water	structure	0	0	water	structure	0	0
intertidal flat	marsh	3	1	intertidal flat	marsh	2	1
intertidal flat	barrier vegetation	2	1	intertidal flat	barrier vegetation	6	3
intertidal flat	bare land	0	0	intertidal flat	bare land	48	19
intertidal flat	beach	41	17	intertidal flat	beach	28	11
marsh	intertidal flat	1	0	marsh	intertidal flat	9	4
marsh	barrier vegetation	1	0	marsh	barrier vegetation	14	6
marsh	bare land	0	0	marsh	bare land	21	9
marsh	beach	1	0	marsh	beach	2	1
barrier vegetation	intertidal flat	5	2	barrier vegetation	intertidal flat	0	0
barrier vegetation	marsh	3	1	barrier vegetation	marsh	0	0
barrier vegetation	bare land	0	0	barrier vegetation	bare land	51	21
barrier vegetation	beach	8	3	barrier vegetation	beach	0	0
bare land	intertidal flat	40	16	bare land	intertidal flat	0	0
bare land	marsh	17	7	bare land	marsh	0	0
bare land	barrier vegetation	6	2	bare land	barrier vegetation	0	0
bare land	beach	39	16	bare land	beach	0	0
beach	intertidal flat	4	2	beach	intertidal flat	21	8
beach	marsh	2	1	beach	marsh	0	0
beach	barrier vegetation	2	1	beach	barrier vegetation	1	0
beach	bare land	0	0	beach	bare land	42	17
rip rap	rip rap	0	0	rip rap	rip rap	0	0
structure	structure	0	0	structure	structure	0	0
	analysis extent	2599	1052		analysis extent	2599	1052

Table 21, continued.

Habitat Class				Habitat Class			
2005	2004	Acreages	Hectares	2005	1996	Acreages	Hectares
water	water	2111	854	water	water	2101	850
unchanged land	unchanged land	116	47	unchanged land	unchanged land	61	25
intertidal flat	water	52	21	intertidal flat	water	86	35
marsh	water	4	2	marsh	water	6	3
barrier vegetation	water	0	0	barrier vegetation	water	4	2
bare land	water	1	1	bare land	water	36	15
beach	water	16	6	beach	water	107	43
water	intertidal flat	42	17	water	intertidal flat	14	6
water	marsh	9	3	water	marsh	16	6
water	barrier vegetation	6	2	water	barrier vegetation	8	3
water	bare land	1	0	water	bare land	0	0
water	beach	32	13	water	beach	59	24
water	structure	0	0	water	structure	0	0
intertidal flat	marsh	5	2	intertidal flat	marsh	3	1
intertidal flat	barrier vegetation	2	1	intertidal flat	barrier vegetation	3	1
intertidal flat	bare land	0	0	intertidal flat	bare land	0	0
intertidal flat	beach	12	5	intertidal flat	beach	12	5
marsh	intertidal flat	7	3	marsh	intertidal flat	5	2
marsh	barrier vegetation	0	0	marsh	barrier vegetation	0	0
marsh	bare land	0	0	marsh	bare land	0	0
marsh	beach	0	0	marsh	beach	8	3
barrier vegetation	intertidal flat	1	0	barrier vegetation	intertidal flat	3	1
barrier vegetation	marsh	1	1	barrier vegetation	marsh	1	0
barrier vegetation	bare land	1	1	barrier vegetation	bare land	0	0
barrier vegetation	beach	0	0	barrier vegetation	beach	1	0
bare land	intertidal flat	10	4	bare land	intertidal flat	23	9
bare land	marsh	6	2	bare land	marsh	6	3
bare land	barrier vegetation	32	13	bare land	barrier vegetation	1	0
bare land	beach	1	0	bare land	beach	5	2
beach	intertidal flat	93	38	beach	intertidal flat	16	6
beach	marsh	22	9	beach	marsh	10	4
beach	barrier vegetation	9	3	beach	barrier vegetation	3	1
beach	bare land	8	3	beach	bare land	0	0
rip rap	rip rap	0	0	rip rap	rip rap	0	0
structure	structure	0	0	structure	structure	0	0
	analysis extent	2599	1052		analysis extent	2599	1052

Lafourche delta (Cat Island Pass to Quatre Bayou Pass)

Table 22. The amount of land gained, lost, and unchanged between the time periods 1996 to 2002 and 2002 to 2004 in the Teche delta, which includes Timbalier Island, East Timbalier Island, Caminada Headland, Grand Isle, and Grand Terre Island.

Timbalier Island					
Habitat Classes	2002 from 1996		Habitat Classes	2004 from 2002	
	Acres	Hectares		Acres	Hectares
Water	7805	3159	Water	7860	3181
Land Gain	410	166	Land Gain	184	74
Land Loss	239	97	Land Loss	253	102
Land Unchanged	1069	433	Land Unchanged	1226	496
Analysis Area	9523	3854	Analysis Area	9523	3854

East Timbalier Island					
Habitat Classes	2002 from 1996		Habitat Classes	2004 from 2002	
	Acres	Hectares		Acres	Hectares
Water	2739	1108	Water	2791	1130
Land Gain	239	97	Land Gain	61	25
Land Loss	113	46	Land Loss	144	58
Land Unchanged	242	98	Land Unchanged	338	137
Analysis Area	3334	1349	Analysis Area	3334	1349

Caminada Headland					
Habitat Classes	2002 from 1996		Habitat Classes	2004 from 2002	
	Acres	Hectares		Acres	Hectares
Water	18888	7644	Water	19944	8071
Land Gain	1990	805	Land Gain	422	171
Land Loss	1477	598	Land Loss	2137	865
Land Unchanged	8108	3281	Land Unchanged	7961	3222
Analysis Area	30463	12328	Analysis Area	30463	12328

Grand Isle					
Habitat Classes	2002 from 1996		Habitat Classes	2004 from 2002	
	Acres	Hectares		Acres	Hectares
Water	5538	2241	Water	5614	2272
Land Gain	242	98	Land Gain	50	20
Land Loss	126	51	Land Loss	108	44
Land Unchanged	2194	888	Land Unchanged	2328	942
Analysis Area	8100	3278	Analysis Area	8100	3278

Grand Terre					
Habitat Classes	2002 from 1998		Habitat Classes	2004 from 2002	
	Acres	Hectares		Acres	Hectares
Water	5266	2131	Water	5448	2205
Land Gain	304	123	Land Gain	29	12
Land Loss	210	85	Land Loss	328	133
Land Unchanged	1063	430	Land Unchanged	1039	420
Analysis Area	6843	2769	Analysis Area	6843	2769

Table 23. The amount of land gained, lost, and unchanged between the time periods 2004 to 2005 and 1996 to 2005 in the Teche delta, which includes Timbalier Island, East Timbalier Island, Caminada Headland, Grand Isle, and Grand Terre Island.

Timbalier Island					
Habitat Classes	2005 from 2004		Habitat Classes	2005 from 1996	
	Acres	Hectares		Acres	Hectares
Water	7780	3148	Water	7709	3120
Land Gain	333	135	Land Gain	506	205
Land Loss	207	84	Land Loss	278	112
Land Unchanged	1203	487	Land Unchanged	1031	417
Analysis Area	9523	3854	Analysis Area	9523	3854

East Timbalier Island					
Habitat Classes	2005 from 2004		Habitat Classes	2005 from 1996	
	Acres	Hectares		Acres	Hectares
Water	2773	1122	Water	2695	1091
Land Gain	162	65	Land Gain	283	115
Land Loss	92	37	Land Loss	170	69
Land Unchanged	307	124	Land Unchanged	186	75
Analysis Area	3334	1349	Analysis Area	3334	1349

Caminada Headland					
Habitat Classes	2005 from 2004		Habitat Classes	2005 from 1996	
	Acres	Hectares		Acres	Hectares
Water	19910	8057	Water	19013	7694
Land Gain	2170	878	Land Gain	1867	756
Land Loss	411	166	Land Loss	1308	529
Land Unchanged	7972	3226	Land Unchanged	8275	3349
Analysis Area	30463	12328	Analysis Area	30463	12328

Grand Isle					
Habitat Classes	2005 from 2004		Habitat Classes	2005 from 1996	
	Acres	Hectares		Acres	Hectares
Water	5630	2278	Water	5533	2239
Land Gain	92	37	Land Gain	247	100
Land Loss	91	37	Land Loss	188	76
Land Unchanged	2287	925	Land Unchanged	2131	863
Analysis Area	8100	3278	Analysis Area	8100	3278

Grand Terre					
Habitat Classes	2005 from 2004		Habitat Classes	2005 from 1998	
	Acres	Hectares		Acres	Hectares
Water	5693	2304	Water	5332	2158
Land Gain	82	33	Land Gain	239	97
Land Loss	96	39	Land Loss	458	185
Land Unchanged	972	393	Land Unchanged	815	330
Analysis Area	6843	2769	Analysis Area	6843	2769

Table 24. The total amount of land in each habitat class from Timbalier Island, East Timbalier Island, and the Caminada Headland in the Lafourche delta for the time periods 1996 and 2002.

Timbalier Island					
Habitat Classes	1996		Habitat Classes	2002	
	Acres	Hectares		Acres	Hectares
Water	8821	3570	Water	8047	3257
Intertidal Flat	358	145	Intertidal Flat	520	210
Marsh	806	326	Marsh	837	339
Barrier Vegetation	0	0	Barrier Vegetation	3	1
Bare Land	14	6	Bare Land	22	9
Beach	127	51	Beach	95	39
Rip Rap	2	1	Rip Rap	1	0
Structure	1	1	Structure	1	1
Analysis Extent	10129	4099	Analysis Extent	9526	3855
East Timbalier Island					
Habitat Classes	1996		Habitat Classes	2002	
	Acres	Hectares		Acres	Hectares
Water	2982	1207	Water	2855	1155
Intertidal Flat	114	46	Intertidal Flat	231	93
Marsh	136	55	Marsh	133	54
Barrier Vegetation	11	5	Barrier Vegetation	3	1
Bare Land	2	1	Bare Land	35	14
Beach	77	31	Beach	64	26
Rip Rap	6	2	Rip Rap	8	3
Structure	10	4	Structure	8	3
Analysis Extent	3338	1351	Analysis Extent	3336	1350
Caminada Headland					
Habitat Classes	1996		Habitat Classes	2002	
	Acres	Hectares		Acres	Hectares
Water	20902	8459	Water	20370	8243
Intertidal Flat	398	161	Intertidal Flat	1293	523
Marsh	7802	3157	Marsh	7520	3043
Barrier Vegetation	0	0	Barrier Vegetation	0	0
Bare Land	294	119	Bare Land	173	70
Beach	387	157	Beach	421	171
Rip Rap	0	0	Rip Rap	0	0
Structure	705	285	Structure	690	279
Analysis Extent	30488	12338	Analysis Extent	30468	12330

Table 25. The total amount of land in each habitat class from Timbalier Island, East Timbalier Island, and the Caminada Headland in the Lafourche delta for the time periods 2004 and 2005.

Timbalier Island					
Habitat Classes	2004		Habitat Classes	2005	
	Acres	Hectares		Acres	Hectares
Water	8116	3284	Water	7983	3230
Intertidal Flat	393	159	Intertidal Flat	638	258
Marsh	800	324	Marsh	569	230
Barrier Vegetation	21	8	Barrier Vegetation	0	0
Bare Land	127	51	Bare Land	74	30
Beach	67	27	Beach	253	102
Rip Rap	1	1	Rip Rap	1	1
Structure	1	1	Structure	1	1
Analysis Extent	9526	3855	Analysis Extent	9519	3852
East Timbalier Island					
Habitat Classes	2004		Habitat Classes	2005	
	Acres	Hectares		Acres	Hectares
Water	2937	1189	Water	2864	1159
Intertidal Flat	166	67	Intertidal Flat	246	99
Marsh	131	53	Marsh	20	8
Barrier Vegetation	2	1	Barrier Vegetation	0	0
Bare Land	30	12	Bare Land	0	0
Beach	60	24	Beach	133	54
Rip Rap	3	1	Rip Rap	3	1
Structure	6	3	Structure	6	3
Analysis Extent	3336	1350	Analysis Extent	3272	1324
Caminada Headland					
Habitat Classes	2004		Habitat Classes	2005	
	Acres	Hectares		Acres	Hectares
Water	11083	4485	Water	20323	8225
Intertidal Flat	360	146	Intertidal Flat	1718	695
Marsh	6573	2660	Marsh	6843	2769
Barrier Vegetation	61	25	Barrier Vegetation	0	0
Bare Land	280	113	Bare Land	113	46
Beach	462	187	Beach	514	208
Rip Rap	0	0	Rip Rap	0	0
Structure	647	262	Structure	954	386
Analysis Extent	19466	7878	Analysis Extent	30465	12329

Table 26. The total amount of land in each habitat class from Grand Isle and Grand Terre Island in the Lafourche delta for the time periods 1996 and 2002.

Grand Isle					
Habitat Classes	1996		Habitat Classes	2002	
	Acres	Hectares		Acres	Hectares
Water	5787	2342	Water	5666	2293
Intertidal Flat	5	2	Intertidal Flat	178	72
Marsh	987	399	Marsh	966	391
Barrier Vegetation	197	80	Barrier Vegetation	93	38
Bare Land	58	23	Bare Land	10	4
Beach	116	47	Beach	80	32
Rip Rap	8	3	Rip Rap	13	5
Structure	948	384	Structure	1096	443
Analysis Extent	8106	3280	Analysis Extent	8103	3279
Grand Terre					
Habitat Classes	1998		Habitat Classes	2002	
	Acres	Hectares		Acres	Hectares
Water	5568	2253	Water	5476	2216
Intertidal Flat	358	145	Intertidal Flat	464	188
Marsh	835	338	Marsh	825	334
Barrier Vegetation	20	8	Barrier Vegetation	0	0
Bare Land	18	7	Bare Land	3	1
Beach	43	18	Beach	64	26
Rip Rap	0	0	Rip Rap	0	0
Structure	0	0	Structure	10	4
Analysis Extent	6841	2769	Analysis Extent	6843	2769

Table 27. The total amount of land in each habitat class from Grand Isle and Grand Terre Island in the Lafourche delta for the time periods 2004 and 2005.

Grand Isle					
Habitat Classes	2004		Habitat Classes	2005	
	Acres	Hectares		Acres	Hectares
Water	5726	2317	Water	5722	2315
Intertidal Flat	126	51	Intertidal Flat	136	55
Marsh	638	258	Marsh	779	315
Barrier Vegetation	106	43	Barrier Vegetation	135	54
Bare Land	302	122	Bare Land	45	18
Beach	81	33	Beach	170	69
Rip Rap	13	5	Rip Rap	14	6
Structure	1112	450	Structure	1100	445
Analysis Extent	8104	3280	Analysis Extent	8100	3278
Grand Terre					
Habitat Classes	2004		Habitat Classes	2005	
	Acres	Hectares		Acres	Hectares
Water	5776	2337	Water	5789	2343
Intertidal Flat	42	17	Intertidal Flat	121	49
Marsh	700	283	Marsh	748	303
Barrier Vegetation	195	79	Barrier Vegetation	89	36
Bare Land	31	12	Bare Land	2	1
Beach	89	36	Beach	83	34
Rip Rap	0	0	Rip Rap	0	0
Structure	11	4	Structure	11	4
Analysis Extent	6843	2769	Analysis Extent	6843	2769

Table 28. Habitat change statistics for Timbalier Island in the Lafourche delta for the time periods 1996 to 2002, 2002 to 2004, 2004 to 2005, and 1996 to 2005.

Habitat Class				Habitat Class			
2002	1996	Acreages	Hectares	2004	2002	Acreages	Hectares
water	water	7805	3159	water	water	7860	3181
unchanged land	unchanged land	807	327	unchanged land	unchanged land	952	385
intertidal flat	water	319	129	intertidal flat	water	146	59
marsh	water	71	29	marsh	water	17	7
barrier vegetation	water	0	0	barrier vegetation	water	0	0
bare land	water	5	2	bare land	water	18	7
beach	water	15	6	beach	water	3	1
water	intertidal flat	128	52	water	intertidal flat	210	85
water	marsh	50	20	water	marsh	34	14
water	barrier vegetation	0	0	water	barrier vegetation	0	0
water	bare land	0	0	water	bare land	2	1
water	beach	60	24	water	beach	7	3
water	structure	0	0	water	structure	0	0
intertidal flat	marsh	53	21	intertidal flat	marsh	35	14
intertidal flat	barrier vegetation	0	0	intertidal flat	barrier vegetation	0	0
intertidal flat	bare land	1	0	intertidal flat	bare land	3	1
intertidal flat	beach	25	10	intertidal flat	beach	17	7
marsh	intertidal flat	76	31	marsh	intertidal flat	32	13
marsh	barrier vegetation	0	0	marsh	barrier vegetation	2	1
marsh	bare land	9	4	marsh	bare land	11	4
marsh	beach	20	8	marsh	beach	18	7
barrier vegetation	intertidal flat	0	0	barrier vegetation	intertidal flat	3	1
barrier vegetation	marsh	2	1	barrier vegetation	marsh	3	1
barrier vegetation	bare land	0	0	barrier vegetation	bare land	0	0
barrier vegetation	beach	0	0	barrier vegetation	beach	14	6
bare land	intertidal flat	5	2	bare land	intertidal flat	59	24
bare land	marsh	10	4	bare land	marsh	37	15
bare land	barrier vegetation	0	0	bare land	barrier vegetation	0	0
bare land	beach	0	0	bare land	beach	7	3
beach	intertidal flat	27	11	beach	intertidal flat	24	10
beach	marsh	30	12	beach	marsh	7	3
beach	barrier vegetation	0	0	beach	barrier vegetation	0	0
beach	bare land	2	1	beach	bare land	0	0
rip rap	rip rap	1	0	rip rap	rip rap	1	0
structure	structure	1	1	structure	structure	1	1
	analysis extent	9523	3854		analysis extent	9522	3853

Table 28, continued.

Habitat Class				Habitat Class			
2005	2004	Acreages	Hectares	2005	1996	Acreages	Hectares
water	water	7779	3148	water	water	7709	3120
unchanged land	unchanged land	811	328	unchanged land	unchanged land	600	243
intertidal flat	water	307	124	intertidal flat	water	345	140
marsh	water	18	7	marsh	water	39	16
barrier vegetation	water	0	0	barrier vegetation	water	0	0
bare land	water	0	0	bare land	water	34	14
beach	water	9	4	beach	water	88	36
water	intertidal flat	153	62	water	intertidal flat	151	61
water	marsh	34	14	water	marsh	62	25
water	barrier vegetation	2	1	water	barrier vegetation	0	0
water	bare land	12	5	water	bare land	0	0
water	beach	5	2	water	beach	64	26
water	structure	0	0	water	structure	0	0
intertidal flat	marsh	155	63	intertidal flat	marsh	176	71
intertidal flat	barrier vegetation	2	1	intertidal flat	barrier vegetation	0	0
intertidal flat	bare land	13	5	intertidal flat	bare land	1	1
intertidal flat	beach	8	3	intertidal flat	beach	24	10
marsh	intertidal flat	8	3	marsh	intertidal flat	43	17
marsh	barrier vegetation	1	0	marsh	barrier vegetation	0	0
marsh	bare land	1	0	marsh	bare land	2	1
marsh	beach	0	0	marsh	beach	9	4
barrier vegetation	intertidal flat	0	0	barrier vegetation	intertidal flat	0	0
barrier vegetation	marsh	0	0	barrier vegetation	marsh	0	0
barrier vegetation	bare land	0	0	barrier vegetation	bare land	0	0
barrier vegetation	beach	0	0	barrier vegetation	beach	0	0
bare land	intertidal flat	2	1	bare land	intertidal flat	21	8
bare land	marsh	9	4	bare land	marsh	16	7
bare land	barrier vegetation	0	0	bare land	barrier vegetation	0	0
bare land	beach	0	0	bare land	beach	0	0
beach	intertidal flat	77	31	beach	intertidal flat	51	21
beach	marsh	60	24	beach	marsh	77	31
beach	barrier vegetation	15	6	beach	barrier vegetation	0	0
beach	bare land	38	16	beach	bare land	8	3
rip rap	rip rap	1	0	rip rap	rip rap	1	0
structure	structure	1	1	structure	structure	1	1
	analysis extent	9522	3853		analysis extent	9522	3854

Table 29. Habitat change statistics for East Timbalier Island in the Lafourche delta for the time periods 1996 to 2002, 2002 to 2004, 2004 to 2005, and 1996 to 2005.

Habitat Class				Habitat Class			
2002	1996	Acreages	Hectares	2004	2002	Acreages	Hectares
water	water	2747	1112	water	water	2791	1130
unchanged land	unchanged land	125	51	unchanged land	unchanged land	203	82
intertidal flat	water	161	65	intertidal flat	water	47	19
marsh	water	28	11	marsh	water	4	2
barrier vegetation	water	0	0	barrier vegetation	water	0	0
bare land	water	17	7	bare land	water	0	0
beach	water	26	10	beach	water	8	3
water	intertidal flat	42	17	water	intertidal flat	109	44
water	marsh	22	9	water	marsh	10	4
water	barrier vegetation	2	1	water	barrier vegetation	0	0
water	bare land	0	0	water	bare land	1	0
water	beach	40	16	water	beach	16	7
water	structure	3	1	water	structure	3	1
intertidal flat	marsh	15	6	intertidal flat	marsh	8	3
intertidal flat	barrier vegetation	1	0	intertidal flat	barrier vegetation	0	0
intertidal flat	bare land	0	0	intertidal flat	bare land	9	4
intertidal flat	beach	18	7	intertidal flat	beach	25	10
marsh	intertidal flat	17	7	marsh	intertidal flat	21	9
marsh	barrier vegetation	5	2	marsh	barrier vegetation	2	1
marsh	bare land	1	0	marsh	bare land	6	2
marsh	beach	3	1	marsh	beach	2	1
barrier vegetation	intertidal flat	0	0	barrier vegetation	intertidal flat	0	0
barrier vegetation	marsh	1	0	barrier vegetation	marsh	0	0
barrier vegetation	bare land	0	0	barrier vegetation	bare land	0	0
barrier vegetation	beach	0	0	barrier vegetation	beach	1	0
bare land	intertidal flat	9	4	bare land	intertidal flat	6	2
bare land	marsh	6	2	bare land	marsh	10	4
bare land	barrier vegetation	1	0	bare land	barrier vegetation	0	0
bare land	beach	2	1	bare land	beach	1	0
beach	intertidal flat	11	4	beach	intertidal flat	17	7
beach	marsh	13	5	beach	marsh	10	4
beach	barrier vegetation	1	1	beach	barrier vegetation	1	0
beach	bare land	0	0	beach	bare land	5	2
rip rap	rip rap	6	2	rip rap	rip rap	8	3
structure	structure	10	4	structure	structure	8	3
	analysis extent	3334	1349		analysis extent	3334	1349

Table 29, continued.

Habitat Class				Habitat Class			
2005	2004	Acreages	Hectares	2005	1996	Acreages	Hectares
water	water	2772	1122	water	water	2705	1095
unchanged land	unchanged land	152	62	unchanged land	unchanged land	80	32
intertidal flat	water	134	54	intertidal flat	water	190	77
marsh	water	3	1	marsh	water	17	7
barrier vegetation	water	0	0	barrier vegetation	water	0	0
bare land	water	0	0	bare land	water	0	0
beach	water	24	10	beach	water	73	30
water	intertidal flat	61	25	water	intertidal flat	54	22
water	marsh	11	4	water	marsh	47	19
water	barrier vegetation	1	0	water	barrier vegetation	4	2
water	bare land	2	1	water	bare land	0	0
water	beach	17	7	water	beach	54	22
water	structure	0	0	water	structure	5	2
intertidal flat	marsh	23	9	intertidal flat	marsh	21	8
intertidal flat	barrier vegetation	1	0	intertidal flat	barrier vegetation	2	1
intertidal flat	bare land	8	3	intertidal flat	bare land	0	0
intertidal flat	beach	18	7	intertidal flat	beach	10	4
marsh	intertidal flat	2	1	marsh	intertidal flat	10	4
marsh	barrier vegetation	0	0	marsh	barrier vegetation	3	1
marsh	bare land	6	2	marsh	bare land	1	0
marsh	beach	2	1	marsh	beach	1	0
barrier vegetation	intertidal flat	0	0	barrier vegetation	intertidal flat	0	0
barrier vegetation	marsh	0	0	barrier vegetation	marsh	0	0
barrier vegetation	bare land	0	0	barrier vegetation	bare land	0	0
barrier vegetation	beach	0	0	barrier vegetation	beach	0	0
bare land	intertidal flat	0	0	bare land	intertidal flat	0	0
bare land	marsh	0	0	bare land	marsh	0	0
bare land	barrier vegetation	0	0	bare land	barrier vegetation	0	0
bare land	beach	0	0	bare land	beach	0	0
beach	intertidal flat	40	16	beach	intertidal flat	26	11
beach	marsh	30	12	beach	marsh	20	8
beach	barrier vegetation	1	0	beach	barrier vegetation	2	1
beach	bare land	15	6	beach	bare land	0	0
rip rap	rip rap	3	1	rip rap	rip rap	3	1
structure	structure	6	3	structure	structure	6	3
	analysis extent	3332	1349		analysis extent	3337	1350

Table 30. Habitat change statistics for the Caminada Headland in the Lafourche delta for the time periods 1996 to 2002, 2002 to 2004, 2004 to 2005, and 1996 to 2005.

Habitat Class				Habitat Class			
2002	1996	Acreages	Hectares	2004	2002	Acreages	Hectares
water	water	19000	7689	water	water	19905	8055
unchanged land	unchanged land	6473	2620	unchanged land	unchanged land	6537	2645
intertidal flat	water	777	314	intertidal flat	water	103	42
marsh	water	948	384	marsh	water	247	100
barrier vegetation	water	0	0	barrier vegetation	water	3	1
bare land	water	41	16	bare land	water	26	10
beach	water	78	32	beach	water	32	13
water	intertidal flat	211	85	water	intertidal flat	771	312
water	marsh	961	389	water	marsh	1260	510
water	barrier vegetation	0	0	water	barrier vegetation	0	0
water	bare land	31	13	water	bare land	13	5
water	beach	135	55	water	beach	81	33
water	structure	25	10	water	structure	12	5
intertidal flat	marsh	312	126	intertidal flat	marsh	14	6
intertidal flat	barrier vegetation	0	0	intertidal flat	barrier vegetation	0	0
intertidal flat	bare land	10	4	intertidal flat	bare land	1	0
intertidal flat	beach	105	42	intertidal flat	beach	46	19
marsh	intertidal flat	63	26	marsh	intertidal flat	148	60
marsh	barrier vegetation	0	0	marsh	barrier vegetation	0	0
marsh	bare land	213	86	marsh	bare land	86	35
marsh	beach	25	10	marsh	beach	37	15
barrier vegetation	intertidal flat	0	0	barrier vegetation	intertidal flat	7	3
barrier vegetation	marsh	0	0	barrier vegetation	marsh	29	12
barrier vegetation	bare land	0	0	barrier vegetation	bare land	9	4
barrier vegetation	beach	0	0	barrier vegetation	beach	12	5
bare land	intertidal flat	1	0	bare land	intertidal flat	63	26
bare land	marsh	87	35	bare land	marsh	101	41
bare land	barrier vegetation	0	0	bare land	barrier vegetation	0	0
bare land	beach	2	1	bare land	beach	0	0
beach	intertidal flat	34	14	beach	intertidal flat	106	43
beach	marsh	188	76	beach	marsh	60	24
beach	barrier vegetation	0	0	beach	barrier vegetation	0	0
beach	bare land	0	0	beach	bare land	15	6
rip rap	rip rap	0	0	rip rap	rip rap	0	0
structure	structure	705	285	structure	structure	690	279
	analysis extent	30425	12313		analysis extent	30413	12308

Table 30, continued.

Habitat Class				Habitat Class			
2005	2004	Acreages	Hectares	2005	1996	Acreages	Hectares
water	water	20168	8162	water	water	19036	7704
unchanged land	unchanged land	6183	2502	unchanged land	unchanged land	6013	2433
intertidal flat	water	1138	461	intertidal flat	water	727	294
marsh	water	921	373	marsh	water	719	291
barrier vegetation	water	0	0	barrier vegetation	water	0	0
bare land	water	10	4	bare land	water	8	3
beach	water	61	25	beach	water	146	59
water	intertidal flat	244	99	water	intertidal flat	290	117
water	marsh	55	22	water	marsh	671	272
water	barrier vegetation	5	2	water	barrier vegetation	0	0
water	bare land	1	0	water	bare land	36	14
water	beach	99	40	water	beach	247	100
water	structure	7	3	water	structure	21	8
intertidal flat	marsh	382	155	intertidal flat	marsh	872	353
intertidal flat	barrier vegetation	11	5	intertidal flat	barrier vegetation	0	0
intertidal flat	bare land	2	1	intertidal flat	bare land	23	9
intertidal flat	beach	108	44	intertidal flat	beach	47	19
marsh	intertidal flat	3	1	marsh	intertidal flat	38	15
marsh	barrier vegetation	18	7	marsh	barrier vegetation	0	0
marsh	bare land	24	10	marsh	bare land	192	78
marsh	beach	6	2	marsh	beach	18	7
barrier vegetation	intertidal flat	0	0	barrier vegetation	intertidal flat	0	0
barrier vegetation	marsh	0	0	barrier vegetation	marsh	0	0
barrier vegetation	bare land	0	0	barrier vegetation	bare land	0	0
barrier vegetation	beach	0	0	barrier vegetation	beach	0	0
bare land	intertidal flat	0	0	bare land	intertidal flat	0	0
bare land	marsh	82	33	bare land	marsh	69	28
bare land	barrier vegetation	6	2	bare land	barrier vegetation	0	0
bare land	beach	10	4	bare land	beach	2	1
beach	intertidal flat	38	15	beach	intertidal flat	22	9
beach	marsh	160	65	beach	marsh	270	109
beach	barrier vegetation	19	8	beach	barrier vegetation	0	0
beach	bare land	0	0	beach	bare land	2	1
rip rap	rip rap	0	0	rip rap	rip rap	0	0
structure	structure	647	262	structure	structure	954	386
	analysis extent	30408	12306		analysis extent	30422	12311

Table 31. Habitat change statistics for Grand Isle in the Lafourche delta for the time periods 1996 to 2002, 2002 to 2004, 2004 to 2005, and 1996 to 2005.

Habitat Class				Habitat Class			
2002	1996	Acreages	Hectares	2004	2002	Acreages	Hectares
water	water	5664	2292	water	water	5612	2271
unchanged land	unchanged land	847	343	unchanged land	unchanged land	765	310
intertidal flat	water	65	26	intertidal flat	water	21	9
marsh	water	139	56	marsh	water	9	4
barrier vegetation	water	3	1	barrier vegetation	water	1	0
bare land	water	1	0	bare land	water	1	1
beach	water	7	3	beach	water	2	1
water	intertidal flat	1	1	water	intertidal flat	35	14
water	marsh	51	21	water	marsh	66	27
water	barrier vegetation	17	7	water	barrier vegetation	1	0
water	bare land	4	2	water	bare land	1	0
water	beach	42	17	water	beach	1	1
water	structure	8	3	water	structure	5	2
intertidal flat	marsh	28	11	intertidal flat	marsh	3	1
intertidal flat	barrier vegetation	39	16	intertidal flat	barrier vegetation	1	1
intertidal flat	bare land	2	1	intertidal flat	bare land	0	0
intertidal flat	beach	42	17	intertidal flat	beach	8	3
marsh	intertidal flat	2	1	marsh	intertidal flat	7	3
marsh	barrier vegetation	26	10	marsh	barrier vegetation	4	2
marsh	bare land	20	8	marsh	bare land	3	1
marsh	beach	1	0	marsh	beach	1	0
barrier vegetation	intertidal flat	0	0	barrier vegetation	intertidal flat	5	2
barrier vegetation	marsh	7	3	barrier vegetation	marsh	12	5
barrier vegetation	bare land	1	0	barrier vegetation	bare land	0	0
barrier vegetation	beach	5	2	barrier vegetation	beach	34	14
bare land	intertidal flat	0	0	bare land	intertidal flat	2	1
bare land	marsh	5	2	bare land	marsh	244	99
bare land	barrier vegetation	0	0	bare land	barrier vegetation	26	10
bare land	beach	0	0	bare land	beach	2	1
beach	intertidal flat	0	0	beach	intertidal flat	36	15
beach	marsh	5	2	beach	marsh	3	1
beach	barrier vegetation	41	17	beach	barrier vegetation	6	3
beach	bare land	0	0	beach	bare land	1	0
rip rap	rip rap	8	3	rip rap	rip rap	13	5
structure	structure	948	384	structure	structure	1096	443
	analysis extent	8030	3250		analysis extent	8028	3249

Table 31, continued.

Habitat Class				Habitat Class			
2005	2004	Acreages	Hectares	2005	1996	Acreages	Hectares
water	water	5557	2249	water	water	5511	2230
unchanged land	unchanged land	691	280	unchanged land	unchanged land	651	263
intertidal flat	water	26	11	intertidal flat	water	48	20
marsh	water	43	17	marsh	water	118	48
barrier vegetation	water	2	1	barrier vegetation	water	4	2
bare land	water	3	1	bare land	water	3	1
beach	water	13	5	beach	water	39	16
water	intertidal flat	47	19	water	intertidal flat	1	1
water	marsh	20	8	water	marsh	86	35
water	barrier vegetation	2	1	water	barrier vegetation	26	10
water	bare land	10	4	water	bare land	7	3
water	beach	5	2	water	beach	57	23
water	structure	4	2	water	structure	7	3
intertidal flat	marsh	17	7	intertidal flat	marsh	31	13
intertidal flat	barrier vegetation	8	3	intertidal flat	barrier vegetation	27	11
intertidal flat	bare land	8	3	intertidal flat	bare land	3	1
intertidal flat	beach	20	8	intertidal flat	beach	24	10
marsh	intertidal flat	0	0	marsh	intertidal flat	1	1
marsh	barrier vegetation	12	5	marsh	barrier vegetation	32	13
marsh	bare land	176	71	marsh	bare land	10	4
marsh	beach	1	0	marsh	beach	1	0
barrier vegetation	intertidal flat	1	0	barrier vegetation	intertidal flat	0	0
barrier vegetation	marsh	38	15	barrier vegetation	marsh	86	35
barrier vegetation	bare land	73	29	barrier vegetation	bare land	5	2
barrier vegetation	beach	2	1	barrier vegetation	beach	1	1
bare land	intertidal flat	3	1	bare land	intertidal flat	0	0
bare land	marsh	14	5	bare land	marsh	36	14
bare land	barrier vegetation	0	0	bare land	barrier vegetation	1	0
bare land	beach	2	1	bare land	beach	0	0
beach	intertidal flat	19	8	beach	intertidal flat	0	0
beach	marsh	7	3	beach	marsh	16	7
beach	barrier vegetation	65	26	beach	barrier vegetation	82	33
beach	bare land	13	5	beach	bare land	0	0
rip rap	rip rap	13	5	rip rap	rip rap	14	6
structure	structure	1112	450	structure	structure	1100	445
	analysis extent	8027	3249		analysis extent	8030	3250

Table 32. Habitat change statistics for Grand Terre Island in the Lafourche delta for the time periods 1998 to 2002, 2002 to 2004, 2004 to 2005, and 1998 to 2005.

Habitat Class				Habitat Class			
2002	1998	Acreages	Hectares	2004	2002	Acreages	Hectares
water	water	5274	2134	water	water	5448	2205
unchanged land	unchanged land	667	270	unchanged land	unchanged land	646	261
intertidal flat	water	172	70	intertidal flat	water	4	2
marsh	water	117	47	marsh	water	14	6
barrier vegetation	water	0	0	barrier vegetation	water	5	2
bare land	water	2	1	bare land	water	1	1
beach	water	12	5	beach	water	4	2
water	intertidal flat	105	42	water	intertidal flat	265	107
water	marsh	81	33	water	marsh	45	18
water	barrier vegetation	1	0	water	barrier vegetation	0	0
water	bare land	0	0	water	bare land	0	0
water	beach	24	10	water	beach	17	7
water	structure	0	0	water	structure	0	0
intertidal flat	marsh	167	68	intertidal flat	marsh	4	2
intertidal flat	barrier vegetation	6	2	intertidal flat	barrier vegetation	0	0
intertidal flat	bare land	2	1	intertidal flat	bare land	0	0
intertidal flat	beach	11	4	intertidal flat	beach	7	3
marsh	intertidal flat	125	50	marsh	intertidal flat	87	35
marsh	barrier vegetation	7	3	marsh	barrier vegetation	0	0
marsh	bare land	14	6	marsh	bare land	1	0
marsh	beach	5	2	marsh	beach	4	2
barrier vegetation	intertidal flat	0	0	barrier vegetation	intertidal flat	34	14
barrier vegetation	marsh	0	0	barrier vegetation	marsh	145	59
barrier vegetation	bare land	0	0	barrier vegetation	bare land	1	0
barrier vegetation	beach	0	0	barrier vegetation	beach	11	4
bare land	intertidal flat	0	0	bare land	intertidal flat	15	6
bare land	marsh	0	0	bare land	marsh	13	5
bare land	barrier vegetation	0	0	bare land	barrier vegetation	0	0
bare land	beach	0	0	bare land	beach	0	0
beach	intertidal flat	21	9	beach	intertidal flat	37	15
beach	marsh	21	8	beach	marsh	24	10
beach	barrier vegetation	6	3	beach	barrier vegetation	0	0
beach	bare land	1	0	beach	bare land	0	0
rip rap	rip rap	0	0	rip rap	rip rap	0	0
structure	structure	0	0	structure	structure	10	4
	analysis extent	6842	2769		analysis extent	6842	2769

Table 32, continued.

Habitat Class				Habitat Class			
2005	2004	Acreages	Hectares	2005	1998	Acreages	Hectares
water	water	5692	2303	water	water	5330	2157
unchanged land	unchanged land	707	286	unchanged land	unchanged land	519	210
intertidal flat	water	35	14	intertidal flat	water	42	17
marsh	water	41	17	marsh	water	174	70
barrier vegetation	water	1	0	barrier vegetation	water	6	2
bare land	water	0	0	bare land	water	2	1
beach	water	5	2	beach	water	15	6
water	intertidal flat	30	12	water	intertidal flat	203	82
water	marsh	31	12	water	marsh	205	83
water	barrier vegetation	12	5	water	barrier vegetation	11	4
water	bare land	1	0	water	bare land	5	2
water	beach	21	9	water	beach	35	14
water	structure	0	0	water	structure	16	7
intertidal flat	marsh	28	11	intertidal flat	marsh	58	23
intertidal flat	barrier vegetation	8	3	intertidal flat	barrier vegetation	3	1
intertidal flat	bare land	3	1	intertidal flat	bare land	1	0
intertidal flat	beach	38	15	intertidal flat	beach	1	1
marsh	intertidal flat	1	0	marsh	intertidal flat	70	28
marsh	barrier vegetation	79	32	marsh	barrier vegetation	0	0
marsh	bare land	20	8	marsh	bare land	2	1
marsh	beach	4	2	marsh	beach	3	1
barrier vegetation	intertidal flat	0	0	barrier vegetation	intertidal flat	47	19
barrier vegetation	marsh	7	3	barrier vegetation	marsh	24	10
barrier vegetation	bare land	4	2	barrier vegetation	bare land	7	3
barrier vegetation	beach	5	2	barrier vegetation	beach	1	0
bare land	intertidal flat	0	0	bare land	intertidal flat	0	0
bare land	marsh	0	0	bare land	marsh	0	0
bare land	barrier vegetation	0	0	bare land	barrier vegetation	0	0
bare land	beach	0	0	bare land	beach	0	0
beach	intertidal flat	1	1	beach	intertidal flat	20	8
beach	marsh	31	12	beach	marsh	41	17
beach	barrier vegetation	24	10	beach	barrier vegetation	3	1
beach	bare land	1	0	beach	bare land	3	1
rip rap	rip rap	0	0	rip rap	rip rap	0	0
structure	structure	11	4	structure	structure	11	4
	analysis extent	6842	2769		analysis extent	6859	2776

Modern Delta (Quatre Bayou Pass to Sandy Point)

Table 33. The amount of land gained, lost, and unchanged between the time periods 1998 to 2002 and 2002 to 2004 in the Modern delta, which includes the Chaland Headland, Bay Jo Wise, Shell Island, Scofield, and Sandy Point.

Chaland Headland					
Habitat Classes	2002 from 1998		Habitat Classes	2004 from 2002	
	Acres	Hectares		Acres	Hectares
Water	4324	1750	Water	4490	1817
Land Gain	463	187	Land Gain	36	14
Land Loss	202	82	Land Loss	707	286
Land Unchanged	1946	788	Land Unchanged	1702	689
Analysis Area	6935	2807	Analysis Area	6935	2807
Bay Jo Wise					
Habitat Classes	2002 from 1998		Habitat Classes	2004 from 2002	
	Acres	Hectares		Acres	Hectares
Water	1634	661	Water	1656	670
Land Gain	100	40	Land Gain	28	11
Land Loss	50	20	Land Loss	266	108
Land Unchanged	531	215	Land Unchanged	365	148
Analysis Area	2315	937	Analysis Area	2315	937
Shell Island					
Habitat Classes	2002 from 1998		Habitat Classes	2004 from 2002	
	Acres	Hectares		Acres	Hectares
Water	2212	895	Water	2239	906
Land Gain	96	39	Land Gain	75	30
Land Loss	102	41	Land Loss	61	25
Land Unchanged	140	57	Land Unchanged	175	71
Analysis Area	2549	1032	Analysis Area	2549	1032
Scofield					
Habitat Classes	2002 from 1998		Habitat Classes	2004 from 2002	
	Acres	Hectares		Acres	Hectares
Water	7089	2869	Water	6978	2824
Land Gain	249	101	Land Gain	207	84
Land Loss	96	39	Land Loss	110	45
Land Unchanged	635	257	Land Unchanged	773	313
Analysis Area	8068	3265	Analysis Area	8068	3265
Sandy Point					
Habitat Classes	2001 from 1998		Habitat Classes	2004 from 2001	
	Acres	Hectares		Acres	Hectares
Water	3173	1284	Water	2943	1191
Land Gain	512	207	Land Gain	567	229
Land Loss	337	136	Land Loss	122	49
Land Unchanged	1350	546	Land Unchanged	1741	704
Analysis Area	5372	2174	Analysis Area	5372	2174

Table 34. The amount of land gained, lost, and unchanged between the time periods 2004 to 2005 and 1998 to 2005 in the Modern delta, which includes the Chaland Headland, Bay Jo Wise, Shell Island, Scofield, and Sandy Point.

Chaland Headland					
Habitat Classes	2005 from 2004		Habitat Classes	2005 from 1998	
	Acres	Hectares		Acres	Hectares
Water	4806	1945	Water	4473	1810
Land Gain	391	158	Land Gain	314	127
Land Loss	78	32	Land Loss	411	166
Land Unchanged	1660	672	Land Unchanged	1737	703
Analysis Area	6935	2807	Analysis Area	6935	2806
Bay Jo Wise					
Habitat Classes	2005 from 2004		Habitat Classes	2005 from 1998	
	Acres	Hectares		Acres	Hectares
Water	1854	750	Water	1682	681
Land Gain	68	28	Land Gain	52	21
Land Loss	52	21	Land Loss	225	91
Land Unchanged	340	138	Land Unchanged	357	144
Analysis Area	2315	937	Analysis Area	2315	937
Shell Island					
Habitat Classes	2005 from 2004		Habitat Classes	2005 from 1998	
	Acres	Hectares		Acres	Hectares
Water	2287	926	Water	2288	926
Land Gain	12	5	Land Gain	20	8
Land Loss	163	66	Land Loss	162	66
Land Unchanged	87	35	Land Unchanged	80	32
Analysis Area	2549	1032	Analysis Area	2549	1032
Scofield					
Habitat Classes	2005 from 2004		Habitat Classes	2005 from 1998	
	Acres	Hectares		Acres	Hectares
Water	7062	2858	Water	7224	2924
Land Gain	26	10	Land Gain	113	46
Land Loss	509	206	Land Loss	347	140
Land Unchanged	471	191	Land Unchanged	384	155
Analysis Area	8068	3265	Analysis Area	8068	3265
Sandy Point					
Habitat Classes	2005 from 2004		Habitat Classes	2005 from 1998	
	Acres	Hectares		Acres	Hectares
Water	3013	1220	Water	3358	1359
Land Gain	51	21	Land Gain	328	133
Land Loss	747	302	Land Loss	403	163
Land Unchanged	1560	631	Land Unchanged	1284	520
Analysis Area	5372	2174	Analysis Area	5372	2174

Table 35. The total amount of land in each habitat class from the Chaland Headland, Bay Jo Wise, and Shell Island in the Modern delta for the time periods 1998 and 2002.

Chaland Headland					
Habitat Classes	1998		Habitat Classes	2002	
	Acres	Hectares		Acres	Hectares
Water	4800	1942	Water	4526	1832
Intertidal Flat	394	159	Intertidal Flat	761	308
Marsh	1616	654	Marsh	1498	606
Barrier Vegetation	21	9	Barrier Vegetation	32	13
Bare Land	12	5	Bare Land	21	9
Beach	110	44	Beach	96	39
Rip Rap	0	0	Rip Rap	0	0
Structure	0	0	Structure	1	0
Analysis Extent	6953	2814	Analysis Extent	6935	2807
Bay Jo Wise					
Habitat Classes	1998		Habitat Classes	2002	
	Acres	Hectares		Acres	Hectares
Water	1733	701	Water	1684	682
Intertidal Flat	166	67	Intertidal Flat	236	96
Marsh	378	153	Marsh	338	137
Barrier Vegetation	0	0	Barrier Vegetation	0	0
Bare Land	10	4	Bare Land	18	7
Beach	27	11	Beach	38	15
Rip Rap	0	0	Rip Rap	0	0
Structure	0	0	Structure	0	0
Analysis Extent	2315	937	Analysis Extent	2315	937
Shell Island					
Habitat Classes	1998		Habitat Classes	2002	
	Acres	Hectares		Acres	Hectares
Water	2308	934	Water	2314	937
Intertidal Flat	105	42	Intertidal Flat	121	49
Marsh	95	38	Marsh	68	28
Barrier Vegetation	0	0	Barrier Vegetation	0	0
Bare Land	0	0	Bare Land	0	0
Beach	42	17	Beach	47	19
Rip Rap	0	0	Rip Rap	0	0
Structure	0	0	Structure	0	0
Analysis Extent	2550	1032	Analysis Extent	2550	1032

Table 36. The total amount of land in each habitat class from the Chaland Headland, Bay Jo Wise, and Shell Island in the Modern delta for the time periods 2004 and 2005.

Chaland Headland					
Habitat Classes	2004		Habitat Classes	2005	
	Acres	Hectares		Acres	Hectares
Water	5197	2103	Water	4883	1976
Intertidal Flat	72	29	Intertidal Flat	370	150
Marsh	1561	632	Marsh	1499	606
Barrier Vegetation	10	4	Barrier Vegetation	39	16
Bare Land	1	0	Bare Land	6	2
Beach	84	34	Beach	138	56
Rip Rap	0	0	Rip Rap	0	0
Structure	2	1	Structure	0	0
Analysis Extent	6927	2803	Analysis Extent	6934	2806
Bay Jo Wise					
Habitat Classes	2004		Habitat Classes	2005	
	Acres	Hectares		Acres	Hectares
Water	1922	778	Water	1907	772
Intertidal Flat	35	14	Intertidal Flat	68	28
Marsh	334	135	Marsh	315	128
Barrier Vegetation	7	3	Barrier Vegetation	0	0
Bare Land	0	0	Bare Land	0	0
Beach	16	6	Beach	25	10
Rip Rap	0	0	Rip Rap	0	0
Structure	0	0	Structure	0	0
Analysis Extent	2315	937	Analysis Extent	2315	937
Shell Island					
Habitat Classes	2004		Habitat Classes	2005	
	Acres	Hectares		Acres	Hectares
Water	2301	931	Water	2451	992
Intertidal Flat	126	51	Intertidal Flat	18	7
Marsh	77	31	Marsh	54	22
Barrier Vegetation	0	0	Barrier Vegetation	0	0
Bare Land	0	0	Bare Land	0	0
Beach	47	19	Beach	29	12
Rip Rap	0	0	Rip Rap	0	0
Structure	0	0	Structure	0	0
Analysis Extent	2550	1032	Analysis Extent	2551	1032

Table 37. The total amount of land in each habitat class from Scofield and Sandy Point in the Modern delta for the time periods 1998 and 2002.

Scofield					
Habitat Classes	1998		Habitat Classes	2002	
	Acres	Hectares		Acres	Hectares
Water	7337	2969	Water	7187	2908
Intertidal Flat	209	85	Intertidal Flat	387	156
Marsh	464	188	Marsh	412	167
Barrier Vegetation	2	1	Barrier Vegetation	4	2
Bare Land	5	2	Bare Land	12	5
Beach	46	19	Beach	64	26
Rip Rap	4	2	Rip Rap	4	2
Structure	1	0	Structure	1	0
Analysis Extent	8068	3265	Analysis Extent	8070	3266
Sandy Point					
Habitat Classes	1998		Habitat Classes	2001	
	Acres	Hectares		Acres	Hectares
Water	3686	1492	Water	3512	1421
Intertidal Flat	167	68	Intertidal Flat	271	110
Marsh	1493	604	Marsh	1518	614
Barrier Vegetation	0	0	Barrier Vegetation	0	0
Bare Land	4	2	Bare Land	31	13
Beach	22	9	Beach	43	17
Rip Rap	0	0	Rip Rap	0	0
Structure	0	0	Structure	0	0
Analysis Extent	5373	2174	Analysis Extent	5375	2175

Table 38. The total amount of land in each habitat class from Scofield and Sandy Point in the Modern delta for the time periods 2004 and 2005.

Scofield					
Habitat Classes	2004		Habitat Classes	2005	
	Acres	Hectares		Acres	Hectares
Water	7088	2868	Water	7573	3065
Intertidal Flat	467	189	Intertidal Flat	111	45
Marsh	439	178	Marsh	338	137
Barrier Vegetation	0	0	Barrier Vegetation	0	0
Bare Land	5	2	Bare Land	8	3
Beach	65	26	Beach	36	15
Rip Rap	4	2	Rip Rap	4	2
Structure	1	0	Structure	0	0
Analysis Extent	8068	3265	Analysis Extent	8070	3266
Sandy Point					
Habitat Classes	2004		Habitat Classes	2005	
	Acres	Hectares		Acres	Hectares
Water	3065	1240	Water	3764	1523
Intertidal Flat	715	289	Intertidal Flat	394	160
Marsh	1497	606	Marsh	1201	486
Barrier Vegetation	0	0	Barrier Vegetation	0	0
Bare Land	55	22	Bare Land	0	0
Beach	41	17	Beach	16	6
Rip Rap	0	0	Rip Rap	0	0
Structure	0	0	Structure	0	0
Analysis Extent	5373	2174	Analysis Extent	5375	2175

Table 39. Habitat change statistics for the Chaland Headland in the Modern delta for the time periods 1998 to 2002, 2002 to 2004, 2004 to 2005, and 1998 to 2005.

Habitat Class				Habitat Class			
2002	1998	Acreages	Hectares	2004	2002	Acreages	Hectares
water	water	4322	1749	water	water	4490	1817
unchanged land	unchanged land	1398	566	unchanged land	unchanged land	1388	562
intertidal flat	water	353	143	intertidal flat	water	15	6
marsh	water	100	41	marsh	water	11	5
barrier vegetation	water	1	0	barrier vegetation	water	0	0
bare land	water	1	0	bare land	water	0	0
beach	water	10	4	beach	water	8	3
water	intertidal flat	58	23	water	intertidal flat	533	216
water	marsh	108	44	water	marsh	147	60
water	barrier vegetation	4	2	water	barrier vegetation	1	1
water	bare land	1	0	water	bare land	3	1
water	beach	32	13	water	beach	22	9
water	structure	0	0	water	structure	0	0
intertidal flat	marsh	195	79	intertidal flat	marsh	3	1
intertidal flat	barrier vegetation	8	3	intertidal flat	barrier vegetation	0	0
intertidal flat	bare land	3	1	intertidal flat	bare land	0	0
intertidal flat	beach	41	16	intertidal flat	beach	16	7
marsh	intertidal flat	164	66	marsh	intertidal flat	136	55
marsh	barrier vegetation	2	1	marsh	barrier vegetation	29	12
marsh	bare land	6	3	marsh	bare land	18	7
marsh	beach	14	6	marsh	beach	33	13
barrier vegetation	intertidal flat	1	0	barrier vegetation	intertidal flat	5	2
barrier vegetation	marsh	28	11	barrier vegetation	marsh	2	1
barrier vegetation	bare land	1	0	barrier vegetation	bare land	0	0
barrier vegetation	beach	1	0	barrier vegetation	beach	10	4
bare land	intertidal flat	1	0	bare land	intertidal flat	1	0
bare land	marsh	18	7	bare land	marsh	0	0
bare land	barrier vegetation	0	0	bare land	barrier vegetation	0	0
bare land	beach	0	0	bare land	beach	0	0
beach	intertidal flat	6	3	beach	intertidal flat	48	19
beach	marsh	51	21	beach	marsh	12	5
beach	barrier vegetation	7	3	beach	barrier vegetation	0	0
beach	bare land	0	0	beach	bare land	0	0
rip rap	rip rap	0	0	rip rap	rip rap	0	0
structure	structure	0	0	structure	structure	1	0
	analysis extent	6934	2806		analysis extent	6934	2806

Table 39, continued.

Habitat Class				Habitat Class			
2005	2004	Acreages	Hectares	2005	1998	Acreages	Hectares
water	water	4805	1944	water	water	4472	1810
unchanged land	unchanged land	1404	568	unchanged land	unchanged land	1278	517
intertidal flat	water	223	90	intertidal flat	water	160	65
marsh	water	143	58	marsh	water	121	49
barrier vegetation	water	0	0	barrier vegetation	water	3	1
bare land	water	0	0	bare land	water	1	1
beach	water	25	10	beach	water	30	12
water	intertidal flat	36	14	water	intertidal flat	119	48
water	marsh	27	11	water	marsh	211	85
water	barrier vegetation	2	1	water	barrier vegetation	12	5
water	bare land	0	0	water	bare land	2	1
water	beach	13	5	water	beach	66	27
water	structure	1	0	water	structure	16	7
intertidal flat	marsh	81	33	intertidal flat	marsh	109	44
intertidal flat	barrier vegetation	6	3	intertidal flat	barrier vegetation	3	1
intertidal flat	bare land	0	0	intertidal flat	bare land	2	1
intertidal flat	beach	36	15	intertidal flat	beach	13	5
marsh	intertidal flat	3	1	marsh	intertidal flat	177	72
marsh	barrier vegetation	1	0	marsh	barrier vegetation	2	1
marsh	bare land	0	0	marsh	bare land	8	3
marsh	beach	3	1	marsh	beach	14	6
barrier vegetation	intertidal flat	0	0	barrier vegetation	intertidal flat	2	1
barrier vegetation	marsh	34	14	barrier vegetation	marsh	30	12
barrier vegetation	bare land	0	0	barrier vegetation	bare land	0	0
barrier vegetation	beach	2	1	barrier vegetation	beach	3	1
bare land	intertidal flat	1	1	bare land	intertidal flat	0	0
bare land	marsh	3	1	bare land	marsh	3	1
bare land	barrier vegetation	0	0	bare land	barrier vegetation	0	0
bare land	beach	0	0	bare land	beach	0	0
beach	intertidal flat	9	4	beach	intertidal flat	9	4
beach	marsh	66	27	beach	marsh	81	33
beach	barrier vegetation	7	3	beach	barrier vegetation	3	1
beach	bare land	1	0	beach	bare land	1	0
rip rap	rip rap	0	0	rip rap	rip rap	0	0
structure	structure	2	1	structure	structure	0	0
	analysis extent	6935	2806		analysis extent	6950	2813

Table 40. Habitat change statistics for Bay Jo Wise in the Modern delta for the time periods 1998 to 2002, 2002 to 2004, 2004 to 2005, and 1998 to 2005.

Habitat Class				Habitat Class			
2002	1998	Acreages	Hectares	2004	2002	Acreages	Hectares
water	water	1634	661	water	water	1656	670
unchanged land	unchanged land	374	151	unchanged land	unchanged land	306	124
intertidal flat	water	85	34	intertidal flat	water	20	8
marsh	water	11	5	marsh	water	4	2
barrier vegetation	water	0	0	barrier vegetation	water	0	0
bare land	water	1	0	bare land	water	0	0
beach	water	3	1	beach	water	4	2
water	intertidal flat	34	14	water	intertidal flat	207	84
water	marsh	12	5	water	marsh	40	16
water	barrier vegetation	0	0	water	barrier vegetation	0	0
water	bare land	1	0	water	bare land	7	3
water	beach	3	1	water	beach	11	5
water	structure	0	0	water	structure	0	0
intertidal flat	marsh	48	19	intertidal flat	marsh	0	0
intertidal flat	barrier vegetation	0	0	intertidal flat	barrier vegetation	0	0
intertidal flat	bare land	1	0	intertidal flat	bare land	0	0
intertidal flat	beach	17	7	intertidal flat	beach	10	4
marsh	intertidal flat	41	16	marsh	intertidal flat	18	7
marsh	barrier vegetation	0	0	marsh	barrier vegetation	0	0
marsh	bare land	5	2	marsh	bare land	11	4
marsh	beach	1	0	marsh	beach	6	2
barrier vegetation	intertidal flat	0	0	barrier vegetation	intertidal flat	1	0
barrier vegetation	marsh	0	0	barrier vegetation	marsh	1	0
barrier vegetation	bare land	0	0	barrier vegetation	bare land	0	0
barrier vegetation	beach	0	0	barrier vegetation	beach	5	2
bare land	intertidal flat	3	1	bare land	intertidal flat	0	0
bare land	marsh	12	5	bare land	marsh	0	0
bare land	barrier vegetation	0	0	bare land	barrier vegetation	0	0
bare land	beach	0	0	bare land	beach	0	0
beach	intertidal flat	3	1	beach	intertidal flat	5	2
beach	marsh	26	11	beach	marsh	1	1
beach	barrier vegetation	0	0	beach	barrier vegetation	0	0
beach	bare land	0	0	beach	bare land	0	0
rip rap	rip rap	0	0	rip rap	rip rap	0	0
structure	structure	0	0	structure	structure	0	0
	analysis extent	2315	937		analysis extent	2315	937

Table 40, continued.

Habitat Class				Habitat Class			
2005	2004	Acreages	Hectares	2005	1998	Acreages	Hectares
water	water	1854	750	water	water	1682	681
unchanged land	unchanged land	297	120	unchanged land	unchanged land	281	114
intertidal flat	water	30	12	intertidal flat	water	28	11
marsh	water	28	11	marsh	water	10	4
barrier vegetation	water	0	0	barrier vegetation	water	0	0
bare land	water	0	0	bare land	water	0	0
beach	water	10	4	beach	water	13	5
water	intertidal flat	21	9	water	intertidal flat	115	47
water	marsh	17	7	water	marsh	81	33
water	barrier vegetation	4	2	water	barrier vegetation	0	0
water	bare land	0	0	water	bare land	3	1
water	beach	10	4	water	beach	25	10
water	structure	0	0	water	structure	16	6
intertidal flat	marsh	24	10	intertidal flat	marsh	23	9
intertidal flat	barrier vegetation	2	1	intertidal flat	barrier vegetation	0	0
intertidal flat	bare land	0	0	intertidal flat	bare land	1	0
intertidal flat	beach	3	1	intertidal flat	beach	0	0
marsh	intertidal flat	0	0	marsh	intertidal flat	33	13
marsh	barrier vegetation	0	0	marsh	barrier vegetation	0	0
marsh	bare land	0	0	marsh	bare land	6	2
marsh	beach	1	0	marsh	beach	1	0
barrier vegetation	intertidal flat	0	0	barrier vegetation	intertidal flat	0	0
barrier vegetation	marsh	0	0	barrier vegetation	marsh	0	0
barrier vegetation	bare land	0	0	barrier vegetation	bare land	0	0
barrier vegetation	beach	0	0	barrier vegetation	beach	0	0
bare land	intertidal flat	0	0	bare land	intertidal flat	0	0
bare land	marsh	0	0	bare land	marsh	0	0
bare land	barrier vegetation	0	0	bare land	barrier vegetation	0	0
bare land	beach	0	0	bare land	beach	0	0
beach	intertidal flat	4	2	beach	intertidal flat	2	1
beach	marsh	8	3	beach	marsh	9	4
beach	barrier vegetation	1	0	beach	barrier vegetation	0	0
beach	bare land	0	0	beach	bare land	0	0
rip rap	rip rap	0	0	rip rap	rip rap	0	0
structure	structure	0	0	structure	structure	0	0
	analysis extent	2315	937		analysis extent	2331	943

Table 41. Habitat change statistics for Shell Island in the Modern delta for the time periods 1998 to 2002, 2002 to 2004, 2004 to 2005, and 1998 to 2005.

Habitat Class				Habitat Class			
2002	1998	Acreages	Hectares	2004	2002	Acreages	Hectares
water	water	2212	895	water	water	2238	906
unchanged land	unchanged land	91	37	unchanged land	unchanged land	129	52
intertidal flat	water	67	27	intertidal flat	water	56	23
marsh	water	3	1	marsh	water	5	2
barrier vegetation	water	0	0	barrier vegetation	water	0	0
bare land	water	0	0	bare land	water	0	0
beach	water	26	10	beach	water	14	5
water	intertidal flat	58	23	water	intertidal flat	40	16
water	marsh	15	6	water	marsh	2	1
water	barrier vegetation	0	0	water	barrier vegetation	0	0
water	bare land	0	0	water	bare land	0	0
water	beach	29	12	water	beach	18	7
water	structure	0	0	water	structure	0	0
intertidal flat	marsh	14	6	intertidal flat	marsh	7	3
intertidal flat	barrier vegetation	0	0	intertidal flat	barrier vegetation	0	0
intertidal flat	bare land	0	0	intertidal flat	bare land	0	0
intertidal flat	beach	7	3	intertidal flat	beach	6	2
marsh	intertidal flat	10	4	marsh	intertidal flat	10	4
marsh	barrier vegetation	0	0	marsh	barrier vegetation	0	0
marsh	bare land	0	0	marsh	bare land	0	0
marsh	beach	1	0	marsh	beach	6	2
barrier vegetation	intertidal flat	0	0	barrier vegetation	intertidal flat	0	0
barrier vegetation	marsh	0	0	barrier vegetation	marsh	0	0
barrier vegetation	bare land	0	0	barrier vegetation	bare land	0	0
barrier vegetation	beach	0	0	barrier vegetation	beach	0	0
bare land	intertidal flat	0	0	bare land	intertidal flat	0	0
bare land	marsh	0	0	bare land	marsh	0	0
bare land	barrier vegetation	0	0	bare land	barrier vegetation	0	0
bare land	beach	0	0	bare land	beach	0	0
beach	intertidal flat	4	2	beach	intertidal flat	14	5
beach	marsh	12	5	beach	marsh	3	1
beach	barrier vegetation	0	0	beach	barrier vegetation	0	0
beach	bare land	0	0	beach	bare land	0	0
rip rap	rip rap	0	0	rip rap	rip rap	0	0
structure	structure	0	0	structure	structure	0	0
	analysis extent	2549	1031		analysis extent	2549	1031

Table 41, continued.

Habitat Class				Habitat Class			
2005	2004	Acreages	Hectares	2005	1998	Acreages	Hectares
water	water	2287	926	water	water	2287	926
unchanged land	unchanged land	60	24	unchanged land	unchanged land	52	21
intertidal flat	water	6	2	intertidal flat	water	9	4
marsh	water	1	0	marsh	water	2	1
barrier vegetation	water	0	0	barrier vegetation	water	0	0
bare land	water	0	0	bare land	water	0	0
beach	water	6	2	beach	water	9	4
water	intertidal flat	111	45	water	intertidal flat	88	36
water	marsh	20	8	water	marsh	41	17
water	barrier vegetation	0	0	water	barrier vegetation	0	0
water	bare land	0	0	water	bare land	0	0
water	beach	32	13	water	beach	33	13
water	structure	5	2	water	structure	4	2
intertidal flat	marsh	3	1	intertidal flat	marsh	3	1
intertidal flat	barrier vegetation	0	0	intertidal flat	barrier vegetation	0	0
intertidal flat	bare land	0	0	intertidal flat	bare land	0	0
intertidal flat	beach	4	1	intertidal flat	beach	1	0
marsh	intertidal flat	5	2	marsh	intertidal flat	8	3
marsh	barrier vegetation	0	0	marsh	barrier vegetation	0	0
marsh	bare land	0	0	marsh	bare land	0	0
marsh	beach	2	1	marsh	beach	1	1
barrier vegetation	intertidal flat	0	0	barrier vegetation	intertidal flat	0	0
barrier vegetation	marsh	0	0	barrier vegetation	marsh	0	0
barrier vegetation	bare land	0	0	barrier vegetation	bare land	0	0
barrier vegetation	beach	0	0	barrier vegetation	beach	0	0
bare land	intertidal flat	0	0	bare land	intertidal flat	0	0
bare land	marsh	0	0	bare land	marsh	0	0
bare land	barrier vegetation	0	0	bare land	barrier vegetation	0	0
bare land	beach	0	0	bare land	beach	0	0
beach	intertidal flat	5	2	beach	intertidal flat	4	2
beach	marsh	8	3	beach	marsh	10	4
beach	barrier vegetation	0	0	beach	barrier vegetation	0	0
beach	bare land	0	0	beach	bare land	0	0
rip rap	rip rap	0	0	rip rap	rip rap	0	0
structure	structure	0	0	structure	structure	0	0
	analysis extent	2554	1033		analysis extent	2553	1033

Table 42. Habitat change statistics for Scofield in the Modern delta for the time periods 1998 to 2002, 2002 to 2004, 2004 to 2005, and 1998 to 2005.

Habitat Class				Habitat Class			
2002	1998	Acreages	Hectares	2004	2002	Acreages	Hectares
water	water	7087	2868	water	water	6975	2823
unchanged land	unchanged land	367	149	unchanged land	unchanged land	545	221
intertidal flat	water	192	78	intertidal flat	water	149	61
marsh	water	47	19	marsh	water	56	22
barrier vegetation	water	0	0	barrier vegetation	water	0	0
bare land	water	1	0	bare land	water	1	0
beach	water	9	4	beach	water	2	1
water	intertidal flat	42	17	water	intertidal flat	91	37
water	marsh	31	12	water	marsh	16	6
water	barrier vegetation	0	0	water	barrier vegetation	0	0
water	bare land	1	1	water	bare land	0	0
water	beach	21	9	water	beach	3	1
water	structure	0	0	water	structure	0	0
intertidal flat	marsh	93	37	intertidal flat	marsh	82	33
intertidal flat	barrier vegetation	1	1	intertidal flat	barrier vegetation	1	1
intertidal flat	bare land	1	1	intertidal flat	bare land	2	1
intertidal flat	beach	18	7	intertidal flat	beach	15	6
marsh	intertidal flat	79	32	marsh	intertidal flat	47	19
marsh	barrier vegetation	0	0	marsh	barrier vegetation	2	1
marsh	bare land	1	1	marsh	bare land	8	3
marsh	beach	3	1	marsh	beach	21	9
barrier vegetation	intertidal flat	0	0	barrier vegetation	intertidal flat	0	0
barrier vegetation	marsh	4	2	barrier vegetation	marsh	0	0
barrier vegetation	bare land	0	0	barrier vegetation	bare land	0	0
barrier vegetation	beach	0	0	barrier vegetation	beach	0	0
bare land	intertidal flat	1	1	bare land	intertidal flat	1	0
bare land	marsh	10	4	bare land	marsh	2	1
bare land	barrier vegetation	0	0	bare land	barrier vegetation	0	0
bare land	beach	0	0	bare land	beach	0	0
beach	intertidal flat	5	2	beach	intertidal flat	31	12
beach	marsh	45	18	beach	marsh	8	3
beach	barrier vegetation	0	0	beach	barrier vegetation	1	0
beach	bare land	0	0	beach	bare land	0	0
rip rap	rip rap	4	2	rip rap	rip rap	4	2
structure	structure	1	0	structure	structure	1	0
	analysis extent	8066	3264		analysis extent	8066	3264

Table 42, continued.

Habitat Class				Habitat Class			
2005	2004	Acreages	Hectares	2005	1998	Acreages	Hectares
water	water	7059	2857	water	water	7222	2922
unchanged land	unchanged land	330	134	unchanged land	unchanged land	248	100
intertidal flat	water	15	6	intertidal flat	water	41	17
marsh	water	11	5	marsh	water	64	26
barrier vegetation	water	0	0	barrier vegetation	water	0	0
bare land	water	1	0	bare land	water	2	1
beach	water	1	0	beach	water	6	3
water	intertidal flat	370	150	water	intertidal flat	128	52
water	marsh	92	37	water	marsh	174	70
water	barrier vegetation	0	0	water	barrier vegetation	2	1
water	bare land	2	1	water	bare land	3	1
water	beach	46	19	water	beach	41	17
water	structure	0	0	water	structure	0	0
intertidal flat	marsh	40	16	intertidal flat	marsh	41	17
intertidal flat	barrier vegetation	0	0	intertidal flat	barrier vegetation	0	0
intertidal flat	bare land	1	0	intertidal flat	bare land	1	0
intertidal flat	beach	9	4	intertidal flat	beach	2	1
marsh	intertidal flat	42	17	marsh	intertidal flat	51	20
marsh	barrier vegetation	0	0	marsh	barrier vegetation	0	0
marsh	bare land	2	1	marsh	bare land	1	0
marsh	beach	4	2	marsh	beach	2	1
barrier vegetation	intertidal flat	0	0	barrier vegetation	intertidal flat	0	0
barrier vegetation	marsh	0	0	barrier vegetation	marsh	0	0
barrier vegetation	bare land	0	0	barrier vegetation	bare land	0	0
barrier vegetation	beach	0	0	barrier vegetation	beach	0	0
bare land	intertidal flat	3	1	bare land	intertidal flat	1	1
bare land	marsh	4	2	bare land	marsh	4	2
bare land	barrier vegetation	0	0	bare land	barrier vegetation	0	0
bare land	beach	0	0	bare land	beach	0	0
beach	intertidal flat	6	2	beach	intertidal flat	3	1
beach	marsh	24	10	beach	marsh	25	10
beach	barrier vegetation	0	0	beach	barrier vegetation	0	0
beach	bare land	0	0	beach	bare land	0	0
rip rap	rip rap	4	2	rip rap	rip rap	4	2
structure	structure	1	0	structure	structure	0	0
	analysis extent	8066	3264		analysis extent	8066	3264

Table 43. Habitat change statistics for Sandy Point in the Modern delta for the time periods 1998 to 2001, 2001 to 2004, 2004 to 2005, and 1998 to 2001.

Habitat Class				Habitat Class			
2001	1998	Acreages	Hectares	2004	2001	Acreages	Hectares
water	water	3172	1284	water	water	2943	1191
unchanged land	unchanged land	1162	470	unchanged land	unchanged land	1323	535
intertidal flat	water	200	81	intertidal flat	water	349	141
marsh	water	302	122	marsh	water	196	79
barrier vegetation	water	0	0	barrier vegetation	water	0	0
bare land	water	6	2	bare land	water	18	7
beach	water	5	2	beach	water	4	2
water	intertidal flat	128	52	water	intertidal flat	24	10
water	marsh	203	82	water	marsh	77	31
water	barrier vegetation	0	0	water	barrier vegetation	0	0
water	bare land	1	0	water	bare land	1	1
water	beach	6	2	water	beach	19	8
water	structure	0	0	water	structure	0	0
intertidal flat	marsh	71	29	intertidal flat	marsh	221	89
intertidal flat	barrier vegetation	0	0	intertidal flat	barrier vegetation	0	0
intertidal flat	bare land	0	0	intertidal flat	bare land	4	1
intertidal flat	beach	0	0	intertidal flat	beach	7	3
marsh	intertidal flat	39	16	marsh	intertidal flat	84	34
marsh	barrier vegetation	0	0	marsh	barrier vegetation	0	0
marsh	bare land	4	1	marsh	bare land	24	10
marsh	beach	13	5	marsh	beach	11	4
barrier vegetation	intertidal flat	0	0	barrier vegetation	intertidal flat	0	0
barrier vegetation	marsh	0	0	barrier vegetation	marsh	0	0
barrier vegetation	bare land	0	0	barrier vegetation	bare land	0	0
barrier vegetation	beach	0	0	barrier vegetation	beach	0	0
bare land	intertidal flat	0	0	bare land	intertidal flat	22	9
bare land	marsh	25	10	bare land	marsh	14	6
bare land	barrier vegetation	0	0	bare land	barrier vegetation	0	0
bare land	beach	0	0	bare land	beach	0	0
beach	intertidal flat	1	0	beach	intertidal flat	7	3
beach	marsh	35	14	beach	marsh	24	10
beach	barrier vegetation	0	0	beach	barrier vegetation	0	0
beach	bare land	0	0	beach	bare land	1	0
rip rap	rip rap	0	0	rip rap	rip rap	0	0
structure	structure	1	0	structure	structure	0	0
	analysis extent	5372	2174		analysis extent	5372	2174

Table 43, continued.

Habitat Class				Habitat Class			
2005	2004	Acreages	Hectares	2005	1998	Acreages	Hectares
water	water	3013	1220	water	water	3358	1359
unchanged land	unchanged land	1198	485	unchanged land	unchanged land	1073	434
intertidal flat	water	26	11	intertidal flat	water	203	82
marsh	water	25	10	marsh	water	123	50
barrier vegetation	water	0	0	barrier vegetation	water	0	0
bare land	water	0	0	bare land	water	0	0
beach	water	0	0	beach	water	2	1
water	intertidal flat	426	172	water	intertidal flat	125	50
water	marsh	281	114	water	marsh	264	107
water	barrier vegetation	0	0	water	barrier vegetation	0	0
water	bare land	24	10	water	bare land	1	0
water	beach	16	7	water	beach	13	5
water	structure	0	0	water	structure	0	0
intertidal flat	marsh	175	71	intertidal flat	marsh	165	67
intertidal flat	barrier vegetation	0	0	intertidal flat	barrier vegetation	0	0
intertidal flat	bare land	17	7	intertidal flat	bare land	1	0
intertidal flat	beach	11	4	intertidal flat	beach	3	1
marsh	intertidal flat	121	49	marsh	intertidal flat	20	8
marsh	barrier vegetation	0	0	marsh	barrier vegetation	0	0
marsh	bare land	14	6	marsh	bare land	2	1
marsh	beach	11	4	marsh	beach	5	2
barrier vegetation	intertidal flat	0	0	barrier vegetation	intertidal flat	0	0
barrier vegetation	marsh	0	0	barrier vegetation	marsh	0	0
barrier vegetation	bare land	0	0	barrier vegetation	bare land	0	0
barrier vegetation	beach	0	0	barrier vegetation	beach	0	0
bare land	intertidal flat	0	0	bare land	intertidal flat	0	0
bare land	marsh	0	0	bare land	marsh	0	0
bare land	barrier vegetation	0	0	bare land	barrier vegetation	0	0
bare land	beach	0	0	bare land	beach	0	0
beach	intertidal flat	2	1	beach	intertidal flat	0	0
beach	marsh	11	5	beach	marsh	13	5
beach	barrier vegetation	0	0	beach	barrier vegetation	0	0
beach	bare land	0	0	beach	bare land	0	0
rip rap	rip rap	0	0	rip rap	rip rap	0	0
structure	structure	0	0	structure	structure	0	0
	analysis extent	5372	2174		analysis extent	5372	2174

Chandeleur Islands (Breton Island to Hewes Point)

Table 44. The amount of land gained, lost, and unchanged between the time periods 1998 to 2002 and 2002 to 2004 in the Chandeleur Islands, which includes the Breton Island, Curlew and Grand Gosier Islands, and the North Islands.

Breton Island					
Habitat Classes	2002 from 1998		Habitat Classes	2004 from 2002	
	Acres	Hectares		Acres	Hectares
Water	2133	863	Water	2089	845
Land Gain	118	48	Land Gain	11	5
Land Loss	33	14	Land Loss	163	66
Land Unchanged	70	28	Land Unchanged	92	37
Analysis Area	2354	953	Analysis Area	2354	953

Curlew and Grand Gosier Islands					
Habitat Classes	2002 from 1998		Habitat Classes	2004 from 2002	
	Acres	Hectares		Acres	Hectares
Water	10275	4158	Water	10584	4283
Land Gain	511	207	Land Gain	73	29
Land Loss	253	103	Land Loss	203	82
Land Unchanged	46	19	Land Unchanged	227	92
Analysis Area	11085	4486	Analysis Area	11085	4486

North Chandeleur Island					
Habitat Classes	2002 from 1998		Habitat Classes	2004 from 2002	
	Acres	Hectares		Acres	Hectares
Water	44509	18012	Water	45652	18475
Land Gain	1770	716	Land Gain	1864	754
Land Loss	1731	701	Land Loss	627	254
Land Unchanged	2738	1108	Land Unchanged	2605	1054
Analysis Area	50748	20537	Analysis Area	50748	20537

Table 45. The amount of land gained, lost, and unchanged between the time periods 2004 to 2005 and 1998 to 2005 in the Chandeleur Islands, which includes the Breton Island, Curlew and Grand Gosier Islands, and the North Islands.

Breton Island					
Habitat Classes	2005 from 2004		Habitat Classes	2005 from 1998	
	Acres	Hectares		Acres	Hectares
Water	ND	ND	Water	ND	ND
Land Gain	ND	ND	Land Gain	ND	ND
Land Loss	ND	ND	Land Loss	ND	ND
Land Unchanged	ND	ND	Land Unchanged	ND	ND
Analysis Area	ND	ND	Analysis Area	ND	ND

Curlew and Grand Gosier Islands					
Habitat Classes	2005 from 2004		Habitat Classes	2005 from 1998	
	Acres	Hectares		Acres	Hectares
Water	ND	ND	Water	ND	ND
Land Gain	ND	ND	Land Gain	ND	ND
Land Loss	ND	ND	Land Loss	ND	ND
Land Unchanged	ND	ND	Land Unchanged	ND	ND
Analysis Area	ND	ND	Analysis Area	ND	ND

North Chandeleur Island					
Habitat Classes	2005 from 2004		Habitat Classes	2005 from 1998	
	Acres	Hectares		Acres	Hectares
Water	47360	19166	Water	46050	18636
Land Gain	2493	1009	Land Gain	3803	1539
Land Loss	156	63	Land Loss	191	77
Land Unchanged	739	299	Land Unchanged	704	285
Analysis Area	50748	20537	Analysis Area	50748	20537

Table 46. The total amount of land in each habitat class from Breton Island, Curlew and Grand Gosier Islands, and the North Islands in the Chandeleur Islands for the time periods 1998 and 2002.

Breton Island					
Habitat Classes	1998		Habitat Classes	2002	
	Acres	Hectares		Acres	Hectares
Water	2169	878	Water	2254	912
Intertidal Flat	43	17	Intertidal Flat	41	17
Marsh	86	35	Marsh	50	20
Barrier Vegetation	8	3	Barrier Vegetation	0	0
Bare Land	0	0	Bare Land	0	0
Beach	49	20	Beach	11	4
Rip Rap	0	0	Rip Rap	0	0
Structure	1	0	Structure	1	0
Analysis Extent	2357	954	Analysis Extent	2357	954
Curlew and Grand Gosier Islands					
Habitat Classes	1998		Habitat Classes	2002	
	Acres	Hectares		Acres	Hectares
Water	10532	4262	Water	10790	4366
Intertidal Flat	224	91	Intertidal Flat	264	107
Marsh	185	75	Marsh	3	1
Barrier Vegetation	0	0	Barrier Vegetation	0	0
Bare Land	0	0	Bare Land	0	0
Beach	149	60	Beach	33	13
Rip Rap	0	0	Rip Rap	0	0
Structure	0	0	Structure	0	0
Analysis Extent	11089	4488	Analysis Extent	11089	4488
North Chandeleur Island					
Habitat Classes	1998		Habitat Classes	2002	
	Acres	Hectares		Acres	Hectares
Water	46241	18713	Water	46279	18729
Intertidal Flat	614	249	Intertidal Flat	1056	427
Marsh	2503	1013	Marsh	1761	713
Barrier Vegetation	0	0	Barrier Vegetation	502	203
Bare Land	0	0	Bare Land	0	0
Beach	1390	563	Beach	1150	465
Rip Rap	0	0	Rip Rap	0	0
Structure	0	0	Structure	0	0
Analysis Extent	50748	20537	Analysis Extent	50748	20537

Table 47. The total amount of land in each habitat class from Breton Island, Curlew and Grand Gosier Islands, and the North Islands in the Chandeleur Islands for the time periods 2004 and 2005.

Breton Island					
Habitat Classes	2004		Habitat Classes	2005	
	Acres	Hectares		Acres	Hectares
Water	2102	851	Water	2357	954
Intertidal Flat	169	68	Intertidal Flat	0	0
Marsh	52	21	Marsh	0	0
Barrier Vegetation	0	0	Barrier Vegetation	0	0
Bare Land	0	0	Bare Land	0	0
Beach	32	13	Beach	0	0
Rip Rap	0	0	Rip Rap	0	0
Structure	1	0	Structure	0	0
Analysis Extent	2357	954	Analysis Extent	2357	954
Curlew and Grand Gosier Islands					
Habitat Classes	2004		Habitat Classes	2005	
	Acres	Hectares		Acres	Hectares
Water	10660	4314	Water	11089	4488
Intertidal Flat	349	141	Intertidal Flat	0	0
Marsh	4	2	Marsh	0	0
Barrier Vegetation	0	0	Barrier Vegetation	0	0
Bare Land	0	0	Bare Land	0	0
Beach	77	31	Beach	0	0
Rip Rap	0	0	Rip Rap	0	0
Structure	0	0	Structure	0	0
Analysis Extent	11089	4488	Analysis Extent	11089	4488
North Chandeleur Island					
Habitat Classes	2004		Habitat Classes	2005	
	Acres	Hectares		Acres	Hectares
Water	47516	19229	Water	49853	20175
Intertidal Flat	581	235	Intertidal Flat	137	56
Marsh	1432	580	Marsh	758	307
Barrier Vegetation	59	24	Barrier Vegetation	0	0
Bare Land	0	0	Bare Land	0	0
Beach	1160	469	Beach	0	0
Rip Rap	0	0	Rip Rap	0	0
Structure	0	0	Structure	0	0
Analysis Extent	50748	20537	Analysis Extent	50748	20537

Table 48. Habitat change statistics for Breton Island in the Chandeaur Islands for the time periods 1998 to 2002, 2002 to 2004, 2004 to 2005, and 1998 to 2005.

Habitat Class				Habitat Class			
2002	1998	Acreages	Hectares	2004	2002	Acreages	Hectares
water	water	2133	863	water	water	2089	845
unchanged land	unchanged land	42	17	unchanged land	unchanged land	65	26
intertidal flat	water	21	9	intertidal flat	water	144	58
marsh	water	10	4	marsh	water	4	2
barrier vegetation	water	0	0	barrier vegetation	water	0	0
bare land	water	0	0	bare land	water	0	0
beach	water	2	1	beach	water	14	6
water	intertidal flat	39	16	water	intertidal flat	6	2
water	marsh	33	13	water	marsh	5	2
water	barrier vegetation	4	2	water	barrier vegetation	0	0
water	bare land	0	0	water	bare land	0	0
water	beach	43	17	water	beach	1	0
water	structure	0	0	water	structure	0	0
intertidal flat	marsh	10	4	intertidal flat	marsh	3	1
intertidal flat	barrier vegetation	2	1	intertidal flat	barrier vegetation	0	0
intertidal flat	bare land	0	0	intertidal flat	bare land	0	0
intertidal flat	beach	5	2	intertidal flat	beach	2	1
marsh	intertidal flat	0	0	marsh	intertidal flat	3	1
marsh	barrier vegetation	1	1	marsh	barrier vegetation	0	0
marsh	bare land	0	0	marsh	bare land	0	0
marsh	beach	0	0	marsh	beach	4	2
barrier vegetation	intertidal flat	0	0	barrier vegetation	intertidal flat	0	0
barrier vegetation	marsh	0	0	barrier vegetation	marsh	0	0
barrier vegetation	bare land	0	0	barrier vegetation	bare land	0	0
barrier vegetation	beach	0	0	barrier vegetation	beach	0	0
bare land	intertidal flat	0	0	bare land	intertidal flat	0	0
bare land	marsh	0	0	bare land	marsh	0	0
bare land	barrier vegetation	0	0	bare land	barrier vegetation	0	0
bare land	beach	0	0	bare land	beach	0	0
beach	intertidal flat	0	0	beach	intertidal flat	12	5
beach	marsh	6	2	beach	marsh	2	1
beach	barrier vegetation	1	1	beach	barrier vegetation	0	0
beach	bare land	0	0	beach	bare land	0	0
rip rap	rip rap	0	0	rip rap	rip rap	0	0
structure	structure	1	0	structure	structure	1	0
	analysis extent	2354	953		analysis extent	2354	953

Table 48, continued.

Habitat Class				Habitat Class			
2005	2004	Acreages	Hectares	2005	1998	Acreages	Hectares
water	water	2101	850	water	water	2168	877
unchanged land	unchanged land	0	0	unchanged land	unchanged land	0	0
intertidal flat	water	0	0	intertidal flat	water	0	0
marsh	water	0	0	marsh	water	0	0
barrier vegetation	water	0	0	barrier vegetation	water	0	0
bare land	water	0	0	bare land	water	0	0
beach	water	0	0	beach	water	0	0
water	intertidal flat	169	68	water	intertidal flat	43	17
water	marsh	52	21	water	marsh	86	35
water	barrier vegetation	0	0	water	barrier vegetation	8	3
water	bare land	0	0	water	bare land	0	0
water	beach	32	13	water	beach	49	20
water	structure	0	0	water	structure	0	0
intertidal flat	marsh	0	0	intertidal flat	marsh	0	0
intertidal flat	barrier vegetation	0	0	intertidal flat	barrier vegetation	0	0
intertidal flat	bare land	0	0	intertidal flat	bare land	0	0
intertidal flat	beach	0	0	intertidal flat	beach	0	0
marsh	intertidal flat	0	0	marsh	intertidal flat	0	0
marsh	barrier vegetation	0	0	marsh	barrier vegetation	0	0
marsh	bare land	0	0	marsh	bare land	0	0
marsh	beach	0	0	marsh	beach	0	0
barrier vegetation	intertidal flat	0	0	barrier vegetation	intertidal flat	0	0
barrier vegetation	marsh	0	0	barrier vegetation	marsh	0	0
barrier vegetation	bare land	0	0	barrier vegetation	bare land	0	0
barrier vegetation	beach	0	0	barrier vegetation	beach	0	0
bare land	intertidal flat	0	0	bare land	intertidal flat	0	0
bare land	marsh	0	0	bare land	marsh	0	0
bare land	barrier vegetation	0	0	bare land	barrier vegetation	0	0
bare land	beach	0	0	bare land	beach	0	0
beach	intertidal flat	0	0	beach	intertidal flat	0	0
beach	marsh	0	0	beach	marsh	0	0
beach	barrier vegetation	0	0	beach	barrier vegetation	0	0
beach	bare land	0	0	beach	bare land	0	0
rip rap	rip rap	0	0	rip rap	rip rap	0	0
structure	structure	0	0	structure	structure	0	0
	analysis extent	2354	953		analysis extent	2354	953

Table 49. Habitat change statistics for Curlew and Grand Gosier Islands in the Chandeleur Islands for the time periods 1998 to 2002, 2002 to 2004, 2004 to 2005, and 1998 to 2005.

Habitat Class				Habitat Class			
2002	1998	Acreages	Hectares	2004	2002	Acreages	Hectares
water	water	10278	4159	water	water	10587	4284
unchanged land	unchanged land	15	6	unchanged land	unchanged land	169	68
intertidal flat	water	233	94	intertidal flat	water	174	70
marsh	water	0	0	marsh	water	0	0
barrier vegetation	water	0	0	barrier vegetation	water	0	0
bare land	water	0	0	bare land	water	0	0
beach	water	20	8	beach	water	29	12
water	intertidal flat	202	82	water	intertidal flat	66	27
water	marsh	167	68	water	marsh	0	0
water	barrier vegetation	0	0	water	barrier vegetation	0	0
water	bare land	0	0	water	bare land	0	0
water	beach	142	58	water	beach	6	2
water	structure	14	6	water	structure	0	0
intertidal flat	marsh	11	4	intertidal flat	marsh	0	0
intertidal flat	barrier vegetation	0	0	intertidal flat	barrier vegetation	0	0
intertidal flat	bare land	0	0	intertidal flat	bare land	0	0
intertidal flat	beach	6	2	intertidal flat	beach	17	7
marsh	intertidal flat	2	1	marsh	intertidal flat	0	0
marsh	barrier vegetation	0	0	marsh	barrier vegetation	0	0
marsh	bare land	0	0	marsh	bare land	0	0
marsh	beach	0	0	marsh	beach	1	0
barrier vegetation	intertidal flat	0	0	barrier vegetation	intertidal flat	0	0
barrier vegetation	marsh	0	0	barrier vegetation	marsh	0	0
barrier vegetation	bare land	0	0	barrier vegetation	bare land	0	0
barrier vegetation	beach	0	0	barrier vegetation	beach	0	0
bare land	intertidal flat	0	0	bare land	intertidal flat	0	0
bare land	marsh	0	0	bare land	marsh	0	0
bare land	barrier vegetation	0	0	bare land	barrier vegetation	0	0
bare land	beach	0	0	bare land	beach	0	0
beach	intertidal flat	5	2	beach	intertidal flat	39	16
beach	marsh	7	3	beach	marsh	0	0
beach	barrier vegetation	0	0	beach	barrier vegetation	0	0
beach	bare land	0	0	beach	bare land	0	0
rip rap	rip rap	0	0	rip rap	rip rap	0	0
structure	structure	0	0	structure	structure	0	0
	analysis extent	11103	4493		analysis extent	11089	4488

Table 49, continued.

Habitat Class				Habitat Class			
2005	2004	Acreages	Hectares	2005	1998	Acreages	Hectares
water	water	10660	4314	water	water	10532	4262
unchanged land	unchanged land	0	0	unchanged land	unchanged land	0	0
intertidal flat	water	0	0	intertidal flat	water	0	0
marsh	water	0	0	marsh	water	0	0
barrier vegetation	water	0	0	barrier vegetation	water	0	0
bare land	water	0	0	bare land	water	0	0
beach	water	0	0	beach	water	0	0
water	intertidal flat	349	141	water	intertidal flat	224	91
water	marsh	4	2	water	marsh	185	75
water	barrier vegetation	0	0	water	barrier vegetation	0	0
water	bare land	0	0	water	bare land	0	0
water	beach	77	31	water	beach	149	60
water	structure	0	0	water	structure	0	0
intertidal flat	marsh	0	0	intertidal flat	marsh	0	0
intertidal flat	barrier vegetation	0	0	intertidal flat	barrier vegetation	0	0
intertidal flat	bare land	0	0	intertidal flat	bare land	0	0
intertidal flat	beach	0	0	intertidal flat	beach	0	0
marsh	intertidal flat	0	0	marsh	intertidal flat	0	0
marsh	barrier vegetation	0	0	marsh	barrier vegetation	0	0
marsh	bare land	0	0	marsh	bare land	0	0
marsh	beach	0	0	marsh	beach	0	0
barrier vegetation	intertidal flat	0	0	barrier vegetation	intertidal flat	0	0
barrier vegetation	marsh	0	0	barrier vegetation	marsh	0	0
barrier vegetation	bare land	0	0	barrier vegetation	bare land	0	0
barrier vegetation	beach	0	0	barrier vegetation	beach	0	0
bare land	intertidal flat	0	0	bare land	intertidal flat	0	0
bare land	marsh	0	0	bare land	marsh	0	0
bare land	barrier vegetation	0	0	bare land	barrier vegetation	0	0
bare land	beach	0	0	bare land	beach	0	0
beach	intertidal flat	0	0	beach	intertidal flat	0	0
beach	marsh	0	0	beach	marsh	0	0
beach	barrier vegetation	0	0	beach	barrier vegetation	0	0
beach	bare land	0	0	beach	bare land	0	0
rip rap	rip rap	0	0	rip rap	rip rap	0	0
structure	structure	0	0	structure	structure	0	0
	analysis extent	11089	4488		analysis extent	11089	4488

Table 50. Habitat change statistics for the North Islands in the Chandeleur Islands for the time periods 1998 to 2002, 2002 to 2004, 2004 to 2005, and 1998 to 2005.

Habitat Class				Habitat Class			
2002	1998	Acreages	Hectares	2004	2002	Acreages	Hectares
water	water	44516	18015	water	water	45653	18475
unchanged land	unchanged land	1239	501	unchanged land	unchanged land	1240	502
intertidal flat	water	659	267	intertidal flat	water	319	129
marsh	water	798	323	marsh	water	60	24
barrier vegetation	water	40	16	barrier vegetation	water	1	0
bare land	water	0	0	bare land	water	0	0
beach	water	229	93	beach	water	248	100
water	intertidal flat	468	189	water	intertidal flat	606	245
water	marsh	431	174	water	marsh	941	381
water	barrier vegetation	0	0	water	barrier vegetation	22	9
water	bare land	0	0	water	bare land	0	0
water	beach	865	350	water	beach	295	119
water	structure	47	19	water	structure	0	0
intertidal flat	marsh	206	83	intertidal flat	marsh	31	13
intertidal flat	barrier vegetation	0	0	intertidal flat	barrier vegetation	6	2
intertidal flat	bare land	0	0	intertidal flat	bare land	0	0
intertidal flat	beach	144	58	intertidal flat	beach	113	46
marsh	intertidal flat	38	15	marsh	intertidal flat	106	43
marsh	barrier vegetation	0	0	marsh	barrier vegetation	379	153
marsh	bare land	0	0	marsh	bare land	0	0
marsh	beach	51	21	marsh	beach	248	101
barrier vegetation	intertidal flat	4	1	barrier vegetation	intertidal flat	4	2
barrier vegetation	marsh	445	180	barrier vegetation	marsh	7	3
barrier vegetation	bare land	0	0	barrier vegetation	bare land	0	0
barrier vegetation	beach	13	5	barrier vegetation	beach	25	10
bare land	intertidal flat	0	0	bare land	intertidal flat	0	0
bare land	marsh	0	0	bare land	marsh	0	0
bare land	barrier vegetation	0	0	bare land	barrier vegetation	0	0
bare land	beach	0	0	bare land	beach	0	0
beach	intertidal flat	58	24	beach	intertidal flat	227	92
beach	marsh	546	221	beach	marsh	143	58
beach	barrier vegetation	0	0	beach	barrier vegetation	74	30
beach	bare land	0	0	beach	bare land	0	0
rip rap	rip rap	0	0	rip rap	rip rap	0	0
structure	structure	0	0	structure	structure	0	0
	analysis extent	50795	20556		analysis extent	50748	20537

Table 50, continued.

Habitat Class				Habitat Class			
2005	2004	Acreages	Hectares	2005	1998	Acreages	Hectares
water	water	47360	19166	water	water	46050	18636
unchanged land	unchanged land	647	262	unchanged land	unchanged land	610	247
intertidal flat	water	58	23	intertidal flat	water	62	25
marsh	water	98	40	marsh	water	129	52
barrier vegetation	water	0	0	barrier vegetation	water	0	0
bare land	water	0	0	bare land	water	0	0
beach	water	0	0	beach	water	0	0
water	intertidal flat	578	234	water	intertidal flat	601	243
water	marsh	734	297	water	marsh	1823	738
water	barrier vegetation	56	23	water	barrier vegetation	0	0
water	bare land	0	0	water	bare land	0	0
water	beach	1125	455	water	beach	1379	558
water	structure	0	0	water	structure	2	1
intertidal flat	marsh	52	21	intertidal flat	marsh	3	1
intertidal flat	barrier vegetation	2	1	intertidal flat	barrier vegetation	0	0
intertidal flat	bare land	0	0	intertidal flat	bare land	0	0
intertidal flat	beach	25	10	intertidal flat	beach	2	1
marsh	intertidal flat	2	1	marsh	intertidal flat	11	4
marsh	barrier vegetation	1	1	marsh	barrier vegetation	0	0
marsh	bare land	0	0	marsh	bare land	0	0
marsh	beach	10	4	marsh	beach	10	4
barrier vegetation	intertidal flat	0	0	barrier vegetation	intertidal flat	0	0
barrier vegetation	marsh	0	0	barrier vegetation	marsh	0	0
barrier vegetation	bare land	0	0	barrier vegetation	bare land	0	0
barrier vegetation	beach	0	0	barrier vegetation	beach	0	0
bare land	intertidal flat	0	0	bare land	intertidal flat	0	0
bare land	marsh	0	0	bare land	marsh	0	0
bare land	barrier vegetation	0	0	bare land	barrier vegetation	0	0
bare land	beach	0	0	bare land	beach	0	0
beach	intertidal flat	0	0	beach	intertidal flat	0	0
beach	marsh	0	0	beach	marsh	0	0
beach	barrier vegetation	0	0	beach	barrier vegetation	0	0
beach	bare land	0	0	beach	bare land	0	0
rip rap	rip rap	0	0	rip rap	rip rap	0	0
structure	structure	0	0	structure	structure	0	0
	analysis extent	50748	20537		analysis extent	50681	20510