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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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# Part 3: Habitat Class Tables, Habitat Change Tables, and Final Statistics 1996 to 2005

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## 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.

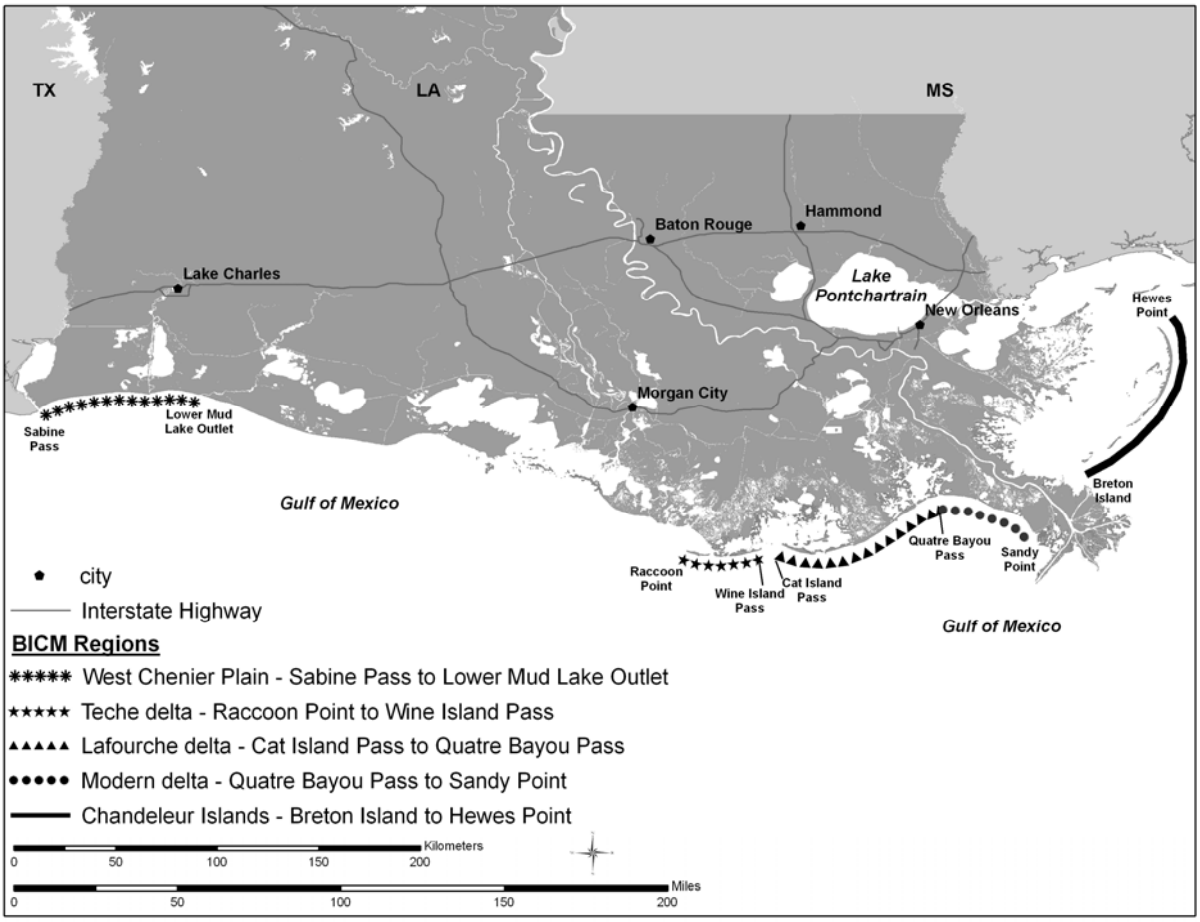


Figure 1. The five sections of shoreline used in the BICM Habitat Analysis include 1) Western Chenier Plain, which extends from the Texas/Louisiana border at Sabine Pass to the Lower Mud Lake Outlet; 2) Teche delta from Raccoon Pass to Wine Island Pass; 3) Lafourche delta from Cat Island Pass to Quatre 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 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 | 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 |