

1956, Fall 2004, and Fall 2005 Land-Water Areas and Net Land Area Changes Tables

Table 1. 1956, Fall 2004, and Fall 2005 Land-Water Area

Basin		Coastal Total		Calcasieu/Sabine		Mermentau		Teche/Vermilion		Atchafalaya		Terrebonne		Barataria		Mississippi River Delta		Breton Sound		Pontchartrain		Pearl River	
Period	Class	Mi <sup>2</sup>	Km <sup>2</sup>	Mi <sup>2</sup>	Km <sup>2</sup>	Mi <sup>2</sup>	Km <sup>2</sup>	Mi <sup>2</sup>	Km <sup>2</sup>	Mi <sup>2</sup>	Km <sup>2</sup>	Mi <sup>2</sup>	Km <sup>2</sup>	Mi <sup>2</sup>	Km <sup>2</sup>	Mi <sup>2</sup>	Km <sup>2</sup>	Mi <sup>2</sup>	Km <sup>2</sup>	Mi <sup>2</sup>	Km <sup>2</sup>	Mi <sup>2</sup>	Km <sup>2</sup>
1956	Land	5,850	15,151.50	769	1,991.71	913	2,364.67	520	1,346.80	192	497.28	1,162	3,009.58	846	2,191.14	246	637.14	358	927.22	798	2,066.82	46	119.14
	Water	5,585	14,465.15	146	378.14	220	569.80	504	1,305.36	236	611.24	695	1,800.05	520	1,346.80	384	994.56	588	1,522.92	2,289	5,928.51	3	7.77
	Totals	11,435	29,616.65	915	2,369.85	1,133	2,934.47	1,024	2,652.16	428	1,108.52	1,857	4,809.63	1,366	3,537.94	630	1,631.70	946	2,450.14	3,087	7,995.33	49	126.91
Fall 2004	Land	4,701	12,175.59	627	1,623.93	821	2,126.39	481	1,245.79	217	562.03	841	2,178.19	542	1,403.78	132	341.88	291	753.69	706	1,828.54	43	111.37
	Water	6,734	17,441.06	288	745.92	312	808.08	543	1,406.37	211	546.49	1,016	2,631.44	824	2,134.16	498	1,289.82	655	1,696.45	2,381	6,166.79	6	15.54
	Totals	11,435	29,616.65	915	2,369.85	1,133	2,934.47	1,024	2,652.16	428	1,108.52	1,857	4,809.63	1,366	3,537.94	630	1,631.70	946	2,450.14	3,087	7,995.33	49	126.91
Fall 2005	Land	4,406	11,411.54	599	1,551.41	689	1,784.51	473	1,225.07	207	536.13	824	2,134.16	524	1,357.16	114	295.26	250	647.50	687	1,779.33	39	101.01
	Water	6,952	18,005.68	310	802.90	376	973.84	548	1,419.32	221	572.39	1,033	2,675.47	842	2,180.78	516	1,336.44	696	1,802.64	2,400	6,216.00	10	25.90
	Flooded Burned Marsh	41	106.19	2	5.18	39	101.01	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
	Flooded Ag/Pasture Impoundment*	36	93.24	4	10.36	29	75.11	3	7.77	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
	Totals	11,435	29,616.65	915	2,369.85	1,133	2,934.47	1,024	2,652.16	428	1,108.52	1,857	4,809.63	1,366	3,537.94	630	1,631.70	946	2,450.14	3,087	7,995.33	49	126.91

\*Based on imagery review of new water areas occurring within the "other land" class of Chabreck and Linscombe's marsh community types (unpub. data, 2001).

Table 2. 1956 to Fall 2004 Net Land Area Changes

Basin		Coastal Total		Calcasieu/Sabine		Mermentau		Teche/Vermilion		Atchafalaya		Terrebonne		Barataria		Mississippi River Delta		Breton Sound		Pontchartrain		Pearl River	
Period	Class	Mi <sup>2</sup>	Km <sup>2</sup>	Mi <sup>2</sup>	Km <sup>2</sup>	Mi <sup>2</sup>	Km <sup>2</sup>	Mi <sup>2</sup>	Km <sup>2</sup>	Mi <sup>2</sup>	Km <sup>2</sup>	Mi <sup>2</sup>	Km <sup>2</sup>	Mi <sup>2</sup>	Km <sup>2</sup>	Mi <sup>2</sup>	Km <sup>2</sup>	Mi <sup>2</sup>	Km <sup>2</sup>	Mi <sup>2</sup>	Km <sup>2</sup>	Mi <sup>2</sup>	Km <sup>2</sup>
1956 to 2004	Net Land Area Change	-1,149	-2,975.91	-142	-367.78	-92	-238.28	-39	-101.01	25	64.75	-321	-831.39	-304	-787.36	-114	-295.26	-67	-173.53	-92	-238.28	-3	-7.77

Table 3. Fall 2004 to Fall 2005 Net Land Area Changes

Basin		Coastal Total		Calcasieu/Sabine		Mermentau		Teche/Vermilion		Atchafalaya		Terrebonne		Barataria		Mississippi River Delta		Breton Sound		Pontchartrain		Pearl River	
Period	Class	Mi <sup>2</sup>	Km <sup>2</sup>	Mi <sup>2</sup>	Km <sup>2</sup>	Mi <sup>2</sup>	Km <sup>2</sup>	Mi <sup>2</sup>	Km <sup>2</sup>	Mi <sup>2</sup>	Km <sup>2</sup>	Mi <sup>2</sup>	Km <sup>2</sup>	Mi <sup>2</sup>	Km <sup>2</sup>	Mi <sup>2</sup>	Km <sup>2</sup>	Mi <sup>2</sup>	Km <sup>2</sup>	Mi <sup>2</sup>	Km <sup>2</sup>	Mi <sup>2</sup>	Km <sup>2</sup>
Fall 2004 to Fall 2005	Net Land Area Change	-295	-764.05	-28	-72.52	-132	-341.88	-8	-20.72	-10	-25.90	-17	-44.03	-18	-46.62	-18	-46.62	-41	-106.19	-19	-49.21	-4	-10.36
	Flooded Burned Marsh	41	106.19	2	5.18	39	101.01	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
	Flooded Ag/Pasture Impoundment*	36	93.24	4	10.36	29	75.11	3	7.77	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
	Adjusted Net Land Area Change**	-218***	-564.62	-22	-56.98	-64	-165.76	-5	-12.95	-10	-25.90	-17	-44.03	-18	-46.62	-18	-46.62	-41	-106.19	-19	-49.21	-4	-10.36

\*Based on imagery review of new water areas occurring within the "other land" class of Chabreck and Linscombe's marsh community types (unpub. data, 2001).

\*\*Adjusted to account for 41 mi<sup>2</sup> (106.19 km<sup>2</sup>) of flooded burned marsh and 36 mi<sup>2</sup> (93.24 km<sup>2</sup>) of other flooded lands that were included in the initial change analysis.

\*\*\*Given as 217 mi<sup>2</sup> elsewhere in this report. The slight variation results from matching the CZB (1956) and the LCA (2004 to 2005) data sets, as discussed in the methodology.

Table 4. 1956 to Fall 2005 Net Land Area Changes

Basin		Coastal Total		Calcasieu/Sabine		Mermentau		Teche/Vermilion		Atchafalaya		Terrebonne		Barataria		Mississippi River Delta		Breton Sound		Pontchartrain		Pearl River	
Period	Class	Mi <sup>2</sup>	Km <sup>2</sup>	Mi <sup>2</sup>	Km <sup>2</sup>	Mi <sup>2</sup>	Km <sup>2</sup>	Mi <sup>2</sup>	Km <sup>2</sup>	Mi <sup>2</sup>	Km <sup>2</sup>	Mi <sup>2</sup>	Km <sup>2</sup>	Mi <sup>2</sup>	Km <sup>2</sup>	Mi <sup>2</sup>	Km <sup>2</sup>	Mi <sup>2</sup>	Km <sup>2</sup>	Mi <sup>2</sup>	Km <sup>2</sup>	Mi <sup>2</sup>	Km <sup>2</sup>
1956 to 2005	Adjusted Net Land Area Change*	-1,367	-3,540.53	-164	-424.76	-156	-404.04	-44	-113.96	15	38.85	-338	-875.42	-322	-833.98	-132	-341.88	-108	-279.72	-111	-287.49	-7	-18.13

\*Adjusted to account for 41 mi<sup>2</sup> (106.19 km<sup>2</sup>) of flooded burned marsh and 36 mi<sup>2</sup> (93.24 km<sup>2</sup>) of other flooded lands that were included in the initial change analysis.

Source: Open-File Report 2006-1274, Land Area Change in Coastal Louisiana After the 2005 Hurricanes: A Series of Three Maps

Land Area Change in Coastal Louisiana After the 2005 Hurricanes: A Historical Perspective (from 1956)