



2004 to 2005 Land-Water Areas and Net Land Area Changes Tables

Table 1. 2004 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 ²	Km ²	Mi ²	Km ²	Mi ²	Km ²	Mi ²	Km ²	Mi ²	Km ²	Mi ²	Km ²	Mi ²	Km ²	Mi ²	Km ²	Mi ²	Km ²	Mi ²	Km ²	Mi ²	Km ²
Fall 2004	Land	5,923	15,340.57	631	1,634.29	844	2,185.96	487	1,261.33	221	572.39	1,291	3,343.69	1,080	2,797.20	132	341.88	291	753.69	893	2,312.87	53	137.27
	Water	6,995	18,117.05	289	748.51	316	818.44	544	1,408.96	212	549.08	1,086	2,812.74	872	2,258.48	498	1,289.82	655	1,696.45	2,502	6,480.18	21	54.39
	Totals	12,918	33,457.62	920	2,382.80	1,160	3,004.40	1,031	2,670.29	433	1,121.47	2,377	6,156.43	1,952	5,055.68	630	1,631.70	946	2,450.14	3,395	8,793.05	74	191.66

Table 2. 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 ²	Km ²	Mi ²	Km ²	Mi ²	Km ²	Mi ²	Km ²	Mi ²	Km ²	Mi ²	Km ²	Mi ²	Km ²	Mi ²	Km ²	Mi ²	Km ²	Mi ²	Km ²	Mi ²	Km ²
Fall 2005	Land	5,623	14,563.57	603	1,561.77	708	1,833.72	479	1,240.61	212	549.08	1,272	3,294.48	1,062	2,750.58	114	295.26	250	647.50	874	2,263.66	49	126.91
	Water	7,212	18,679.08	311	805.49	378	979.02	549	1,421.91	221	572.39	1,105	2,861.95	890	2,305.10	516	1,336.44	696	1,802.64	2,521	6,529.39	25	64.75
	Flooded Burned Marsh	43	111.37	2	5.18	41	106.19	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*	40	103.60	4	10.36	33	85.47	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		12,918	33,457.62	920	2,382.80	1,160	3,004.40	1,031	2,670.29	433	1,121.47	2,377	6,156.43	1,952	5,055.68	630	1,631.70	946	2,450.14	3,395	8,793.05	74	191.66

*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 3. 2004 to 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 ²	Km ²	Mi ²	Km ²	Mi ²	Km ²	Mi ²	Km ²	Mi ²	Km ²	Mi ²	Km ²	Mi ²	Km ²	Mi ²	Km ²	Mi ²	Km ²	Mi ²	Km ²	Mi ²	Km ²
Fall 2004 - Fall 2005	Net Land Area Change	-300	-777.00	-28	-72.52	-136	-352.24	-8	-20.72	-9	-23.31	-19	-49.21	-18	-46.62	-18	-46.62	-41	-106.19	-19	-49.21	-4	-10.36
	Flooded Burned Marsh	43	111.37	2	5.18	41	106.19	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*	40	103.60	4	10.36	33	85.47	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**	-217	-562.03	-22	-56.98	-62	-160.58	-5	-12.95	-9	-23.31	-19	-49.21	-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 43 mi² (111.37 km²) of flooded burned marsh and 40 mi² (103.6 km²) 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: Overview

U.S. Department of the Interior
U.S. Geological Survey