

Louisiana Coastal Restoration: Federal, State, NGO and Private Sector Perspectives and Roles

Moderator: Mark Wingate

**US Army Corps of Engineers
New Orleans District**

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

Land Area Change in Coastal Louisiana (1932 to 2010)

By Brady K. Coville, John A. Barrs, Gregory D. Dwyer, William Stevier, Michelle Fischer, Holly Beck, Nadine Trabas, Brad Soltis, David Heckman

Introduction

The United States Geological Survey (USGS) published information on coastal Louisiana's extensive land loss and subsidence for the first time in 1972. This report updates that information with the most current data available. The report includes a map of Louisiana showing the location of the study area, a map of the United States showing the location of the study area, and a map of the study area showing the location of the study area.

Methodology

The study area was defined as the entire land area of coastal Louisiana by using 17 drainage basins and land area estimates from 1932 to 2010. The study area was divided into 17 drainage basins based on the 1932 USGS report. The study area was divided into 17 drainage basins based on the 1932 USGS report.

Phenomena of land area change in coastal Louisiana

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Scientific Investigations Map 314
Pamphlet accompanies map

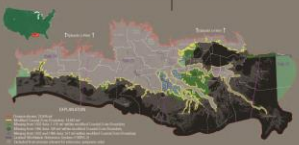
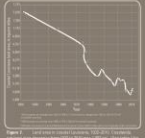


Figure 1. Map of the study area showing the 17 drainage basins used in the study. The basins are labeled: Terrebonne, Atchafalaya, Teche-Vermilion, Mermentau, Calcasieu-Sabine, Atchafalaya Delta, Breton Sound, Barataria, and Pontchartrain.

Basin	1932	1950	1970	1990	2010	Total	Rate
Terrebonne	1,400	1,350	1,300	1,250	1,200	-200	-2.5
Atchafalaya	1,300	1,250	1,200	1,150	1,100	-200	-2.5
Teche-Vermilion	1,200	1,150	1,100	1,050	1,000	-200	-2.5
Mermentau	1,100	1,050	1,000	950	900	-200	-2.5
Calcasieu-Sabine	1,000	950	900	850	800	-200	-2.5
Atchafalaya Delta	900	850	800	750	700	-200	-2.5
Breton Sound	800	750	700	650	600	-200	-2.5
Barataria	700	650	600	550	500	-200	-2.5
Pontchartrain	600	550	500	450	400	-200	-2.5
Total	8,300	7,800	7,300	6,800	6,300	-2,000	-2.5

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Mermentau	1,100	1,050	1,000	950	900	-200	-2.5
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Breton Sound	800	750	700	650	600	-200	-2.5
Barataria	700	650	600	550	500	-200	-2.5
Pontchartrain	600	550	500	450	400	-200	-2.5
Total	8,300	7,800	7,300	6,800	6,300	-2,000	-2.5



Figure 2. Map of the study area showing land area change from 1932 to 2010. The map is color-coded to show the extent of land loss in each drainage basin.

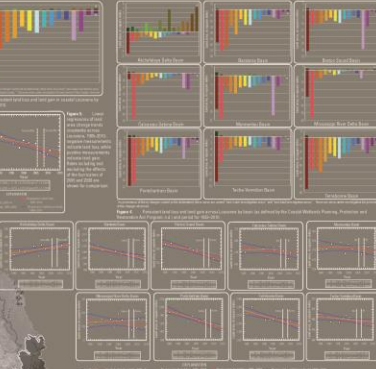


Figure 3. Grid of 17 small maps showing land area change from 1932 to 2010 for each drainage basin. Each map includes a line graph showing the trend of land area over time.

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Land Change Trends

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Discussion and Conclusions

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Discussion and Conclusions

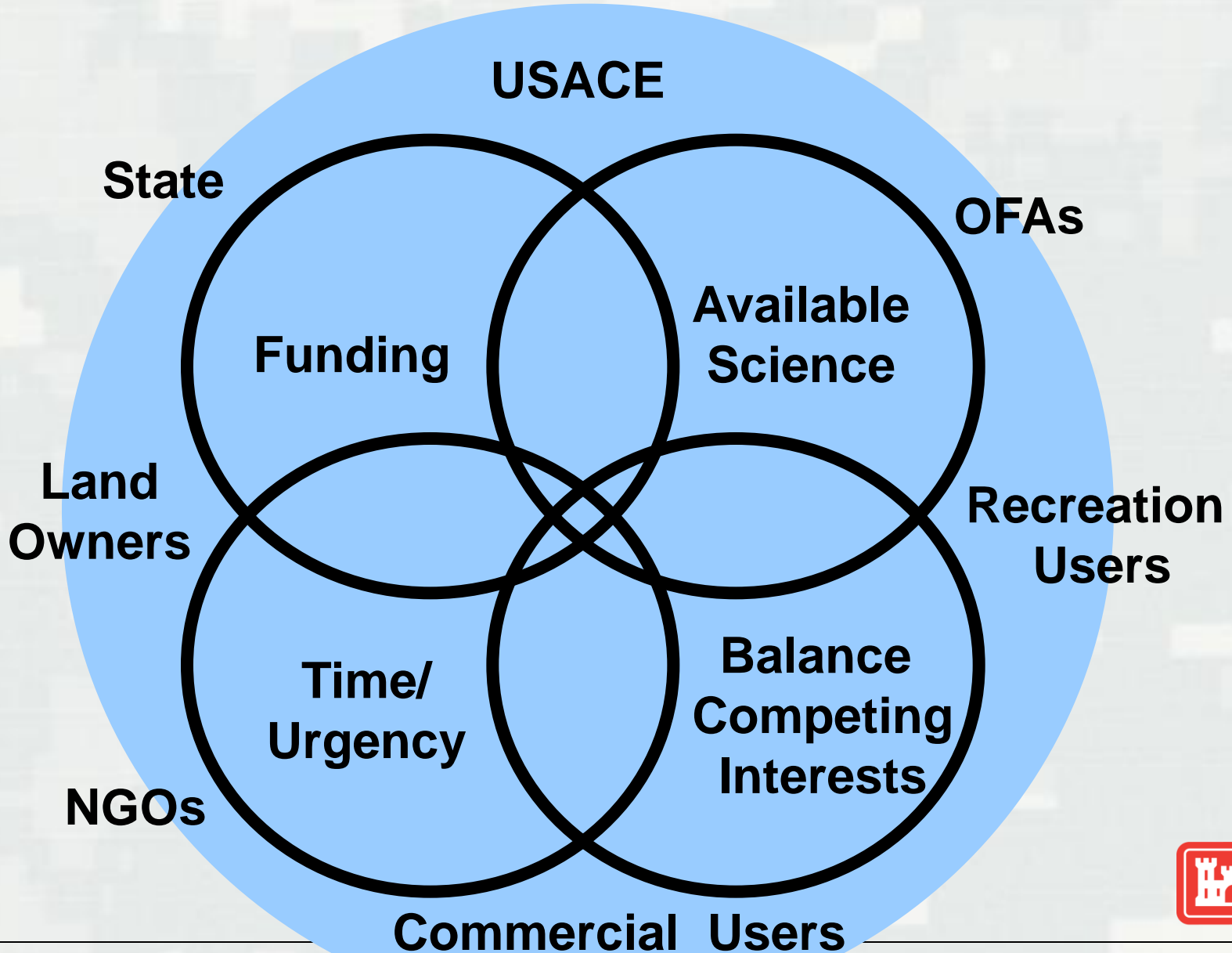
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Factors Influencing Perspectives



Session Presentations

- ***Louisiana Coastal Restoration: The State Perspective and Role*** – Bren Haase (Coastal Protection and Restoration Authority)
- ***An NGO Perspective of the Evolving Role of NGOs in Louisiana Coastal Restoration*** - Steven Peyronnin (Coalition to Restore Coastal Louisiana)
- ***Louisiana Coastal Restoration: Private Sector Perspective*** - David Richard (The Stream Companies)
- ***USACE Perspective and Evolving Role in Louisiana Coastal Restoration*** - Mark Wingate (US Army Corps of Engineers, New Orleans District)

