











Wetland basics

Wetland functions

Types of wetlands

Trends

Take homes

Texas wetland types

COASTAL WETLANDS

Salt water or a combination of salt and fresh water mixed together

Plants that have adapted to changes in salinity

Coastal shorelines, shallow bays and inlets, swamps, marshes, mud flats and deltas

FRESHWATER WETLANDS

Rainfall, springs, rivers and other sources

Plants that survive fluctuating water conditions

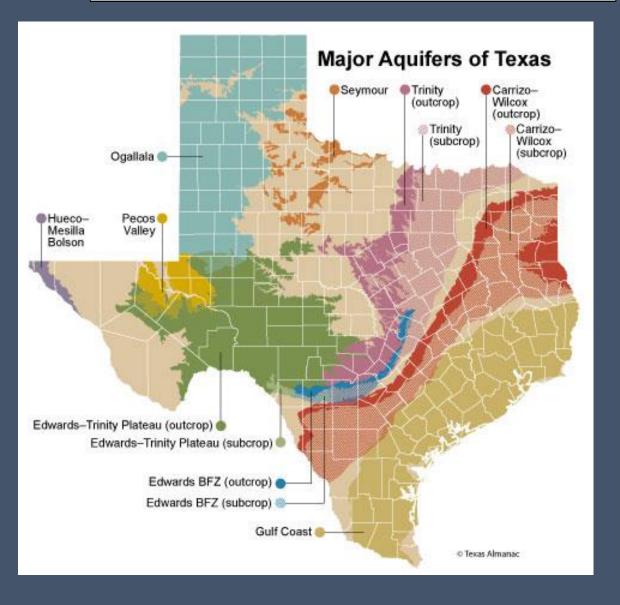
Riverbanks, streamsides, lake shores, floodplains, bottomlands, marshes, seeps, ponds and swamps



Typical Cross-Section of the Edwards Aquifer Region Drainage Area Recharge Zone Artesian Zone Edwards Water Table Spring Land Surface Relatively Impermeable Younger Formations Edwards Limestones Relatively Impermable Older Formations Balcones Fault Zone



Groundwater recharge



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Wildlife habitat



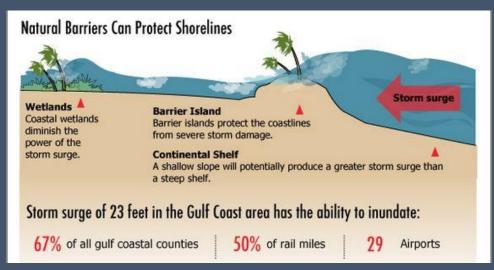














Storm protection



Wetland basics

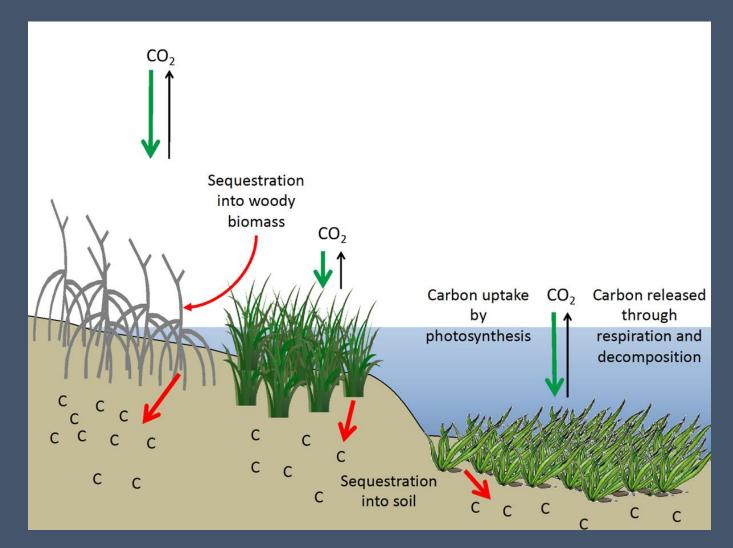
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Atmospheric regulation





Released to atmosphere Nitrogen (Fixation Microbes Decomposition Inflow Denitrification Nitrification Particle; settling Decomposition Algae & Microbes c = available carbon

Bio-filtration







Nursery habitat



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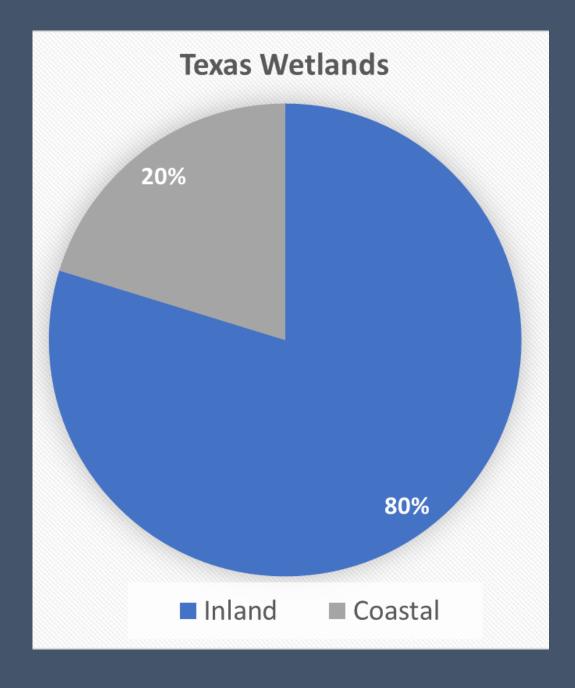
Trends

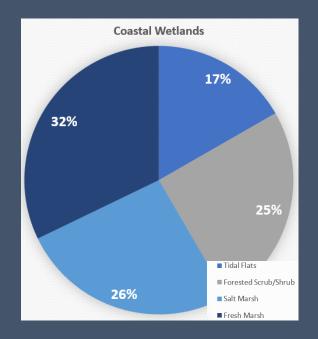
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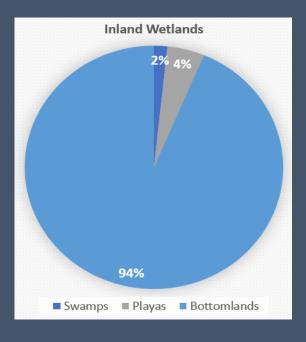
Socio-economic











Swamps

Marshes

Seeps

Oxbow Lakes

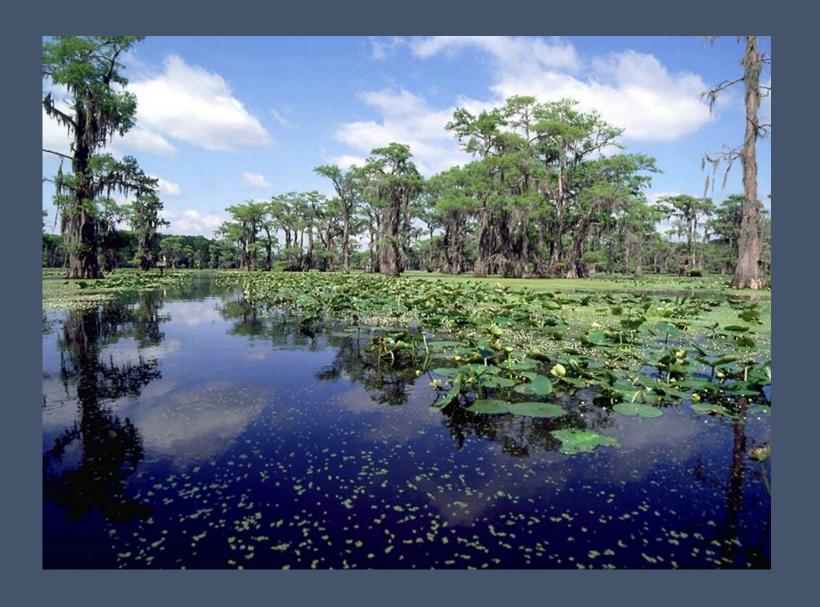


Swamps

Marshes

Seeps

Oxbow Lakes



Swamps

Marshes

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Non-tidal marshes





Tidal marshes



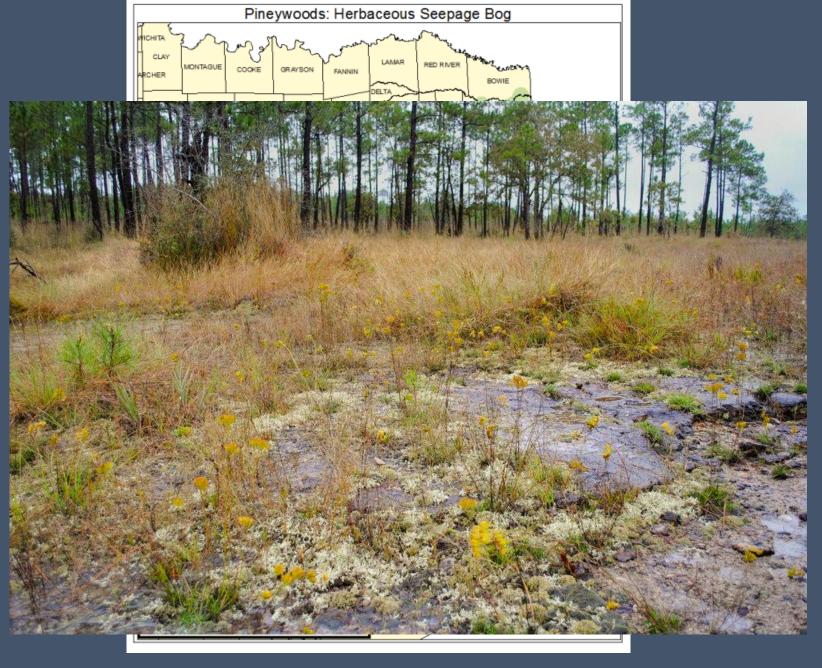
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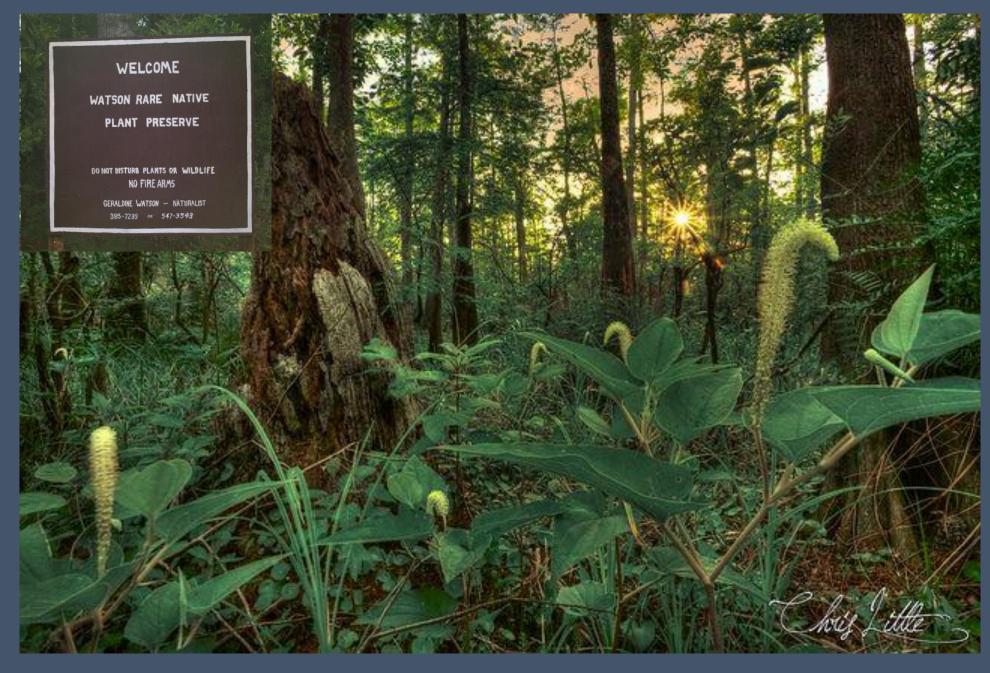
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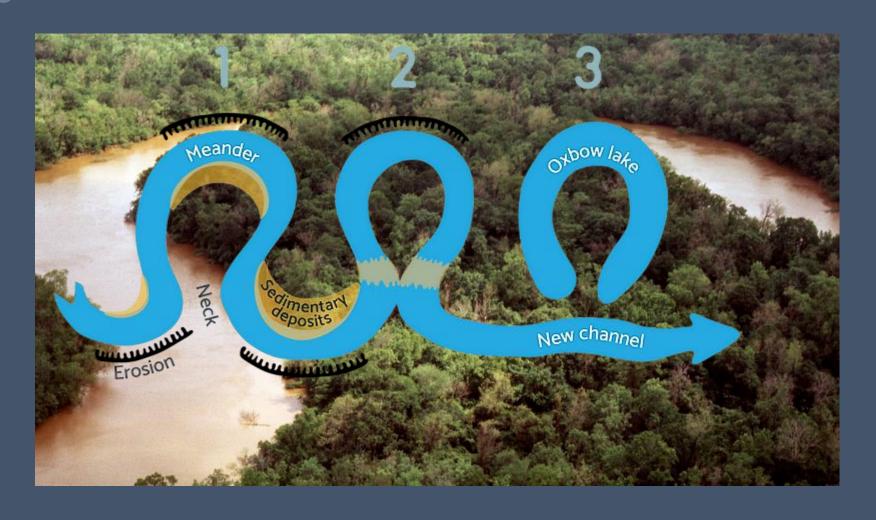
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Large-scale trends



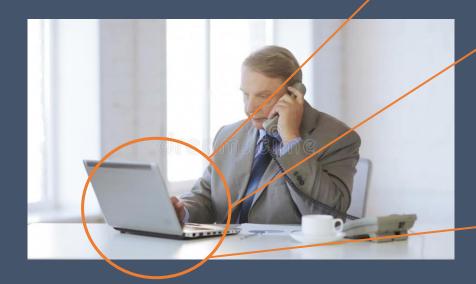
There are less wetland acres now than before. The wetlands I know about are half the size they used to be!

Circa 1990



Present day

early 1980's indicated that some areas of eastern and southeastern Texas had wetland increases, and some areas had decreases (R.G. Frye, Texas Parks and Wildlife Department, written commun., 1985). The Fws has reported, on the basis of U.S. Forest Service



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[HTML] Texas coastal wetlands: status and trends, mid-1950s to early 1990s

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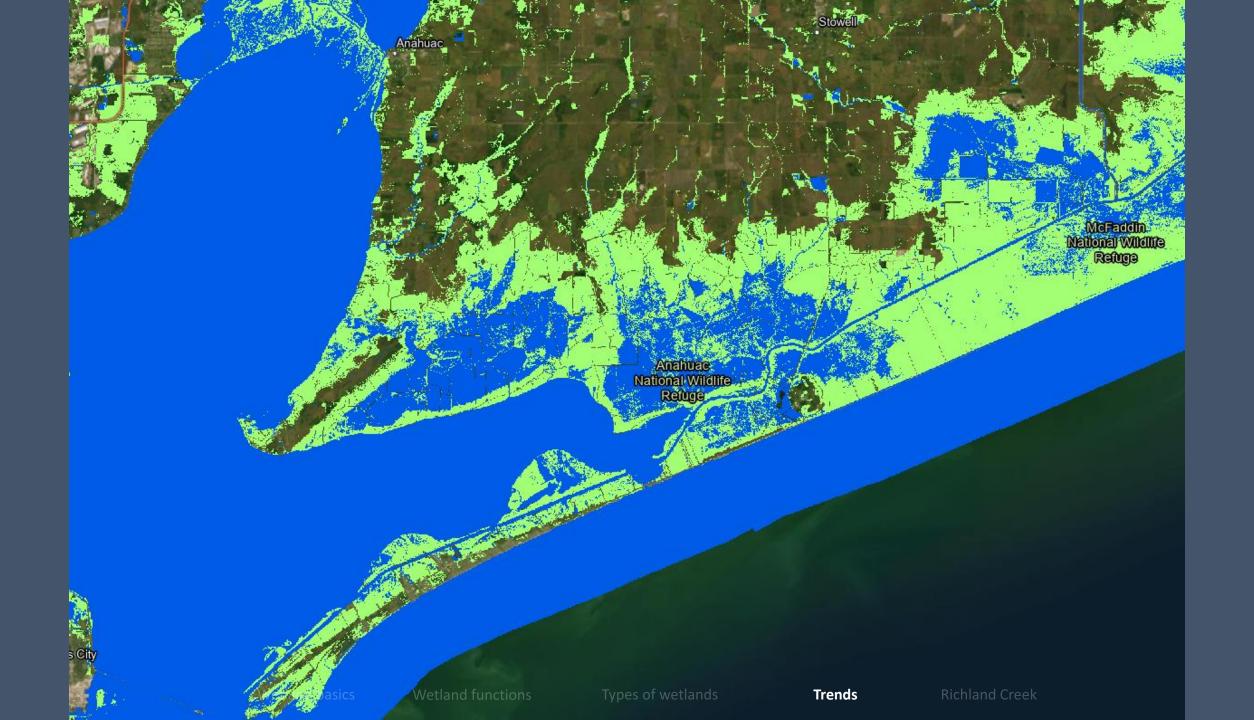


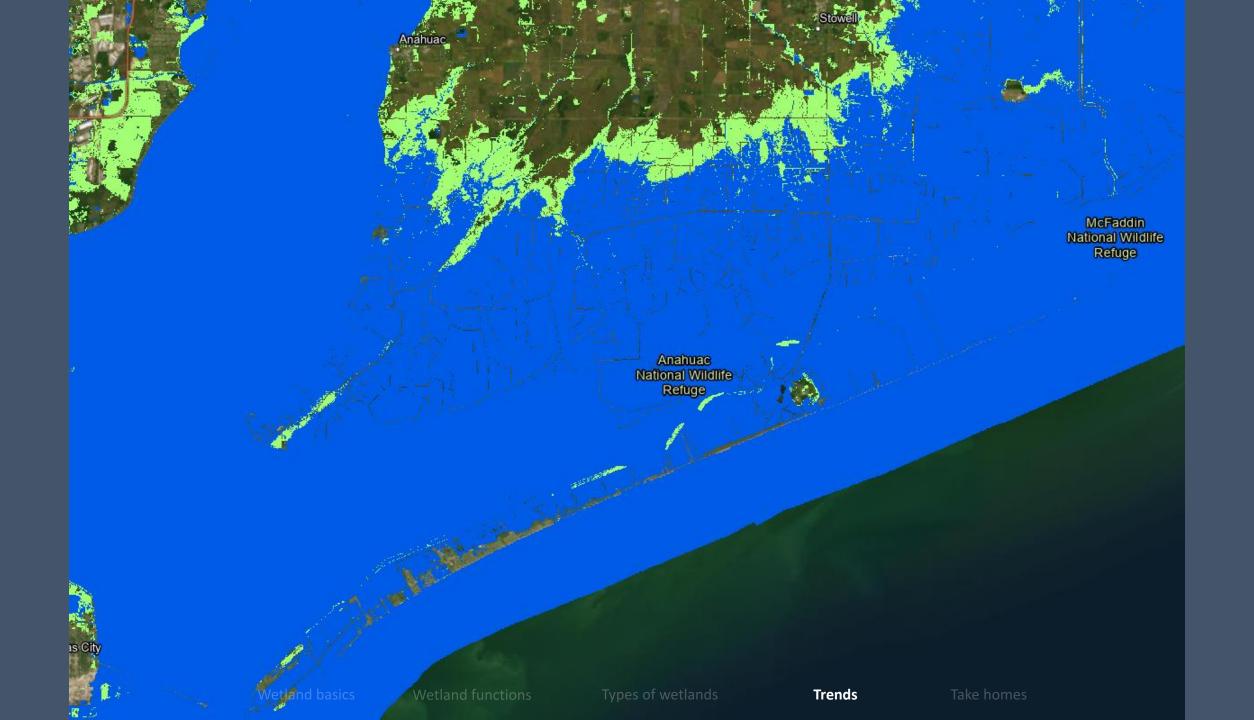












Wetland Conservation Programs























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Texas has the 5th largest number of wetland acres in the US Most being inland and in east Texas

Very diverse wetland types
Riparian, marsh, swamp, forested, bogs/seeps

Trends are difficult to define

Much of the loss due to development and damming

Future includes threats from sea level rise, development, and changing weather patterns

TPWD works with many partners to provide landowners the tools to be responsible wetland stewards

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