Priority Problem One:

HYDROLOGIC MODIFICATION

Hydrologic modifications are human-made alterations to the way in which water circulates and flows. In the Barataria-Terrebonne estuary, such modifications have altered the natural way in which water flows, and this has contributed to wetland loss.

While protecting the population from devastating floods, dams and an extensive Mississippi River levee system have reduced fresh water flowing into the estuary by as much as 70%. Fresh water is necessary because it supports freshwater habitats and because it mixes with salt water from the Gulf to create the proper salinity balance for the plants and animals that live in the estuary.

Water flow within the estuary has also been altered by the dredging of navigation channels and canals for oil and gas production. Human-made banks that result from digging these canals impede water flow and drainage. Linear canals invite salt water from open bays into isolated saltintolerant wetlands. In addition, navigation channels increase boat traffic, which in turn aggravates shoreline erosion.





