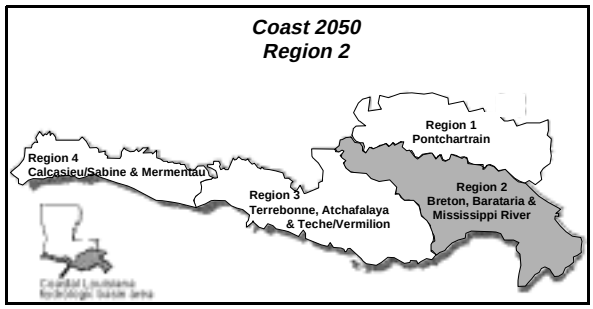
REGION 2

Region 2 includes the Breton Sound and Barataria Basins and the Mississippi River Birdsfoot Delta. It stretches from the Mississippi River Gulf Outlet (MRGO) on the east, to Bayou Lafourche on the west, and from the Mississippi River on the north to the Gulf of Mexico on the south. It covers all or part of the following parishes: St. Bernard, Plaquemines, Jefferson, Lafourche, St. Charles, St. James, St. John the Baptist, and Assumption.



Fresh marshes occur in the north, with a band of intermediate marshes to the south. The central portion contains brackish marshes, and saline marshes fringe the Gulf of Mexico and Breton Sound. The southern end of the Barataria Basin is bounded by a series of barrier headlands, islands and shoreline. Region 2 contains 894,700 acres of coastal wetlands which are classified as approximately: 90,000 acres of bottomland hardwood forests; 146,000 acres of cypress-tupelo swamps; and 220,100 acres of fresh; 73,000 acres of intermediate; 214,500 acres of brackish; and 151,100 acres of saline marshes.

This region is experiencing some of the highest rates of land loss across the Louisiana coast. Factors contributing to this deterioration include: altered hydrology; nutria herbivory; wind-induced shoreline erosion; high subsidence rates; excessive water on the marsh; saltwater intrusion via navigation and oil and gas access canals; and hurricane damage.

Habitat objectives for the year 2050 are the result of a cooperative effort between the public, parish governments, and Coast 2050 Regional Team members. Several large diversions into the Barataria Basin are proposed to extend the fresh marsh south of Little Lake and across the basin through the Myrtle Grove area. Another objective is to create a new strip of fresh marsh parallel to the Mississippi from West Point a la Hache to Venice and near the river in American Bay. A band of intermediate marsh gulfward of the fresh marsh is also desired with brackish marshes to its south. The only remaining saline marsh would be near Barataria Bay, and the barrier islands and shoreline would also be restored.

Specific ecosystem strategies for Region 2 (figure 6) center around sustaining existing wetlands and rebuilding lost wetlands by restoring more natural patterns of water movement and drainage, including: (1) restoring swamps by constructing small diversions with outfall management, and restoring natural drainage patterns; (2) restoring and sustaining existing marshes and building new marsh by increasing fluvial input through existing locks, diversions, dedicated dredging, sediment delivery, and outfall management; (3) protecting bay and lake shorelines from erosion by constructing wave absorbers and reef zones; (4) restoring and maintaining barrier islands and barrier shorelines; and (5) maintaining critical landforms (including land bridges in Perot/Rigolettes, Little Lake/Lake Salvador, and the Bayou L'Ours ridge) and possibly building the Bayou Lafourche Siphon/Pump project.

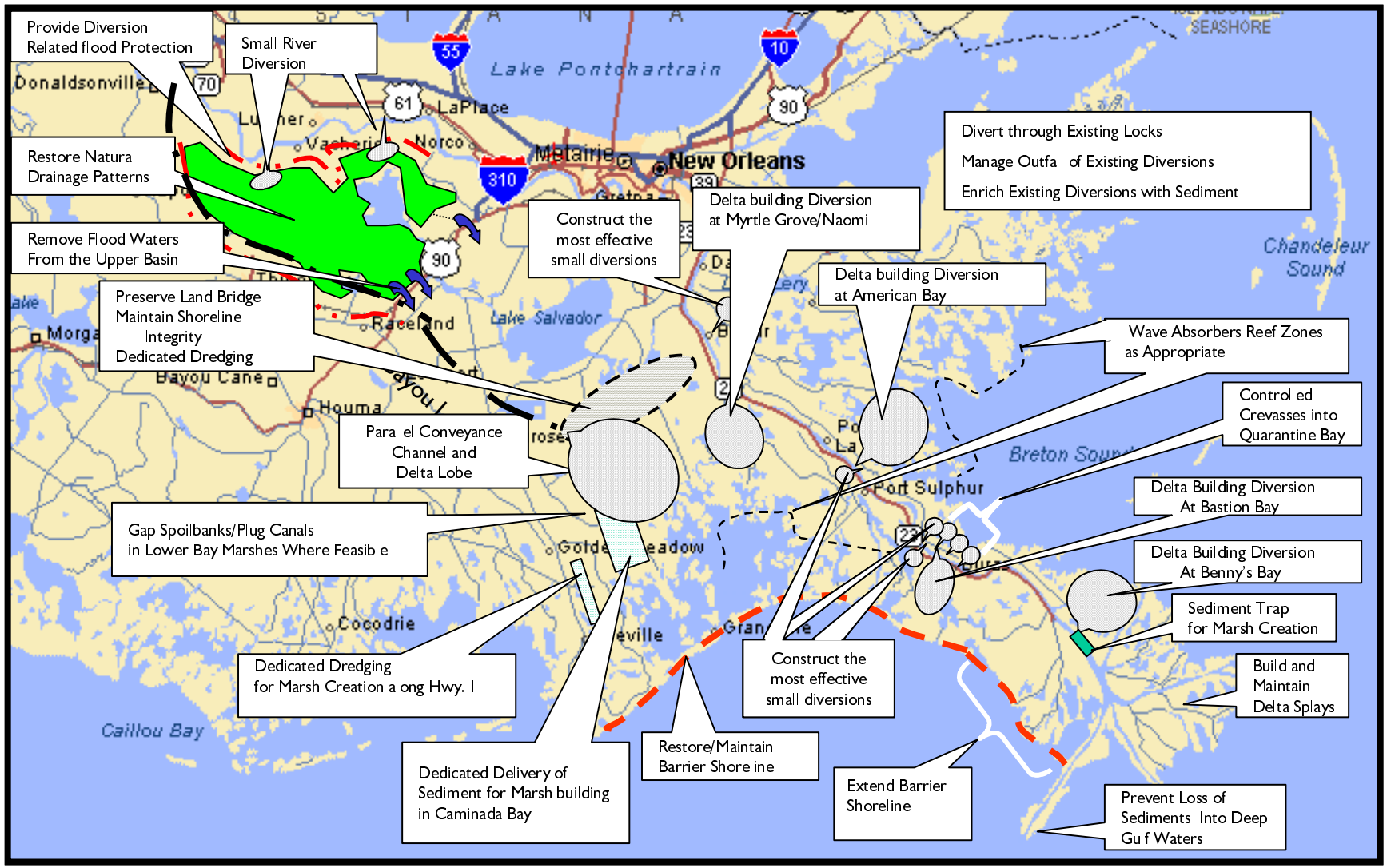


Figure 6. Coast 2050 Region 2 ecosystem strategies (Louisiana Coastal Wetlands Conservation and Restoration Task Force and the Wetlands Conservation and Restoration Authority, 1998).

REGION 2 MONITORING RESULTS

This region lost approximately 360,000 acres of wetlands between 1932 and 1990, an average of 6,207 acres/year. Estimates from the 1978-1990 time period indicate that the wetland loss rate was even higher during this shorter time period and averaged 8,960 acres per year. Because Region 2 has experienced such significant land loss, there is a high concentration of restoration projects in the area. Projects have been authorized in 104 locations in Region 2.

BREAUX ACT (CWPPRA)

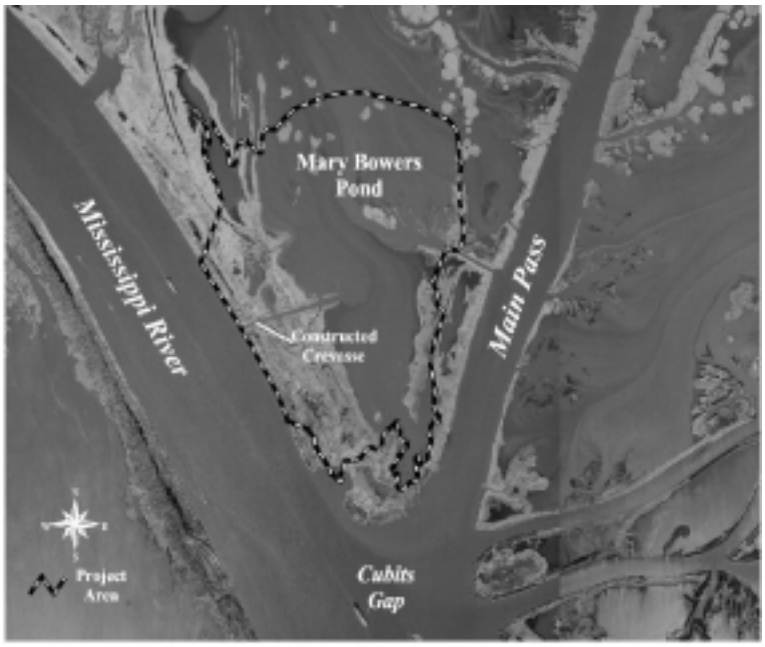
A total of 29 projects have been authorized under the direction of the Breaux Act, which are estimated to benefit 24,627 acres with a current estimated cost of $112,927,847.

One (1) out of the three (3) hydrologic restoration projects in Region 2 has been constructed to date. GIWW to Clovelly Wetlands (BA-02) addresses marsh loss by restoring more natural patterns of water dispersion and drainage. The Jonathan Davis Wetland Protection (BA-20) and Bayou L'Ours Ridge (BA-22) hydrologic restoration projects are anticipated to be constructed in 2001.

The four (4) freshwater diversion projects planned in Region 2 are all controlled diversions, and have not yet been constructed. These projects are expected to increase fluvial inputs into degraded wetland areas that have been isolated from the Mississippi River's seasonal flooding. The addition of freshwater, sediment, and nutrients will benefit these eroding areas.

The prevention of shoreline erosion on Lake Salvador and the Barataria Bay Waterway are the focus of the three (3) shoreline protection projects. Rock dikes absorb wave energy at the Barataria Bay Waterway West (BA-23; 9,400 linear ft) and Barataria Bay Waterway East (BA-26; 17,600 linear ft) projects. Besides 8,000 linear ft of rock dike, the Lake Salvador Shore Protection (BA-15) project is testing four different types of wave absorbers (10,000 linear feet total) to test the most effective means of preventing shoreline erosion. Two (2) other shoreline protection projects in the Barataria Bay Basin are currently being evaluated.

The sediment diversion at Channel Armor Gap Crevasse (MR-06) is an uncontrolled diversion in the lower Mississippi delta, similar to the state-funded Small Sediment Diversions projects. It was constructed in 1997 and was designed to distribute nutrients and sediment from the Mississippi River across the marsh surface.



Aerial Photograph of the Breaux Act Channel Armor Gap Crevasse (MR-06) project.

It is expected to create approximately 936 acres of new wetlands. Two (2) additional sediment diversion projects are approved in Region 2. The Delta Wide Crevasses (MR-09) project was constructed in 1999 to distribute river sediments and build new delta splays. These crevasses are expected to create nearly 2,400 acres of new marsh. West Bay Sediment Delivery (MR-03) is the other sediment diversion project, and will be constructed in 2001.

Queen Bess Island in Barataria Bay showing location of state (BA-05b) and Breaux Act (BA-19) projects.

Three (3) outfall management projects in Region 2 will manage diverted river water from the different freshwater diversions to improve the benefits of the diversion projects to the marsh habitat.

The two (2) remaining Breaux Act projects will utilize dredged material to create wetlands. Combination Dustpan and Cutterhead Maintenance Dredging (MR-10) is a demonstration project that will utilize dredged material from routine dredging of the Mississippi River Navigational Channel to create and restore marsh.

The Barataria Bay Waterway (BA-19) project expanded on an earlier state-funded project by creating an additional 9-acre containment area that was filled with dredge material. The size of Queen Bess Island has increased from 17 acres in 1989 to 32.3 acres in 1996 from a combination of the Breaux Act and State-funded projects. This island is an important breeding area for Louisiana's state bird, the brown pelican, with more than 1,200 nests laid and more than 2,000 chicks fledged in 1998.

Six Breaux Act projects have been deauthorized in Region2.

NON-BREAUX ACT
State

Eighteen (18) restoration projects have been implemented in Region 2 by the Coastal Restoration Division and funded through the Wetlands Trust Fund and/or local Parish funds. These projects are estimated to benefit 9,143 acres with a current estimated cost of $17,128,368. Three (3) freshwater diversion projects [Naomi Freshwater Diversion (BA-03), West Point a la Hache Diversion (BA-04), and Violet Freshwater Distribution (BS-06)] focus on restoring and creating marsh through the diversion of nutrients and sediment from the Mississippi River into adjacent marshes.

Four (4) shoreline protection projects [Baie de Chactas (BA-05c), Bayou Segnette (BA-16), Grand Isle Bay Side Breakwaters, and North Grand Isle Bay Side Breakwaters] have used shell or rock

Water from the Mississippi River flows through the siphons and into the marsh at West Point a la Hache Diversion (BA-04).

to protect and rebuild shorelines by absorbing wave energy and preventing erosion. Queen Bess Island (BA-05b), a beneficial use of dredge material project, has helped to restore this important coastal island. This project also restored critical nesting habitat for Louisiana's state bird, the brown pelican.

Ten (10) sediment diversion projects (Small Sediment Diversions) have been constructed in the active Mississippi River Delta. These crevasses cumulatively produced 313 ac of emergent marsh between 1986 and 1993; land growth rates ranged from 28 to 103 ac per crevasse for the older crevasses (4 to 10 years old) and 0.5 to 12 ac (0.2 to 4.9 ha) for the younger crevasses (0 to 2 years old).

Parish Coastal Wetlands Restoration Program

Christmas tree fences may be one of the most well-known restoration techniques. Every year, thousands of south Louisiana residents donate their old Christmas trees to help restore and build marsh. These projects are a low-cost means of protecting shorelines from erosion and trapping vital nutrients and sediment.

Christmas tree projects have been completed at six (6) sites including Goose Bayou, Whiskey Canal, Leeville, Fourchon, Eighty Arpent Canal, and Bayou Lafourche totaling 18,045 linear feet of protective fences.

Both Army National Guard helicopters (top) and volunteers (bottom) are used in Jefferson Parish to build Christmas tree fences.

DNR/NRCS/SWCC Vegetation Planting Program

Through vegetation planting projects at 44 sites, approximately 141,780 stems of wetland grasses (mostly smooth cordgrass) and mangroves have been planted since 1988. Some of these sites have been planted in multiple project years. Combined, these projects cover 395,202 linear feet.

Biologists use stakes to support newly planted vegetation along Bayou LaTour.

Section 204/1135

Three (3) Section 204/1135 projects have been constructed in Region 2. The two (2) Barataria Bay Waterway projects used dredged material to create approximately 205 acres of new marsh along 6.5 miles of Barataria Bay Waterway. Dredged material was used to create approximately 115 aces of new marsh on Grand Terre Island in 1996.

Federal (WRDA)

The projects with the largest acreage of benefitted wetlands are the two (2) freshwater diversion projects authorized under the federal Water Resources Development Act. The Davis Pond Freshwater Diversion project will be completed in 2001, and will preserve 33,000 acres of deteriorating wetlands in the Barataria basin.

Davis Pond Freshwater Diversion under construction.

Davis Pond Freshwater Diversion construction site along the Mississippi River.

The Caernarvon Freshwater Diversion was completed in 1991. The project area includes 55,440 acres of wetlands in the Breton Sound hydrologic basin. An aerial photography analysis in 1997 indicated an increase of 406 acres of wetlands in a 9,213 acre subsample within the outfall area of this project within a 3-year period. This represents a 5.9% increase per year in emergent wetlands.

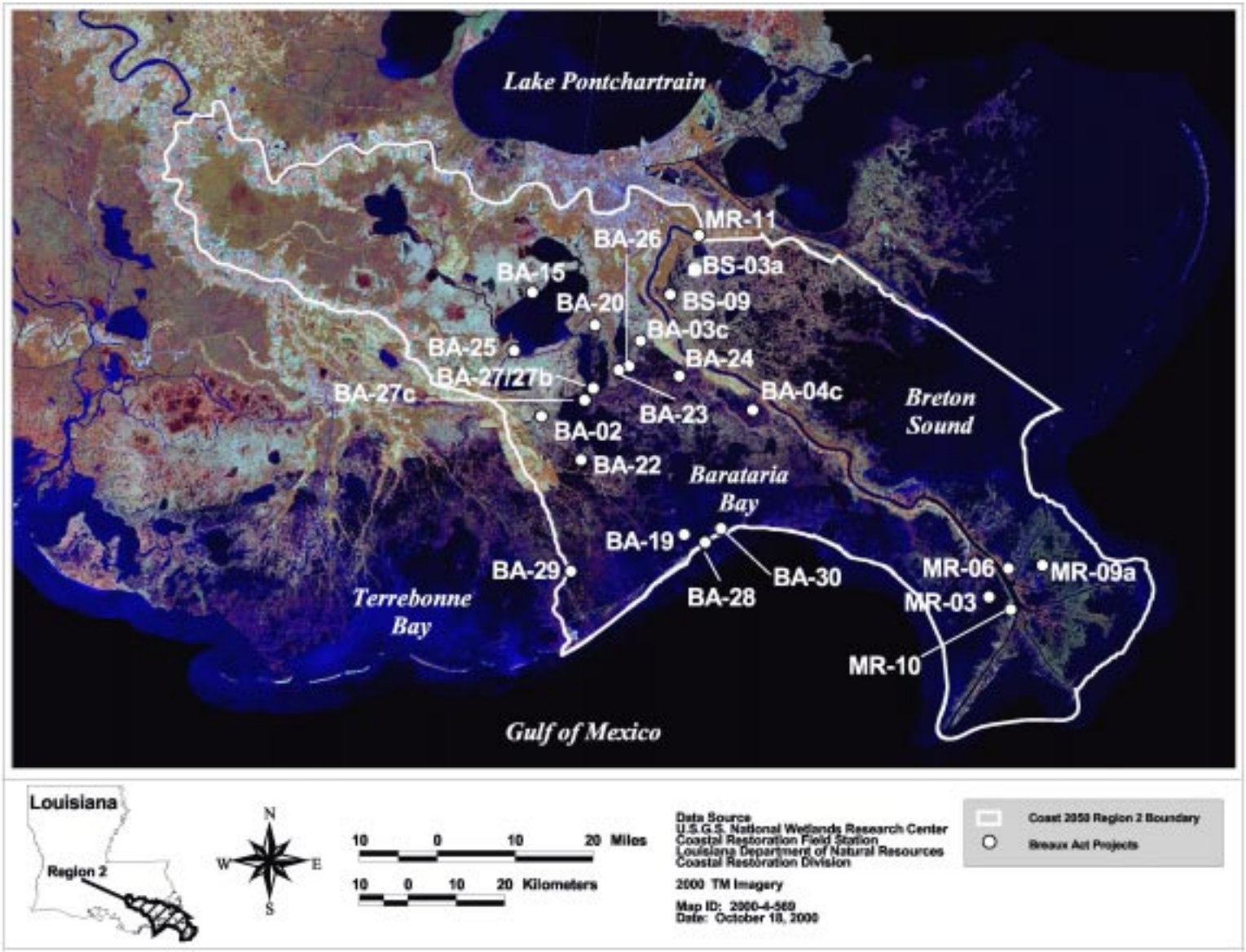


Figure 7. Location of Breaux Act projects authorized in Coast 2050 Region 2.

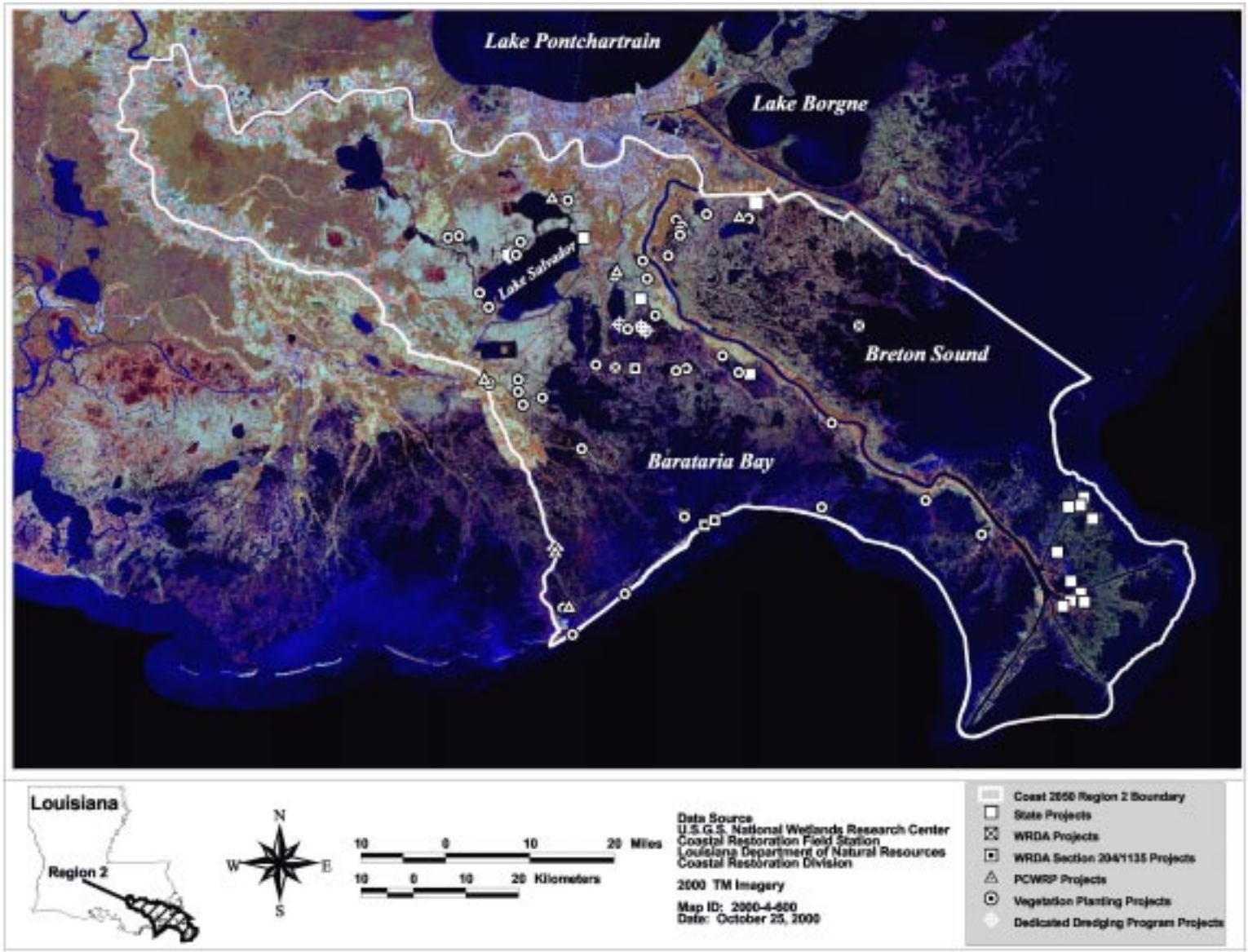


Figure 8. Location of non-Breaux Act projects in Coat 2050 Region 2.

Table 2. Restoration projects completed or pending in Coast 2050 Region 2.

Restoration Program[1]	Project Number[2]	Project Name	Project Type[3]	PPL[4]	Agency/ Sponsor[5]	Senator/Representative	Parish	Anticipated Acres Benefitted[6]	Activities[7]			Original Baseline Cost (top) and Current Cost Estimate (bottom)[8]
									Engineering, Design, and Landrights	Construction	Operation, Maintenance and Monitoring	
Breaux Act	BA-02 (BA-02)	**GIWW to Clovelly Hydrologic Restoration (Revised)**	HR	1	NRCS	Sen. Michael Robichaux, M.D. Rep. Loulan Pitre, Jr.	Lafourche	2,052	C $986,900	2000 $4,870,000	I $2,471,703	$8,141,512 $8,328,603
		This project will protect and maintain approximately 2,052 acres of intermediate marsh in the project area by restoring natural hydrologic conditions that promote greater use of available freshwater and nutrients. This will be accomplished by greater freshwater retention and utilization, limiting rapid water level changes, slowing water exchange through over-bank flow, reducing rapid salinity increases, and reducing saltwater intrusion. (The construction of Unit 1 was completed in 1997).										
	BA-03c (BA-03c)	**Naomi Outfall Management**	OM	5	NRCS	Sen. Lynn B. Dean & C. Ullo Rep. Ernest Wooten	Plaquemines	633	C $240,500	2001* $784,000	I $1,078,150	$1,686,865 $2,102,650
		This project was authorized to manage freshwater diverted from the Mississippi River through the Naomi siphons via the installation of two water control structures designed to reduce freshwater loss and saltwater intrusion. Specific goals are to reduce the rate of conversion of marsh to open water, increase relative abundance of intermediate to fresh marsh type plant species, and decrease mean salinity within the project area.										
	BA-04c (BA-04c)	**West Point a la Hache Outfall Management**	OM	3	NRCS	Sen. Lynn B. Dean Rep. Ernest Wooten	Plaquemines	1087	C $637,409	2002* $1,587,667	NI $1,666,193	$881,148 $4,068,045
		This project provides for management of the West Pointe a la Hache Siphon outfall area to maximize the retention of freshwater, nutrients, and sediment within interior brackish marshes to counteract salt water intrusion and wetland loss.										
	BA-15 (BA-15)	**Lake Salvador Shore Protection (Demonstration) Phase I, II**	SP	3	NMFS	Sen. Joel T. Chaisson, II Rep. Gary L. Smith	St. Charles	N/A	C $350,635	1997-I 1998-II $1,997,332	I $195,131	$1,444,628 $2,543,098
		Phase 1 of the project tested four types of shoreline protection structures in an area of high wave energy and unstable soils. Phase 2 of the project included the installation of 8,000 ft of a continous rock structure along the northwest shore of Lake Salvador, beginning at Bayou des Allemands and proceeding northeast. Both phases have been completed.										
	BA-18 (BA-18)	**Fourchon Hydrologic Restoration**	HR	1	NMFS	Sen. Michael Robichaux, M.D. Rep. Loulan Pitre, Jr.	Lafourche	N/A	$6,999	Deauthorized $0	$0	$252,036 $6,999
		This project, located in Lafourche Parish, was intended to restore typical estuarine functions to an impounded area by establishing regular tidal exchange and reducing mean water levels. The project was officially deauthorized by the CWPPRA Task Force on July 14, 1994 at the request of the landowner.										
	BA-19 (BA-19)	**Barataria Bay Waterway Marsh Creation**	MC	1	USACE	Sen. J. Chris Ullo Rep. Ernest Wooten	Jefferson	445	C $151,291	1996 $945,678	I $83,424	$1,759,257 $1,180,393
		Phase 1 of this project is located at Queen Bess Island, east of the Barataria Bay Waterway and north of Grand Isle in Jefferson Parish. The project was originally planned to create 445 acres of marsh over the 20-year project life. Phase 1 actually created 9 acres. Phase 2 will be located at some of the fourteen (14) other dredge fill areas planned for this project. Phase 1 of construction was completed in October 1996. Another dredge cycle is scheduled for 2000.										

(Continued)

Restoration Program[1]	Project Number[2]	Project Name	Project Type[3]	PPL[4]	Agency/ Sponsor[5]	Senator/Representative	Parish	Anticipated Acres Benefitted[6]	Activities[7]			Original Baseline Cost (top) and Current Cost Estimate (bottom)[8]
									Engineering, Design, and Landrights	Construction	Operation, Maintenance and Monitoring	
Breaux Act (continued)	BA-20 (PBA-35)	**Jonathan Davis Wetland Protection (PBA-35)**	HR	2	NRCS	Sen. J. Chris Ullo Rep. Ernest Wooten	Jefferson	510	I $580,876	2001* $1,965,338	NI $1,371,146	$3,398,867 $3,917,360
		This hydrologic restoration project utilizes structural measures, including a 34,000 ft (10.4 km) rock dike for shoreline stabilization along the entire southern boundary of the project area to reduce shoreline erosion and restore hydrologic conditions that will reduce water level and salinity fluctuations (variability), allow greater freshwater retention to increase emergent vegetation, and create conditions conducive to the maintenance of fresh and intermediate marsh. Phase I of this project is complete.										
	BA-21 (XBA-65a)	**Bayou Perot and Bayou Rigolettes Marsh Restoration**	MC	3	NMFS	Sen. J. Chris Ullo Rep. Ernest Wooten		N/A	 $13,574	Deauthorized $1,294	 $6,095	$1,835,047 $20,963
		This project was initially authorized to protect deteriorated intermediate to brackish marsh located between Lake Salvador and Little Lake by using spray dredge sediment to create a 250 ft wide berm in order to reestablish the shoreline. Due to an unstable and rapidly eroding site, the project was deemed unfeasible and deauthorized on January 16, 1998 at the recommendation of both the federal sponsor and the State.										
	BA-22 (PBA-34i)	**Bayou L'ours Ridge Hydrologic Restoration**	HR	4	NRCS	Sen. Michael Robichaux, M.D. Rep. Loulan Pitre, Jr.	Lafourche	737	I $374,454	2001* $1,149,900	NI $1,268,867	$2,418,676 $2,793,221
		This project will restore natural hydrologic flow to the marsh by reinforcing breached areas of the Bayou L'Ours Ridge through a series of canal closures and two water control structures designed to prevent an increase in saltwater intrusion and reduce the influence of tidal action.										
	BA-23 (PBA-12a)	**Barataria Bay Waterway West Side Shoreline Protection**	SP	4	NRCS	Sen. J. Chris Ullo Rep. Ernest Wooten	Jefferson	232	I $254,963	2000 $2,172,232	NI $877,592	$2,192,418 $3,304,787
		This project will restore the natural hydrology within the marsh by reconstructing the Barataria Bay Waterway (BBW) shoreline through the use of dredged material and rock armoring along 9,400 linear ft of the west bank. This hydrologic barrier will protect marsh from excessive wave energy, water level fluctuations, and saltwater intrusion from the BBW.										
	BA-24 (XBA-48a)	**Myrtle Grove Siphon (Phase 1)**	FD	5	NMFS	Sen. Lynn B. Dean Rep. Ernest Wooten	Plaquemines	1,119	I $4,139,639	2003* $8,990,361	NI $1,962,773	$15,525,950 $15,092,773
		This freshwater diversion project will divert a maximum discharge of 2,100 cfs into the project area, providing the marsh with freshwater, nutrients, and sediment. In addition, it will include a mile of leveed and armored outfall channel, a new pump, and a low-level fixed crest weir. The project is being carried out in three phases.										
	BA-25 (PBA-20)	**Bayou Lafourche Siphon (Phase 1)**	FD	5	EPA	Sen. Michael Robichaux, M.D. Rep. Loulan Pitre, Jr.	Terrebonne/ Lafourche	988	I $1,500,000	No Date $3,778,665	NI $3,112,789	$24,487,337 $8,391,454
		This phase of the project involves the study of questions regarding the installation of eight large diversion pipes to pump 1000 cfs of freshwater and reduce marsh loss adjacent to Bayou Lafourche through the introduction of nutrient and sediment laden river water. The siphon should also enhance benefits from the GIWW/Grand Bayou Diversion Project (TE-10).										

(Continued)

Restoration Program[1]	Project Number[2]	Project Name	Project Type[3]	PPL[4]	Agency/ Sponsor[5]	Senator/Representative	Parish	Anticipated Acres Benefitted[6]	Activities[7]			Original Baseline Cost (top) and Current Cost Estimate (bottom)[8]
									Engineering, Design, and Landrights	Construction	Operation, Maintenance and Monitoring	
Breaux Act (continued)	BA-26 (PBA-12b)	**Barataria Bay Waterway East "Dupre Cut" Bank Protection**	SP	6	NRCS	Sen. J. Chris Ullo Rep. Ernest Wooten	Orleans/ Jefferson	217	C $565,809	2001* $5,106,060	NI $1,307,290	$5,019,900 $6,979,159
		This project will rebuild and stabilize the banks of the Dupre Cut section of the Barataria Bay Waterway (BBW) by installing approximately 17,600 linear feet (5,366 m) of rock dike on the east bank of the BBW to protect the adjacent marsh from erosion due to boat wakes and saltwater intrusion.										
	BA-27/27b (XBA-63/63ii)	**Barataria Bay Basin Shoreline Protection (Phase I and II)**	SP	7, 8	NRCS	Sen. J. Chris Ullo & M. Robichaux Rep. Ernest Wooten	Jefferson/ Lafourche	1,304	I $1,826,285	No Date $14,069,446	NI $1,619,289	$17,515,029 $17,515,020
		Phase I of this project will protect a deteriorated intermediate to brackish marsh located between Lake Salvador and Little Lake by reducing shoreline erosion, while Phase II of this project will provide 14,000 linear ft of shoreline protection along Bayous Perot and Rigolettes within the Barataria Basin, also designed to abate shoreline erosion.										
	BA-27c (XBA-63iii)	**Barataria Basin Landbridge Shore Protection Phase 3**	SP	9	NRCS	Sen. J. Chris Ullo & M. Robichaux Rep. Ernest Wooten	Jefferson/ Lafourche	264	NI $1,023,640	No Date $0	NI $16,955	$1,040,595 $1,040,595
		This project encompasses about 37,000 feet of shoreline protection. About 20,000 feet of protection would be along the west bank of Bayou Perot and the north shore of Little Lake in Lafourch Parish. In Jefferson Parish, about 11,000 feet of the protection would be along the east bank of bauyous Rigolettes and Perot and about 3,000 feet along each bank of Harvey Cutoff. This project is currently in the Phase 1 evaluation process.										
	BA-28 (XBA-1a-i)	**Vegetative Planting of Grand Terre Island**	VP	7	NMFS	Sen. J. Chris Ullo Rep. Ernest Wooten	Jefferson	127	I $269,004	2001* $486,451	NI $209,575	$928,900 $965,030
		The objective of this project is to stabilize two different dredge material sites on Grand Terre Island including: (1) a 1996 USACE dredged disposal area that is completely devoid of vegetation, and (2) a future 80 acre dredge material platform through development and implementation of a planting protocol to re-vegetate the disposal areas with native flora.										
	BA-29 (BA-32a)	**Marsh Creation South of Leeville**	MC	9	EPA	Sen. Michael Robichaux, M.D. Rep. Loulan Pitre, Jr.	Lafourche	146	NI $1,409,300	No Date $0	NI $23,851	$1,151,484 $1,433,151
		The objective of this project is to create marsh habitat in a large open water area adjacent to LA Highway 1 using dredge material from a nearby area. This project is currently in the Phase 1 evaluation process. Engineering is anticipated to begin in January 2001.										
	BA-30 (XBA-01a)	**East/West Grand Terre Islands Restoration**	BI/ MC	9	NMFS	Sen. Lynn B. Dean Rep. Ernest Wooten	Jefferson	472	NI $2,281,197	No Date $0	NI $39,058	$1,856,203 $2,320,255
		This project will restore East Grand Terre by creating 74 acres of dune and 212 acres of marsh habitat. The barrier shoreline of West Grand Terre will be restored by constructing 40 acres of dune from the Lyle St. Amant Laboratory to the Corps of Engineers disposal area. This project is currently in the Phase 1 evaluation process.										

(Continued)

Restoration Program[1]	Project Number[2]	Project Name	Project Type[3]	PPL[4]	Agency/ Sponsor[5]	Senator/Representative	Parish	Anticipated Acres Benefitted[6]	Activities[7]			Original Baseline Cost (top) and Current Cost Estimate (bottom)[8]
									Engineering, Design, and Landrights	Construction	Operation, Maintenance and Monitoring	
Breaux Act (continued)	BS-03a (BS-03a)	**Caernarvon Outfall Management**	OM	2	NRCS	Sen. Lynn B. Dean Rep. Ernest Wooten	Plaquemines	802	C $343,940	2002* $1,868,900	NI $1,883,038	$2,522,199 $4,095,878
		This project was authorized to increase freshwater dispersion into interior marshes that are currently isolated from Caernarvon Diversion flow during low discharge periods by incorporating culverts, plugs, and spoilbank restoration. Retention of freshwater within the brackish marsh should increase emergent marsh vegetation and diversity, reduce saltwater intrusion and salinity spikes, and increase the occurrence of SAVs in shallow open-water areas.										
	BS-04a (BS-04a)	**White's Ditch Outfall Management**	OM	3	NRCS	Sen. Lynn B. Dean Rep. Ernest Wooten	Plaquemines	N/A	 $25,341	Deauthorized $0	 $7,521	$756,134 $32,862
		This project was designed to direct the flow of Mississippi River nutrients and sediment into deteriorating wetlands in the Breton Sound basin that are not directly benefitted by the Caernarvon Freshwater Diversion Project. Failure to secure landrights lead to deauthorization of the project on March 30, 1998.										
	BS-07 (PBS-06)	**Grand Bay Crevasse**	SD	4	USACE	Sen. Lynn B. Dean Rep. Ernest Wooten	Plaquemines	N/A	 $61,115	Deauthorized $0	 $3,327	$2,468,908 $64,442
		This project, located in Plaquemines Parish, was designed to rearrange 1,500 tons of rock at the head of the Jurgevich Canal, which would allow 20,000 cfs of freshwater to flow into the Grand Bay area. Deauthorization was due to objections from the primary landowner. The project was officially deauthorized by the CWPPRA Task Force on July 23, 1998.										
	BS-09 (PBS-1)	**Upper Oak River Freshwater Siphon Phase 1**	FD	8	NRCS	Sen. Lynn B. Dean Rep. Ernest Wooten	Plaquemines	339	I $1,423,227	No Date $820,014	NI $60,305	$2,500,239 $2,500,239
		The primary goal of this project is to reverse the trend of interior marsh breakup in the project area due to saltwater intrusion through installation of a 1,000 cfs freshwater siphon and outfall channel that will provide fresh nutrients and sediment to enhance marsh health.										
	MR-03 (FMR-03)	**West Bay Sediment Delivery**	SD	1	USACE	Sen. Lynn B. Dean Rep. Ernest Wooten	Plaquemines	9,831	I $1,079,200	2001* $4,441,354	NI $11,152,398	$8,517,066 $16,673,000
		This project is an uncontrolled sediment diversion designed to create approximately 9,931 acres of fresh and intermediate marsh through the diversion and capture of fluvial sediments from the Mississippi River. This project has been held up in the planning stages but work is scheduled to begin in the Fall of 2000.										
	MR-06 (XMR-10)	**Channel Armor Gap Crevasse**	SD	3	USACE	Sen. Lynn B. Dean Rep. Ernest Wooten	Plaquemines	936	C $266,788	1997 $242,154	I $393,778	$808,397 $902,720
		The objective of this project is to promote the formation of emergent freshwater marsh in place of a shallow, open water area by increasing the flow of sediment-laden river water into the receiving bay. Specific goals are to increase elevation and cover of emergent wetland vegetation in the project area. To date, data on suspended sediments and river discharge, elevation, and land to water ratio have been collected but only to described preconstruction conditions. Although no subaerial land has formed in the project area after two years, shoals are evident in areas of the receiving bay nearest the crevasse.										

(Continued)

Restoration Program[1]	Project Number[2]	Project Name	Project Type[3]	PPL[4]	Agency/ Sponsor[5]	Senator/Representative	Parish	Anticipated Acres Benefitted[6]	Activities[7]			Original Baseline Cost (top) and Current Cost Estimate (bottom)[8]
									Engineering, Design, and Landrights	Construction	Operation, Maintenance and Monitoring	
Breaux Act (continued)	MR-07 (MR-8/9)	**Pass-a-Loutre Crevasse**	SD	3	USACE	Sen. Lynn B. Dean Rep. Ernest Wooten	Plaquemines	N/A	 $108,114	Deauthorized $0	 $11,743	$2,857,790 $119,857
		Marsh creation and restoration was the objective of this project, to be accomplished through construction of a crevasse on the left descending bank of the Mississippi River between Pass-a-Loutre and Raphael Pass. The project was officially deauthorized on July 23, 1998 due to high costs attributed to relocating underground utilities in the area. A suitable alternative site could not be found by the federal sponsor.										
	MR-08 (XMR-12)	**Beneficial Use of Hopper Dredged Material (Demonstration)**	DM	4	USACE	Sen. Lynn B. Dean Rep. Ernest Wooten	Plaquemines	N/A	C $52,283	Deauthorized $0	I $626	$300,000 $52,909
		This 3 year demonstration project will be the first project to utilize hopper dredged material to create emergent vegetated marsh in an area that is currently a shallow, open-water pond. More specifically, the goals are to create one acre of emergent vegetated marsh for every 15,000 cubic yards of dredged material deposited in the project area, increase mean elevation, and increase abundance of emergent wetland vegetation. This project is in the process of being deauthorized due to design problems.										
	MR-09a (PMR-10)	**Delta-Wide Crevasses**	SD	6	NMFS	Sen. Lynn B. Dean Rep. Ernest Wooten	Plaquemines	2,386	C $278,034	1999 $471,360	NA $398,259	$5,473,934 $4,732,653
		The project consists of maintaining presently existing crevasse-splays, the construction of new crevasse-splays, and future maintenance of selected crevasse-splays in both the Pass-A-Loutre Wildlife Management Area (PALWMA) and the Delta National Wildlife Refuge (DNWR). The objective is to promote the formation of emergent freshwater and intermediate marsh. To date, all crevasses have been dredged or re-dredged in accordance with the plan.										
	MR-10 (XMR-12b)	**Combination Dustpan and Cutterhead Maintenance Dredging (Demonstration)**	DM	6	USACE	Sen. Lynn B. Dean Rep. Ernest Wooten	Plaquemines	N/A	NI $169,614	No Date $1,424,386	NI $46,000	$1,600,000 $1,640,000
		This project will use dredge material from routine maintenance of the Mississippi River Navigation Channel to create and restore adjacent marsh. Approximately 273 acres of deteriorated marsh will be restored with approximately 1.76 million cubic yards of dredge material over the course of three years, with the expectation of an increase in marsh.										
	MR-11 (MR-DEMO)	**Periodic Introduction of Sediments at Selected Diversion Sites (Demonstration)**	FD	9	USACE	Sen. Lynn B. Dean Rep. Ernest Wooten	Plaquemines	N/A	NI $69,640	No Date $0	NI $40,090	$109,730 $109,730
		This project will demonstrate the effectiveness of using a dredge to provide sediment input into a diversion structure, where monitoring would determine the characteristics of sediment input concentrations as well as effects in the outfall area. This project is currently in the Phase 1 evaluation process.										
State	BA-03	**Naomi Diversion**	FD	N/A	N/A	Sen. Lynn B. Dean & J. Ullo Rep. Ernest Wooten	Jefferson/ Plaquemines	1,318	C	1992	I	$6,666,667
		This project involves the construction of eight (8) parallel siphons to divert water from the Mississippi River, over the levee, and into the adjacent wetlands near Naomi, Louisiana. The maximum discharge of the siphons is 2,400 cfs and they will potentially deliver nearly 150,000 cu yards of river sediment into the wetlands annually.										

(Continued)

Restoration Program[1]	Project Number[2]	Project Name	Project Type[3]	PPL[4]	Agency/ Sponsor[5]	Senator/Representative	Parish	Anticipated Acres Benefitted[6]	Activities[7]			Original Baseline Cost (top) and Current Cost Estimate (bottom)[8]
									Engineering, Design, and Landrights	Construction	Operation, Maintenance and Monitoring	
State (continued)	BA-04	**West Pointe a la Hache**	FD	N/A	N/A	Sen. Lynn B. Dean Rep. Ernest Wooten	Plaquemines	718	C	1992	I	$6,081,800
		This project involves the construction of eight (8) parallel siphons to divert water from the Mississippi River, over the levee, and into the adjacent wetlands on the west side of the river near Pointe a la Hache, Louisiana. The maximum diacharge of the siphons is 2,400 cfs and they will potentially deliver nearly 150,000 cu yards of river sediment into the wetlands annually.										
	BA-05b	**Queen Bess**	DM	N/A	N/A	Sen. J. Chris Ullo Rep. Ernest Wooten	Jefferson	15	C	1990	C	$161,250
		The purpose of this project was to restore Queen Bess Island as a brown pelican rookery. Dredged material was added to the island to increase it's size in 1991, and a rock dike was installed around the perimeter of the original island in 1992 to armor the shoreline from erosion.										
	BA-05c	**Baie de Chactas**	SP	N/A	N/A	Sen. Joel T. Chaisson, II Rep. Gary L. Smith	St. Charles	130	C	1990	C	$175,000
		Approximately 300,000 lbs of crushed oyster shell was placed on 7,400 ft of shoreline to restore the physical integrity of the marsh shore separating Lake Salvador and Baies de Chactas and Cabanage.										
	BA-16	**Bayou Segnette**	SP	N/A	N/A	Sen. J. Chris Ullo Rep. Ernest Wooten	Jefferson	88	C	1994, 1998	I	$1,373,151
		This project armored and re-defined approximately 6,800 linear feet of shoreline separating Bayou Segnette form Lake Salvador. Maintenance of this project was necessary in FY 1998-1999 at a cost of $300,000.										
	BS-06	**Violet Freshwater Distribution**	FD	N/A	N/A	Sen. Lynn B. Dean Rep. Kenneth L. Odinet, Sr.	St. Bernard	100	C	1997	I	$1,000,000
		This project involved the construction of a pumping station located along the south central edge of the St. Bernard Parish Ridge to discharge collected rainfall into the marsh north of lake Lery to help prevent saltwater intrusion. The project was built in partnership with Lake Borgne Basin Levee District and was completed in May 1997.										
		Grand Isle Bay Side Breakwaters	SP	N/A	N/A	Sen. J. Chris Ullo Rep. Loulan Pitre, Jr.	Jefferson	5	C	1995	I	$500,000
		The purpose of this project was to reduce erosion on the bay side of Grand Isle. Fifteen (15) - 300' breakwaters were constructed on the back bay side of Grand Isle.										
		North Grand Isle Breakwaters	SP	N/A	N/A	Sen. J. Chris Ullo Rep. Loulan Pitre, Jr.	Jefferson	50	C	1995	N/A	$160,000
		This project was authorized to construct segmented rock breakwaters on the bay side of Grand Isle to protect camps located between Caminada Bay and the west side of LA Hwy 1. DNR contributed no construction funds, and was involved in construction inspection only. The local Levee District supplied construction funds. Construction was completed in June 1995.										
		Small Sediment Diversions (10 projects)	SD	N/A	N/A	Sen. Lynn B. Dean Rep. Ernest Wooten	Plaquemines	6,719	C	1986, 1991	I	$1,010,500
		These projects include the construction of three (3) new crevasses constructed in FY 86-87 at South Pass, Loomis Pass, and Pass-a-Loutre; four (4) new crevasses constructed as Pass-a-Loutre 1, 2, 3a, and 3b in FY 90-91, and; three (3) new crevasses created in South Pass (2, 3, and 4) in FY 90-91.										

(Continued)

Restoration Program[1]	Project Number[2]	Project Name	Project Type[3]	PPL[4]	Agency/ Sponsor[5]	Senator/Representative	Parish	Anticipated Acres Benefitted[6]	Activities[7]			Original Baseline Cost (top) and Current Cost Estimate (bottom)[8]
									Engineering, Design, and Landrights	Construction	Operation, Maintenance and Monitoring	
PCWRP		**Goose Bayou**	SP	N/A	N/A	Sen. J. Chris Ullo Rep. Ernest Wooten	Jefferson	23	C	1991-2000	I	$324,500
		Goose Bayou is located north of The Pen in Jefferson Parish. The brush fences were constructed to protect the shoreline and promote sediment accretion and vegetation growth at the shoreline. The project was built in 1991 and 1992, with maintenance annually. This includes projects at Bayou Cypress, Bayou LeFleur, and Bayou La Tour.										
		Whiskey Canal	SP	N/A	N/A	Sen. J. Chris Ullo Rep. John A. Alario, Jr.	Jefferson	2	C	1997	I	$18,000
		Whiskey Canal is located north of Lake Cataouatche in Jefferson Parish. The brush fences were constructed to prevent erosion at the intersection of two canals. The project was built in 1997 with periodic maintenance thereafter.										
		Leeville #1	SP	N/A	N/A	Sen. Michael Robichaux, M.D. Rep. Loulan Pitre, Jr.	Lafourche	2	C	1991-2000	I	$69,938
		Brush fences were built in 1991 to promote sediment accretion along a canal adjacent to LA Hwy 1 in Leeville, LA. Annual maintenance has also been done.										
		Fourchon	SP	N/A	N/A	Sen. Michael Robichaux, M.D. Rep. Loulan Pitre, Jr.	Lafourche	2	C	1991-2000	I	$69,938
		Brush fences were built in 1992 along a canal to prevent shoreline erosion and have been maintained annually.										
		Eighty Arpent Canal	SP	N/A	N/A	Sen. Lynn B. Dean Rep. Ernest Wooten	St. Bernard	6	C	1991, 1992, 1997	I	$38,989
		Brush fences were constructed in 1991 and 1992 along Eighty Arpent Canal to promote sediment accumulation and minimize shoreline erosion along the shoreline.										
		Bayou Lafourche	SP	N/A	N/A	Sen. Michael Robichaux, M.D. Rep. Loulan Pitre, Jr.	Lafourche	1	C	1996, 1997	I	$18,000
		Wave damping fences were constructed along Bayou Lafourche to minimize shoreline erosion and reduce erosional damage from boat-induced waves.										
Vegetation		**Bayou LaTour**	VP	N/A	N/A	Sen. Joel T. Chaisson, II Rep. Gary L. Smith	St. Charles	24	C	1991	I	$29,804
		The objective of this project was to stabilize the bank behind newly constructed wave damping devices. A total of 10,550 smooth cordgrass *(Spartina alterniflora)* were planted in a single row on 1-foot centers.										
		Salvador WMA	VP	N/A	N/A	Sen. Joel T. Chaisson, II Rep. Gary L. Smith	St. Charles	12	C	1988	I	$7,628
		The objective of this project was to stabalize the bank behind newly constructed wave damping devices. A total of 900 smooth cordgrass *(Spartina alterniflora)*, 900 cattail *(Typha latifolia)*, and 900 California bulrush *(Scirpus californicus)* were planted behind the wave-damping device.										
		Clovelly	VP	N/A	N/A	Sen. Michael Robichaux, M.D. Rep. Loulan Pitre, Jr.	Lafourche	110	C	1988	I	$67,800
		This projects goal was to minimize shoreline erosion by planting 24,000 smooth cordgrass *(Spartina alterniflora)* along 48,000 linear feet of shoreline.										

(Continued)

Restoration Program[1]	Project Number[2]	Project Name	Project Type[3]	PPL[4]	Agency/ Sponsor[5]	Senator/Representative	Parish	Anticipated Acres Benefitted[6]	Activities[7]			Original Baseline Cost (top) and Current Cost Estimate (bottom)[8]
									Engineering, Design, and Landrights	Construction	Operation, Maintenance and Monitoring	
Vegetation (continued)		**Kings Ridge**	VP	N/A	N/A	Sen. Michael Robichaux, M.D. Rep. Loulan Pitre, JR.	Lafourche	5	C	1989, 1991, 1994	I	$4,373
		The objective of this project is to provide a living natural barrier for protection against wave induced shoreline erosion. A total of 1,345 smooth cordgrass *(Spartina alterniflora)* were planted.										
		Queen Bess Island	VP	N/A	N/A	Sen. J. Chris Ullo Rep. Ernest Wooten	Jefferson	9	C	1991, 1993, 1997, 2000	I	$10,970
		The objectives of this project were to provide soil stability on the edges of the soil disposal area and to enhance wildlife habitat conditions on the island. A total of 688 smooth cordgrass *(Spartina alterniflora)* and 930 black mangrove *(Avicennia germinans)* were planted on the island.										
		Myrtle Grove	VP	N/A	N/A	Sen. Lynn B. Dean Rep. Ernest Wooten	Plaquemines	48	C	1991, 1996	I	$50,494
		The objective of this project was to vegetate an area on the topmost part of a protection levee which is barren of vegetation using a total of 14,390 smooth cordgrass *(Spartina alterniflora)* and 1,340 marshhay cordgrass *(Spartina patens)*.										
		Red Pass/ Spanish Pass	VP	N/A	N/A	Sen. Lynn B. Dean Rep. Ernest Wooten	Plaquemines	21	C	1991, 1996	I	$19,820
		The objective of this project was to form a vegetative buffer along several deteriorating islands and a degraded spoil bank using California bulrush *(Scirpus californicus)*, smooth cordgrass *(Spartina alterniflora)*, giant cutgrass *(Zizaniposis miliacea)*, and bald cypress *(Taxodium distichum)* seedlings on these islands in order to provide a more diverse habitat for wildlife in the area.										
		Bay L' Ours	VP	N/A	N/A	Sen. Michael Robichaux, M.D. Rep. Loulan Pitre, Jr.	Lafourche	46	C	1991	I	$28,250
		The objective of this project was to provide stabalization behind a recently constructed wave dampening device by planting approximately 10,000 smooth cordgrass *(Spartina alterniflora)*.										
		Goose Bayou	VP	N/A	N/A	Sen. J. Chris Ullo Rep. Ernest Wooten	Jefferson	28	C	1992	I	$20,340
		Approximately 4,000 smooth cordgrass *(Spartina alterniflora)* were planted behind sediment fences and Christmas tree fences along Bayou LaTour to help stabilize new sediment.										
		Lake Lery/ 80 Arpent Canal	VP	N/A	N/A	Sen. Lynn B. Dean Rep. Kenneth L. Odinet, Sr.	St. Bernard	11	C	1993	I	$6,780
		The objectives of this project were to block off openings to small lagoons and to provide a protective barrier along the Eighty Arpent Canal utilizing approximately 1,000 smooth cordgrass *(Spartina alterniflora)* plantings.										
		Lake Salvador	VP	N/A	N/A	Sen. Michael Robichaux, M.D. Rep. Ernest Wooten	Lafourche	11	C	1992, 1999	I	$6,780
		The objective of this project was to establish giant cutgrass *(Zizaniopsis miliacea)* along a section of eroded coast. Approximately 1,000 giant cutgrass were planted.										

(Continued)

Restoration Program[1]	Project Number[2]	Project Name	Project Type[3]	PPL[4]	Agency/ Sponsor[5]	Senator/Representative	Parish	Anticipated Acres Benefitted[6]	Activities[7]			Original Baseline Cost (top) and Current Cost Estimate (bottom)[8]
									Engineering, Design, and Landrights	Construction	Operation, Maintenance and Monitoring	
Vegetation (continued)		**Temple Bay**	VP	N/A	N/A	Sen. Joel T. Chaisson, II Rep. Ernest Wooten	Lafourche	9	C	1992	I	$5,424
		The objective of this project was to stabilize a spoil bank behind a wave reduction fence by planting approximately 800 smooth cordgrass *(Spartina alterniflora)*.										
		Bayou DuPont	VP	N/A	N/A	Sen. J. Chris Ullo Rep. Ernest Wooten	Plaquemines	20	C	1992, 1998, 1999	I	$14,526
		The objective of this project was to stabilize the bank of Bayou DuPont utilizing plantings of vegetation. Approximately 2,022 smooth cordgrass *(Spartina alterniflora)*, 800 California bulrush *(Scirpus californicus)*, and 500 giant cutgrass *(Zizaniopsis miliacea)* were planted along the shoreline.										
		Lake Hermitage	VP	N/A	N/A	Sen. Lynn B. Dean Rep. Ernest Wooten	Plaquemines	2	C	1993	I	$1,068
		The objective of this project was to plant vegetation behind a wave reduction fence to help stabilize the ground. Approximately 110 seashore paspalum *(Paspalum vaginatum)* and 100 smooth cordgrass *(Spartina alterniflora)* were planted.										
		Yellow Cotton Bay	VP	N/A	N/A	Sen. Lynn B. Dean Rep. Ernest Wooten	Plaquemines	6	C	1992	I	$6,144
		The objectives of this project were to stabilize the shoreline of a pipeline canal that runs east to west. A total of 1,875 smooth cordgrass *(Spartina alterniflora)* and 300 seashore paspalum *(Paspalum vaginatum)* were planted.										
		Lake Laurier	VP	N/A	N/A	Sen. Lynn B. Dean Rep. Ernest Wooten	Plaquemines	2	C	1993	I	$1,068
		The objective of this project was to plant vegetation behind a wave reduction fence to help stabilize the sediment. Approximately 110 seashore paspalum *(Paspalum vaginatum)* and 100 smooth cordgrass *(Spartina alterniflora)* were planted.										
		Round Lake	VP	N/A	N/A	Sen. Lynn B. Dean Rep. Ernest Wooten	Plaquemines	4	C	1992	I	$4,435
		The objective of this project was to prevent erosion along the shorline of Round Lake. Approximately 250 seashore paspalum *(Paspalum vaginatum)* and 1,320 smooth cordgrass *(Spartina alterniflora)* were planted along the shoreline.										
		Little Lake Hunting	VP	N/A	N/A	Sen. J. Chris Ullo Rep. Ernest Wooten	Jefferson	165	C	1994, 1996	I	$134,244
		The objectives of this project were to protect shoreline at the base of a levee with smooth cordgrass *(Spartina alterniflora)* and to stabilize the same levee by planting marshhay cordgrass *(Spartina patens)* and gulf cordgrass *(Spartina spartinae)* on the top-most part of the levee. A total of 2,400 smooth cordgrass, 12,000 marshhay cordgrass, and 12,000 gulf cordgrass were planted.										

(Continued)

Restoration Program[1]	Project Number[2]	Project Name	Project Type[3]	PPL[4]	Agency/ Sponsor[5]	Senator/Representative	Parish	Anticipated Acres Benefitted[6]	Activities[7]			Original Baseline Cost (top) and Current Cost Estimate (bottom)[8]
									Engineering, Design, and Landrights	Construction	Operation, Maintenance and Monitoring	
Vegetation (continued)		**West Pointe a la Hache**	VP	N/A	N/A	Sen. Lynn B. Dean Rep. Ernest Wooten	Plaquemines	6	C	1994	I	$3,526
		The objectives of this project were to reduce the effects of wave energy on several deteriorating spoil banks in a brackish marsh, to trap sediment in the same area, and to establish freshwater vegetation in the immediate outfall area of the West Point a la Hache freshwater siphon. A total of 400 smooth cordgrass *(Spartina alterniflora)* and 120 California bulrush *(Scirpus californicus)* were planted.										
		LaReussite	VP	N/A	N/A	Sen. Lynn B. Dean Rep. Ernest Wooten	Plaquemines	3	C	1994	I	$1,695
		The objectives of this project were to establish freshwater marsh vegetation and trap sediment in the marsh receiving the outfall from the LaRuessite freshwater siphon. A total of 250 smooth cordgrass *(Spartina alterniflora)* were planted on 5-foot centers.										
		Fourchon	VP	N/A	N/A	Sen. Michael Robichaux, M.D. Rep. Loulan Pitre, Jr.	Lafourche	29	C	1995	I	$14,408
		The objectives of this project were to protect and stabilize mudflats and areas of shoreline which are succeptible to erosion by high energy tidal currents and to improve wildlife habitat diversity. Approximately 1,250 smooth cordgrass *(Spartina alterniflora)* and 1,500 black mangrove *(Avicennia germinans)* were planted.										
		Bayou Lafourche Shore	VP	N/A	N/A	Sen. Michael Robichaux, M.D. Rep. Loulan Pitre, Jr.	Lafourche	37	C	1995	I	$21,696
		The objective of this project is to provide a living natural barrier for protection against wave induced shoreline erosion by planting 3,200 giant cutgrass *(Zizaniopsis miliacea)* along the shoreline of Bayou Lafourche.										
		Big Mar	VP	N/A	N/A	Sen. Lynn B. Dean Rep. Ernest Wooten	Plaquemines	21	C	1995, 1998		$7,458
		The objective of this project was to establish emergent freshwater vegetation in the immediate outfall area of the Caernarvon Freshwater Diversion. Approximately 500 California bulrush *(Scirpus californicus)* and 600 giant cutgrass *(Zizaniopsis miliacea)* were planted.										
		Scarsdale	VP	N/A	N/A	Sen. Lynn B. Dean Rep. Ernest Wooten	Plaquemines	30	C	1995, 1998	I	$8,475
		The ojective of this project is to re-introduce cypress trees in an area that was originately populated with them. A total of 1,000 bald cypress *(Taxodium distichum)* and 500 California bulrush *(Scirpus californicus)* were planted.										
		Belair	VP	N/A	N/A	Sen. Lynn B. Dean Rep. Ernest Wooten	Plaquemines	7	C	1995	I	$3,390
		The objective of this project is to vegetate a low canal levee with approximately 500 smooth cordgrass *(Spartina alterniflora)* in order to protect against wave induced shoreline erosion.										

(Continued)

Restoration Program[1]	Project Number[2]	Project Name	Project Type[3]	PPL[4]	Agency/ Sponsor[5]	Senator/Representative	Parish	Anticipated Acres Benefitted[6]	Activities[7]			Original Baseline Cost (top) and Current Cost Estimate (bottom)[8]
									Engineering, Design, and Landrights	Construction	Operation, Maintenance and Monitoring	
Vegetation (continued)		**Clovelly Farm**	VP	N/A	N/A	Sen. Michael Robichaux, M.D. Rep. Loulan Pitre, Jr.	Lafourche	1	C	1996	I	$814
		The objectives of this project are to establish a vegetative barrier along a canal spoil bank in order to intercept boat generated wave energy, and to allow introduced vegetation to spread and create a natural barrier along this spoil bank. A total of 120 California bulrush *(Scirpus californicus)* were planted.										
		Bayou Segnette	VP	N/A	N/A	Sen. J. Chris Ullo Rep. John A. Alario, Jr.	Jefferson	9	C	1997	I	$5,085
		The objective of this project was to protect a levee on Bayou Segnette from wave induced erosion. A total of 375 California bulrush *(Scirpus californicus)* and 375 giant cutgrass *(Zizaniopsis miliacea)* were planted.										
		Simoneaux Ponds	VP	N/A	N/A	Sen. Joel T. Chaisson, II Rep. Gary L. Smith	St. Charles	20	C	1997, 2000	I	$11,526
		The objectives of this project were to reduce fetch and to reduce shoreline erosion by planting a total of 1,700 California bulrush *(Scirpus californicus)* in open bodies of water.										
		Lake Lery Shoreline	VP	N/A	N/A	Sen. Lynn B. Dean Rep. Kenneth L. Odinet, Sr.	St. Bernard	23	C	1997, 1998	I	$13,560
		The objectives of this project were to reduce shoreline erosion and to vegetate predominately bare silt deposits which have filled in. A total of 1,000 California bulrush *(Scirpus californicus)* and 1,000 giant cutgrass *(Zizaniopsis miliacea)* were planted along the Lake Lery shoreline.										
		Sebastopol Canal	VP	N/A	N/A	Sen. Lynn B. Dean Rep. Kenneth L. Odinet, Sr.	St. Bernard	2	C	1997	I	$1,017
		The objective of this project was to prevent erosion along Sebastopol Canal by planting approximately 150 California bulrush *(Scirpus californicus)*.										
		Cane Ridge Slough	VP	N/A	N/A	Sen. Lynn B. Dean Rep. Ernest Wooten	Plaquemines	8	C	1997	I	$4,746
		The objective of this project was to plant approximately 700 California bulrush *(Scirpus californicus)* along a deteriorating canal bank to prevent boat wake erosion from causing breaches into an adjacent interior marsh.										
		Delacroix Corp.	VP	N/A	N/A	Sen. Lynn B. Dean Rep. Ernest Wooten	Plaquemines	11	C	1997	I	$6,780
		The objective of this project was to utilize approximately 500 California bulrush *(Scirpus californicus)* and 500 giant cutgrass *(Zizaniopsis miliacea)* to provide a buffer along areas of the Delacroix canal in Plaquemines Parish where boat traffic is causing the banks to erode into the adjacent marsh.										
		Bayou Des Allemands	VP	N/A	N/A	Sen. Joel T. Chaisson, II Rep. Gary L. Smith	St. Charles	15	C	1998, 2000	I	$8,814
		The Bayou Des Allemands project is a shoreline planting using trade gallons of Californa bulrush *(Scirpus californicus)* and giant cutgrass *(Zizaniopsis miliacea)*. Approximately 1,500' of shoreline were planted using 150 of each plant.										

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Restoration Program[1]	Project Number[2]	Project Name	Project Type[3]	PPL[4]	Agency/ Sponsor[5]	Senator/Representative	Parish	Anticipated Acres Benefitted[6]	Activities[7]			Original Baseline Cost (top) and Current Cost Estimate (bottom)[8]
									Engineering, Design, and Landrights	Construction	Operation, Maintenance and Monitoring	
Vegetation (continued)		**Elmers Island**	VP	N/A	N/A	Sen. J. Chris Ullo Rep. Ernest Wooten	Jefferson	15	C	1998	I	$8,950
		The objective of this project was to build a sand fence to provide sand accumulation in front and behind the fence. As the sand was accumulated 300 marshhay cordgrass *(Spartina patens)* and 1,015 bitter panicum *(Panicum amarum)* were planted around the fence to prevent the sand from being entrained by winds.										
		Port Fourchon '98	VP	N/A	N/A	Sen. Michael Robichaux, M.D. Rep. Loulan Pitre, Jr.	Lafourche	23	C	1998	I	$13,560
		The objective of this project was to stabilize sand dunes that were created by newly constructed sand-trapping fence segments. The project consisted of 1,000 tubes of bitter panicum *(Panicum amarum)* planted on 5-ft centers in multiple rows.										
		Bay Joe Wise	VP	N/A	N/A	Sen. Lynn B. Dean Rep. Ernest Wooten	Plaquemines	9	C	1998	I	$2,712
		The primary purpose of this project was to introduce 400 nursery grown black mangrove *(Avicennia germinans)* into an area to provide habitat for various species of birds.										
		Clovelly Levee	VP	N/A	N/A	Sen. Michael Robichaux, M.D. Rep. Loulan Pitre, Jr.	Lafourche	34	C	1999	I	$20,340
		This project was designed to provide a vegetative buffer along a hurricane protection levee which has undergone slight erosion due to boat traffic. Approximately 3,000 giant cutgrass *(Zizaniopsis miliacea)* were planted.										
		Delacroix '99	VP	N/A	N/A	Sen. Lynn B. Dean Rep. Ernest Wooten	Plaquemines	14	C	1999	I	$8,475
		A vegetative buffer was created by planting approximately 1,250 giant cutgrass (Zizaniopsis miliacea) along areas of the Delacroix Canal where boat traffic is causing erosion,										
		Ollie Canal Pump-off	VP	N/A	N/A	Sen. Lynn B. Dean Rep. Ernest Wooten	Plaquemines	14	C	1999	I	$8,475
		The objective of this project is to establish California bulrush (*Scirpus californicus*) in an old pump-off that is now flooded and is sparsely vegetated.										
		Burchell Canal	VP	N/A	N/A	Sen. Joel T. Chaisson, II Rep. Gary L. Smith	St. Charles	2	C	2000	I	$1,356
		This project was designed to create a vegetative buffer on the canal bank that would reduce the erosion caused by both wind generated wave energy and frequent boat traffic. This bank separates the canal from the Simoneaux Ponds. Approximately 100 California bulrush *(Scirpus californicus)* and 100 giant cutgrass *(Zizaniopsis miliacea)* were planted.										

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Restoration Program[1]	Project Number[2]	Project Name	Project Type[3]	PPL[4]	Agency/ Sponsor[5]	Senator/Representative	Parish	Anticipated Acres Benefitted[6]	Activities[7]			Original Baseline Cost (top) and Current Cost Estimate (bottom)[8]
									Engineering, Design, and Landrights	Construction	Operation, Maintenance and Monitoring	
Vegetation (continued)		**Port Sulfer**	VP	N/A	N/A	Sen. Lynn B. Dean Rep. Ernest Wooten	Plaquemines	9	C	2000	I	$5,424
		The objectives of this project are to reestablish black mangrove *(Avicennia germinans)*, to provide cover and nesting area for birds and to add biodiversity to a nondiverse area by planting 800 black mangroves.										
		Reggio Canal	VP	N/A	N/A	Sen. Lynn B. Dean Rep. Ernest Wooten	Plaquemines	21	C	2000	I	$12,204
		The objective of this project is to create a vegetative buffer utilizing 1,000 giant cutgrass *(Zizaniopsis miliacea)* and 800 California bulrush *(Scirpus californicus)* on the canal bank that would reduce the erosion caused by both boat traffic and wind generated wave energy.										
Section 204/1135		**Grand Terre Island Wetland Creation**	DM	N/A	N/A	Sen. Lynn B. Dean Rep. Ernest Wooten	Jefferson	115	C	1996	N/A	$1,370,000
		This Section 204 project provides for the beneficial placement of 500,000 cubic yards of material dredged from Barataria Bay Waterway to create wetlands on Grand Terre Island. Construction was completed in December 1996.										
		Barataria Bay Waterway, mile 31 to 24.5	DM	N/A	N/A	Sen. J. Chris Ullo Rep. Ernest Wooten	Jefferson	125	C	1999	N/A	$140,000
		This Section 204 project utilized dredged material from between miles 31 and 24.5 of the Barataria Bay Waterway to create marsh habitat. Construction was completed in September 1999.										
		Barataria Waterway, Grand Terre Is, Ph. 2	DM	N/A	N/A	Sen. Lynn B. Dean Rep. Ernest Wooten	Jefferson	80	C	1999	N/A	$100,000
		This Section 204 project provides for the beneficial placement of 500,000 cubic yards of material dredged from Barataria Bay Waterway to create wetlands on the bay side of Grand Terre Island. Construction was completed in September 1999.										
WRDA	BA-01	**Davis Pond**	FD	N/A	USACE	Sen. Joel T. Chaisson, II Rep. Gary L. Smith	St. Charles	33,000	C	2001	I	$106,000,000
		The purpose of this project is to maintain and enhance the existing ecological framework of the Barataria Basin by providing freshwater, nutrients, and sediment to counter salt water intrusion and help offset subsidence.										
	BS-08	**Caernarvon**	FD	N/A	USACE	Sen. Lynn B. Dean Rep. Ernest Wooten	Plaquemines	6,580	C	1991	I	$24,818,800
		This project diverts fresh water and its accompanying nutrients and sediments from the Mississippi River to coastal bays and marshes in Breton Sound for fish and wildlife enhancement.										

(Continued)

Restoration Program[1]	Project Number[2]	Project Name	Project Type[3]	PPL[4]	Agency/ Sponsor[5]	Senator/Representative	Parish	Anticipated Acres Benefitted[6]	Activities[7]			Original Baseline Cost (top) and Current Cost Estimate (bottom)[8]
									Engineering, Design, and Landrights	Construction	Operation, Maintenance and Monitoring	
Dedicated Dredging Program		Sen. Joel T. Chaisson, II **Lake Salvador**	DM	N/A	N/A	Rep. Gary L. Smith	St. Charles	28	C	1999	N/A	$342,276
		Two (2) sites were filled utilizing dredge material adjacent to Baie du Cabanage on the Salvador Wildlife Management Area. Final inspection was held in June 1999.										
		Sen. J. Chris Ullo **Jefferson Parish Wetlands Project**	DM	N/A	N/A	Rep. Ernest Wooten	Jefferson	66	C	2000	N/A	$1,080,017
		Three (3) sites were filled utilizing dredge material adjacent to Bayou Dupont and The Pen.										

[1] Restoration Program: Breaux Act=Coastal Wetlands Planning Protection and Restoration Act (CWPPRA); State=Restoration projects funded entirely by the State of Louisiana through the Coastal Restoration Division; PCWRP=Parish Coastal Wetlands Restoration Program; Vegetation=DNR/NRCS/SWCC Vegetation Planting Program; Section 204/1135= Water Resource Development Act Sections 204 and 1135 beneficial use of dredge material projects; WRDA=Water Resources Development Act; Mitigation=mitigation projects implemented by the Coastal Restoration Division.

[2] Project Number: State Number (Federal Number)

[3] Project Type: HR=Hydrologic Restoration; DM=Beneficial Use of Dredged Material; MC=Marsh Creation; SP=Shoreline Protection; FD=Freshwater Diversion; VP=Vegetation Planting; OM=Outfall Management; BI=Barrier Island; SD=Sediment Diversion.

[4] PPL: Priority Project List (as authorized by the Breaux Act Task Force).

[5] Agency/Sponsor: NRCS=Natural Resources Conservation Service; USFWS=U.S. Fish and Wildlife Service; USACE=U.S. Army Corps of Engineers; EPA=Environmental Protection Agency; NMFS=National Marine Fisheries Service.

[6] Anticipated Acres Benefitted: N/A for Breaux Act demonstration and deauthorized projects.

[7] Activities: C=Completed; I=Initiated; NI=Not Initiated; N/A=Not Applicable; a date in the construction column indicated construction completion date or anticipated date (*).

[8] Original Baseline Costs and Current Cost Estimates for Breaux Act projects are from the USACE. Costs for other restoration programs are from DNR's Contract and Budget Section. Original Baseline Cost and Current Cost Estimate both include Contingency funds. Breaux Act PPL 9 project costs are for Phase 1 only. Vegetation program project costs are estimated based on plant size and quantity.