



## **23rd PRIORITY PROJECT LIST REPORT (APPENDICES)**

**PREPARED BY:**

**LOUISIANA COASTAL WETLANDS CONSERVATION AND RESTORATION  
TASK FORCE**

**October 2014**



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**Summary and Complete Text of the CWPPRA**



## COASTAL WETLANDS PLANNING, PROTECTION & RESTORATION ACT

Public Law 101-646, Title III

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### **SECTION 303. Priority Louisiana Coastal Wetlands Restoration Projects.**

- Section 303a. Priority Project List
- NLT 13 Jan 91, Sec. Of Army (Secretary) will convene a Task Force
  - Secretary
  - Administrator, EPA
  - Governor, Louisiana
  - Secretary, Interior
  - Secretary, Agriculture
  - Secretary, Commerce
- NLT 28 Nov. 91, Task Force will prepare and transmit to Congress a Priority List of wetland restoration projects based on cost effectiveness and wetland quality.
- Priority List is revised and submitted annually as part of President's budget.
- Section 303b. Federal and State Project Planning
  - NLT 28 Nov. 93, Task Force will prepare a comprehensive coastal wetlands Restoration Plan for Louisiana.
  - Restoration Plan will consist of a list of wetland projects, ranked by cost effectiveness and wetland quality.
  - Completed Restoration Plan will become Priority List.
  - Secretary will ensure that navigation and flood control projects are consistent with the purpose of the Restoration Plan.
  - Upon submission of the Restoration Plan to Congress, the Task Force will conduct a scientific evaluation of the completed wetland restoration projects every 3 years and report findings to Congress.

### **SECTION 304. Louisiana Coastal Wetlands Conservation Planning.**

- Secretary; Administrator, EPA; and Director, USFWS will:
  - Sign an agreement with the Governor specifying how Louisiana will develop and implement the Conservation Plan.
  - Approve the Conservation Plan.
  - Provide Congress with periodic status reports on Plan implementation.
- NLT 3 years after agreement is signed. Louisiana will develop a Wetland Conservation Plan to achieve no net loss of wetlands resulting from development.

### **SECTION 305. National Coastal Wetlands Conservation Grants.**

- Director, USFWS, will make matching grants to any coastal state to implement Wetland Conservation Projects (projects to acquire, restore, manage, and enhance real property interest in coastal lands and waters).
- Cost sharing is 50% Federal/50% State.

### **SECTION 306. Distribution of Appropriations.**

- 70% of annual appropriations not to exceed (NTE) \$70 million used as follows:
  - NTE \$15 million to fund Task Force completion of Priority List and Restoration Plan—Secretary disburses the funds.

- NTE \$10 million to fund 75% of Louisiana’s cost to complete Conservation Plan— Administrator disburses funds.
- Balance to fund wetland restoration projects at 75% Federal/25% Louisiana-Secretary disburses funds.
- 15% of annual appropriations, NTE \$15 million for Wetland Conservation Grants— Director, USFWS disburses funds.
- 15% of annual appropriations, NTE \$15 million for projects authorized by the North American Wetlands Conservation Act—Secretary, Interior disburses funds.

**SECTION 307. Additional Authority for the Corps of Engineers.**

- Section 307a. Secretary authorized to:
  - Carry out projects to protect, restore, and enhance wetlands and aquatic/coastal ecosystems.
- Section 307b. Secretary authorized and directed to study feasibility of modifying MR&T to increase flows and sediment to the Atchafalaya River for land building wetland nourishment.
  - 25% if the state has dedicated trust fund from which principal is not spent.
  - 15% when Louisiana’s Conservation Plan is approved.

### TITLE III--WETLANDS

#### Sec. 301. SHORT TITLE.

This title may be cited as the "Coastal Wetlands Planning, Protection and Restoration Act".

#### Sec. 302. DEFINITIONS.

As used in this title, the term--

- (1) "Secretary" means the Secretary of the Army;
- (2) "Administrator" means the Administrator of the Environmental Protection Agency;
- (3) "development activities" means any activity, including the discharge of dredged or fill material, which results directly in a more than de minimus change in the hydrologic regime, bottom contour, or the type, distribution or diversity of hydrophytic vegetation, or which impairs the flow, reach, or circulation of surface water within wetlands or other waters;
- (4) "State" means the State of Louisiana;
- (5) "coastal State" means a State of the United States in, or bordering on, the Atlantic, Pacific, or Arctic Ocean, the Gulf of Mexico, Long Island Sound, or one or more of the Great Lakes; for the purposes of this title, the term also includes Puerto Rico, the Virgin Islands, Guam, the Commonwealth of the Northern Mariana Islands, and the Trust Territories of the Pacific Islands, and American Samoa;
- (6) "coastal wetlands restoration project" means any technically feasible activity to create, restore, protect, or enhance coastal wetlands through sediment and freshwater diversion, water management, or other measures that the Task Force finds will significantly contribute to the long-term restoration or protection of the physical, chemical and biological integrity of coastal wetlands in the State of Louisiana, and includes any such activity authorized under this title or under any other provision of law, including, but not limited to, new projects, completion or expansion of existing or on-going projects, individual phases, portions, or components of projects and operation, maintenance and rehabilitation of completed projects; the primary purpose of a "coastal wetlands restoration project" shall not be to provide navigation, irrigation or flood control benefits;
- (7) "coastal wetlands conservation project" means--
  - (A) the obtaining of a real property interest in coastal lands or waters, if the obtaining of such interest is subject to terms and conditions that will ensure that the real property will be administered for the long-term conservation of such lands and waters and the hydrology, water quality and fish and wildlife dependent thereon; and
  - (B) the restoration, management, or enhancement of coastal wetlands ecosystems if such restoration, management, or enhancement is conducted on coastal lands and waters that are administered for the long-term conservation of such lands and waters and the hydrology, water quality and fish and wildlife dependent thereon;
- (8) "Governor" means the Governor of Louisiana;
- (9) "Task Force" means the Louisiana Coastal Wetlands Conservation and Restoration Task Force which shall consist of the Secretary, who shall serve as chairman, the Administrator, the Governor, the Secretary of the Interior, the Secretary of Agriculture and the Secretary of Commerce; and

(10) "Director" means the Director of the United States Fish and Wildlife Service.

### SEC. 303. PRIORITY LOUISIANA COASTAL WETLANDS RESTORATION PROJECTS.

#### (a) PRIORITY PROJECT LIST.--

(1) PREPARATION OF LIST.--Within forty-five days after the date of enactment of this title, the Secretary shall convene the Task Force to initiate a process to identify and prepare a list of coastal wetlands restoration projects in Louisiana to provide for the long-term conservation of such wetlands and dependent fish and wildlife populations in order of priority, based on the cost-effectiveness of such projects in creating, restoring, protecting, or enhancing coastal wetlands, taking into account the quality of such coastal wetlands, with due allowance for small-scale projects necessary to demonstrate the use of new techniques or materials for coastal wetlands restoration.

(2) TASK FORCE PROCEDURES.--The Secretary shall convene meetings of the Task Force as appropriate to ensure that the list is produced and transmitted annually to the Congress as required by this subsection. If necessary to ensure transmittal of the list on a timely basis, the Task Force shall produce the list by a majority vote of those Task Force members who are present and voting; except that no coastal wetlands restoration project shall be placed on the list without the concurrence of the lead Task Force member that the project is cost effective and sound from an engineering perspective. Those projects which potentially impact navigation or flood control on the lower Mississippi River System shall be constructed consistent with section 304 of this Act.

(3) TRANSMITTAL OF LIST.--No later than one year after the date of enactment of this title, the Secretary shall transmit to the Congress the list of priority coastal wetlands restoration projects required by paragraph (1) of this subsection. Thereafter, the list shall be updated annually by the Task Force members and transmitted by the Secretary to the Congress as part of the President's annual budget submission. Annual transmittals of the list to the Congress shall include a status report on each project and a statement from the Secretary of the Treasury indicating the amounts available for expenditure to carry out this title.

#### (4) LIST OF CONTENTS.--

(A) AREA IDENTIFICATION; PROJECT DESCRIPTION--The list of priority coastal wetlands restoration projects shall include, but not be limited to--

(i) identification, by map or other means, of the coastal area to be covered by the coastal wetlands restoration project; and

(ii) a detailed description of each proposed coastal wetlands restoration project including a justification for including such project on the list, the proposed activities to be carried out pursuant to each coastal wetlands restoration project, the benefits to be realized by such project, the identification of the lead Task Force member to undertake each proposed coastal wetlands restoration project and the responsibilities of each other participating Task Force member, an estimated timetable for the completion of each coastal wetlands restoration project, and the estimated cost of each project.

(B) PRE-PLAN.--Prior to the date on which the plan required by subsection (b) of this section becomes effective, such list shall include only those coastal wetlands restoration projects that can be substantially completed during a five-year period commencing on the date the project is placed on the list.

(C) Subsequent to the date on which the plan required by subsection (b) of this section becomes effective, such list shall include only those coastal wetlands restoration projects that have been identified in such plan.

(5) FUNDING.--The Secretary shall, with the funds made available in accordance with section 306 of this title, allocate funds among the members of the Task Force based on the need for such funds and such other factors as the Task Force deems appropriate to carry out the purposes of this subsection.

(b) FEDERAL AND STATE PROJECT PLANNING.--

(1) PLAN PREPARATION.--The Task Force shall prepare a plan to identify coastal wetlands restoration projects, in order of priority, based on the cost-effectiveness of such projects in creating, restoring, protecting, or enhancing the long-term conservation of coastal wetlands, taking into account the quality of such coastal wetlands, with due allowance for small-scale projects necessary to demonstrate the use of new techniques or materials for coastal wetlands restoration. Such restoration plan shall be completed within three years from the date of enactment of this title.

(2) PURPOSE OF THE PLAN.--The purpose of the restoration plan is to develop a comprehensive approach to restore and prevent the loss of, coastal wetlands in Louisiana. Such plan shall coordinate and integrate coastal wetlands restoration projects in a manner that will ensure the long-term conservation of the coastal wetlands of Louisiana.

(3) INTEGRATION OF EXISTING PLANS.--In developing the restoration plan, the Task Force shall seek to integrate the "Louisiana Comprehensive Coastal Wetlands Feasibility Study" conducted by the Secretary of the Army and the "Coastal Wetlands Conservation and Restoration Plan" prepared by the State of Louisiana's Wetlands Conservation and Restoration Task Force.

(4) ELEMENTS OF THE PLAN.--The restoration plan developed pursuant to this subsection shall include--

(A) identification of the entire area in the State that contains coastal wetlands;

(B) identification, by map or other means, of coastal areas in Louisiana in need of coastal wetlands restoration projects;

(C) identification of high priority coastal wetlands restoration projects in Louisiana needed to address the areas identified in subparagraph (B) and that would provide for the long-term conservation of restored wetlands and dependent fish and wildlife populations;

(D) a listing of such coastal wetlands restoration projects, in order of priority, to be submitted annually, incorporating any project identified previously in lists produced and submitted under subsection (a) of this section;

(E) a detailed description of each proposed coastal wetlands restoration project, including a justification for including such project on the list;

(F) the proposed activities to be carried out pursuant to each coastal wetlands restoration project;

(G) the benefits to be realized by each such project;

(H) an estimated timetable for completion of each coastal wetlands restoration project;

(I) an estimate of the cost of each coastal wetlands restoration project;

(J) identification of a lead Task Force member to undertake each proposed coastal wetlands restoration project listed in the plan;

(K) consultation with the public and provision for public review during development of the plan; and

(L) evaluation of the effectiveness of each coastal wetlands restoration project in achieving long-term solutions to arresting coastal wetlands loss in Louisiana.

(5) PLAN MODIFICATION.--The Task Force may modify the restoration plan from time to time as necessary to carry out the purposes of this section.

(6) PLAN SUBMISSION.--Upon completion of the restoration plan, the Secretary shall submit the plan to the Congress. The restoration plan shall become effective ninety days after the date of its submission to the Congress.

(7) PLAN EVALUATION.--Not less than three years after the completion and submission of the restoration plan required by this subsection and at least every three years thereafter, the Task Force shall provide a report to the Congress containing a scientific evaluation of the effectiveness of the coastal wetlands restoration projects carried out under the plan in creating, restoring, protecting and enhancing coastal wetlands in Louisiana.

(c) COASTAL WETLANDS RESTORATION PROJECT BENEFITS.--Where such a determination is required under applicable law, the net ecological, aesthetic, and cultural benefits, together with the economic benefits, shall be deemed to exceed the costs of any coastal wetlands restoration project within the State which the Task Force finds to contribute significantly to wetlands restoration.

(d) CONSISTENCY.--(1) In implementing, maintaining, modifying, or rehabilitating navigation, flood control or irrigation projects, other than emergency actions, under other authorities, the Secretary, in consultation with the Director and the Administrator, shall ensure that such actions are consistent with the purposes of the restoration plan submitted pursuant to this section.

(2) At the request of the Governor of the State of Louisiana, the Secretary of Commerce shall approve the plan as an amendment to the State's coastal zone management program approved under section 306 of the Coastal Zone Management Act of 1972 (16 U.S.C. 1455).

(e) FUNDING OF WETLANDS RESTORATION PROJECTS.--The Secretary shall, with the funds made available in accordance with this title, allocate such funds among the members of the Task Force to carry out coastal wetlands restoration projects in accordance with the priorities set forth in the list transmitted in accordance with this section. The Secretary shall not fund a coastal wetlands restoration project unless that project is subject to such terms and conditions as necessary to ensure that wetlands restored, enhanced or managed through that project will be administered for the long-term conservation of such lands and waters and dependent fish and wildlife populations.

(f) COST-SHARING.--

(1) FEDERAL SHARE.--Amounts made available in accordance with section 306 of this title to carry out coastal wetlands restoration projects under this title shall provide 75 percent of the cost of such projects.

(2) FEDERAL SHARE UPON CONSERVATION PLAN APPROVAL.--Notwithstanding the previous paragraph, if the State develops a Coastal Wetlands Conservation Plan pursuant to this title, and such conservation plan is approved pursuant to section 304 of this title, amounts made available in accordance with section 306 of this title for any coastal wetlands restoration project under this section shall be 85 percent of the cost of the project. In the event that the Secretary, the Director, and the Administrator jointly determine that the State is not taking reasonable steps to implement and administer a conservation plan developed and approved pursuant to this title, amounts made available in accordance with section 306 of this title for any coastal wetlands restoration project shall revert to 75 percent of the cost of the project: Provided, however, that such reversion to the lower cost share level shall not occur until the Governor, has been provided

notice of, and opportunity for hearing on, any such determination by the Secretary, the Director, and Administrator, and the State has been given ninety days from such notice or hearing to take corrective action.

(3) FORM OF STATE SHARE.--The share of the cost required of the State shall be from a non-Federal source. Such State share shall consist of a cash contribution of not less than 5 percent of the cost of the project. The balance of such State share may take the form of lands, easements, or right-of-way, or any other form of in-kind contribution determined to be appropriate by the lead Task Force member.

(4) Paragraphs (1), (2), and (3) of this subsection shall not affect the existing cost-sharing agreements for the following projects: Caernarvon Freshwater Diversion, Davis Pond Freshwater Diversion, and Bonnet Carre Freshwater Diversion.

#### SEC. 304. LOUISIANA COASTAL WETLANDS CONSERVATION PLANNING.

(a) DEVELOPMENT OF CONSERVATION PLAN.--

(1) AGREEMENT.--The Secretary, the Director, and the Administrator are directed to enter into an agreement with the Governor, as set forth in paragraph (2) of this subsection, upon notification of the Governor's willingness to enter into such agreement.

(2) TERMS OF AGREEMENT.--

(A) Upon receiving notification pursuant to paragraph (1) of this subsection, the Secretary, the Director, and the Administrator shall promptly enter into an agreement (hereafter in this section referred to as the "agreement") with the State under the terms set forth in subparagraph (B) of this paragraph.

(B) The agreement shall--

(i) set forth a process by which the State agrees to develop, in accordance with this section, a coastal wetlands conservation plan (hereafter in this section referred to as the "conservation plan");

(ii) designate a single agency of the State to develop the conservation plan;

(iii) assure an opportunity for participation in the development of the conservation plan, during the planning period, by the public and by Federal and State agencies;

(iv) obligate the State, not later than three years after the date of signing the agreement, unless extended by the parties thereto, to submit the conservation plan to the Secretary, the Director, and the Administrator for their approval; and

(v) upon approval of the conservation plan, obligate the State to implement the conservation plan.

(3) GRANTS AND ASSISTANCE.--Upon the date of signing the agreement--

(A) the Administrator shall, in consultation with the Director, with the funds made available in accordance with section 306 of this title, make grants during the development of the conservation plan to assist the designated State agency in developing such plan. Such grants shall not exceed 75 percent of the cost of developing the plan; and

(B) the Secretary, the Director, and the Administrator shall provide technical assistance to the State to assist it in the development of the plan.

(b) CONSERVATION PLAN GOAL.--If a conservation plan is developed pursuant to this section, it shall have a goal of achieving no net loss of wetlands in the coastal areas of Louisiana as a result of development activities initiated subsequent to approval of the plan, exclusive of any wetlands gains achieved through implementation of the preceding section of this title.

(c) ELEMENTS OF CONSERVATION PLAN.--The conservation plan authorized by this section shall include--

- (1) identification of the entire coastal area in the State that contains coastal wetlands;
- (2) designation of a single State agency with the responsibility for implementing and enforcing the plan;
- (3) identification of measures that the State shall take in addition to existing Federal authority to achieve a goal of no net loss of wetlands as a result of development activities, exclusive of any wetlands gains achieved through implementation of the preceding section of this title;
- (4) a system that the State shall implement to account for gains and losses of coastal wetlands within coastal areas for purposes of evaluating the degree to which the goal of no net loss of wetlands as a result of development activities in such wetlands or other waters has been attained;
- (5) satisfactory assurance that the State will have adequate personnel, funding, and authority to implement the plan;
- (6) a program to be carried out by the State for the purpose of educating the public concerning the necessity to conserve wetlands;
- (7) a program to encourage the use of technology by persons engaged in development activities that will result in negligible impact on wetlands; and
- (8) a program for the review, evaluation, and identification of regulatory and nonregulatory options that will be adopted by the State to encourage and assist private owners of wetlands to continue to maintain those lands as wetlands.

(d) APPROVAL OF CONSERVATION PLAN.--

(1) IN GENERAL.--If the Governor submits a conservation plan to the Secretary, the Director, and the Administrator for their approval, the Secretary, the Director, and the Administrator shall, within one hundred and eighty days following receipt of such plan, approve or disapprove it.

(2) APPROVAL CRITERIA.--The Secretary, the Director, and the Administrator shall approve a conservation plan submitted by the Governor, if they determine that -

- (A) the State has adequate authority to fully implement all provisions of such a plan;
- (B) such a plan is adequate to attain the goal of no net loss of coastal wetlands as a result of development activities and complies with the other requirements of this section; and
- (C) the plan was developed in accordance with terms of the agreement set forth in subsection (a) of this section.

(e) MODIFICATION OF CONSERVATION PLAN.--

(1) NONCOMPLIANCE.--If the Secretary, the Director, and the Administrator determine that a conservation plan submitted by the Governor does not comply with the requirements of subsection (d) of this section, they shall submit to the Governor a statement explaining why the plan is not in compliance and how the plan should be changed to be in compliance.

(2) RECONSIDERATION.--If the Governor submits a modified conservation plan to the Secretary, the Director, and the Administrator for their reconsideration, the Secretary, the Director, and Administrator shall have ninety days to determine whether the modifications are sufficient to bring the plan into compliance with requirements of subsection (d) of this section.

(3) APPROVAL OF MODIFIED PLAN.--If the Secretary, the Director, and the Administrator fail to approve or disapprove the conservation plan, as modified, within the ninety-day period following the date on which it was submitted to them by the Governor, such plan, as modified, shall be deemed to be approved effective upon the expiration of such ninety-day period.

(f) AMENDMENTS TO CONSERVATION PLAN.--If the Governor amends the conservation plan approved under this section, any such amended plan shall be considered a new plan and shall be subject to the requirements of this section; except that minor changes to such plan shall not be subject to the requirements of this section.

(g) IMPLEMENTATION OF CONSERVATION PLAN.--A conservation plan approved under this section shall be implemented as provided therein.

(h) FEDERAL OVERSIGHT.--

(1) INITIAL REPORT TO CONGRESS.--Within one hundred and eighty days after entering into the agreement required under subsection (a) of this section, the Secretary, the Director, and the Administrator shall report to the Congress as to the status of a conservation plan approved under this section and the progress of the State in carrying out such a plan, including and accounting, as required under subsection (c) of this section, of the gains and losses of coastal wetlands as a result of development activities.

(2) REPORT TO CONGRESS.--Twenty-four months after the initial one hundred and eighty day period set forth in paragraph (1), and at the end of each twenty-four-month period thereafter, the Secretary, the Director, and the Administrator shall, report to the Congress on the status of the conservation plan and provide an evaluation of the effectiveness of the plan in meeting the goal of this section.

#### SEC. 305 NATIONAL COASTAL WETLANDS CONSERVATION GRANTS.

(a) MATCHING GRANTS.--The Director shall, with the funds made available in accordance with the next following section of this title, make matching grants to any coastal State to carry out coastal wetlands conservation projects from funds made available for that purpose.

(b) PRIORITY.--Subject to the cost-sharing requirements of this section, the Director may grant or otherwise provide any matching moneys to any coastal State which submits a proposal substantial in character and design to carry out a coastal wetlands conservation project. In awarding such matching grants, the Director shall give priority to coastal wetlands conservation projects that are--

(1) consistent with the National Wetlands Priority Conservation Plan developed under section 301 of the Emergency Wetlands Resources Act (16 U.S.C. 3921); and

(2) in coastal States that have established dedicated funding for programs to acquire coastal wetlands, natural areas and open spaces. In addition, priority consideration shall be given to coastal wetlands conservation projects in maritime forests on coastal barrier islands.

(c) CONDITIONS.--The Director may only grant or otherwise provide matching moneys to a coastal State for purposes of carrying out a coastal wetlands conservation project if the grant or provision is subject to terms and conditions that will ensure that any real property interest acquired in whole or in part, or enhanced, managed, or restored with such moneys will be administered for the long-term conservation of such lands and waters and the fish and wildlife dependent thereon.

(d) COST-SHARING.--

(1) FEDERAL SHARE.--Grants to coastal States of matching moneys by the Director for any fiscal year to carry out coastal wetlands conservation projects shall be used for the payment of not to exceed 50 percent of the total costs of such projects: except that such matching moneys may be used for payment of not to exceed 75 percent of the costs of such projects if a coastal State has established a trust fund, from which the principal is not spent, for the purpose of acquiring coastal wetlands, other natural area or open spaces.

(2) FORM OF STATE SHARE.--The matching moneys required of a coastal State to carry out a coastal wetlands conservation project shall be derived from a non-Federal source.

(3) IN-KIND CONTRIBUTIONS.--In addition to cash outlays and payments, in-kind contributions of property or personnel services by non-Federal interests for activities under this section may be used for the non-Federal share of the cost of those activities.

(e) PARTIAL PAYMENTS.--

(1) The Director may from time to time make matching payments to carry out coastal wetlands conservation projects as such projects progress, but such payments, including previous payments, if any, shall not be more than the Federal pro rata share of any such project in conformity with subsection (d) of this section.

(2) The Director may enter into agreements to make matching payments on an initial portion of a coastal wetlands conservation project and to agree to make payments on the remaining Federal share of the costs of such project from subsequent moneys if and when they become available. The liability of the United States under such an agreement is contingent upon the continued availability of funds for the purpose of this section.

(f) WETLANDS ASSESSMENT.--The Director shall, with the funds made available in accordance with the next following section of this title, direct the U.S. Fish and Wildlife Service's National Wetlands Inventory to update and digitize wetlands maps in the State of Texas and to conduct an assessment of the status, condition, and trends of wetlands in that State.

#### SEC. 306. DISTRIBUTION OF APPROPRIATIONS.

(a) PRIORITY PROJECT AND CONSERVATION PLANNING EXPENDITURES.--Of the total amount appropriated during a given fiscal year to carry out this title, 70 percent, not to exceed \$70,000,000, shall be available, and shall remain available until expended, for the purposes of making expenditures--

(1) not to exceed the aggregate amount of \$5,000,000 annually to assist the Task Force in the preparation of the list required under this title and the plan required under this title, including preparation of--

(A) preliminary assessments;

(B) general or site-specific inventories;

(C) reconnaissance, engineering or other studies;

(D) preliminary design work; and

(E) such other studies as may be necessary to identify and evaluate the feasibility of coastal wetlands restoration projects;

(2) to carry out coastal wetlands restoration projects in accordance with the priorities set forth on the list prepared under this title;

(3) to carry out wetlands restoration projects in accordance with the priorities set forth in the restoration plan prepared under this title;

(4) to make grants not to exceed \$2,500,000 annually or \$10,000,000 in total, to assist the agency designated by the State in development of the Coastal Wetlands Conservation Plan pursuant to this title.

(b) COASTAL WETLANDS CONSERVATION GRANTS.--Of the total amount appropriated during a given fiscal year to carry out this title, 15 percent, not to exceed \$15,000,000 shall be available, and shall remain available to the Director, for purposes of making grants--

(1) to any coastal State, except States eligible to receive funding under section 306(a), to carry out coastal wetlands conservation projects in accordance with section 305 of this title; and

(2) in the amount of \$2,500,000 in total for an assessment of the status, condition, and trends of wetlands in the State of Texas.

(c) NORTH AMERICAN WETLANDS CONSERVATION.--Of the total amount appropriated during a given fiscal year to carry out this title, 15 percent, not to exceed \$15,000,000, shall be available to, and shall remain available until expended by, the Secretary of the Interior for allocation to carry out wetlands conservation projects in any coastal State under section 8 of the North American Wetlands Conservation Act (Public Law 101-233, 103 Stat. 1968, December 13, 1989).

#### SEC. 307. GENERAL PROVISIONS.

(a) ADDITIONAL AUTHORITY FOR THE CORPS OF ENGINEERS.--The Secretary is authorized to carry out projects for the protection, restoration, or enhancement of aquatic and associated ecosystems, including projects for the protection, restoration, or creation of wetlands and coastal ecosystems. In carrying out such projects, the Secretary shall give such projects equal consideration with projects relating to irrigation, navigation, or flood control.

(b) STUDY.--The Secretary is hereby authorized and directed to study the feasibility of modifying the operation of existing navigation and flood control projects to allow for an increase in the share of the Mississippi River flows and sediment sent down the Atchafalaya River for purposes of land building and wetlands nourishment.

#### SEC.308. CONFORMING AMENDMENT.

16 U.S.C. 777c is amended by adding the following after the first sentence: "The Secretary shall distribute 18 per centum of each annual appropriation made in accordance with the provisions of section 777b of this title as provided in the Coastal Wetlands Planning, Protection and Restoration Act: Provided, That, notwithstanding the provisions of section 777b, such sums shall remain available to carry out such Act through fiscal year 1999."

#### LEGISLATIVE HISTORY – H.R. 5390 (S. 2244):

SENATE REPORTS: No. 101-523 accompanying S. 2244 (Comm. On Environmental and Public Works).

CONGRESSIONAL RECORD, Vol. 136 (1990):

Oct. 1, considered and passed House.

Oct. 26, considered and passed Senate, amended, in lieu of S. 2244.

Oct. 27, House concurred in Senate amendment.

WEEKLY COMPILATION OF PRESIDENTIAL DOCUMENTS, Vol. 26 (1990):

Nov. 29, Presidential statement.

Statement on signing the Bill on Wetland and Coastal Inland Waters Protection and Restoration Programs, November 29, 1990.

Today I am signing H.R. 5390, "An Act to prevent and control infestation of the coastal inland waters of the United States by the zebra mussel and other nonindigenous aquatic species to reauthorize the National Sea Grant College Program, and for other purposes." This Act is designed to minimize, monitor, and control nonindigenous species that

become established in the United States, particularly the zebra mussel; establish wetlands protection and restoration programs in Louisiana and nationally; and promote fish and wildlife conservation in the Great Lakes.

Title III of this Act designates a State official not subject to executive control as a member of the Louisiana Coastal Wetlands Conservation and Restoration Task Force. This official would be the only member of the Task Force whose appointment would not conform to the Appointments Clause of the Constitution.

The Task Force will set priorities for wetland restoration and formulate Federal conservation plans. Certain of its duties, which ultimately determine funding levels for particular restoration projects, are an exercise of significant authority that must be undertaken by an officer of the United States, appointed in accordance with the Appointments Clause, Article II, sec. 2, cl. 2, of the Constitution.

In order to constitutionally enforce this program, I instruct the Task Force to promulgate its priorities list under section 303(a)(2) "by a majority vote of those Task Force members who are present and voting," and to consider the State official to be a nonvoting member of the Task Force for this purpose. Moreover, the Secretary of the Army should construe "lead Task Force member" to include only those members appointed in conformity with the Appointments Clause.

George Bush

The White House,  
November 29, 1990.

**Coastal Wetlands Planning, Protection, and Restoration Act**

**23rd Priority Project List Report**

**Appendix B**

**Wetland Value Assessment Methodology and Community Models**



## Appendix B

### Wetland Value Assessment Methodology and Community Models

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# WETLAND VALUE ASSESSMENT METHODOLOGY

## Emergent Marsh Community Models

### INTRODUCTION

The emergent marsh models were initially developed after passage of the CWPPRA during 1990 and were first used for evaluating candidate projects in 1991. The following sections describe the process and assumptions used in the initial development of those models. Since their initial development, these models have undergone several revisions including the omission of certain variables, modifications to the Suitability Index graphs, and modifications to the Habitat Suitability Index formulas.

These models were developed to determine the suitability of emergent marsh and open water habitats in the Louisiana coastal zone. These models were designed to function at a community level and therefore attempt to define an optimal combination of habitat conditions for all fish and wildlife species utilizing coastal marsh ecosystems.

### VARIABLE SELECTION

Variables for the emergent marsh models were selected through a two-part procedure. The first involved a listing of environmental variables thought to be important in characterizing fish and wildlife habitat in coastal marsh ecosystems. The second part of the selection procedure involved reviewing variables used in species-specific HSI models published by the U.S. Fish and Wildlife Service. Review was limited to HSI models for those fish and wildlife species known to inhabit Louisiana coastal wetlands, and included models for 10 estuarine fish and shellfish, 4 freshwater fish, 12 birds, 3 reptiles and amphibians, and 3 mammals (Table 1). The number of models included from each species group was dictated by model availability.

Selected HSI models were then grouped according to the marsh type(s) used by each species. Because most species for which models were considered are not restricted to one marsh type, most models were included in more than one marsh type group. Within each wetland type group, variables from all models were then grouped according to similarity (e.g., water quality, vegetation, etc.). Each variable was evaluated based on 1) whether it met the variable selection criteria; 2) whether another, more easily measured/predicted variable in the same or a different similarity group functioned as a surrogate; and 3) whether it was deemed suitable for the WVA application (e.g., some freshwater fish model variables dealt with riverine or lacustrine environments). Variables that did not satisfy those conditions were eliminated from further consideration. The remaining variables, still in their similarity groups, were then further eliminated or refined by combining similar variables and/or culling those that were functionally duplicated by variables from other models (i.e., some variables were used frequently in different models in only slightly different format).

Table 1. HSI Models Consulted for Variables for Possible Use in the Emergent Marsh Models

<u>Estuarine Fish and Shellfish</u>	<u>Birds</u>	<u>Mammals</u>
pink shrimp	white-fronted goose	mink
white shrimp	clapper rail	muskrat
brown shrimp	great egret	swamp rabbit
spotted seatrout	northern pintail	
Gulf flounder	mottled duck	<u>Freshwater Fish</u>
southern flounder	American coot	channel catfish
Gulf menhaden	marsh wren	largemouth bass
juvenile spot	snow goose	red ear sunfish
juvenile Atlantic croaker	great blue heron	bluegill
red drum	laughing gull	
	red-winged blackbird	
	roseate spoonbill	
<u>Reptiles and Amphibians</u>		
bullfrog		
slider turtle		
American alligator		

Variables selected from the HSI models were then compared to those identified in the first part of the selection procedure to arrive at a final list of variables to describe wetland habitat quality. That list includes six variables for each marsh type; 1) percent of the wetland covered by emergent vegetation, 2) percent of the open water covered by aquatic vegetation, 3) marsh edge and interspersion, 4) percent of the open water area  $\leq 1.5$  feet deep, 5) salinity, 6) aquatic organism access.

## SUITABILITY INDEX GRAPH DEVELOPMENT

A variety of resources was utilized to construct each SI graph, including the HSI models from which the final list of variables was partially derived, consultation with other professionals and researchers outside the EnvWG, published and unpublished data and studies, and personal knowledge of EnvWG members. An important "non-biological" constraint on SI graph development was the need to insure that graph relationships were not counter to the purpose of the CWPPRA, that is, the long term creation, restoration, protection, or enhancement of coastal vegetated wetlands. That constraint was most operative in defining SI graphs for Variable V<sub>1</sub> (percent emergent marsh). The process of SI graph development was one of constant evolution, feedback, and refinement; the form of each SI graph was decided upon through consensus among EnvWG members.

The Suitability Index graphs were developed according to the following assumptions.

### **Variable V<sub>1</sub> - Percent of wetland area covered by emergent vegetation.**

Persistent emergent vegetation plays an important role in coastal wetlands by providing foraging, resting, and breeding habitat for a variety of fish and wildlife species; and by providing a source of detritus and energy for lower trophic organisms that form the basis of

the food chain. An area with no emergent vegetation (i.e., shallow open water) is assumed to have minimal habitat suitability in terms of this variable, and is assigned an SI of 0.1.

Optimal vegetative coverage is assumed to occur at 100 percent (SI=1.0). That assumption is dictated primarily by the constraint of not having graph relationships conflict with the CWPPRA's purpose of long term creation, restoration, protection, or enhancement of vegetated wetlands. The EnvWG had originally developed a strictly biologically-based graph defining optimal habitat conditions at marsh cover values between 60 and 80 percent, and sub-optimal habitat conditions outside that range. However, application of that graph, in combination with the time analysis used in the evaluation process (i.e., 20-year project life), often reduced project benefits or generated a net loss of habitat quality through time with the project. Those situations arose primarily when: existing (baseline) emergent vegetation cover exceeded the optimum (> 80 percent); the project was predicted to maintain baseline cover values; and without the project the marsh was predicted to degrade, with a concurrent decline in percent emergent vegetation into the optimal range (60-80 percent). The time factor aggravated the situation when the without-project degradation was not rapid enough to reduce marsh cover values significantly below the optimal range, or below the baseline SI, within the 20-year evaluation period. In those cases, the analysis would show net negative benefits for the project, and positive benefits for letting the marsh degrade rather than maintaining the existing marsh. Coupling that situation with the presumption that marsh conditions are not static, and that Louisiana will continue to lose coastal emergent marsh; and taking into account the purpose of the CWPPRA, the EnvWG decided that, all other factors being equal, the models should favor projects that maximize emergent marsh creation, maintenance, and protection. Therefore, the EnvWG agreed to deviate from a strictly biologically-based habitat suitability index graph for V<sub>1</sub> and established optimal habitat conditions at 100 percent marsh cover.

**Variable V<sub>2</sub> - Percent of open water area covered by aquatic vegetation.** Fresh and intermediate marshes often support diverse communities of floating-leaved and submerged aquatic plants that provide important food and cover to a wide variety of fish and wildlife species. A fresh/intermediate open water area with no aquatics is assumed to have low suitability (SI=0.1). Optimal conditions (SI=1.0) are assumed to occur when 100 percent of the open water is dominated by aquatic vegetation. Habitat suitability may be assumed to decrease with aquatic plant coverage approaching 100 percent due to the potential for mats of aquatic vegetation to hinder fish and wildlife utilization; to adversely affect water quality by reducing photosynthesis by phytoplankton and other plant forms due to shading; and contribute to oxygen depletion spurred by warm-season decay of large quantities of aquatic vegetation. The EnvWG recognized, however, that those effects were highly dependent on the dominant aquatic plant species, their growth forms, and their arrangement in the water column; thus, it is possible to have 100 percent cover of a variety of floating and submerged aquatic plants without the above-mentioned problems due to differences in plant growth form and stratification of plants through the water column. Because predictions of which species may dominate at any time in the future would be tenuous, at best, the EnvWG decided to simplify the graph and define optimal conditions at 100 percent aquatic cover.

Brackish marshes also have the potential to support aquatic plants that serve as important sources of food and cover for several species of fish and wildlife. Although brackish marshes generally do not support the amounts and kinds of aquatic plants that

occur in fresh/intermediate marshes, certain species, such as widgeon-grass, and coontail and milfoil in lower salinity brackish marshes, can occur abundantly under certain conditions. Those species, particularly widgeon-grass, provide important food and cover for many species of fish and wildlife. Therefore, the V<sub>2</sub> Suitability Index graph in the brackish marsh model is identical to that in the fresh/intermediate model.

Some low-salinity saline marshes may contain beds of widgeon-grass and open water areas behind some barrier islands may contain dense stands of seagrasses (e.g., *Halodule wrightii* and *Thalassia testudinum*). However, saline marshes typically do not contain an abundance of aquatic vegetation as often found in fresh/intermediate and brackish marshes. Open water areas in saline marshes typically contain sparse aquatic vegetation and are primarily important as nursery areas for marine organisms. Therefore, in order to reflect the importance of those open water areas to marine organisms, a saline marsh lacking aquatic vegetation is assigned a SI=0.3. It is assumed that optimal coverage of aquatic plants occurs at 100 percent.

**Variable V<sub>3</sub> - Marsh edge and interspersion.** This variable takes into account the relative juxtaposition of marsh and open water for a given marsh:open water ratio, and is measured by comparing the project area to sample illustrations (Appendix A) depicting different degrees of interspersion. Interspersion is assumed to be especially important when considering the value of an area as foraging and nursery habitat for freshwater and estuarine fish and shellfish; the marsh/open water interface represents an ecotone where prey species often concentrate, and where post-larval and juvenile organisms can find cover. Isolated marsh ponds are often more productive in terms of aquatic vegetation than are larger ponds due to decreased turbidity, and, thus, may provide more suitable waterfowl habitat. However, interspersion can be indicative of marsh degradation, a factor taken into consideration in assigning suitability indices to the various interspersion classes.

A relatively high degree of interspersion in the form of stream courses and tidal channels (Interspersion Class 1) is assumed to be optimal (SI=1.0); streams and channels offer interspersion, yet are not indicative of active marsh deterioration. Areas exhibiting a high degree of marsh cover are also ranked as optimal, even though interspersion may be low, to avoid conflicts with the premises underlying the SI graph for variable V<sub>1</sub>. Without such an allowance, areas of relatively healthy, solid marsh, or projects designed to create marsh, would be penalized with respect to interspersion. Numerous small marsh ponds (Interspersion Class 2) offer a high degree of interspersion, but are also usually indicative of the beginnings of marsh break-up and degradation, and are therefore assigned a more moderate SI of 0.6. Large open water areas (Interspersion Classes 3 and 4) offer lower interspersion values and usually indicate advanced stages of marsh loss, and are thus assigned SI's of 0.4 and 0.2, respectively. The lowest expression of interspersion, Class 5 (i.e., no emergent marsh at all within the project area), is assumed to be least desirable and is assigned an SI=0.1.

**Variable V<sub>4</sub> - Percent of open water area # 1.5 feet deep in relation to marsh surface.** Shallow water areas are assumed to be more biologically productive than deeper water due to a general reduction in sunlight, oxygen, and temperature as water depth increases. Also, shallower water provides greater bottom accessibility for certain species of waterfowl, better foraging habitat for wading birds, and more favorable conditions for aquatic plant growth. Optimal open water conditions in a fresh/intermediate marsh are assumed to occur when 80 to 90 percent of the open water area is less than or equal to 1.5

feet deep. The value of deeper areas in providing drought refugia for fish, alligators and other marsh life is recognized by assigning an SI=0.6 (i.e., sub-optimal) if all of the open water is less than or equal to 1.5 feet deep.

Shallow water areas in brackish marsh habitat are also important. However, brackish marsh generally exhibits deeper open water areas than fresh marsh due to tidal scouring. Therefore, the SI graph is constructed so that lower percentages of shallow water receive higher SI values relative to fresh/intermediate marsh. Optimal open water conditions in a brackish marsh are assumed to occur when 70 to 80 percent of the open water area is less than or equal to 1.5 feet deep.

The SI graph for the saline marsh model is similar to that for brackish marsh, where optimal conditions are assumed to occur when 70 to 80 percent of the open water area is less than or equal to 1.5 feet deep. However, at 100 percent shallow water, the saline graph yields an SI= 0.5 rather than 0.6 as for the brackish model. That change reflects the increased abundance of tidal channels and generally deeper water conditions prevailing in a saline marsh due to increased tidal influences, and the importance of those tidal channels to estuarine organisms.

**Variable V<sub>5</sub> - Salinity.** It is assumed that periods of high salinity are most detrimental in a fresh/intermediate marsh when they occur during the growing season (defined as March through November, based on dates of first and last frost contained in Natural Resource Conservation Service soil surveys for coastal Louisiana). Therefore, mean high salinity is used as the salinity parameter for the fresh/intermediate marsh model. Mean high salinity is defined as the average of the upper 33 percent of salinity readings taken during a specified period of record. Optimal conditions in fresh marsh are assumed to occur when mean high salinity during the growing season is less than 2 parts per thousand (ppt). Optimal conditions in intermediate marsh are assumed to occur when mean high salinity during the growing season is less than 4 ppt.

For the brackish and saline marsh models, average annual salinity is used as the salinity parameter. The SI graph for brackish marsh is constructed to represent optimal conditions when salinities are between 0 ppt and 10 ppt. The EnvWG acknowledges that average annual salinities below 5 ppt will effectively define a marsh as fresh or intermediate, not brackish. However, the SI graph makes allowances for lower salinities to account for occasions when there is a trend of decreasing salinities through time toward a more intermediate condition. Implicit in keeping the graph at optimum for salinities less than 5 ppt is the assumption that lower salinities are not detrimental to a brackish marsh. However, average annual salinities greater than 10 ppt are assumed to be progressively more harmful to brackish marsh vegetation. Average annual salinities greater than 16 ppt are assumed to be representative of those found in a saline marsh, and thus are not considered in the brackish marsh model.

The SI graph for the saline marsh model is constructed to represent optimal salinity conditions at between 0 ppt and 21 ppt. The EnvWG acknowledges that average annual salinities below 10 ppt will effectively define a marsh as brackish, not saline. However, the suitability index graph makes allowances for lower salinities to account for occasions when there is a trend of decreasing salinities through time toward a more brackish condition. Implicit in keeping the graph at optimum for salinities less than 10 ppt is the assumption that lower salinities are not detrimental to a saline marsh. Average annual salinities greater than 21 ppt are assumed to be slightly stressful to saline marsh vegetation.

**Variable V<sub>6</sub> - Aquatic organism access.** Access by aquatic organisms, particularly estuarine-dependent fishes and shellfishes, is considered to be a critical component in assessing the quality of a given marsh system. Additionally, a marsh with a relatively high degree of access by default also exhibits a relatively high degree of hydrologic connectivity with adjacent systems, and therefore may be considered to contribute more to nutrient exchange than would a marsh exhibiting a lesser degree of access. The SI for V<sub>6</sub> is determined by calculating an "access value" based on the interaction between the percentage of the project area wetlands considered accessible by aquatic organisms during normal tidal fluctuations, and the type of man-made structures (if any) across identified points of ingress/egress (bayous, canals, etc.). Standardized procedures for calculating the Access Value have been established (Appendix B). It should be noted that access ratings for man-made structures were determined by consensus among EnvWG members and that scientific research has not been conducted to determine the actual access value for each of those structures. Optimal conditions are assumed to exist when all of the study area is accessible and the access points are entirely open and unobstructed.

A fresh marsh with no access is assigned an SI=0.3, reflecting the assumption that, while fresh marshes are important to some species of estuarine-dependent fishes and shellfish, such a marsh lacking access continues to provide benefits to a wide variety of other wildlife and fish species, and is not without habitat value. An intermediate marsh with no access is assigned an SI=0.2, reflecting that intermediate marshes are somewhat more important to estuarine-dependent organisms than fresh marshes. The general rationale and procedure behind the V<sub>6</sub> Suitability Index graph for the brackish marsh model is identical to that established for the fresh/intermediate model. However, brackish marshes are assumed to be more important as habitat for estuarine-dependent fish and shellfish than fresh/intermediate marshes. Therefore, a brackish marsh providing no access is assigned an SI of 0.1. The Suitability Index graph for aquatic organism access in the saline marsh model is the same as that in the brackish marsh model.

## **HABITAT SUITABILITY INDEX FORMULAS**

In developing the HSI formulas, the EnvWG recognized that the primary focus of the CWPPRA is on vegetated wetlands, and that some marsh protection strategies could have adverse impacts to aquatic organism access. Therefore, the EnvWG made an *a priori* decision to emphasize variables V<sub>1</sub>, V<sub>2</sub>, and V<sub>6</sub> by grouping them together, when possible, and weighting them greater than the remaining variables. Weighting was facilitated by treating the grouped variables as a geometric mean. Variables V<sub>3</sub>, V<sub>4</sub>, and V<sub>5</sub> were grouped to isolate their influence relative to V<sub>1</sub>, V<sub>2</sub>, and V<sub>6</sub>.

For all marsh models, V<sub>1</sub> receives the strongest weighting. The relative weights of V<sub>1</sub>, V<sub>2</sub>, and V<sub>6</sub> differ by marsh model to reflect differing levels of importance for those variables between the marsh types. For example, the amount of aquatic vegetation was deemed more important in a fresh/intermediate marsh than in a saline marsh, due to the relative contributions of aquatic vegetation between the two marsh types in terms of providing food and cover. Therefore, V<sub>2</sub> receives more weight in the fresh/intermediate HSI formula than in the saline HSI formula. Similarly, the degree of aquatic organism access was considered more important in a saline marsh than a fresh/intermediate marsh,

and V<sub>6</sub> receives more weight in the saline HSI formula than in the fresh/intermediate formula. As with the Suitability Index graphs, the Habitat Suitability Index formulas were developed by consensus among the EnvWG members.

For several years, 1991 through 1996, the EnvWG utilized one HSI formula specific to each marsh type. However, it was noted that variables V<sub>2</sub> and V<sub>4</sub>, which characterize open water areas only, often resulted in an “artificially inflated” HSI when those variable values were optimal (i.e., SI = 1.0) and open water comprised a very small portion of the project area. For example, Project Area A contains 90 percent emergent marsh and 10 percent open water. Project Area B contains 10 percent emergent marsh and 90 percent open water. Assume the open water in each project area is completely covered by submerged aquatic vegetation and is entirely less than 1.5 feet in depth. Under those conditions, the Suitability Index values for V<sub>2</sub> and V<sub>4</sub> would equal 1.0 for both project areas even though open water only accounts for 10 percent of Project Area A. The EnvWG has commonly referred to this as a “scaling” problem; the Suitability Index values for V<sub>2</sub> and V<sub>4</sub> are not “scaled” in respect to the proportion of the project area they describe. This allows those variables to contribute disproportionately to the HSI in instances when open water constitutes a small portion of the project area.

The EnvWG acknowledged that the scaling problem presented a flaw in the WVA methodology resulting in unrealistic HSI values for certain project areas and eventually resulting in inflated wetland benefits for those projects. During 1996 and 1997, Dr. Gary Shaffer assisted the EnvWG in developing potential solutions to the scaling problem. After several unsuccessful attempts to develop a single HSI formula for each marsh type which scaled the Suitability Index values for V<sub>2</sub> and V<sub>4</sub> based on the ratio of emergent marsh to open water, the EnvWG decided to develop a “split” model for each marsh type. The split model utilizes two HSI formulas for each marsh type; one HSI formula characterizes the emergent habitat within the project area and another HSI formula characterizes the open water habitat. The HSI formula for the emergent habitat contains only those variables important in assessing habitat quality for emergent marsh (i.e., V<sub>1</sub>, V<sub>3</sub>, V<sub>5</sub>, and V<sub>6</sub>). Likewise, the open water HSI formula contains only those variables important in characterizing the open water habitat (i.e., V<sub>2</sub>, V<sub>3</sub>, V<sub>4</sub>, V<sub>5</sub>, and V<sub>6</sub>). Individual HSI formulas were developed for emergent marsh and open water habitats for each marsh type.

As with the development of a single HSI model for each marsh type, the split models follow the same conventions for weighting and grouping of variables as previously discussed.

## **BENEFIT ASSESSMENT**

As previously discussed, the marsh models are split into emergent marsh and open water components and an HSI is determined for both. Subsequently, net AAHUs are also determined for the emergent marsh and open water habitats within the project area. Net AAHUs for the emergent marsh and open water habitat components must be combined to determine total net benefits for the project.

The primary focus of the CWPPRA is on vegetated wetlands. Therefore, in order to place greater emphasis on wetland benefits to emergent marsh, a weighted average of the net benefits (net AAHUs) for emergent marsh and open water is calculated with the

emergent marsh AAHUs weighted proportionately higher than the open water AAHUs. The weighted formulas to determine net AAHUs for each marsh type are shown below:

$$\text{Fresh Marsh: } \frac{2.1(\text{Emergent Marsh AAHUs}) + \text{Open Water AAHUs}}{3.1}$$

$$\text{Brackish Marsh: } \frac{2.6(\text{Emergent Marsh AAHUs}) + \text{Open Water AAHUs}}{3.6}$$

$$\text{Saline Marsh: } \frac{3.5(\text{Emergent Marsh AAHUs}) + \text{Open Water AAHUs}}{4.5}$$

## FRESH/INTERMEDIATE MARSH

### Vegetation:

Variable V<sub>1</sub> Percent of wetland area covered by emergent vegetation.

Variable V<sub>2</sub> Percent of open water area covered by aquatic vegetation.

### Interspersion:

Variable V<sub>3</sub> Marsh edge and interspersion.

### Water Depth:

Variable V<sub>4</sub> Percent of open water area  $\leq 1.5$  feet deep, in relation to marsh surface.

### Water Quality:

Variable V<sub>5</sub> Mean high salinity during the growing season (March through November).

### Aquatic Organism Access:

Variable V<sub>6</sub> Aquatic organism access.

### HSI Calculations:

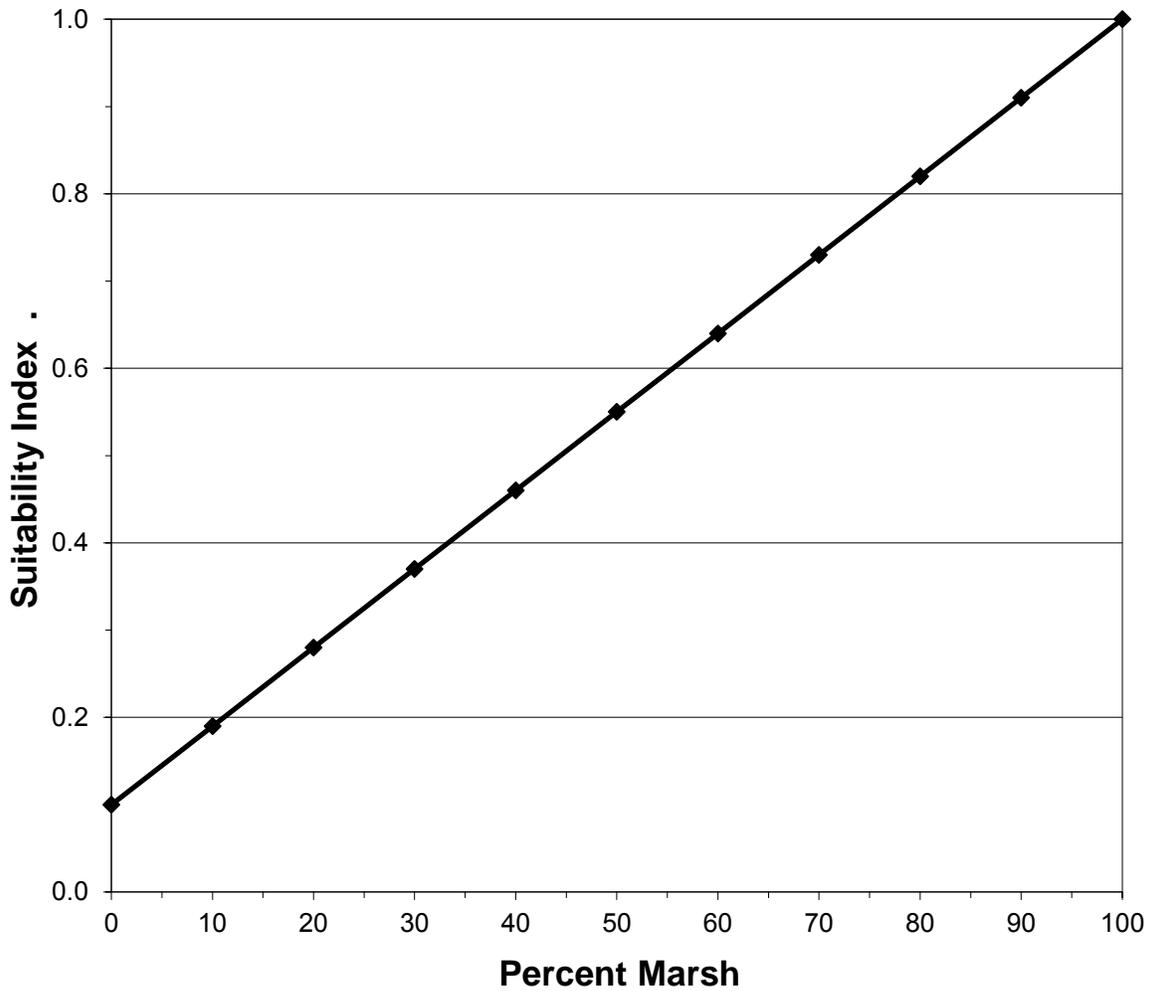
$$\text{Marsh HSI} = \left[ \{3.5 \times (SIV_1^5 \times SIV_6)^{1/6}\} + (SIV_3 + SIV_5)/2 \right] / 4.5$$

$$\text{Open Water HSI} = \left[ \{3.5 \times (SIV_2^3 \times SIV_6)^{1/4}\} + (SIV_3 + SIV_4 + SIV_5)/3 \right] / 4.5$$

## FRESH/INTERMEDIATE MARSH

**Variable V<sub>1</sub>** Percent of wetland area covered by emergent vegetation.

### Suitability Graph



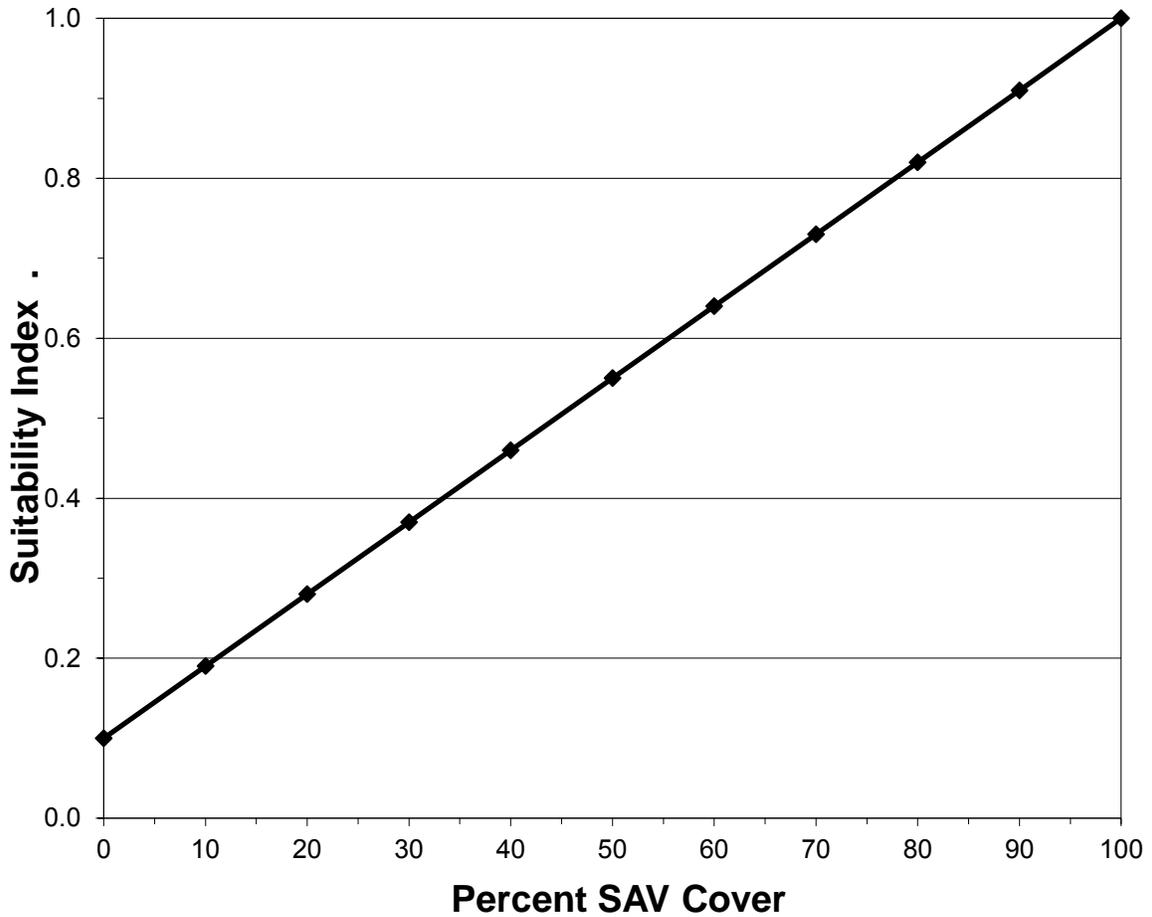
#### Line Formula

$$SI = (0.009 * \%) + 0.1$$

## FRESH/INTERMEDIATE MARSH

**Variable V<sub>2</sub>** Percent of open water area covered by aquatic vegetation.

### Suitability Graph



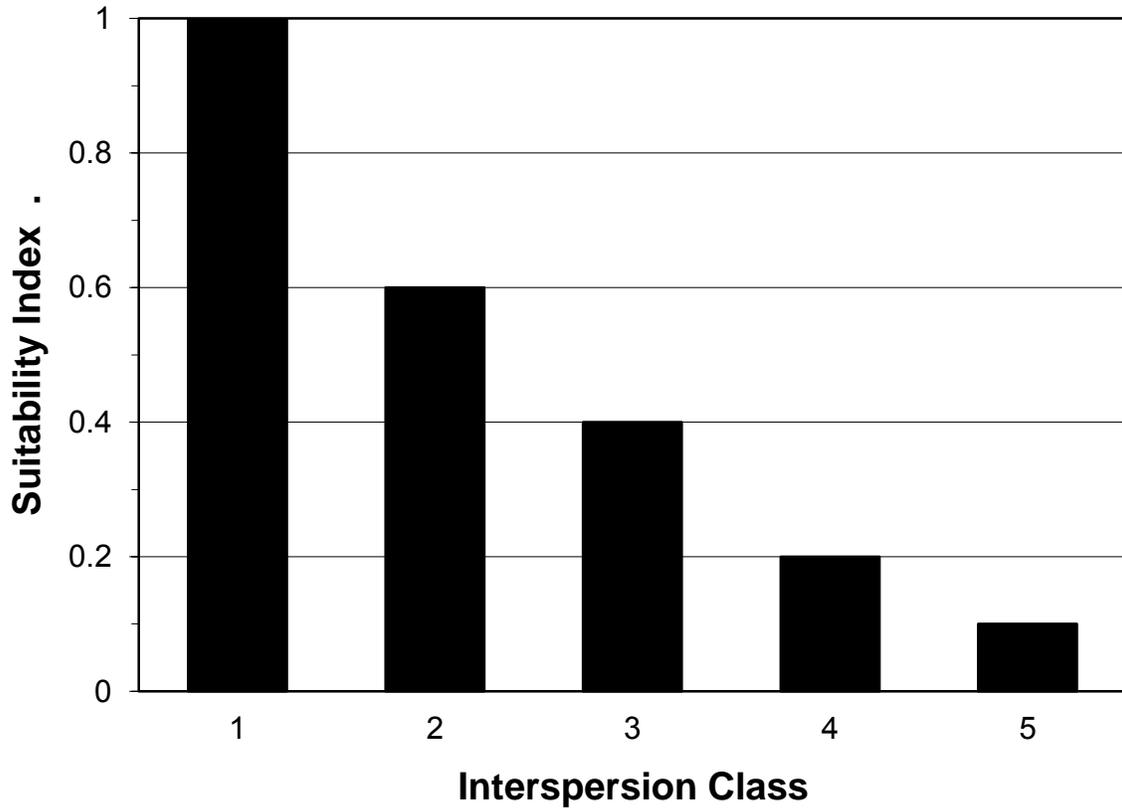
#### Line Formula

$$SI = (0.009 * \%) + 0.1$$

## FRESH/INTERMEDIATE MARSH

Variable V<sub>3</sub> Marsh edge and interspersion.

### Suitability Graph



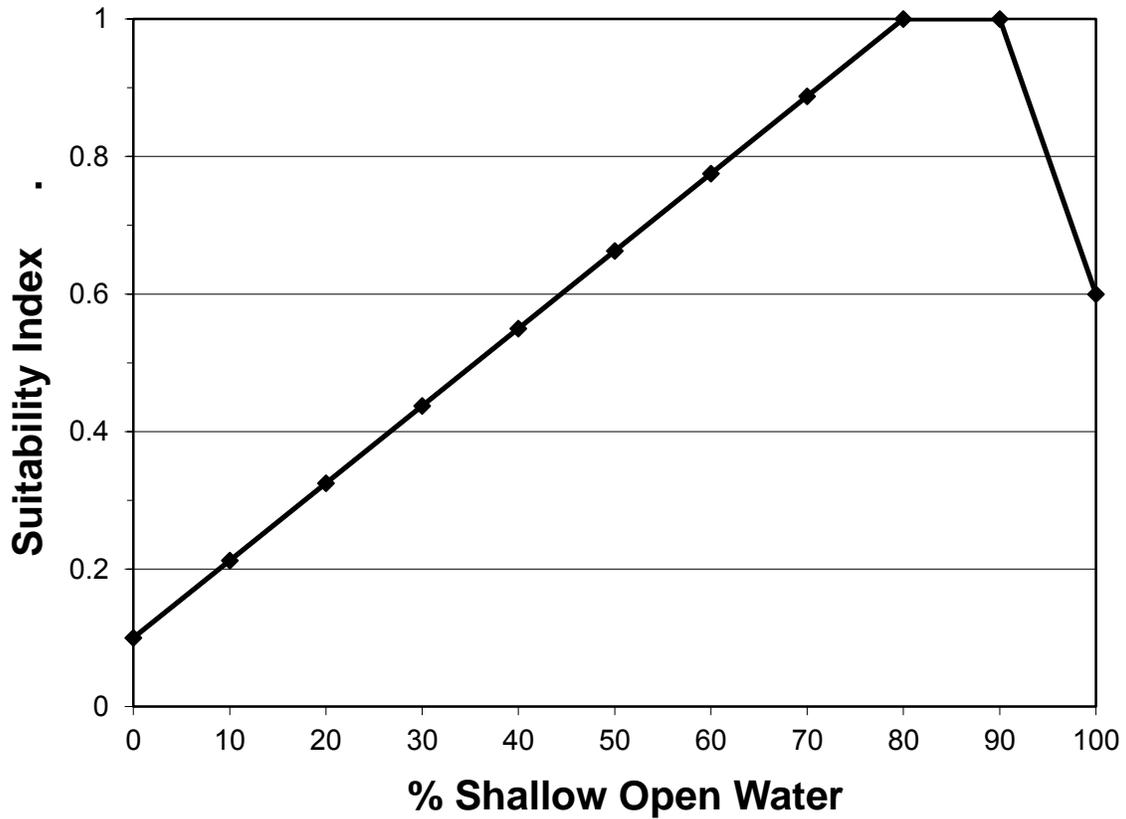
#### Instructions for Calculating the SI for Variable V<sub>3</sub>:

1. Refer to Appendix A for examples of the different interspersion classes.
2. Estimate percent of project area in each class.

## FRESH/INTERMEDIATE MARSH

**Variable V<sub>4</sub>** Percent of open water area  $\leq 1.5$  feet deep, in relation to marsh surface.

### Suitability Graph



#### Line Formulas

If  $0 \leq \% < 80$ , then  $SI = (0.01125 * \%) + 0.1$

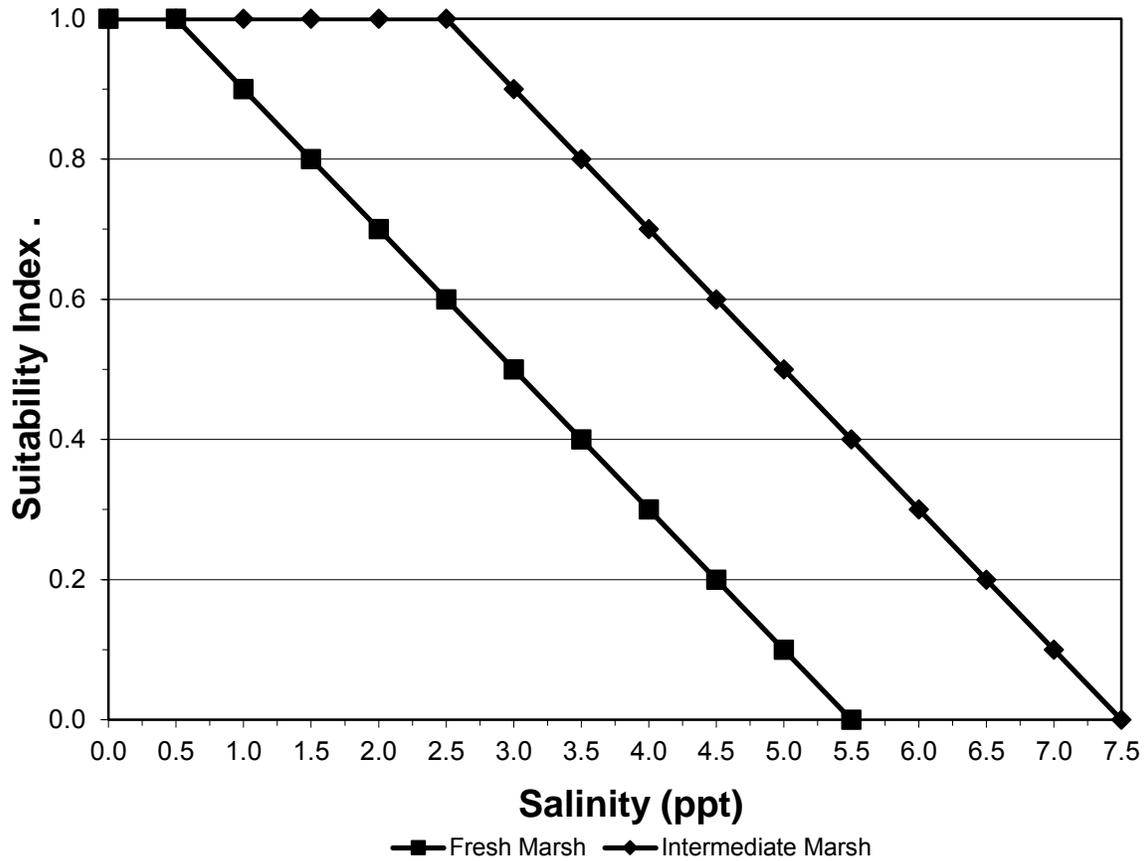
If  $80 \leq \% \leq 90$ , then  $SI = 1.0$

If  $\% > 90$ , then  $SI = (-0.04 * \%) + 4.6$

## FRESH/INTERMEDIATE MARSH

Variable V<sub>5</sub> Mean high salinity during the growing season (March through November).

### Suitability Graph



### Line Formulas

#### Fresh Marsh:

If  $0 < \text{ppt} \leq 0.5$ , then  $SI = 1.0$

If  $\text{ppt} > 0.5$ , then  $SI = (-0.20 * \text{ppt}) + 1.10$

#### Intermediate Marsh:

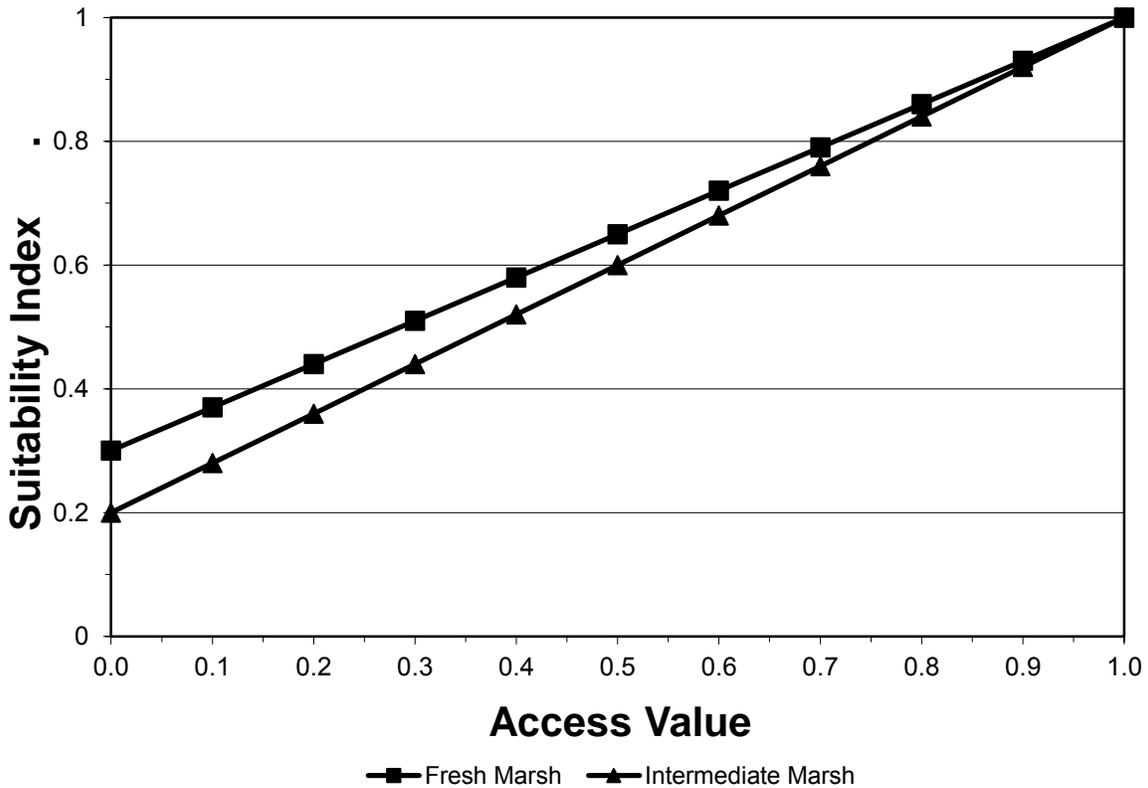
If  $0 < \text{ppt} \leq 2.5$ , then  $SI = 1.0$

If  $\text{ppt} > 2.5$ , then  $SI = (-0.20 * \text{ppt}) + 1.50$

## FRESH/INTERMEDIATE MARSH

Variable V<sub>6</sub> Aquatic organism access.

### Suitability Graph



#### Line Formulas

##### Fresh Marsh:

$$SI = (0.7 * \text{Access Value}) + 0.3$$

##### Intermediate Marsh:

$$SI = (0.8 * \text{Access Value}) + 0.2$$

**NOTE:** Access Value = P \* R, where "P" = percentage of wetland area considered accessible by estuarine organisms during normal tidal fluctuations, and "R" = Structure Rating.

Refer to Appendix B "Procedure For Calculating Access Value" for complete information on calculating the Access Value.

## BRACKISH MARSH

### Vegetation:

Variable V<sub>1</sub> Percent of wetland area covered by emergent vegetation.

Variable V<sub>2</sub> Percent of open water area covered by aquatic vegetation.

### Interspersion:

Variable V<sub>3</sub> Marsh edge and interspersion.

### Water Depth:

Variable V<sub>4</sub> Percent of open water area ≤ 1.5 feet deep, in relation to marsh surface.

### Water Quality:

Variable V<sub>5</sub> Average annual salinity.

### Aquatic Organism Access

Variable V<sub>6</sub> Aquatic organism access.

### HSI Calculations:

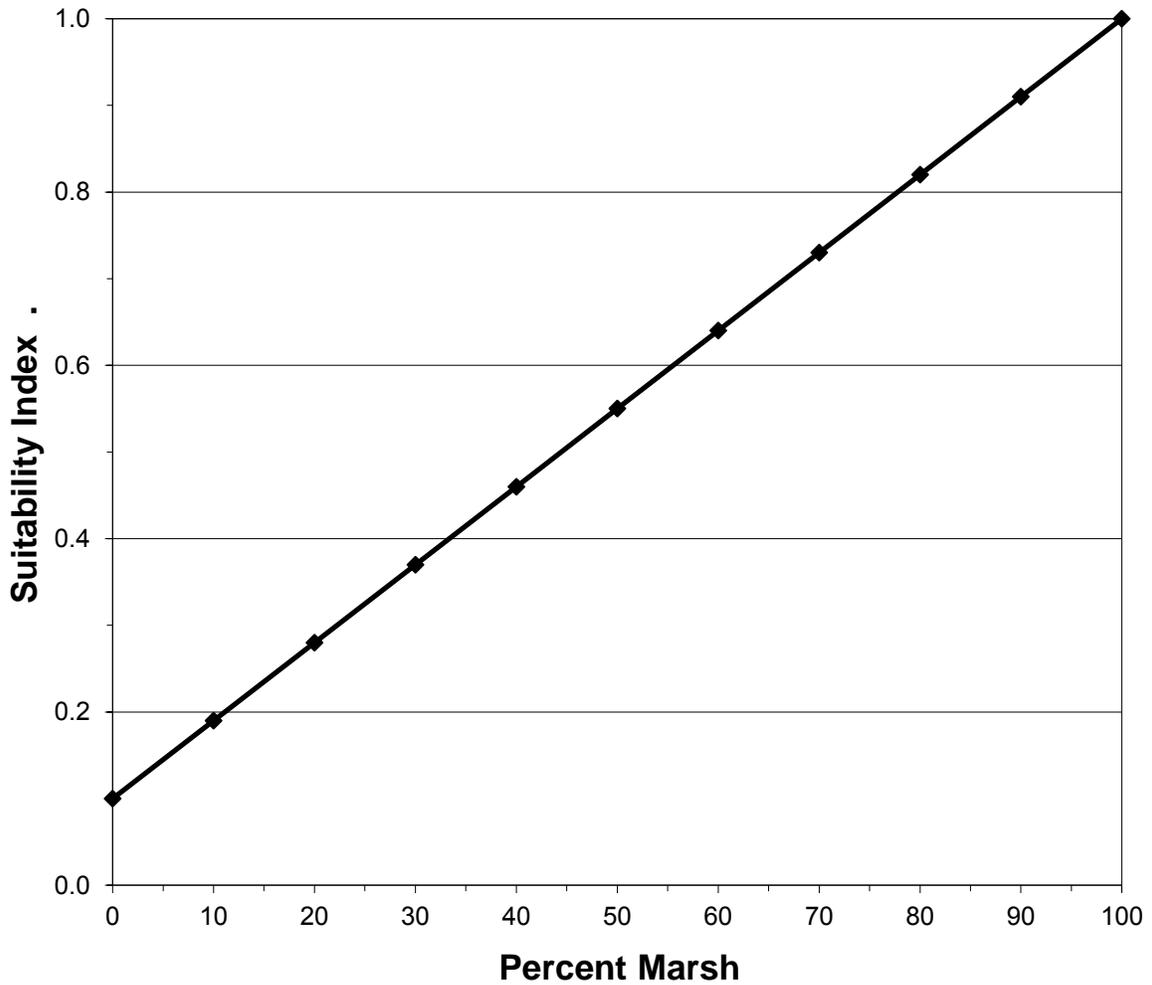
$$\text{Marsh HSI} = \left[ \{3.5 \times (SIV_1^5 \times SIV_6^{1.5})^{(1/6.5)}\} + (SIV_3 + SIV_5)/2 \right] / 4.5$$

$$\text{Open Water HSI} = \left[ \{3.5 \times (SIV_2^3 \times SIV_6^2)^{(1/5)}\} + (SIV_3 + SIV_4 + SIV_5)/3 \right] / 4.5$$

## BRACKISH MARSH

Variable V<sub>1</sub> Percent of wetland area covered by emergent vegetation.

### Suitability Graph



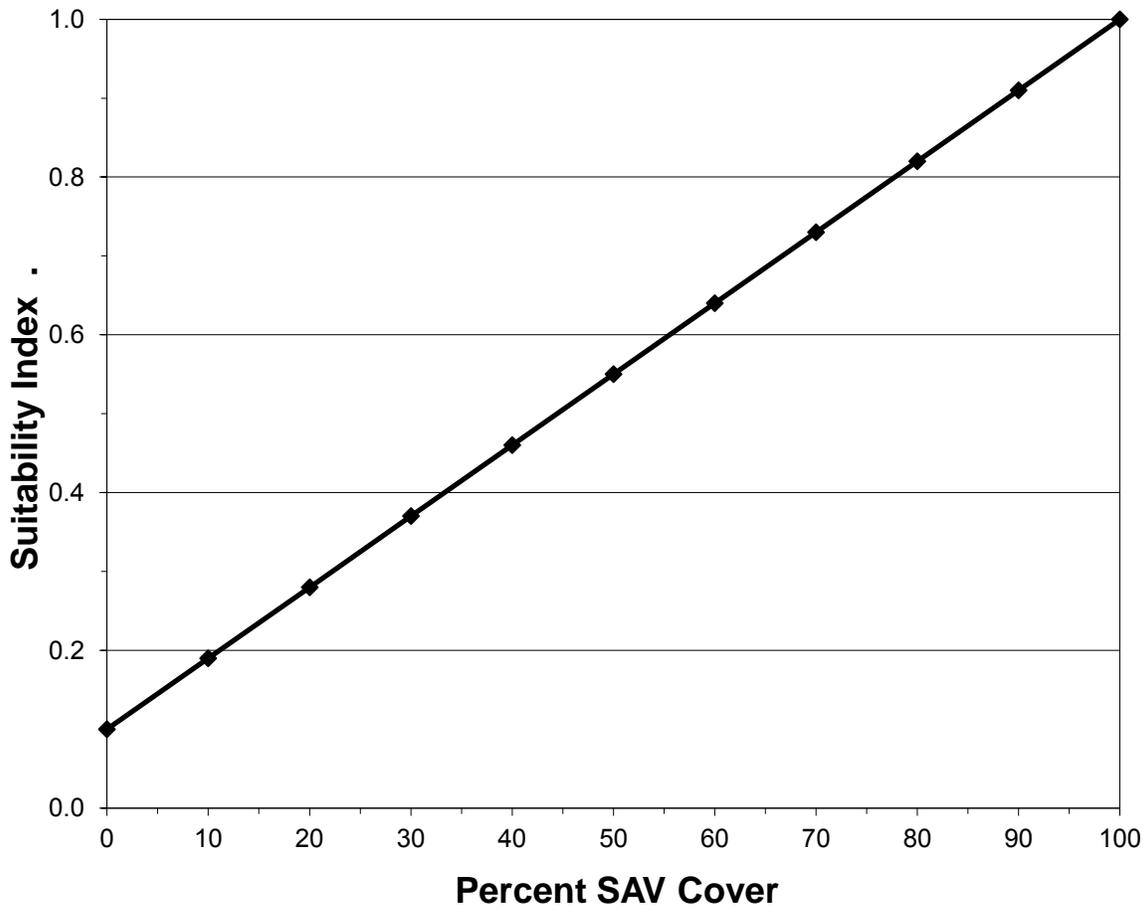
#### Line Formula

$$SI = (0.009 * \%) + 0.1$$

## BRACKISH MARSH

**Variable V<sub>2</sub>** Percent of open water area covered by aquatic vegetation.

### Suitability Graph



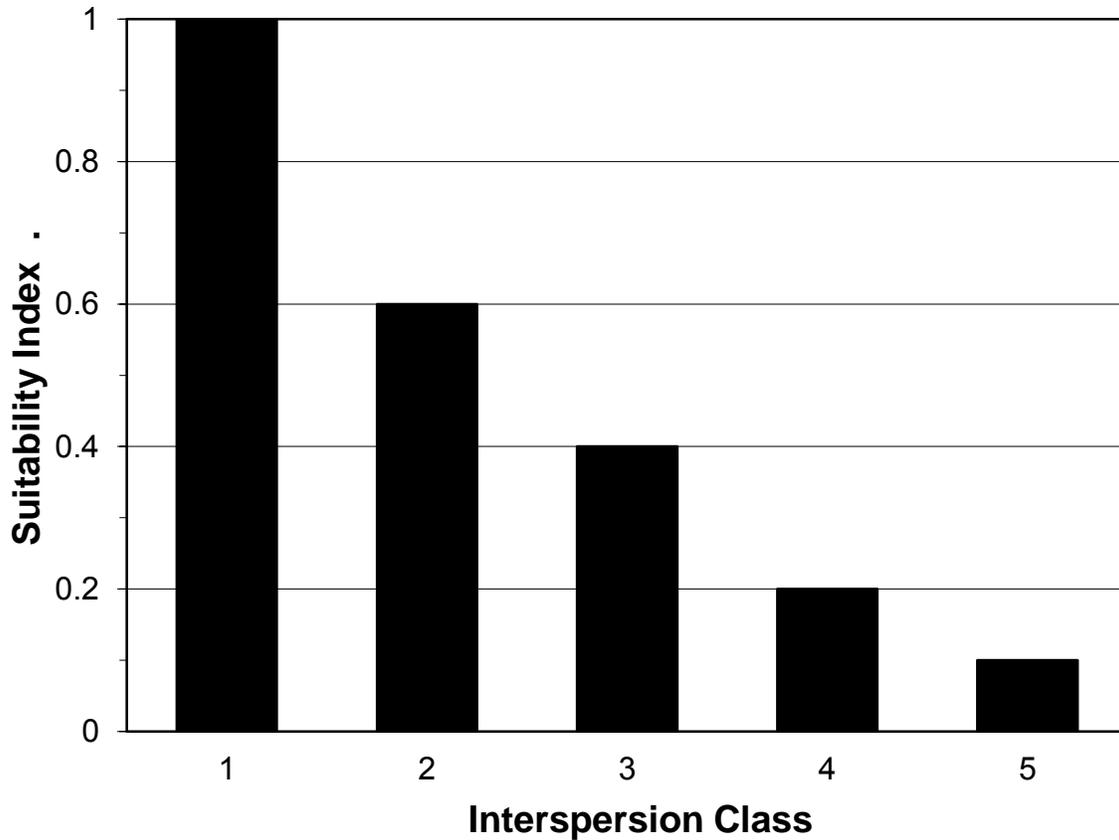
#### Line Formula

$$SI = (0.009 * \%) + 0.1$$

## BRACKISH MARSH

**Variable V<sub>3</sub>** Marsh edge and interspersion.

### Suitability Graph



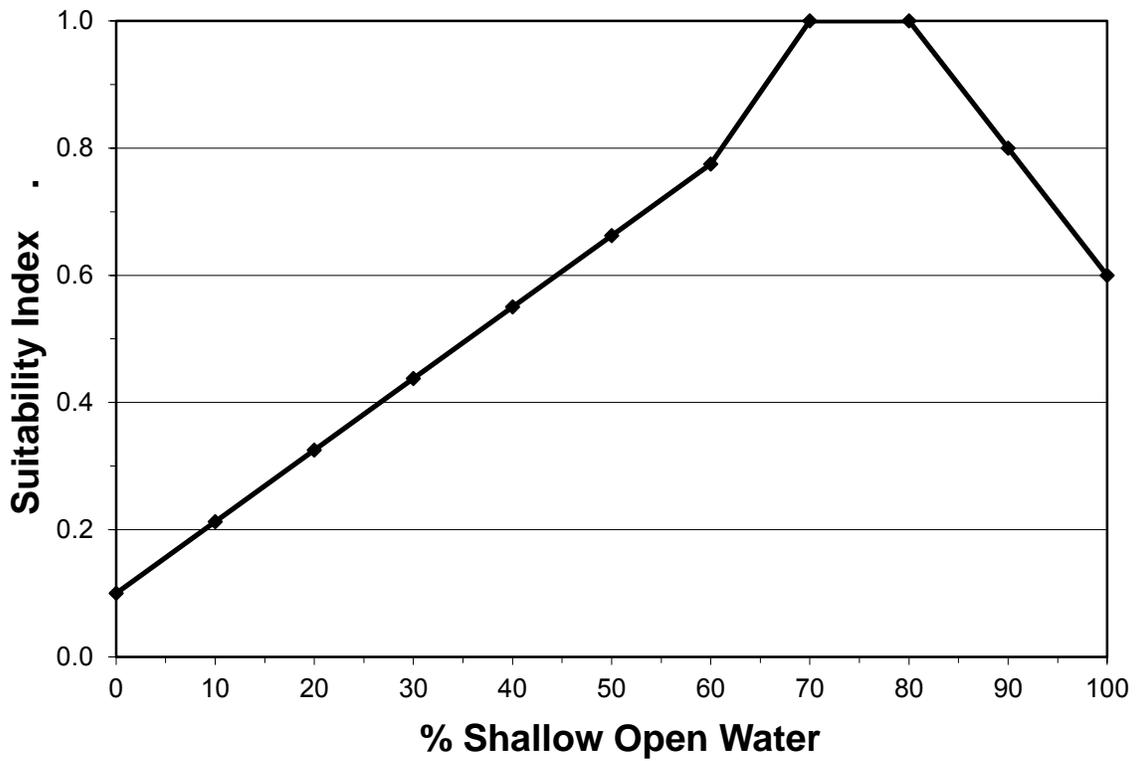
#### Instructions for Calculating SI for Variable V<sub>3</sub>:

1. Refer to Appendix A for examples of the different interspersion classes.
2. Estimate the percent of project area in each class. If the entire project area is solid marsh, assign interspersion Class 1. Conversely, if the entire project area is open water, assign interspersion Class 5.

## BRACKISH MARSH

**Variable V<sub>4</sub>** Percent of open water area  $\leq$  1.5 feet deep, in relation to marsh surface.

### Suitability Graph



#### Line Formulas

If  $0 \leq \% < 70$ , then  $SI = (0.01286 * \%) + 0.1$

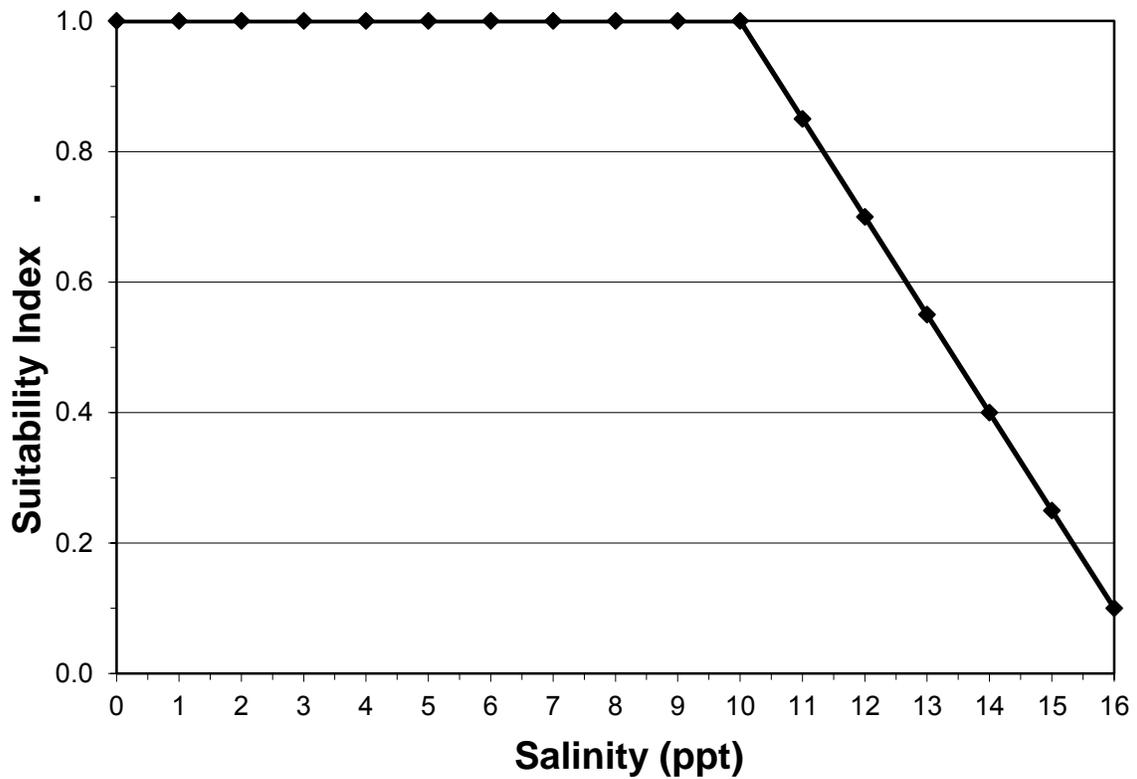
If  $70 \leq \% \leq 80$ , then  $SI = 1.0$

If  $\% > 80$ , then  $SI = (-0.02 * \%) + 2.6$

## BRACKISH MARSH

Variable V<sub>5</sub> Average annual salinity.

### Suitability Graph



#### Line Formulas

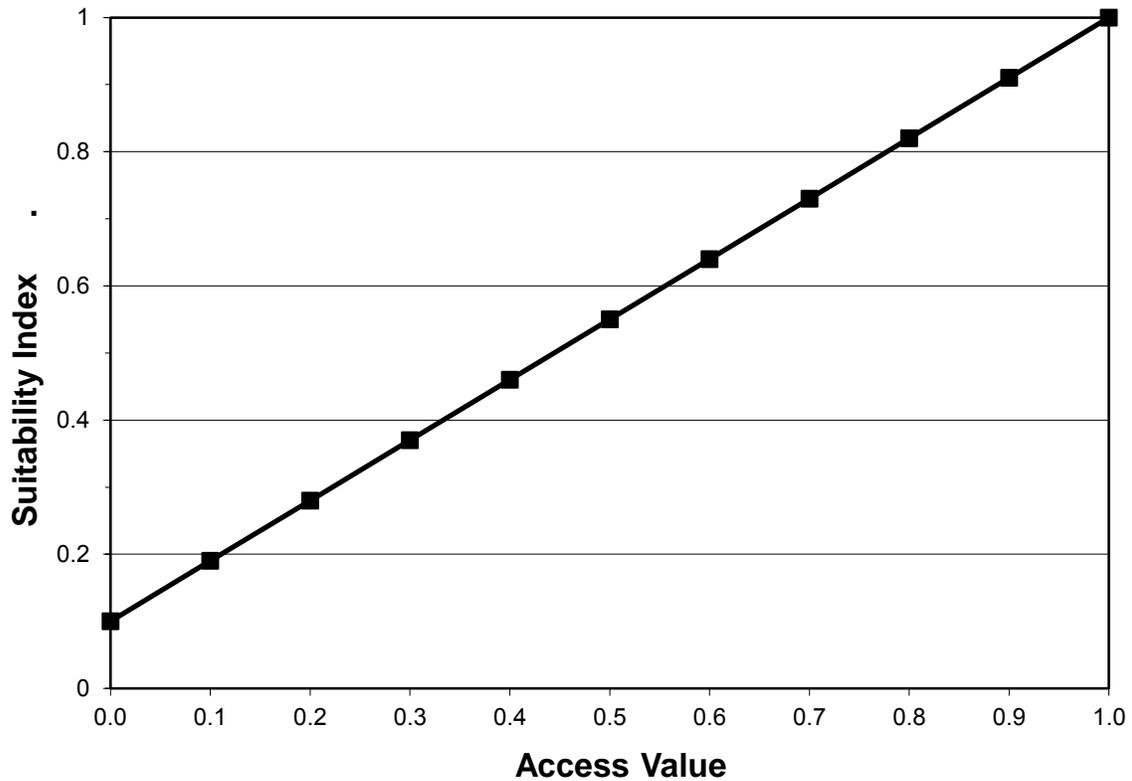
If  $0 \leq \text{ppt} \leq 10$ , then  $SI = 1.0$

If  $\text{ppt} > 10$ , then  $SI = (-0.15 * \text{ppt}) + 2.5$

## BRACKISH MARSH

Variable V<sub>6</sub> Aquatic organism access.

### Suitability Graph



#### Line Formula

$$SI = (0.9 * \text{Access Value}) + 0.1$$

**Note:** Access Value = P \* R, where "P" = percentage of wetland area considered accessible by estuarine organisms during normal tidal fluctuations, and "R" = Structure Rating.

Refer to Appendix B "Procedure For Calculating Access Value" for complete information on calculating "P" and "R" values.

## SALINE MARSH

### Vegetation:

Variable V<sub>1</sub> Percent of wetland area covered by emergent vegetation.

Variable V<sub>2</sub> Percent of open water area covered by aquatic vegetation.

### Interspersion:

Variable V<sub>3</sub> Marsh edge and interspersion.

### Water Depth:

Variable V<sub>4</sub> Percent of open water area  $\square \leq 1.5$  feet deep, in relation to marsh surface.

### Water Quality:

Variable V<sub>5</sub> Average annual salinity.

### Aquatic Organism Access:

Variable V<sub>6</sub> Aquatic organism access.

### HSI Calculation:

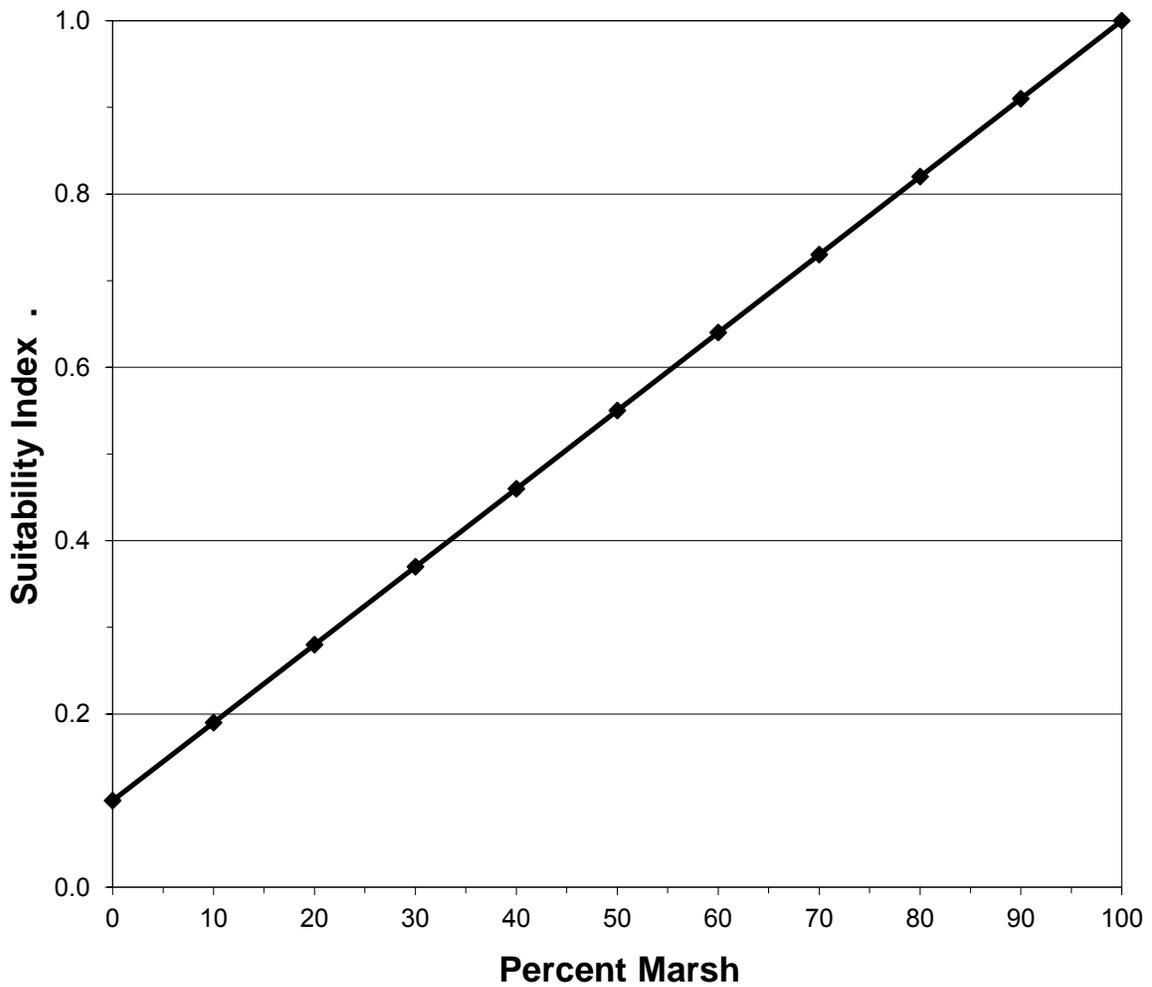
$$\text{Marsh HSI} = \left[ \{3.5 \times (SIV_1^3 \times SIV_6)^{(1/4)}\} + (SIV_3 + SIV_5)/2 \right] / 4.5$$

$$\text{Open Water HSI} = \left[ \{3.5 \times (SIV_2 \times SIV_6^{2.5})^{(1/3.5)}\} + (SIV_3 + SIV_4 + SIV_5)/3 \right] / 4.5$$

## SALINE MARSH

**Variable V<sub>1</sub>** Percent of wetland area covered by emergent vegetation.

### Suitability Graph



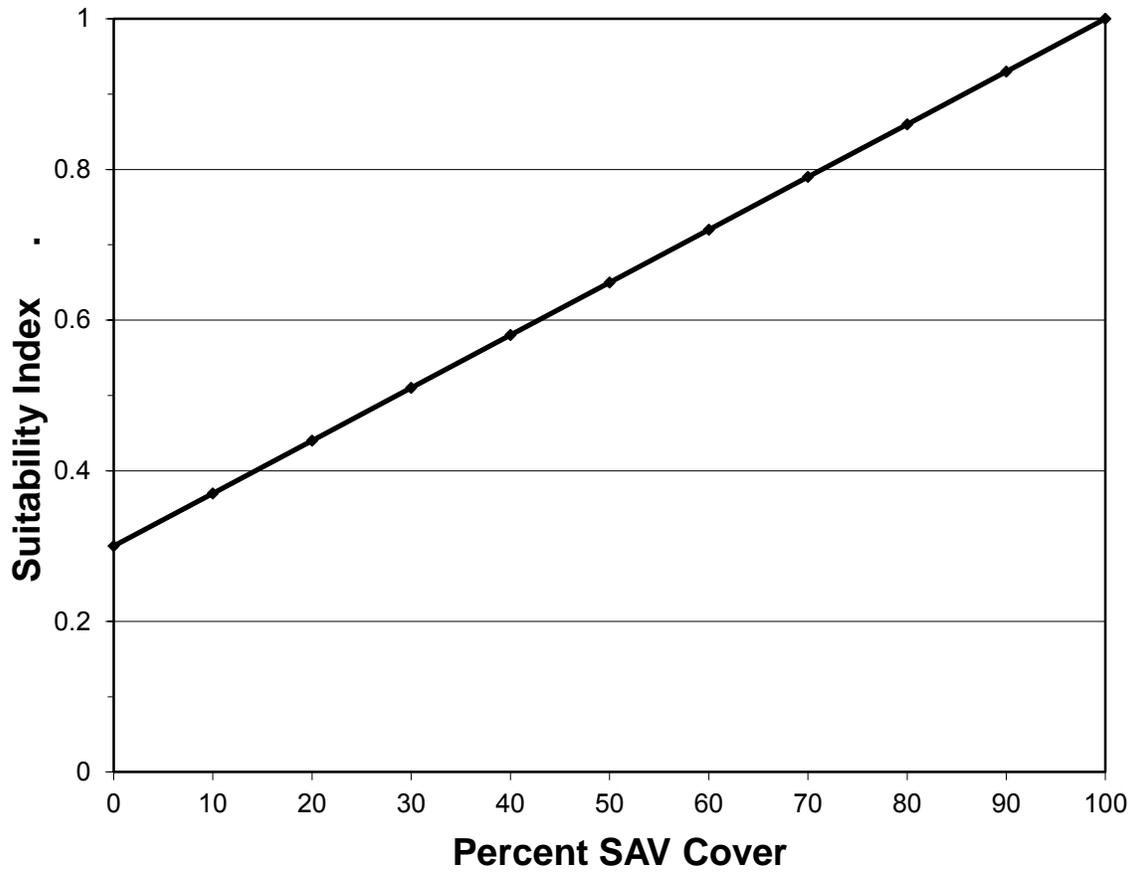
#### Line Formula

$$SI = (0.009 * \%) + 0.1$$

## SALINE MARSH

**Variable V<sub>2</sub>** Percent of open water area covered by aquatic vegetation.

### Suitability Graph



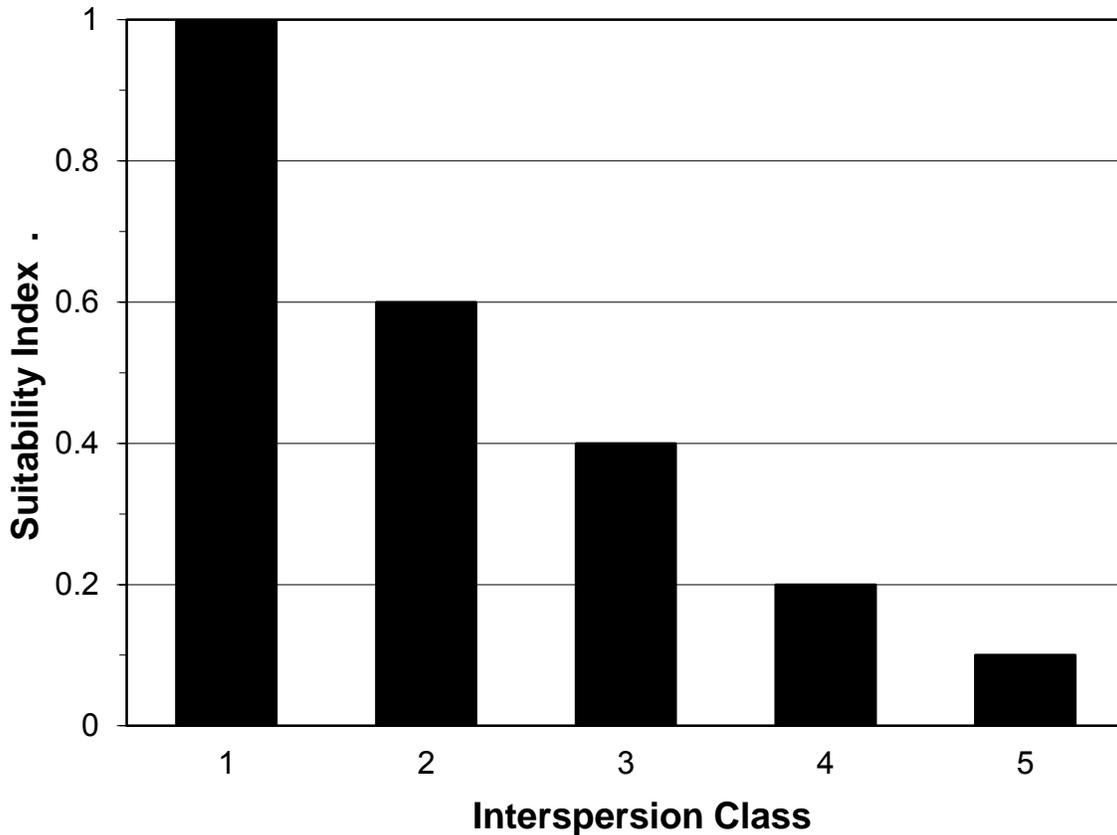
#### Line Formula

$$SI = (0.007 * \%) + 0.3$$

## SALINE MARSH

Variable V<sub>3</sub> Marsh edge and interspersion.

### Suitability Graph



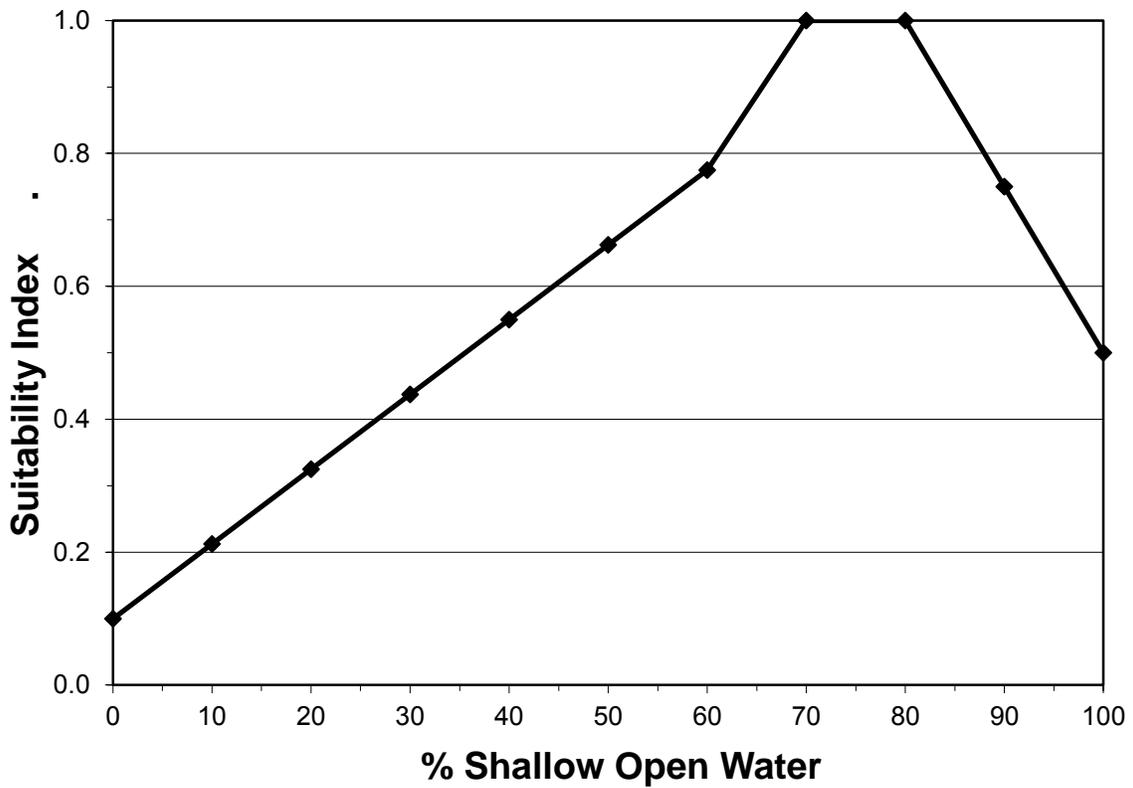
#### Instructions for Calculating SI for Variable V<sub>3</sub>:

1. Refer to Appendix A for examples of the different interspersion classes.
2. Estimate percent of project area in each class. If the entire project area is solid marsh, assign an interspersion Class 1. Conversely, if the entire project area is open water, assign an interspersion Class 5.

## SALINE MARSH

**Variable V<sub>4</sub>** Percent of open water area  $\leq$  1.5 feet deep, in relation to marsh surface.

### Suitability Graph



#### Line Formulas

If  $0 \leq \% < 70$ , then  $SI = (0.01286 * \%) + 0.1$

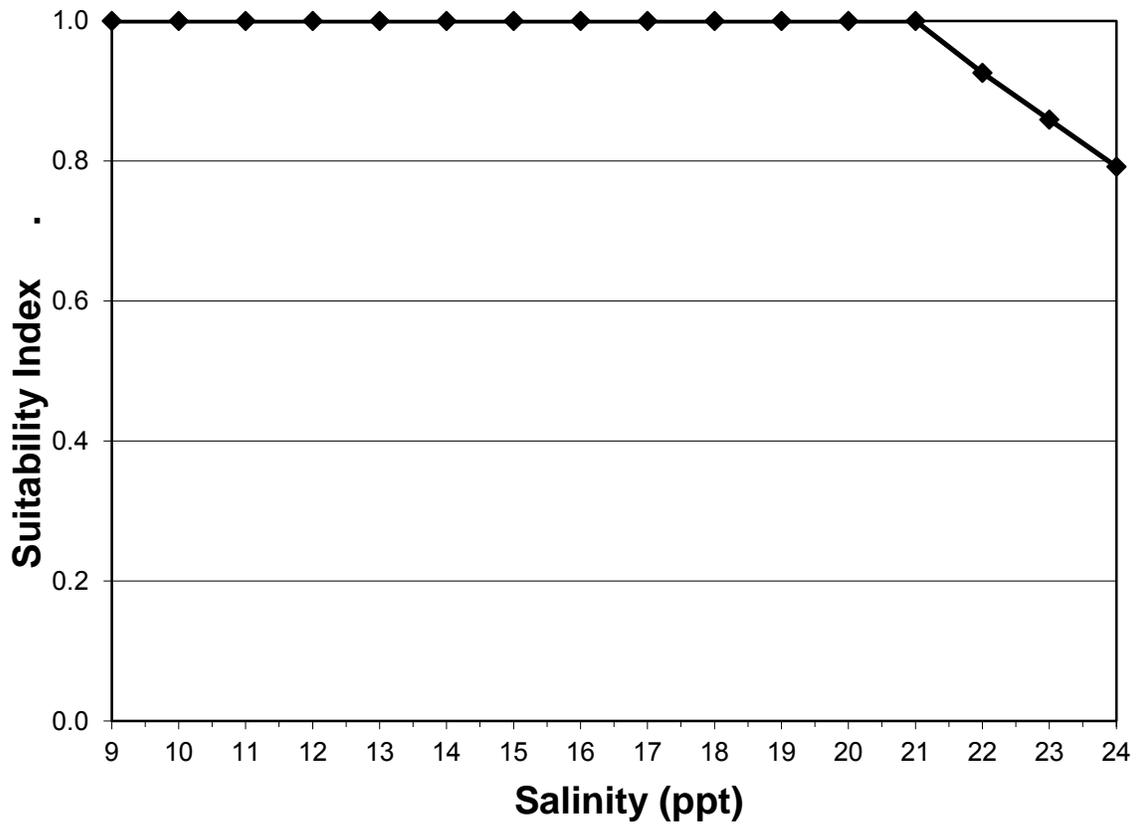
If  $70 \leq \% \leq 80$ , then  $SI = 1.0$

If  $\% > 80$ , then  $SI = (-0.025 * \%) + 3.0$

## SALINE MARSH

Variable V<sub>5</sub> Average annual salinity.

### Suitability Graph



#### Line Formulas

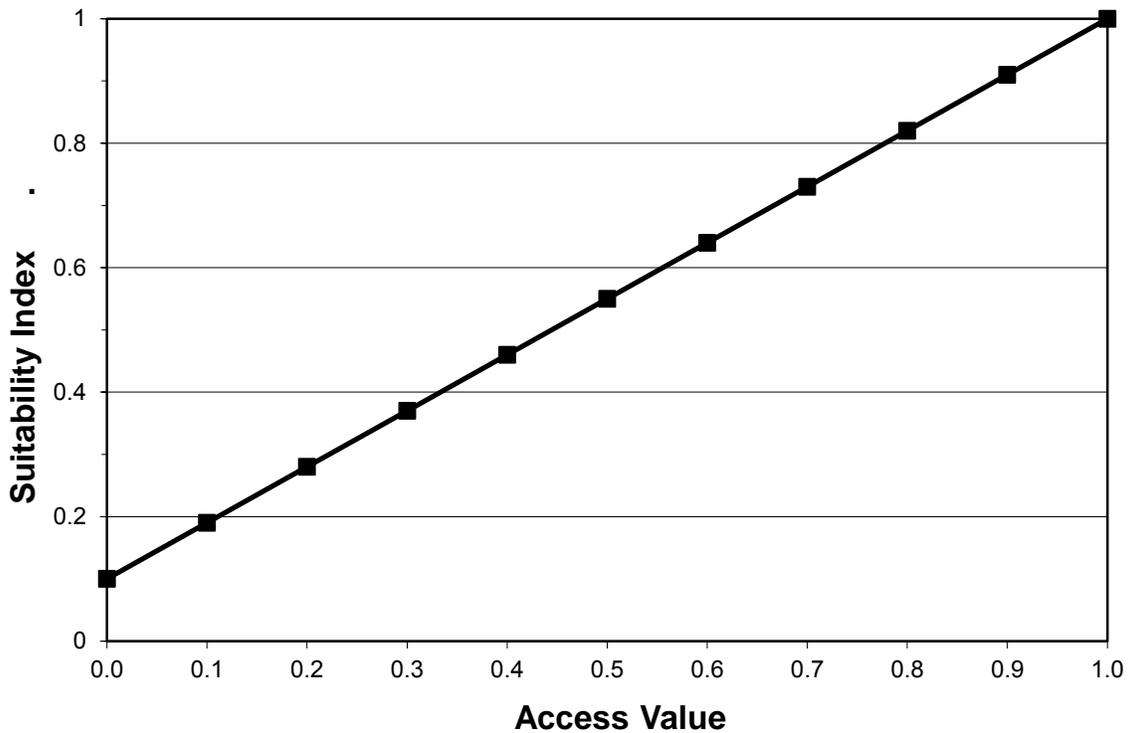
If  $9 \leq \text{ppt} \leq 21$ , then  $SI = 1.0$

If  $\text{ppt} > 21$ , then  $SI = (-0.067 * \text{ppt}) + 2.4$

## SALINE MARSH

Variable V<sub>6</sub> Aquatic organism access.

### Suitability Graph



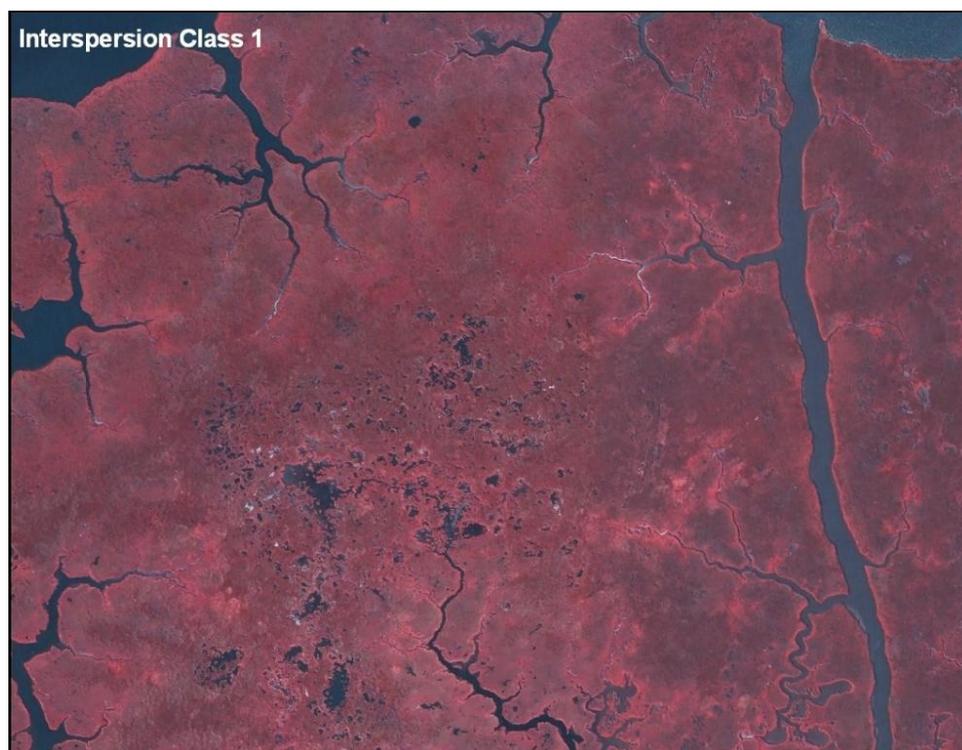
#### Line Formula

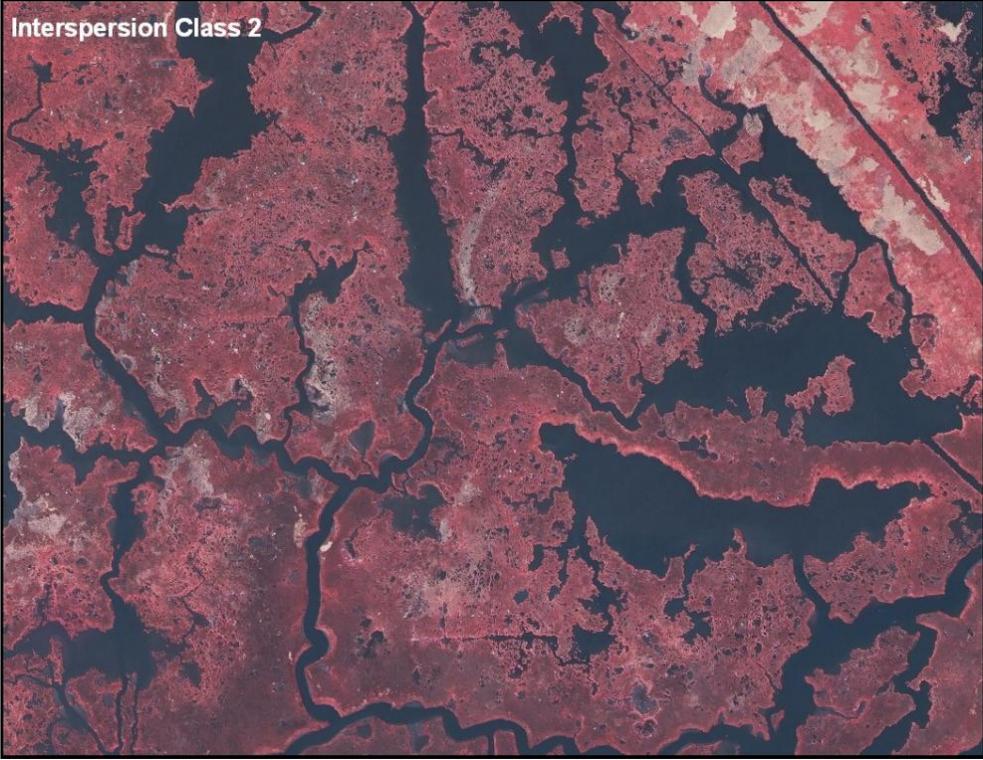
$$SI = (0.9 * \text{Access Value}) + 0.1$$

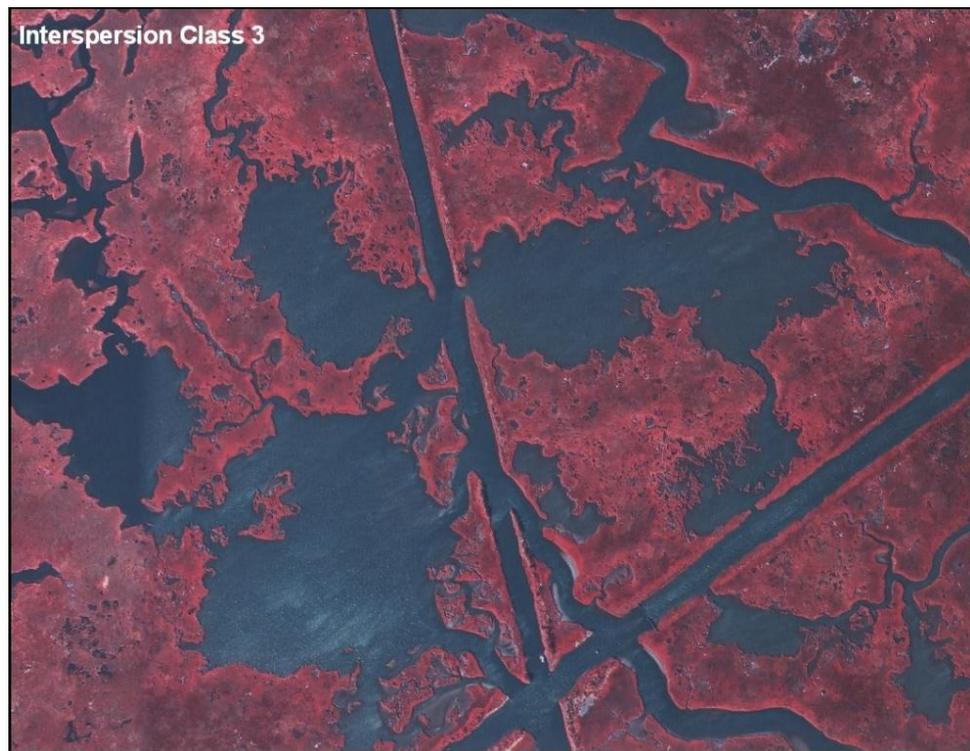
**Note:** Access Value = P \* R, where "P" = percentage of wetland area considered accessible by estuarine organisms during normal tidal fluctuations, and "R" = Structure Rating.

Refer to Appendix B "Procedure For Calculating Access Value" for complete information on calculating the Access Value.

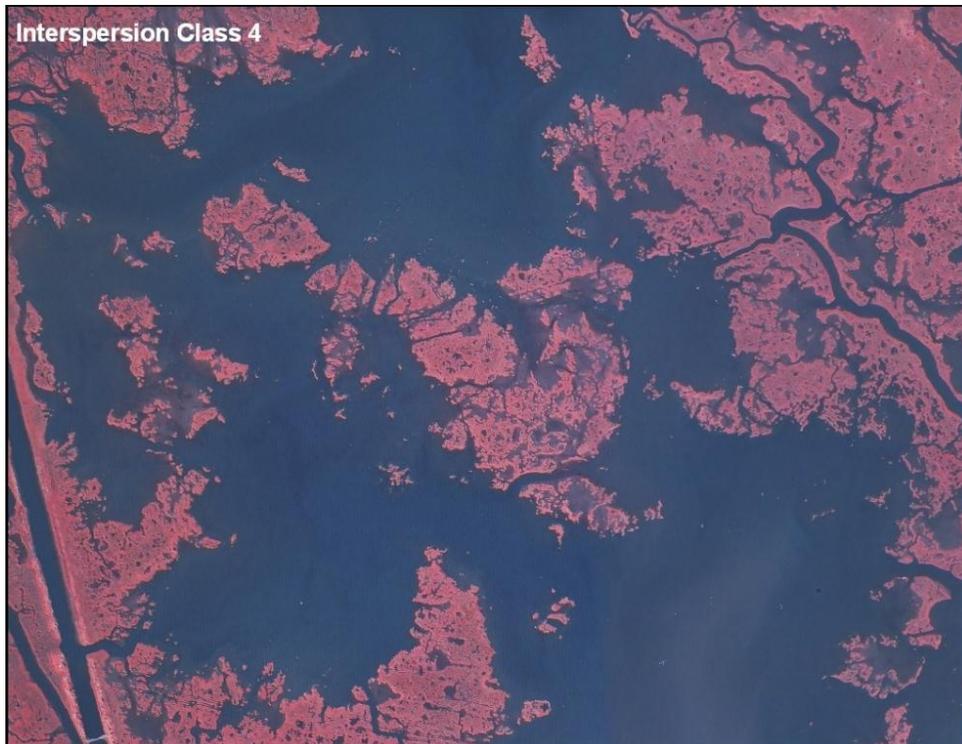
**ATTACHMENT B – EXAMPLES OF MARSH EDGE AND  
INTERSPERSION CLASSES**













Interspersion Class 5  
Marsh Creation Platform



## ATTACHMENT C - PROCEDURE FOR CALCULATING ACCESS VALUE

1. Determine the percent (P) of the wetland area accessible by estuarine organisms during normal tidal fluctuations for baseline (TY0) conditions. P may be determined by examination of aerial photography, knowledge of field conditions, or other appropriate methods.
2. Determine the Structure Rating (R) for each project structure as follows:

Structure Type	Structure Rating
Open system	1.0
Rock weir set at 1ft below marsh level (BML), w/ boat bay	0.8
Rock weir with boat bay	0.6
Rock weir set at $\geq 1$ ft BML	0.6
Slotted weir with boat bay	0.6
Open culverts	0.5
Weir with boat bay	0.5
Weir set at $\geq 1$ ft BML	0.5
Slotted weir	0.4
Flap-gated culvert with slotted weir	0.35
Variable crest weir	0.3
Flap-gated variable crest weir	0.25
Flap-gated culvert	0.2
Rock weir	0.15
Fixed crest weir	0.1
Solid plug	0.0001

For each structure type, the rating listed above pertains only to the standard structure configuration and assumes that the structure is operated according to common operating schedules consistent with the purpose for which that structure is designed. In the case of a "hybrid" structure or a unique application of one of the above-listed types (including unique or "non-standard" operational schemes), the WVA analyst(s) may assign an appropriate Structure Rating between 0.0001 and 1.0 that most closely approximates the relative degree to which the structure in question would allow ingress/egress of estuarine organisms. In those cases, the rationale used in developing the new Structure Rating shall be documented.

3. Determine the Access Value. Where multiple openings equally affect a common "accessible unit", the Structure Rating (R) of the structure proposed for the "major" access point for the unit will be used to calculate the Access Value. The designation of "major" will be made by the Environmental Work Group. An "accessible unit" is defined as a portion of the total accessible area that is served by one or more access routes (canals, bayous, etc.), yet is isolated in terms of estuarine organism access to or from other units of the project area. Isolation factors include physical barriers that prohibit further movement of estuarine organisms, such as natural levee ridges, and spoil banks; and dense marsh that lacks channels, trenasses, and similar small connections that would, if present, provide access and intertidal refugia for estuarine organisms.

Access Value should be calculated according to the following examples (Note: for all examples, P for TY0 = 90%. That designation is arbitrary and is used only for illustrative purposes; P could be any percentage from 0% to 100%):

- a. One opening into area; no structure.

$$\begin{aligned}\text{Access Value} &= P \\ &= .90\end{aligned}$$

- b. One opening into area that provides access to the entire 90% of the project area deemed accessible. A flap-gated culvert with slotted weir is placed across the opening.

$$\begin{aligned}\text{Access Value} &= P * R \\ &= .90 * .35 \\ &= .32\end{aligned}$$

- c. Two openings into area, each capable by itself of providing full access to the 90% of the project area deemed accessible in TY0. Opening #2 is determined to be the major access route relative to opening #1. A flap-gated culvert with slotted weir is placed across opening #1. Opening #2 is left unaltered.

$$\begin{aligned}\text{Access Value} &= P \\ &= .90\end{aligned}$$

Note: Structure #1 had no bearing on the Access Value calculation because its presence did not reduce access (opening #2 was determined to be the major access route, and access through that route was not altered).

- d. Two openings into area. Opening #1 provides access to an accessible unit comprising 30% of the area. Opening #2 provides access to an accessible unit comprising the remaining 60% of the project area. A flap-gated culvert with slotted weir is placed across #1. Opening #2 is left open.

$$\begin{aligned}\text{Access Value} &= \text{weighted avg. of Access Values of the two accessible units} \\ &= ([P_1 * R_1] + [P_2 * R_2]) / (P_1 + P_2) \\ &= ([.30 * 0.35] + [.60 * 1.0]) / (.30 + .60) \\ &= (.11 + .60) / .90 \\ &= .71 / .90 \\ &= .79\end{aligned}$$

Note:  $P_1 + P_2 = .90$ , because only 90 percent of the study area was determined to be accessible at TY0.

- e. Three openings into area, each capable of providing full access to the entire area independent of the others. Opening #3 is determined to be the major access

route relative to openings #1 and #2. Opening #1 is blocked with a solid plug. Opening #2 is fitted with a flap-gated culvert with slotted weir, and opening #3 is left open.

$$\begin{aligned}\text{Access Value} &= P \\ &= .90\end{aligned}$$

Note: Structures #1 and #2 had no bearing on the Access Value calculation because their presence did not reduce access (opening #3 was determined to be the major access route, and access through that route was not altered).

- f. Three openings into area, each capable of providing full access to the entire area independent of the others. Opening #2 is determined to be the major access route relative to openings #1 and #3. Opening #1 is blocked with a solid plug. Opening #2 is fitted with a flap-gated culvert with slotted weir, and opening #3 is fitted with a fixed crest weir.

$$\begin{aligned}\text{Access Value} &= P * R_2 \\ &= .90 * .35 \\ &= .32\end{aligned}$$

Note: Structures #1 and #3 had no bearing on the Access Value calculation because their presence did not reduce access. Opening #2 was determined beforehand to be the major access route; thus, it was the flap-gated culvert with slotted weir across that opening that actually served to limit access.

- g. Three openings into area. Opening #1 provides access to an accessible unit comprising 20% of the area. Openings #2 and #3 provide access to an accessible unit comprising the remaining 70% of the area, and within that area, each is capable by itself of providing full access. However, opening #3 is determined to be the major access route relative to opening #2. Opening #1 is fitted with an open culvert, #2 with a flapgated culvert with slotted weir, and #3 with a fixed crest weir.

$$\begin{aligned}\text{Access Value} &= ([P_1 * R_1] + [P_2 * R_3]) / (P_1 + P_2) \\ &= ([.20 * .5] + [.70 * .35]) / (.20 + .70) \\ &= (.10 + .25) / .90 \\ &= .35 / .90 \\ &= .39\end{aligned}$$

- h. Three openings into area. Opening #1 provides access to an accessible unit comprising 20% of the area. Opening #2 provides access to an accessible unit comprising 40% of the area, and opening #3 provides access to the remaining 30% of the area. Opening #1 is fitted with an open culvert, #2 a flap-gated culvert with slotted weir, and #3 a fixed crest weir.

$$\begin{aligned}\text{Access Value} &= ([P_1 * R_1] + [P_2 * R_2] + [P_3 * R_3]) / (P_1 + P_2 + P_3) \\ &= ([.20 * .5] + [.40 * .35] + [.30 * .1]) / (.20 + .40 + .30) \\ &= (.10 + .14 + .03) / .90 \\ &= .27 / .90 \\ &= .30\end{aligned}$$

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**Coastal Wetlands Planning, Protection, and Restoration Act**

**23rd Priority Project List Report**

**Appendix C**

**Wetland Value Assessment for Candidate Projects**



**Appendix C**  
**Wetland Value Assessment for Candidate Projects**  
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# WETLAND VALUE ASSESSMENT

## Benefits Summary Sheet

**Project: New Orleans Landbridge Shoreline Stabilization & Marsh Creation**

### TOTAL BENEFITS IN AAHUs DUE TO PROJECT

<u>Area</u>	<u>AAHUs</u>
Brackish Marsh	65.01

**TOTAL BENEFITS = 65 AAHUS**

# WETLAND VALUE ASSESSMENT COMMUNITY MODEL

## Brackish Marsh

Project: **New Orleans Landbridge Shoreline Stabilization & Marsh Creation**

Project Area: **192**

Condition: Future Without Project

Variable		TY	0	TY	1	TY	20
		Value	SI	Value	SI	Value	SI
V1	% Emergent	45	0.51	45	0.51	42	0.48
V2	% Aquatic	50	0.55	50	0.55	50	0.55
V3	Interspersion	%		%		%	
	Class 1	0	0.31	0	0.31	0	0.31
	Class 2	0		0		0	
	Class 3	56		56		56	
	Class 4	44		44		44	
	Class 5	0		0		0	
V4	%OW <= 1.5ft	72	1.00	72	1.00	61	0.88
V5	Salinity (ppt)	6	1.00	6	1.00	6	1.00
V6	Access Value	1.0000	1.00	1.0000	1.00	1.0000	1.00
		<b>Emergent Marsh HSI =</b>	<b>0.61</b>	<b>EM HSI =</b>	<b>0.61</b>	<b>EM HSI =</b>	<b>0.59</b>
		<b>Open Water HSI =</b>	<b>0.71</b>	<b>OW HSI =</b>	<b>0.71</b>	<b>OW HSI =</b>	<b>0.71</b>

Project: **New Orleans Landbridge Shoreline Stabilization & Marsh Creation**

Project Area: **192**

FWOP

Variable		TY		TY		TY	
		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
V6	Access Value						
		<b>EM HSI =</b>		<b>EM HSI =</b>		<b>EM HSI =</b>	
		<b>OW HSI =</b>		<b>OW HSI =</b>		<b>OW HSI =</b>	

FWOP

Variable		TY		TY		TY	
		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
V6	Access Value						
		EM HSI =		EM HSI =		EM HSI =	
		OW HSI =		OW HSI =		OW HSI =	

## WETLAND VALUE ASSESSMENT COMMUNITY MODEL Brackish Marsh

Condition: Future With Project

Variable		TY 0		TY 1		TY 3	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	45	0.51	32	0.39	99	0.99
V2	% Aquatic	50	0.55	0	0.10	25	0.33
V3	Interspersion	%		%		%	
	Class 1	0	0.31	0	0.10	0	0.40
	Class 2	0		0		0	
	Class 3	56		0		100	
	Class 4	44		0		0	
V4	%OW <= 1.5ft	72	1.00	100	0.60	100	0.60
V5	Salinity (ppt)	6	1.00	6	1.00	6	1.00
V6	Access Value	1.0000	1.00	0.0001	0.10	1.0000	1.00
		Emergent Marsh HSI = 0.61		EM HSI = 0.34		EM HSI = 0.93	
		Open Water HSI = 0.71		OW HSI = 0.20		OW HSI = 0.54	

FWP

Variable		TY 5		TY 20		TY	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	99	0.99	97	0.97		
V2	% Aquatic	50	0.55	75	0.78		
V3	Interspersion	%		%		%	
	Class 1	100	1.00	100	1.00		
	Class 2	0		0			
	Class 3	0		0			
	Class 4	0		0			
	Class 5	0		0			
V4	%OW <= 1.5ft	100	0.60	90	0.80		
V5	Salinity (ppt)	6	1.00	6	1.00		
V6	Access Value	1.0000	1.00	1.0000	1.00		
		<b>EM HSI =</b>	<b>0.99</b>	<b>EM HSI =</b>	<b>0.98</b>	<b>EM HSI =</b>	
		<b>OW HSI =</b>	<b>0.74</b>	<b>OW HSI =</b>	<b>0.87</b>	<b>OW HSI =</b>	

FWP

Variable		TY		TY		TY	
		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
V6	Access Value						
		<b>EM HSI =</b>		<b>EM HSI =</b>		<b>EM HSI =</b>	
		<b>OW HSI =</b>		<b>OW HSI =</b>		<b>OW HSI =</b>	

## AAHU CALCULATION - EMERGENT MARSH

**Project:** New Orleans Landbridge Shoreline Stabilization & Marsh Creation

Future Without Project			Total HUs	Cummulative HUs
TY	Marsh Acres	x HSI		
0	87	0.61	52.69	
1	86	0.61	52.08	52.39
20	81	0.59	47.51	945.89
<b>Max TY= 20</b>			<b>AAHUs =</b>	<b>49.91</b>

Future With Project			Total HUs	Cummulative HUs
TY	Marsh Acres	x HSI		
0	87	0.61	52.69	
1	62	0.34	21.26	35.88
3	191	0.93	177.24	173.35
5	190	0.99	188.98	366.24
20	185	0.98	182.00	2782.20
<b>Max TY= 20</b>			<b>AAHUs</b>	<b>167.88</b>

NET CHANGE IN AAHUs DUE TO PROJECT		
A. Future With Project Emergent Marsh AAHUs	=	167.88
B. Future Without Project Emergent Marsh AAHUs	=	49.91
<b>Net Change (FWP - FWOP) =</b>		<b>117.97</b>



# WETLAND VALUE ASSESSMENT

## Benefits Summary Sheet

**Project: Caminada Headlands Back Barrier Marsh Restoration**

### TOTAL BENEFITS IN AAHUs DUE TO PROJECT

<u>Area</u>	<u>AAHUs</u>
Saline Marsh	143.55

**TOTAL BENEFITS = 144 AAHUS**

# WETLAND VALUE ASSESSMENT COMMUNITY MODEL

## Saline Marsh

Project: **Caminada Headlands Back Barrier Marsh Restoration**

Project Area: **430**

Condition: Future Without Project

Variable		TY 0		TY 1		TY 5	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	30	0.37	29	0.36	28	0.35
V2	% Aquatic	0	0.30	0	0.30	0	0.30
V3	Interspersion	%		%		%	
	Class 1	0	0.25	0	0.25	0	0.25
	Class 2	0		0		0	
	Class 3	27		27		25	
	Class 4	73		73		75	
	Class 5	0		0		0	
V4	%OW <= 1.5ft	12	0.25	11	0.24	9	0.22
V5	Salinity (ppt)	22	0.93	22	0.93	22	0.93
V6	Access Value	1.0000	1.00	1.0000	1.00	1.0000	1.00
<b>Emergent Marsh HSI =</b>		<b>0.50</b>		<b>EM HSI =</b>	<b>0.49</b>	<b>EM HSI =</b>	<b>0.49</b>
<b>Open Water HSI =</b>		<b>0.66</b>		<b>OW HSI =</b>	<b>0.66</b>	<b>OW HSI =</b>	<b>0.65</b>

Project: **Caminada Headlands Back Barrier Marsh Restoration**

Project Area: **430**

FWOP

Variable		TY 10		TY 20		TY	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	27	0.34	24	0.32		
V2	% Aquatic	0	0.30	0	0.30		
V3	Interspersion	%		%		%	
	Class 1	0	0.24	0	0.22		
	Class 2	0		0			
	Class 3	20		10			
	Class 4	80		90			
	Class 5	0		0			
V4	%OW <= 1.5ft	5	0.16	2	0.13		
V5	Salinity (ppt)	22	0.93	22	0.93		
V6	Access Value	1.0000	1.00	1.0000	1.00		
<b>EM HSI =</b>		<b>0.48</b>		<b>EM HSI =</b>	<b>0.46</b>	<b>EM HSI =</b>	
<b>OW HSI =</b>		<b>0.65</b>		<b>OW HSI =</b>	<b>0.65</b>	<b>OW HSI =</b>	

Project: Caminada Headlands Back Barrier Marsh Restoration

Project Area: 430

FWOP

Variable		TY		TY		TY	
		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
V6	Access Value						
		EM HSI =		EM HSI =		EM HSI =	
		OW HSI =		OW HSI =		OW HSI =	

## WETLAND VALUE ASSESSMENT COMMUNITY MODEL Saline Marsh

Project: Caminada Headlands Back Barrier Marsh Restoration

Project Area: 430

Condition: Future With Project

Variable		TY 0		TY 1		TY 3	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	30	0.37	17	0.25	50	0.55
V2	% Aquatic	0	0.30	0	0.30	0	0.30
V3	Interspersion	%		%		%	
	Class 1	0	0.25	0	0.10	0	0.40
	Class 2	0		0		0	
	Class 3	27		0		100	
	Class 4	73		0		0	
	Class 5	0		100		0	
V4	%OW <= 1.5ft	12	0.25	100	0.50	100	0.50
V5	Salinity (ppt)	22	0.93	22	0.93	22	0.93
V6	Access Value	1.0000	1.00	0.0001	0.10	1.0000	1.00
		Emergent Marsh HSI = 0.50		EM HSI = 0.27		EM HSI = 0.64	
		Open Water HSI = 0.66		OW HSI = 0.22		OW HSI = 0.69	

Project: Caminada Headlands Back Barrier Marsh Restoration

Project Area: 430

FWP

Variable		TY 5		TY 10		TY 20	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	99	0.99	97	0.97	94	0.95
V2	% Aquatic	0	0.30	0	0.30	0	0.30
V3	Interspersion	%		%		%	
	Class 1	100	1.00	100	1.00	100	1.00
	Class 2	0		0		0	
	Class 3	0		0		0	
	Class 4	0		0		0	
V4	%OW <= 1.5ft	100	0.50	90	0.75	90	0.75
V5	Salinity (ppt)	22	0.93	22	0.93	22	0.93
V6	Access Value	1.0000	1.00	1.0000	1.00	1.0000	1.00
		EM HSI = 0.99		EM HSI = 0.98		EM HSI = 0.96	
		OW HSI = 0.73		OW HSI = 0.75		OW HSI = 0.75	

Project: Caminada Headlands Back Barrier Marsh Restoration

Project Area: 430

FWP

Variable		TY		TY		TY	
		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
V6	Access Value						
		EM HSI =		EM HSI =		EM HSI =	
		OW HSI =		OW HSI =		OW HSI =	

## AAHU CALCULATION - EMERGENT MARSH

**Project:** Caminada Headlands Back Barrier Marsh Restoration

Future Without Project			Total HUs	Cummulative HUs
TY	Marsh Acres	x HSI		
0	127	0.50	63.51	
1	125	0.49	61.67	62.59
5	116	0.49	56.39	236.07
10	101	0.48	48.29	261.60
20	62	0.46	28.22	381.07
<b>Max= 20</b>			<b>AAHUs =</b>	<b>47.07</b>

Future With Project			Total HUs	Cummulative HUs
TY	Marsh Acres	x HSI		
0	127	0.50	63.51	
1	75	0.27	20.25	39.89
3	208	0.64	133.97	137.64
5	407	0.99	401.51	512.77
10	369	0.98	360.13	1903.79
20	243	0.96	233.29	2963.80
<b>Max= 20</b>			<b>AAHUs</b>	<b>277.89</b>

NET CHANGE IN AAHUs DUE TO PROJECT	
A. Future With Project Emergent Marsh AAHUs =	277.89
B. Future Without Project Emergent Marsh AAHUs =	47.07
<b>Net Change (FWP - FWOP) =</b>	<b>230.83</b>

## AAHU CALCULATION - OPEN WATER

**Project:** Caminada Headlands Back Barrier Marsh Restoration

Future Without Project			Total HUs	Cummulative HUs
TY	Water Acres	x HSI		
0	303	0.66	199.26	
1	302	0.66	198.32	198.79
5	297	0.65	194.38	785.40
10	279	0.65	181.33	939.22
20	198	0.65	127.83	1545.21
<b>Max= 20</b>			<b>AAHUs =</b>	<b>173.43</b>

Future With Project			Total HUs	Cummulative HUs
TY	Water Acres	x HSI		
0	303	0.66	199.26	
1	2	0.22	0.44	77.88
3	4	0.69	2.75	2.87
5	6	0.73	4.39	7.10
10	12	0.75	9.00	33.36
20	17	0.75	12.74	108.69
<b>Max= 20</b>			<b>AAHUs</b>	<b>11.50</b>

NET CHANGE IN AAHUs DUE TO PROJECT		
A. Future With Project Open Water AAHUs	=	11.50
B. Future Without Project Open Water AAHUs	=	173.43
<b>Net Change (FWP - FWOP)</b>	<b>=</b>	<b>-161.94</b>

TOTAL BENEFITS IN AAHUs DUE TO PROJECT		
A. Emergent Marsh Habitat Net AAHUs	=	230.83
B. Open Water Habitat Net AAHUs	=	-161.94
<b>Net Benefits= (3.5xEMAAHUs+OWAAHUs)/4.5</b>	<b>=</b>	<b>143.55</b>

# WETLAND VALUE ASSESSMENT

## Benefits Summary Sheet

**Project: Wilkinson Canal Marsh Creation and Nourishment**

### TOTAL BENEFITS IN AAHUs DUE TO PROJECT

<u>Area</u>	<u>AAHUs</u>
Brackish Marsh	222.65

<b>TOTAL BENEFITS = 223 AAHUS</b>
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## WETLAND VALUE ASSESSMENT COMMUNITY MODEL Brackish Marsh

Project: **Wilkinson Canal Marsh Creation and Nourishment**

Project Area: **484**

Condition: Future Without Project

Variable		TY 0		TY 1		TY 20	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	10	0.19	10	0.19	8	0.17
V2	% Aquatic	2	0.12	2	0.12	2	0.12
V3	Interspersion	%		%		%	
	Class 1	0	0.10	0	0.10	0	0.10
	Class 2	0		0		0	
	Class 3	0		0		0	
	Class 4	0		0		0	
	Class 5	100		100		100	
V4	%OW <= 1.5ft	10	0.23	10	0.23	10	0.23
V5	Salinity (ppt)	5.9	1.00	5.9	1.00	5.9	1.00
V6	Access Value	1.0000	1.00	1.0000	1.00	1.0000	1.00
		<b>Emergent Marsh HSI = 0.34</b>		<b>EM HSI = 0.34</b>		<b>EM HSI = 0.32</b>	
		<b>Open Water HSI = 0.31</b>		<b>OW HSI = 0.31</b>		<b>OW HSI = 0.31</b>	

Project: **Wilkinson Canal Marsh Creation and Nourishment**

Project Area: **484**

FWOP

Variable		TY		TY		TY	
		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
V6	Access Value						
		<b>EM HSI =</b>		<b>EM HSI =</b>		<b>EM HSI =</b>	
		<b>OW HSI =</b>		<b>OW HSI =</b>		<b>OW HSI =</b>	

FWOP

Variable		TY		TY		TY	
		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
V6	Access Value						
		EM HSI =		EM HSI =		EM HSI =	
		OW HSI =		OW HSI =		OW HSI =	

## WETLAND VALUE ASSESSMENT COMMUNITY MODEL Brackish Marsh

Condition: Future With Project

Variable		TY 0		TY 1		TY 3	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	10	0.19	21	0.29	54	0.59
V2	% Aquatic	2	0.12	0	0.10	10	0.19
V3	Interspersion	%		%		%	
	Class 1	0	0.10	0	0.10	0	0.40
	Class 2	0		0		0	
	Class 3	0		0		100	
	Class 4	0		0		0	
	Class 5	100		100		0	
V4	%OW <= 1.5ft	10	0.23	100	0.60	100	0.60
V5	Salinity (ppt)	5.9	1.00	5.9	1.00	5.9	1.00
V6	Access Value	1.0000	1.00	0.0001	0.10	1.0000	1.00
		Emergent Marsh HSI = 0.34		EM HSI = 0.30		EM HSI = 0.67	
		Open Water HSI = 0.31		OW HSI = 0.20		OW HSI = 0.44	

FWP

Variable		TY 5		TY 20		TY	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	97	0.97	90	0.91		
V2	% Aquatic	20	0.28	20	0.28		
V3	Interspersion	%		%		%	
	Class 1	100	1.00	100	1.00		
	Class 2	0		0			
	Class 3	0		0			
	Class 4	0		0			
	Class 5	0		0			
V4	%OW <= 1.5ft	100	0.60	90	0.80		
V5	Salinity (ppt)	5.9	1.00	5.9	1.00		
V6	Access Value	1.0000	1.00	1.0000	1.00		
		EM HSI = 0.98		EM HSI = 0.95		EM HSI =	
		OW HSI = 0.55		OW HSI = 0.57		OW HSI =	

FWP

Variable		TY		TY		TY	
		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
V6	Access Value						
		EM HSI =		EM HSI =		EM HSI =	
		OW HSI =		OW HSI =		OW HSI =	

## AAHU CALCULATION - EMERGENT MARSH

**Project:** Wilkinson Canal Marsh Creation and Nourishment

Future Without Project			Total HUs	Cummulative HUs
TY	Marsh Acres	x HSI		
0	49	0.34	16.61	
1	49	0.34	16.61	16.61
20	41	0.32	13.24	283.23
<b>Max TY= 20</b>			<b>AAHUs =</b>	<b>14.99</b>

Future With Project			Total HUs	Cummulative HUs
TY	Marsh Acres	x HSI		
0	49	0.34	16.61	
1	100	0.30	29.82	23.56
3	263	0.67	176.51	186.07
5	472	0.98	464.35	619.09
20	436	0.95	412.27	6571.22
<b>Max TY= 20</b>			<b>AAHUs</b>	<b>370.00</b>

NET CHANGE IN AAHUs DUE TO PROJECT		
A. Future With Project Emergent Marsh AAHUs	=	370.00
B. Future Without Project Emergent Marsh AAHUs	=	14.99
<b>Net Change (FWP - FWOP)</b>	<b>=</b>	<b>355.00</b>

## AAHU CALCULATION - OPEN WATER

**Project:** Wilkinson Canal Marsh Creation and Nourishment

Future Without Project			Total HUs	Cummulative HUs
TY	Water Acres	x HSI		
0	435	0.31	136.67	
1	435	0.31	136.67	136.67
20	443	0.31	139.18	2620.59
<b>Max TY= 20</b>			<b>AAHUs =</b>	<b>137.86</b>

Future With Project			Total HUs	Cummulative HUs
TY	Water Acres	x HSI		
0	435	0.31	136.67	
1	3	0.20	0.61	60.69
3	8	0.44	3.48	3.71
5	12	0.55	6.66	9.98
20	48	0.57	27.35	253.73
<b>Max TY= 20</b>			<b>AAHUs</b>	<b>16.41</b>

NET CHANGE IN AAHUs DUE TO PROJECT		
A. Future With Project Open Water AAHUs	=	16.41
B. Future Without Project Open Water AAHUs	=	137.86
<b>Net Change (FWP - FWOP) =</b>		<b>-121.46</b>

TOTAL BENEFITS IN AAHUs DUE TO PROJECT		
A. Emergent Marsh Habitat Net AAHUs	=	355.00
B. Open Water Habitat Net AAHUs	=	-121.46
<b>Net Benefits= (2.6xEMAAHUs+OWAAHUs)/3.6</b>		<b>222.65</b>

# WETLAND VALUE ASSESSMENT

## Benefits Summary Sheet

**Project: Bayou Grande Cheniere Marsh and Ridge Restoration**

### TOTAL BENEFITS IN AAHUs DUE TO PROJECT

$\frac{\text{Area}}{\text{Brackish Marsh}}$	$\frac{\text{AAHUs}}{138.38}$
$\frac{\text{Area}}{\text{Coastal Chenier/Ridge}}$	$\frac{\text{AAHUs}}{8.06}$

**TOTAL BENEFITS = 146 AAHUS**

# WETLAND VALUE ASSESSMENT COMMUNITY MODEL

## Brackish Marsh

Project: **Bayou Grande Cheniere Marsh and Ridge Restoration**

Project Area: **354**

Condition: Future Without Project

Variable		TY 0		TY 1		TY 20	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	18	0.26	18	0.26	15	0.24
V2	% Aquatic	11	0.20	11	0.20	11	0.20
V3	Interspersion	%		%		%	
	Class 1	0	0.20	0	0.20	0	0.20
	Class 2	0		0		0	
	Class 3	0		0		0	
	Class 4	100		100		100	
	Class 5	0		0		0	
V4	%OW <= 1.5ft	9	0.22	9	0.22	5	0.16
V5	Salinity (ppt)	7.9	1.00	7.9	1.00	7.9	1.00
V6	Access Value	1.0000	1.00	1.0000	1.00	1.0000	1.00
		<b>Emergent Marsh HSI = 0.41</b>		<b>EM HSI = 0.41</b>		<b>EM HSI = 0.39</b>	
		<b>Open Water HSI = 0.40</b>		<b>OW HSI = 0.40</b>		<b>OW HSI = 0.40</b>	

Project: **Bayou Grande Cheniere Marsh and Ridge Restoration**

Project Area: **354**

FWOP

Variable		TY		TY		TY	
		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
V6	Access Value						
		<b>EM HSI =</b>		<b>EM HSI =</b>		<b>EM HSI =</b>	
		<b>OW HSI =</b>		<b>OW HSI =</b>		<b>OW HSI =</b>	

FWOP

Variable		TY		TY		TY	
		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
V6	Access Value						
		EM HSI =		EM HSI =		EM HSI =	
		OW HSI =		OW HSI =		OW HSI =	

### WETLAND VALUE ASSESSMENT COMMUNITY MODEL Brackish Marsh

Condition: Future With Project

Variable		TY 0		TY 1		TY 3	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	18	0.26	16	0.24	44	0.50
V2	% Aquatic	11	0.20	0	0.10	10	0.19
V3	Interspersion	%		%		%	
	Class 1	0	0.20	0	0.10	0	0.40
	Class 2	0		0		0	
	Class 3	0		0		100	
	Class 4	100		0		0	
	Class 5	0		100		0	
V4	%OW <= 1.5ft	9	0.22	100	0.60	100	0.60
V5	Salinity (ppt)	7.9	1.00	7.9	1.00	7.9	1.00
V6	Access Value	1.0000	1.00	0.0001	0.10	1.0000	1.00
		Emergent Marsh HSI = 0.41		EM HSI = 0.28		EM HSI = 0.61	
		Open Water HSI = 0.40		OW HSI = 0.20		OW HSI = 0.44	

FWP

Variable		TY 5		TY 20		TY	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	97	0.97	89	0.90		
V2	% Aquatic	20	0.28	20	0.28		
V3	Interspersion	%		%		%	
	Class 1	100	1.00	100	1.00		
	Class 2	0		0			
	Class 3	0		0			
	Class 4	0		0			
	Class 5	0		0			
V4	%OW <= 1.5ft	100	0.60	90	0.80		
V5	Salinity (ppt)	7.9	1.00	7.9	1.00		
V6	Access Value	1.0000	1.00	1.0000	1.00		
		EM HSI = 0.98		EM HSI = 0.94		EM HSI =	
		OW HSI = 0.55		OW HSI = 0.57		OW HSI =	

FWP

Variable		TY		TY		TY	
		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
V6	Access Value						
		EM HSI =		EM HSI =		EM HSI =	
		OW HSI =		OW HSI =		OW HSI =	

## AAHU CALCULATION - EMERGENT MARSH

Project: Bayou Grande Cheniere Marsh and Ridge Restoration

Future Without Project			Total HUs	Cummulative HUs
TY	Marsh Acres	x HSI		
0	65	0.41	26.71	
1	64	0.41	26.30	26.50
20	52	0.39	20.21	440.98
<b>Max TY= 20</b>			<b>AAHUs =</b>	<b>23.37</b>

Future With Project			Total HUs	Cummulative HUs
TY	Marsh Acres	x HSI		
0	65	0.41	26.71	
1	55	0.28	15.22	20.74
3	152	0.61	92.58	97.06
5	332	0.98	326.62	396.72
20	304	0.94	285.78	4589.93
<b>Max TY= 20</b>			<b>AAHUs</b>	<b>255.22</b>

NET CHANGE IN AAHUs DUE TO PROJECT		
A. Future With Project Emergent Marsh AAHUs	=	255.22
B. Future Without Project Emergent Marsh AAHUs	=	23.37
<b>Net Change (FWP - FWOP) =</b>		<b>231.85</b>

## AAHU CALCULATION - OPEN WATER

Project: Bayou Grande Cheniere Marsh and Ridge Restoration

Future Without Project			Total HUs	Cummulative HUs
TY	Water Acres	x HSI		
0	289	0.40	115.63	
1	290	0.40	116.03	115.83
20	302	0.40	119.68	2239.40
<b>Max TY=</b>	<b>20</b>		<b>AAHUs =</b>	<b>117.76</b>

Future With Project			Total HUs	Cummulative HUs
TY	Water Acres	x HSI		
0	289	0.40	115.63	
1	2	0.20	0.41	48.63
3	6	0.44	2.61	2.71
5	10	0.55	5.55	8.00
20	38	0.57	21.65	202.97
<b>Max TY=</b>	<b>20</b>		<b>AAHUs</b>	<b>13.12</b>

NET CHANGE IN AAHUs DUE TO PROJECT		
A. Future With Project Open Water AAHUs	=	13.12
B. Future Without Project Open Water AAHUs	=	117.76
<b>Net Change (FWP - FWOP) =</b>		<b>-104.65</b>

TOTAL BENEFITS IN AAHUs DUE TO PROJECT		
A. Emergent Marsh Habitat Net AAHUs	=	231.85
B. Open Water Habitat Net AAHUs	=	-104.65
<b>Net Benefits= (2.6xEMAAHUs+OWAAHUs)/3.6</b>		<b>138.38</b>

## WETLAND VALUE ASSESSMENT COMMUNITY MODEL Coastal Chenier/Ridge

Project: **Bayou Grande Cheniere Marsh and Ridge Restoration**

Project Area: **12**

Condition: Future Without Project

Variable		TY 0		TY 1		TY 20	
		Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Canopy Cover (%)	0	0.10	0	0.10	0	0.10
V2	Shrub/Midstory Cover (%)	0	0.10	0	0.10	0	0.10
V3	Species Diversity	0	0.10	0	0.10	0	0.10
		<b>HSI =</b>	<b>0.10</b>	<b>HSI =</b>	<b>0.10</b>	<b>HSI =</b>	<b>0.10</b>

Project: **Bayou Grande Cheniere Marsh and Ridge Restoration**

Project Area: **12**

FWOP

Variable		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Canopy Cover (%)						
V2	Shrub/Midstory Cover (%)						
V3	Species Diversity						
		<b>HSI =</b>		<b>HSI =</b>		<b>HSI =</b>	

Project: **Bayou Grande Cheniere Marsh and Ridge Restoration**

Project Area: **12**

FWOP

Variable		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Canopy Cover (%)						
V2	Shrub/Midstory Cover (%)						
V3	Species Diversity						
		<b>HSI =</b>		<b>HSI =</b>		<b>HSI =</b>	

## WETLAND VALUE ASSESSMENT COMMUNITY MODEL Coastal Chenier/Ridge

Project: Bayou Grande Cheniere Marsh and Ridge Restoration      Project Area: 12

Condition: Future With Project

Variable		TY 0		TY 1		TY 2	
		Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Canopy Cover (%)	0	0.10	0	0.10	0	0.10
V2	Shrub/Midstory Cover (%)	0	0.10	0	0.10	10	0.36
V3	Species Diversity	0	0.10	0	0.10	6	0.80
		<b>HSI =</b>	<b>0.10</b>	<b>HSI =</b>	<b>0.10</b>	<b>HSI =</b>	<b>0.31</b>

Project: Bayou Grande Cheniere Marsh and Ridge Restoration      Project Area: 12

FWP

Variable		TY 5		TY 10		TY 15	
		Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Canopy Cover (%)	5	0.17	25	0.45	40	0.66
V2	Shrub/Midstory Cover (%)	35	1.00	50	1.00	50	1.00
V3	Species Diversity	10	1.00	10	1.00	10	1.00
		<b>HSI =</b>	<b>0.55</b>	<b>HSI =</b>	<b>0.77</b>	<b>HSI =</b>	<b>0.87</b>

Project: Bayou Grande Cheniere Marsh and Ridge Restoration      Project Area: 12

FWP

Variable		TY 20		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Canopy Cover (%)	50	0.80				
V2	Shrub/Midstory Cover (%)	50	1.00				
V3	Species Diversity	10	1.00				
		<b>HSI =</b>	<b>0.93</b>	<b>HSI =</b>		<b>HSI =</b>	



# WETLAND VALUE ASSESSMENT

## Benefits Summary Sheet

**Project: Island Road Marsh Creation and Nourishment**

### TOTAL BENEFITS IN AAHUs DUE TO PROJECT

<u>Area</u>	<u>AAHUs</u>
Saline Marsh	166.36

<b>TOTAL BENEFITS = 166 AAHUS</b>
-----------------------------------

# WETLAND VALUE ASSESSMENT COMMUNITY MODEL

## Saline Marsh

Project: **Island Road Marsh Creation and Nourishment**

Project Area: **383**

Condition: Future Without Project

Variable		TY 0		TY 1		TY 20	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	5	0.15	5	0.15	4	0.14
V2	% Aquatic	0	0.30	0	0.30	0	0.30
V3	Interspersion	%		%		%	
	Class 1	0	0.10	0	0.10	0	0.10
	Class 2	0		0		0	
	Class 3	0		0		0	
	Class 4	0		0		0	
	Class 5	100		100		100	
V4	%OW <= 1.5ft	1	0.11	1	0.11	1	0.11
V5	Salinity (ppt)	14	1.00	14	1.00	14	1.00
V6	Access Value	1.0000	1.00	1.0000	1.00	1.0000	1.00
		<b>Emergent Marsh HSI = 0.30</b>		<b>EM HSI = 0.30</b>		<b>EM HSI = 0.30</b>	
		<b>Open Water HSI = 0.64</b>		<b>OW HSI = 0.64</b>		<b>OW HSI = 0.64</b>	

Project: **Island Road Marsh Creation and Nourishment**

Project Area: **383**

FWOP

Variable		TY		TY		TY	
		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
V6	Access Value						
		<b>EM HSI =</b>		<b>EM HSI =</b>		<b>EM HSI =</b>	
		<b>OW HSI =</b>		<b>OW HSI =</b>		<b>OW HSI =</b>	

Project: **Island Road Marsh Creation and Nourishment**

Project Area: **383**

FWOP

Variable		TY		TY		TY	
		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
V6	Access Value						
		EM HSI =		EM HSI =		EM HSI =	
		OW HSI =		OW HSI =		OW HSI =	

## WETLAND VALUE ASSESSMENT COMMUNITY MODEL Saline Marsh

Project: **Island Road Marsh Creation and Nourishment**

Project Area: **383**

Condition: Future With Project

Variable		TY 0		TY 1		TY 3	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	5	0.15	19	0.27	51	0.56
V2	% Aquatic	0	0.30	0	0.30	5	0.34
V3	Interspersion	%		%		%	
	Class 1	0	0.10	0	0.10	0	0.40
	Class 2	0		0		0	
	Class 3	0		0		100	
	Class 4	0		0		0	
	Class 5	100		100		0	
V4	%OW <= 1.5ft	1	0.11	100	0.50	100	0.50
V5	Salinity (ppt)	14	1.00	14	1.00	14	1.00
V6	Access Value	1.0000	1.00	0.0001	0.10	1.0000	1.00
		Emergent Marsh HSI = 0.30		EM HSI = 0.29		EM HSI = 0.66	
		Open Water HSI = 0.64		OW HSI = 0.23		OW HSI = 0.71	

Project: Island Road Marsh Creation and Nourishment

Project Area: 383

FWP

Variable		TY 5		TY 20		TY	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	96	0.96	85	0.87		
V2	% Aquatic	10	0.37	10	0.37		
V3	Interspersion	%		%		%	
	Class 1	100	1.00	100	1.00		
	Class 2	0		0			
	Class 3	0		0			
	Class 4	0		0			
	Class 5	0		0			
V4	%OW <= 1.5ft	100	0.50	80	1.00		
V5	Salinity (ppt)	14	1.00	14	1.00		
V6	Access Value	1.0000	1.00	1.0000	1.00		
		EM HSI = 0.98		EM HSI = 0.92		EM HSI =	
		OW HSI = 0.77		OW HSI = 0.81		OW HSI =	

Project: Island Road Marsh Creation and Nourishment

Project Area: 383

FWP

Variable		TY		TY		TY	
		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
V6	Access Value						
		EM HSI =		EM HSI =		EM HSI =	
		OW HSI =		OW HSI =		OW HSI =	





# WETLAND VALUE ASSESSMENT

## Benefits Summary Sheet

**Project: Grand Bayou Freshwater Enhancement**

### TOTAL BENEFITS IN AAHUs DUE TO PROJECT

$\frac{\text{Area}}{\text{Area 1 West Brackish Marsh}}$	$\frac{\text{AAHUs}}{87.97}$
$\frac{\text{Area}}{\text{Area 1 West Fresh Marsh}}$	$\frac{\text{AAHUs}}{9.83}$
$\frac{\text{Area}}{\text{Area 1 West Intermediate Marsh}}$	$\frac{\text{AAHUs}}{43.94}$
$\frac{\text{Area}}{\text{Area 2 East Brackish Marsh}}$	$\frac{\text{AAHUs}}{281.54}$
$\frac{\text{Area}}{\text{Area 2 East Intermediate Marsh}}$	$\frac{\text{AAHUs}}{128.35}$
$\frac{\text{Area}}{\text{Marsh Creation Area}}$	$\frac{\text{AAHUs}}{33.57}$

<b>TOTAL BENEFITS = 585 AAHUS</b>
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# WETLAND VALUE ASSESSMENT COMMUNITY MODEL

## Brackish Marsh

Project: **Grand Bayou Freshwater Enhancement**

Project Area: **5,163**

Area 1 - West - Brackish

Condition: Future Without Project

Variable		TY 0		TY 1		TY 20	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	35	0.42	35	0.42	32	0.39
V2	% Aquatic	35	0.42	35	0.42	35	0.42
V3	Interspersion	%		%		%	
	Class 1	0	0.30	0	0.30	0	0.30
	Class 2	0		0		0	
	Class 3	50		50		50	
	Class 4	50		50		50	
	Class 5	0		0		0	
V4	%OW <= 1.5ft	10	0.23	10	0.23	5	0.16
V5	Salinity (ppt)	7	1.00	7	1.00	7	1.00
V6	Access Value	0.2700	0.34	0.2700	0.34	0.2700	0.34
		<b>Emergent Marsh HSI = 0.45</b>		<b>EM HSI = 0.45</b>		<b>EM HSI = 0.44</b>	
		<b>Open Water HSI = 0.41</b>		<b>OW HSI = 0.41</b>		<b>OW HSI = 0.41</b>	

Project: **Grand Bayou Freshwater Enhancement**

Project Area: **5163**

FWOP

Variable		TY		TY		TY	
		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
V6	Access Value						
		<b>EM HSI =</b>		<b>EM HSI =</b>		<b>EM HSI =</b>	
		<b>OW HSI =</b>		<b>OW HSI =</b>		<b>OW HSI =</b>	

FWOP

Variable		TY		TY		TY	
		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
V6	Access Value						
		<b>EM HSI =</b>		<b>EM HSI =</b>		<b>EM HSI =</b>	
		<b>OW HSI =</b>		<b>OW HSI =</b>		<b>OW HSI =</b>	

## WETLAND VALUE ASSESSMENT COMMUNITY MODEL Brackish Marsh

Area 1 - West - Brackish

Condition: Future With Project

Variable		TY 0		TY 1		TY 20	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	35	0.42	35	0.42	34	0.41
V2	% Aquatic	35	0.42	50	0.55	50	0.55
V3	Interspersion	%		%		%	
	Class 1	0	0.30	0	0.30	0	0.30
	Class 2	0		0		0	
	Class 3	50		50		50	
	Class 4	50		50		50	
	Class 5	0		0		0	
V4	%OW <= 1.5ft	10	0.23	10	0.23	6	0.18
V5	Salinity (ppt)	7	1.00	5.3	1.00	5.3	1.00
V6	Access Value	0.2700	0.34	0.3100	0.38	0.3100	0.38
		<b>Emergent Marsh HSI = 0.45</b>		<b>EM HSI = 0.46</b>		<b>EM HSI = 0.46</b>	
		<b>Open Water HSI = 0.41</b>		<b>OW HSI = 0.48</b>		<b>OW HSI = 0.48</b>	

FWP

Variable		TY		TY		TY	
		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
V6	Access Value						
		EM HSI =		EM HSI =		EM HSI =	
		OW HSI =		OW HSI =		OW HSI =	

FWP

Variable		TY		TY		TY	
		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
V6	Access Value						
		EM HSI =		EM HSI =		EM HSI =	
		OW HSI =		OW HSI =		OW HSI =	





## WETLAND VALUE ASSESSMENT COMMUNITY MODEL

### Fresh/Intermediate Marsh

Project: <b>Grand Bayou Freshwater Enhancement</b>	Project Area: 631
Area 1 - West - Fresh	% Fresh: 100
Condition: Future Without Project	% Intermediate: 0

Variable		TY 0		TY 1		TY 20	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	71	0.74	71	0.74	65	0.69
V2	% Aquatic	80	0.82	80	0.82	80	0.82
V3	Interspersion	%		%		%	
	Class 1	50	0.70	50	0.70	45	0.67
	Class 2	0		0		0	
	Class 3	50		50		55	
	Class 4	0		0		0	
	Class 5	0		0		0	
V4	%OW <= 1.5ft	98	0.68	98	0.68	98	0.68
V5	Salinity (ppt)						
	fresh	2	0.70	2	0.70	2	0.70
V6	Access Value						
	fresh	0.6600	0.76	0.6600	0.76	0.6600	0.76
		<b>Emergent Marsh HSI = 0.73</b>		<b>EM HSI = 0.73</b>		<b>EM HSI = 0.69</b>	
		<b>Open Water HSI = 0.78</b>		<b>OW HSI = 0.78</b>		<b>OW HSI = 0.78</b>	

Project: **Grand Bayou Freshwater Enhancement**

FWOP

Variable		TY		TY		TY	
		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
	fresh						
V6	Access Value						
	fresh						
		<b>EM HSI =</b>		<b>EM HSI =</b>		<b>EM HSI =</b>	
		<b>OW HSI =</b>		<b>OW HSI =</b>		<b>OW HSI =</b>	

Project: **Grand Bayou Freshwater Enhancement**

FWOP

Variable		TY		TY		TY	
		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
	fresh						
V6	Access Value						
	fresh						
	intermediate						
		<b>EM HSI =</b>		<b>EM HSI =</b>		<b>EM HSI =</b>	
		<b>OW HSI =</b>		<b>OW HSI =</b>		<b>OW HSI =</b>	

**WETLAND VALUE ASSESSMENT COMMUNITY MODEL**  
**Fresh/Intermediate Marsh**

Project: **Grand Bayou Freshwater Enhancement**

**Area 1 - West - Fresh**

Condition: Future With Project

Project Area:	631
% Fresh	100
% Intermediate	0

Variable		TY 0		TY 1		TY 20	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	71	0.74	71	0.74	68	0.71
V2	% Aquatic	80	0.82	85	0.87	85	0.87
V3	Interspersion	%		%		%	
	Class 1	50	0.70	50	0.70	50	0.70
	Class 2	0		0		0	
	Class 3	50		50		50	
	Class 4	0		0		0	
	Class 5	0		0		0	
V4	%OW <= 1.5ft	98	0.68	98	0.68	98	0.68
V5	Salinity (ppt)						
	fresh	2	0.70	1.5	0.80	1.5	0.80
V6	Access Value						
	fresh	0.6600	0.76	0.6400	0.75	0.6400	0.75
	intermediate						
		<b>Emergent Marsh HSI = 0.73</b>		<b>EM HSI = 0.74</b>		<b>EM HSI = 0.73</b>	
		<b>Open Water HSI = 0.78</b>		<b>OW HSI = 0.81</b>		<b>OW HSI = 0.81</b>	

Project: **Grand Bayou Freshwater Enhancement**

FWP

Variable		TY		TY		TY	
		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
	fresh						
V6	intermediate						
	Access Value						
	fresh						
	intermediate						
		EM HSI =		EM HSI =		EM HSI =	
		OW HSI =		OW HSI =		OW HSI =	

Project: **Grand Bayou Freshwater Enhancement**

FWP

Variable		TY		TY		TY	
		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
	fresh						
V6	intermediate						
	Access Value						
	fresh						
	intermediate						
		EM HSI =		EM HSI =		EM HSI =	
		OW HSI =		OW HSI =		OW HSI =	



## AAHU CALCULATION - OPEN WATER

Project: Grand Bayou Freshwater Enhancement  
Area 1 - West - Fresh

Future Without Project			Total HUs	Cummulative HUs
TY	Water Acres	x HSI		
0	182	0.78	142.01	
1	184	0.78	143.57	142.79
20	222	0.78	172.72	3005.05
<b>Max= 20</b>			<b>AAHUs = 157.39</b>	

Future With Project			Total HUs	Cummulative HUs
TY	Water Acres	x HSI		
0	182	0.78	142.01	
1	183	0.81	148.28	145.14
20	202	0.81	163.67	2963.51
<b>Max= 20</b>			<b>AAHUs 155.43</b>	

NET CHANGE IN AAHUs DUE TO PROJECT		
A. Future With Project Open Water AAHUs	=	155.43
B. Future Without Project Open Water AAHUs	=	157.39
<b>Net Change (FWP - FWOP) =</b>		<b>-1.96</b>

TOTAL BENEFITS IN AAHUs DUE TO PROJECT		
A. Emergent Marsh Habitat Net AAHUs	=	15.44
B. Open Water Habitat Net AAHUs	=	-1.96
<b>Net Benefits=(2.1xEMAAHUs+OWAAHUs)/3.1</b>		<b>9.83</b>

## WETLAND VALUE ASSESSMENT COMMUNITY MODEL Fresh/Intermediate Marsh

Project: **Grand Bayou Freshwater Enhancement**  
Area 1 - West - Intermediate

Project Area:	2,179
% Fresh	0
% Intermediate	100

Condition: Future Without Project

Variable		TY 0		TY 1		TY 20	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	65	0.69	65	0.69	59	0.63
V2	% Aquatic	80	0.82	80	0.82	80	0.82
V3	Interspersion	%		%		%	
	Class 1	50	0.70	50	0.70	45	0.67
	Class 2	0		0		0	
	Class 3	50		50		55	
	Class 4	0		0		0	
V4	%OW <= 1.5ft	98	0.68	98	0.68	98	0.68
	Salinity (ppt)						
V5	fresh		0.70		0.70		0.70
	intermediate	4		4		4	
V6	Access Value						
	fresh		0.73		0.73		0.73
	intermediate	0.6600		0.6600		0.6600	
<b>Emergent Marsh HSI =</b>		<b>0.69</b>		<b>EM HSI =</b>	<b>0.69</b>	<b>EM HSI =</b>	<b>0.65</b>
<b>Open Water HSI =</b>		<b>0.77</b>		<b>OW HSI =</b>	<b>0.77</b>	<b>OW HSI =</b>	<b>0.77</b>

Project: **Grand Bayou Freshwater Enhancement**

FWOP

Variable		TY		TY		TY	
		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
V4	%OW <= 1.5ft						
	Salinity (ppt)						
V5	fresh						
	intermediate						
V6	Access Value						
	fresh						
	intermediate						
<b>EM HSI =</b>				<b>EM HSI =</b>		<b>EM HSI =</b>	
<b>OW HSI =</b>				<b>OW HSI =</b>		<b>OW HSI =</b>	

Project: **Grand Bayou Freshwater Enhancement**

FWOP

Variable		TY		TY		TY	
		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
	fresh						
V6	Access Value						
	fresh						
	intermediate						
		<b>EM HSI =</b>		<b>EM HSI =</b>		<b>EM HSI =</b>	
		<b>OW HSI =</b>		<b>OW HSI =</b>		<b>OW HSI =</b>	

**WETLAND VALUE ASSESSMENT COMMUNITY MODEL**  
**Fresh/Intermediate Marsh**

Project: **Grand Bayou Freshwater Enhancement**

Area 1 - West - Intermediate

Condition: Future With Project

Project Area:	633
% Fresh	100
% Intermediate	0

Variable		TY 0		TY 1		TY 20	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	65	0.69	65	0.69	62	0.66
V2	% Aquatic	80	0.82	85	0.87	85	0.87
V3	Interspersion	%		%		%	
	Class 1	50	0.70	50	0.70	50	0.70
	Class 2	0		0		0	
	Class 3	50		50		50	
	Class 4	0		0		0	
V4	%OW <= 1.5ft	98	0.68	98	0.68	98	0.68
V5	Salinity (ppt)						
	fresh		0.70		0.90		0.90
V6	Access Value						
	fresh		0.73		0.71		0.71
	intermediate	0.66		0.6400		0.6400	
		<b>Emergent Marsh HSI = 0.69</b>		<b>EM HSI = 0.71</b>		<b>EM HSI = 0.70</b>	
		<b>Open Water HSI = 0.77</b>		<b>OW HSI = 0.81</b>		<b>OW HSI = 0.81</b>	

Project: **Grand Bayou Freshwater Enhancement**

FWP

Variable		TY		TY		TY	
		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
	fresh intermediate						
V6	Access Value						
	fresh intermediate						
		<b>EM HSI =</b>		<b>EM HSI =</b>		<b>EM HSI =</b>	
		<b>OW HSI =</b>		<b>OW HSI =</b>		<b>OW HSI =</b>	

Project: **Grand Bayou Freshwater Enhancement**

FWP

Variable		TY		TY		TY	
		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
	fresh intermediate						
V6	Access Value						
	fresh intermediate						
		<b>EM HSI =</b>		<b>EM HSI =</b>		<b>EM HSI =</b>	
		<b>OW HSI =</b>		<b>OW HSI =</b>		<b>OW HSI =</b>	

## AAHU CALCULATION - EMERGENT MARSH

Project: Grand Bayou Freshwater Enhancement

Area 1 - West - Intermediate

Future Without Project			Total HUs	Cummulative HUs
TY	Marsh Acres	x HSI		
0	1420	0.69	985.15	
1	1414	0.69	980.99	983.07
20	1293	0.65	846.70	17348.14
<b>Max=</b>			<b>AAHUs =</b>	<b>916.56</b>

Future With Project			Total HUs	Cummulative HUs
TY	Marsh Acres	x HSI		
0	1420	0.69	985.15	
1	1417	0.71	1011.74	998.45
20	1358	0.70	945.61	18591.52
<b>Max=</b>			<b>AAHUs</b>	<b>979.50</b>

NET CHANGE IN AAHUs DUE TO PROJECT	
A. Future With Project Emergent Marsh AAHUs =	979.50
B. Future Without Project Emergent Marsh AAHUs =	916.56
<b>Net Change (FWP - FWOP) =</b>	<b>62.94</b>



# WETLAND VALUE ASSESSMENT COMMUNITY MODEL

## Brackish Marsh

Project: **Grand Bayou Freshwater Enhancement**

Project Area: **15,478**

Area 2 - East - Brackish

Condition: Future Without Project

Variable		TY 0		TY 1		TY 20	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	31	0.38	30	0.37	26	0.33
V2	% Aquatic	5	0.15	5	0.15	3	0.13
V3	Interspersion	%		%		%	
	Class 1	5	0.26	5	0.26	0	0.24
	Class 2	5		5		10	
	Class 3	0		0		0	
	Class 4	90		90		90	
	Class 5	0		0		0	
V4	%OW <= 1.5ft	5	0.16	5	0.16	4	0.15
V5	Salinity (ppt)	10	1.00	10	1.00	12	0.70
V6	Access Value	1.0000	1.00	1.0000	1.00	1.0000	1.00
		<b>Emergent Marsh HSI = 0.51</b>		<b>EM HSI = 0.50</b>		<b>EM HSI = 0.44</b>	
		<b>Open Water HSI = 0.35</b>		<b>OW HSI = 0.35</b>		<b>OW HSI = 0.31</b>	

Project: **Grand Bayou Freshwater Enhancement**

Project Area: **15478**

FWOP

Variable		TY		TY		TY	
		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
V6	Access Value						
		<b>EM HSI =</b>		<b>EM HSI =</b>		<b>EM HSI =</b>	
		<b>OW HSI =</b>		<b>OW HSI =</b>		<b>OW HSI =</b>	

Project: **Grand Bayou Freshwater Enhancement**

Project Area: 15478

FWOP

Variable		TY		TY		TY	
		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
V6	Access Value						
		<b>EM HSI =</b>		<b>EM HSI =</b>		<b>EM HSI =</b>	
		<b>OW HSI =</b>		<b>OW HSI =</b>		<b>OW HSI =</b>	

## WETLAND VALUE ASSESSMENT COMMUNITY MODEL Brackish Marsh

Project: **Grand Bayou Freshwater Enhancement**

Project Area: 15478

Area 2 - East - Brackish

Condition: Future With Project

Variable		TY 0		TY 1		TY 20	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	31	0.38	30	0.37	27	0.34
V2	% Aquatic	5	0.15	10	0.19	10	0.19
V3	Interspersion	%		%		%	
	Class 1	5	0.26	5	0.26	0	0.24
	Class 2	5		5		10	
	Class 3	0		0		0	
	Class 4	90		90		90	
	Class 5	0		0		0	
V4	%OW <= 1.5ft	5	0.16	5	0.16	4	0.15
V5	Salinity (ppt)	10	1.00	8	1.00	9.6	1.00
V6	Access Value	1.0000	1.00	1.0000	1.00	1.0000	1.00
		<b>Emergent Marsh HSI = 0.51</b>		<b>EM HSI = 0.50</b>		<b>EM HSI = 0.48</b>	
		<b>Open Water HSI = 0.35</b>		<b>OW HSI = 0.39</b>		<b>OW HSI = 0.39</b>	

Project: **Grand Bayou Freshwater Enhancement**

Project Area: 15478

FWP

Variable		TY		TY		TY	
		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
V6	Access Value						
		EM HSI =		EM HSI =		EM HSI =	
		OW HSI =		OW HSI =		OW HSI =	

Project: **Grand Bayou Freshwater Enhancement**

Project Area: 15478

FWP

Variable		TY		TY		TY	
		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
V6	Access Value						
		EM HSI =		EM HSI =		EM HSI =	
		OW HSI =		OW HSI =		OW HSI =	

## AAHU CALCULATION - EMERGENT MARSH

**Project:** Grand Bayou Freshwater Enhancement

Area 2 - East - Brackish

Future Without Project			Total HUs	Cummulative HUs
TY	Marsh Acres	x HSI		
0	4724	0.51	2403.33	
1	4683	0.50	2350.84	2377.04
20	3982	0.44	1748.22	38801.30
<b>Max TY= 20</b>			<b>AAHUs =</b>	<b>2058.92</b>

Future With Project			Total HUs	Cummulative HUs
TY	Marsh Acres	x HSI		
0	4724	0.51	2403.33	
1	4699	0.50	2358.88	2381.08
20	4250	0.48	2036.93	41727.82
<b>Max TY= 20</b>			<b>AAHUs</b>	<b>2205.45</b>

NET CHANGE IN AAHUs DUE TO PROJECT		
A. Future With Project Emergent Marsh AAHUs	=	2205.45
B. Future Without Project Emergent Marsh AAHUs	=	2058.92
<b>Net Change (FWP - FWOP) =</b>		<b>146.53</b>

## AAHU CALCULATION - OPEN WATER

**Project:** Grand Bayou Freshwater Enhancement

Area 2 - East - Brackish

Future Without Project			Total HUs	Cummulative HUs
TY	Water Acres	x HSI		
0	10754	0.35	3760.29	
1	10795	0.35	3774.63	3767.46
20	11496	0.31	3521.72	69411.47
<b>Max TY=</b>			<b>AAHUs =</b>	<b>3658.95</b>
<b>20</b>				

Future With Project			Total HUs	Cummulative HUs
TY	Water Acres	x HSI		
0	10754	0.35	3760.29	
1	10779	0.39	4232.41	3996.17
20	11228	0.39	4381.38	81834.41
<b>Max TY=</b>			<b>AAHUs</b>	<b>4291.53</b>
<b>20</b>				

NET CHANGE IN AAHUs DUE TO PROJECT		
A. Future With Project Open Water AAHUs	=	4291.53
B. Future Without Project Open Water AAHUs	=	3658.95
<b>Net Change (FWP - FWOP) =</b>		<b>632.58</b>

TOTAL BENEFITS IN AAHUs DUE TO PROJECT		
A. Emergent Marsh Habitat Net AAHUs	=	146.53
B. Open Water Habitat Net AAHUs	=	632.58
<b>Net Benefits= (2.6xEMAAHUs+OWAAHUs)/3.6</b>		<b>281.54</b>

## WETLAND VALUE ASSESSMENT COMMUNITY MODEL

### Fresh/Intermediate Marsh

Project: **Grand Bayou Freshwater Enhancement**

Area 2 - East - Intermediate

Condition: Future Without Project

Project Area:	2,956
% Fresh	0
% Intermediate	100

Variable		TY 0		TY 1		TY 20	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	72	0.75	72	0.75	61	0.65
V2	% Aquatic	40	0.46	40	0.46	35	0.42
V3	Interspersion	%		%		%	
	Class 1	70	0.85	70	0.85	68	0.84
	Class 2	15		15		15	
	Class 3	15		15		17	
	Class 4	0		0		0	
	Class 5	0		0		0	
V4	%OW <= 1.5ft	20	0.33	20	0.33	20	0.33
V5	Salinity (ppt)						
	fresh		0.30		0.30		0.10
	intermediate	6		6		7	
V6	Access Value						
	fresh		1.00		1.00		1.00
	intermediate	1.0000		1.0000		1.0000	
<b>Emergent Marsh HSI =</b>		<b>0.74</b>		<b>EM HSI =</b>	<b>0.74</b>	<b>EM HSI =</b>	<b>0.65</b>
<b>Open Water HSI =</b>		<b>0.54</b>		<b>OW HSI =</b>	<b>0.54</b>	<b>OW HSI =</b>	<b>0.50</b>

Project: **Grand Bayou Freshwater Enhancement**

FWOP

Variable		TY		TY		TY	
		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
	fresh						
	intermediate						
V6	Access Value						
	fresh						
	intermediate						
<b>EM HSI =</b>				<b>EM HSI =</b>		<b>EM HSI =</b>	
<b>OW HSI =</b>				<b>OW HSI =</b>		<b>OW HSI =</b>	

Project: Grand Bayou Freshwater Enhancement

FWOP

Variable		TY		TY		TY	
		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
	fresh						
V6	Access Value						
	fresh						
	intermediate						
		EM HSI =		EM HSI =		EM HSI =	
		OW HSI =		OW HSI =		OW HSI =	

## WETLAND VALUE ASSESSMENT COMMUNITY MODEL

### Fresh/Intermediate Marsh

Project: Grand Bayou Freshwater Enhancement

Area 2 - East - Intermediate

Condition: Future With Project

Project Area:	2,984
% Fresh	0
% Intermediate	100

Variable		TY 0		TY 1		TY 20	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	72	0.75	72	0.75	65	0.69
V2	% Aquatic	40	0.46	50	0.55	50	0.55
V3	Interspersion	%		%		%	
	Class 1	70	0.85	70	0.85	68	0.84
	Class 2	15		15		15	
	Class 3	15		15		17	
	Class 4	0		0		0	
V4	%OW <= 1.5ft	20	0.33	20	0.33	20	0.33
V5	Salinity (ppt)						
	fresh		0.30		0.68		0.54
	intermediate	6		4.1		4.8	
V6	Access Value						
	fresh		1.00		1.00		1.00
	intermediate	1		1.0000		1.0000	
		Emergent Marsh HSI = 0.74		EM HSI = 0.78		EM HSI = 0.72	
		Open Water HSI = 0.54		OW HSI = 0.63		OW HSI = 0.62	

Project: Grand Bayou Freshwater Enhancement

FWP

Variable		TY		TY		TY	
		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
	fresh						
V6	Access Value						
	fresh						
	intermediate						
		EM HSI =		EM HSI =		EM HSI =	
		OW HSI =		OW HSI =		OW HSI =	

Project: Grand Bayou Freshwater Enhancement

FWP

Variable		TY		TY		TY	
		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
	fresh						
V6	Access Value						
	fresh						
	intermediate						
		EM HSI =		EM HSI =		EM HSI =	
		OW HSI =		OW HSI =		OW HSI =	



## AAHU CALCULATION - OPEN WATER

**Project:** Grand Bayou Freshwater Enhancement

Area 2 - East - Intermediate

Future Without Project			Total HUs	Cummulative HUs
TY	Water Acres	x HSI		
0	816	0.54	443.65	
1	835	0.54	453.98	448.82
20	1152	0.50	571.06	9786.05
<b>Max= 20</b>			<b>AAHUs = 511.74</b>	

Future With Project			Total HUs	Cummulative HUs
TY	Water Acres	x HSI		
0	816	0.54	443.65	
1	827	0.63	524.44	483.88
20	1020	0.62	635.34	11024.81
<b>Max= 20</b>			<b>AAHUs 575.43</b>	

NET CHANGE IN AAHUs DUE TO PROJECT		
A. Future With Project Open Water AAHUs	=	575.43
B. Future Without Project Open Water AAHUs	=	511.74
<b>Net Change (FWP - FWOP) =</b>		<b>63.69</b>

TOTAL BENEFITS IN AAHUs DUE TO PROJECT		
A. Emergent Marsh Habitat Net AAHUs	=	159.13
B. Open Water Habitat Net AAHUs	=	63.69
<b>Net Benefits=(2.1xEMAAHUs+OWAAHUs)/3.1</b>		<b>128.35</b>

## WETLAND VALUE ASSESSMENT COMMUNITY MODEL Fresh/Intermediate Marsh

Project: **Grand Bayou Freshwater Enhancement**  
Marsh Creation Area

Project Area:	126
% Fresh	0
% Intermediate	100

Condition: Future Without Project

Variable		TY 0		TY 1		TY 20	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	11	0.20	11	0.20	10	0.19
V2	% Aquatic	80	0.82	80	0.82	80	0.82
V3	Interspersion	%		%		%	
	Class 1	0	0.20	0	0.20	0	0.20
	Class 2	0		0		0	
	Class 3	0		0		0	
	Class 4	100		100		100	
V4	%OW <= 1.5ft	100	0.60	100	0.60	100	0.60
	Salinity (ppt)						
V5	fresh		1.00		1.00		1.00
	intermediate	2		2		2	
V6	Access Value						
	fresh		0.36		0.36		0.36
	intermediate	0.2000		0.2000		0.2000	
<b>Emergent Marsh HSI =</b>		<b>0.30</b>		<b>EM HSI =</b>	<b>0.30</b>	<b>EM HSI =</b>	<b>0.30</b>
<b>Open Water HSI =</b>		<b>0.65</b>		<b>OW HSI =</b>	<b>0.65</b>	<b>OW HSI =</b>	<b>0.65</b>

Project: Grand Bayou Freshwater Enhancement

FWOP

Variable		TY		TY		TY	
		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
V4	%OW <= 1.5ft						
	Salinity (ppt)						
V5	fresh						
	intermediate						
V6	Access Value						
	fresh						
	intermediate						
<b>EM HSI =</b>				<b>EM HSI =</b>		<b>EM HSI =</b>	
<b>OW HSI =</b>				<b>OW HSI =</b>		<b>OW HSI =</b>	

Project: **Grand Bayou Freshwater Enhancement**

FWOP

Variable		TY		TY		TY	
		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
	fresh						
V6	Access Value						
	fresh						
	intermediate						
		<b>EM HSI =</b>		<b>EM HSI =</b>		<b>EM HSI =</b>	
		<b>OW HSI =</b>		<b>OW HSI =</b>		<b>OW HSI =</b>	

**WETLAND VALUE ASSESSMENT COMMUNITY MODEL**  
Fresh/Intermediate Marsh

Project: **Grand Bayou Freshwater Enhancement**

Marsh Creation Area

Condition: Future With Project

Project Area:	176
% Fresh	0
% Intermediate	100

Variable		TY 0		TY 1		TY 3	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	11	0.20	14	0.23	38	0.44
V2	% Aquatic	80	0.82	0	0.10	40	0.46
V3	Interspersion	%		%		%	
	Class 1	0	0.20	0	0.10	0	0.40
	Class 2	0		0		0	
	Class 3	0		0		100	
	Class 4	100		0		0	
	Class 5	0		100		0	
V4	%OW <= 1.5ft	100	0.60	0	0.10	100	0.60
V5	Salinity (ppt)						
	fresh		1.00		1.00		1.00
	intermediate	2		2		2	
V6	Access Value						
	fresh		0.36		0.20		0.36
	intermediate	0.2		0.0001		0.2000	
		<b>Emergent Marsh HSI = 0.30</b>		<b>EM HSI = 0.29</b>		<b>EM HSI = 0.49</b>	
		<b>Open Water HSI = 0.65</b>		<b>OW HSI = 0.18</b>		<b>OW HSI = 0.48</b>	

Project: Grand Bayou Freshwater Enhancement

FWP

Variable		TY 5		TY 20		TY	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	99	0.99	95	0.96		
V2	% Aquatic	80	0.82	80	0.82		
V3	Interspersion	%		%		%	
	Class 1	100	1.00	100	1.00		
	Class 2	0		0			
	Class 3	0		0			
	Class 4	0		0			
V4	%OW <= 1.5ft	100	0.60	100	0.60		
	Salinity (ppt)						
V5	fresh		1.00		1.00		
	intermediate	2		2			
V6	Access Value						
	fresh		0.36		0.36		
	intermediate	0.2000		0.2000			
		<b>EM HSI =</b>	<b>0.87</b>	<b>EM HSI =</b>	<b>0.85</b>	<b>EM HSI =</b>	
		<b>OW HSI =</b>	<b>0.71</b>	<b>OW HSI =</b>	<b>0.71</b>	<b>OW HSI =</b>	

Project: Grand Bayou Freshwater Enhancement

FWP

Variable		TY		TY		TY	
		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
V4	%OW <= 1.5ft						
	Salinity (ppt)						
V5	fresh						
	intermediate						
V6	Access Value						
	fresh						
	intermediate						
		<b>EM HSI =</b>		<b>EM HSI =</b>		<b>EM HSI =</b>	
		<b>OW HSI =</b>		<b>OW HSI =</b>		<b>OW HSI =</b>	



## AAHU CALCULATION - OPEN WATER

**Project:** Grand Bayou Freshwater Enhancement  
Marsh Creation Area

Future Without Project			Total HUs	Cummulative HUs
TY	Water Acres	x HSI		
0	112	0.65	73.08	
1	112	0.65	73.08	73.08
20	113	0.65	73.73	1394.68
<b>Max= 20</b>			<b>AAHUs = 73.39</b>	

Future With Project			Total HUs	Cummulative HUs
TY	Water Acres	x HSI		
0	112	0.65	73.08	
1	0	0.18	0.00	27.75
3	1	0.48	0.48	0.38
5	1	0.71	0.71	1.20
20	6	0.71	4.27	37.37
<b>Max= 20</b>			<b>AAHUs 3.33</b>	

NET CHANGE IN AAHUs DUE TO PROJECT		
A. Future With Project Open Water AAHUs	=	3.33
B. Future Without Project Open Water AAHUs	=	73.39
<b>Net Change (FWP - FWOP)</b>	<b>=</b>	<b>-70.05</b>

TOTAL BENEFITS IN AAHUs DUE TO PROJECT		
A. Emergent Marsh Habitat Net AAHUs	=	82.92
B. Open Water Habitat Net AAHUs	=	-70.05
<b>Net Benefits=(2.1xEMAAHUs+OWAAHUs)/3.1</b>	<b>=</b>	<b>33.57</b>

**WETLAND VALUE ASSESSMENT**

**Benefits Summary Sheet**

**Project: Southwest Pass Shoreline Protection**

**TOTAL BENEFITS IN AAHUs DUE TO PROJECT**

<u>Area</u>	<u>AAHUs</u>
Brackish Marsh	34.79

**TOTAL BENEFITS = 35 AAHUS**

# WETLAND VALUE ASSESSMENT COMMUNITY MODEL

## Brackish Marsh

Project: Southwest Pass Shoreline Protection

Project Area: 100

Condition: Future Without Project

Variable		TY 0		TY 1		TY 20	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	91	0.92	86	0.87	0	0.10
V2	% Aquatic	0	0.10	0	0.10	0	0.10
V3	Interspersion	%		%		%	
	Class 1	100	1.00	100	1.00	0	0.10
	Class 2	0		0		0	
	Class 3	0		0		0	
	Class 4	0		0		0	
	Class 5	0		0		100	
V4	%OW <= 1.5ft	100	0.60	100	0.60	12	0.25
V5	Salinity (ppt)	8.9	1.00	8.9	1.00	8.9	1.00
V6	Access Value	1.0000	1.00	1.0000	1.00	1.0000	1.00
		<b>Emergent Marsh HSI = 0.95</b>		<b>EM HSI = 0.92</b>		<b>EM HSI = 0.25</b>	
		<b>Open Water HSI = 0.39</b>		<b>OW HSI = 0.39</b>		<b>OW HSI = 0.30</b>	

Project: Southwest Pass Shoreline Protection

Project Area: 100

FWOP

Variable		TY		TY		TY	
		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
V6	Access Value						
		<b>EM HSI =</b>		<b>EM HSI =</b>		<b>EM HSI =</b>	
		<b>OW HSI =</b>		<b>OW HSI =</b>		<b>OW HSI =</b>	

FWOP

Variable		TY		TY		TY	
		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
V6	Access Value						
		EM HSI =		EM HSI =		EM HSI =	
		OW HSI =		OW HSI =		OW HSI =	

## WETLAND VALUE ASSESSMENT COMMUNITY MODEL Brackish Marsh

Condition: Future With Project

Variable		TY 0		TY 1		TY 20	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	91	0.92	91	0.92	91	0.92
V2	% Aquatic	0	0.10	0	0.10	0	0.10
V3	Interspersion	%		%		%	
	Class 1	100	1.00	100	1.00	100	1.00
	Class 2	0		0		0	
	Class 3	0		0		0	
	Class 4	0		0		0	
	Class 5	0		0		0	
V4	%OW <= 1.5ft	100	0.60	100	0.60	100	0.60
V5	Salinity (ppt)	8.9	1.00	8.9	1.00	8.9	1.00
V6	Access Value	1.0000	1.00	1.0000	1.00	1.0000	1.00
		Emergent Marsh HSI = 0.95		EM HSI = 0.95		EM HSI = 0.95	
		Open Water HSI = 0.39		OW HSI = 0.39		OW HSI = 0.39	

Project: Southwest Pass Shoreline Protection

Project Area: 100

FWP

Variable		TY		TY		TY	
		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
V6	Access Value						
		EM HSI =		EM HSI =		EM HSI =	
		OW HSI =		OW HSI =		OW HSI =	

Project: Southwest Pass Shoreline Protection

Project Area: 100

FWP

Variable		TY		TY		TY	
		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
V6	Access Value						
		EM HSI =		EM HSI =		EM HSI =	
		OW HSI =		OW HSI =		OW HSI =	



## AAHU CALCULATION - OPEN WATER

**Project:** Southwest Pass Shoreline Protection

Future Without Project			Total HUs	Cummulative HUs
TY	Water Acres	x HSI		
0	9	0.39	3.49	
1	14	0.39	5.43	4.46
20	100	0.30	29.57	357.63
<b>Max TY=</b>			<b>AAHUs =</b>	<b>18.10</b>
	<b>20</b>			

Future With Project			Total HUs	Cummulative HUs
TY	Water Acres	x HSI		
0	9	0.39	3.49	
1	9	0.39	3.49	3.49
20	9	0.39	3.49	66.34
<b>Max TY=</b>			<b>AAHUs</b>	<b>3.49</b>
	<b>20</b>			

NET CHANGE IN AAHUs DUE TO PROJECT		
A. Future With Project Open Water AAHUs	=	3.49
B. Future Without Project Open Water AAHUs	=	18.10
<b>Net Change (FWP - FWOP) =</b>		<b>-14.61</b>

TOTAL BENEFITS IN AAHUs DUE TO PROJECT		
A. Emergent Marsh Habitat Net AAHUs	=	53.78
B. Open Water Habitat Net AAHUs	=	-14.61
<b>Net Benefits= (2.6xEMAAHUs+OWAAHUs)/3.6</b>		<b>34.79</b>

# WETLAND VALUE ASSESSMENT

## Benefits Summary Sheet

**Project: West Cove Marsh Creation and Nourishment**

### TOTAL BENEFITS IN AAHUs DUE TO PROJECT

<u>Area</u>	<u>AAHUs</u>
Brackish Marsh	177.55

<b>TOTAL BENEFITS = 178 AAHUS</b>
-----------------------------------

# WETLAND VALUE ASSESSMENT COMMUNITY MODEL

## Brackish Marsh

Project: **West Cove Marsh Creation and Nourishment**

Project Area: **409**

Condition: Future Without Project

Variable		TY 0		TY 1		TY 20	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	5	0.15	5	0.15	4	0.14
V2	% Aquatic	1	0.11	1	0.11	1	0.11
V3	Interspersion	%		%		%	
	Class 1	0	0.10	0	0.10	0	0.10
	Class 2	0		0		0	
	Class 3	0		0		0	
	Class 4	0		0		0	
	Class 5	100		100		100	
V4	%OW <= 1.5ft	91	0.78	91	0.78	61	0.88
V5	Salinity (ppt)	12.7	0.60	12.7	0.60	12.7	0.60
V6	Access Value	1.0000	1.00	1.0000	1.00	1.0000	1.00
		<b>Emergent Marsh HSI = 0.25</b>		<b>EM HSI = 0.25</b>		<b>EM HSI = 0.24</b>	
		<b>Open Water HSI = 0.31</b>		<b>OW HSI = 0.31</b>		<b>OW HSI = 0.32</b>	

Project: **West Cove Marsh Creation and Nourishment**

Project Area: **409**

FWOP

Variable		TY		TY		TY	
		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
V6	Access Value						
		<b>EM HSI =</b>		<b>EM HSI =</b>		<b>EM HSI =</b>	
		<b>OW HSI =</b>		<b>OW HSI =</b>		<b>OW HSI =</b>	

FWOP

Variable		TY		TY		TY	
		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
V6	Access Value						
		EM HSI =		EM HSI =		EM HSI =	
		OW HSI =		OW HSI =		OW HSI =	

## WETLAND VALUE ASSESSMENT COMMUNITY MODEL Brackish Marsh

Condition: Future With Project

Variable		TY 0		TY 1		TY 3	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	5	0.15	12	0.21	33	0.40
V2	% Aquatic	1	0.11	0	0.10	5	0.15
V3	Interspersion	%		%		%	
	Class 1	0	0.10	0	0.10	0	0.40
	Class 2	0		0		0	
	Class 3	0		0		100	
	Class 4	0		0		0	
	Class 5	100		100		0	
V4	%OW <= 1.5ft	91	0.78	100	0.60	100	0.60
V5	Salinity (ppt)	12.7	0.60	12.7	0.60	12.7	0.60
V6	Access Value	1.0000	1.00	0.0001	0.10	1.0000	1.00
		Emergent Marsh HSI = 0.25		EM HSI = 0.21		EM HSI = 0.49	
		Open Water HSI = 0.31		OW HSI = 0.17		OW HSI = 0.36	

FWP

Variable		TY 5		TY 20		TY	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	98	0.98	92	0.93		
V2	% Aquatic	5	0.15	5	0.15		
V3	Interspersion	%		%		%	
	Class 1	100	1.00	100	1.00		
	Class 2	0		0			
	Class 3	0		0			
	Class 4	0		0			
	Class 5	0		0			
V4	%OW <= 1.5ft	100	0.60	90	0.80		
V5	Salinity (ppt)	12.7	0.60	12.7	0.60		
V6	Access Value	1.0000	1.00	1.0000	1.00		
		EM HSI = 0.94		EM HSI = 0.91		EM HSI =	
		OW HSI = 0.41		OW HSI = 0.42		OW HSI =	

FWP

Variable		TY		TY		TY	
		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
V6	Access Value						
		EM HSI =		EM HSI =		EM HSI =	
		OW HSI =		OW HSI =		OW HSI =	

## AAHU CALCULATION - EMERGENT MARSH

**Project:** West Cove Marsh Creation and Nourishment

Future Without Project			Total HUs	Cummulative HUs
TY	Marsh Acres	x HSI		
0	21	0.25	5.32	
1	21	0.25	5.32	5.32
20	18	0.24	4.41	92.33
<b>Max TY= 20</b>			<b>AAHUs =</b>	<b>4.88</b>

Future With Project			Total HUs	Cummulative HUs
TY	Marsh Acres	x HSI		
0	21	0.25	5.32	
1	49	0.21	10.48	8.08
3	136	0.49	67.01	69.40
5	401	0.94	378.63	405.75
20	377	0.91	343.66	5415.17
<b>Max TY= 20</b>			<b>AAHUs</b>	<b>294.92</b>

NET CHANGE IN AAHUs DUE TO PROJECT		
A. Future With Project Emergent Marsh AAHUs	=	294.92
B. Future Without Project Emergent Marsh AAHUs	=	4.88
<b>Net Change (FWP - FWOP)</b>	<b>=</b>	<b>290.04</b>



# WETLAND VALUE ASSESSMENT

## Benefits Summary Sheet

**Project: Southeast Pecan Island Marsh Creation & Freshwater Enhancement**

### TOTAL BENEFITS IN AAHUs DUE TO PROJECT

<u>Area</u>	<u>AAHUs</u>
Brackish Marsh	181.14

<b>TOTAL BENEFITS = 181 AAHUS</b>
-----------------------------------

# WETLAND VALUE ASSESSMENT COMMUNITY MODEL

## Brackish Marsh

Project: **Southeast Pecan Island Marsh Creation & Freshwater Enhancement**

Project Area: **3,281**

Condition: Future Without Project

Variable		TY 0		TY 1		TY 3	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	34	0.41	33	0.40	33	0.40
V2	% Aquatic	5	0.15	5	0.15	5	0.15
V3	Interspersion	%		%		%	
	Class 1	0	0.26	0	0.26	0	0.26
	Class 2	0		0		0	
	Class 3	30		30		30	
	Class 4	70		70		70	
	Class 5	0		0		0	
V4	%OW <= 1.5ft	24	0.41	24	0.41	24	0.41
V5	Salinity (ppt)	5.4	1.00	5.4	1.00	5.4	1.00
V6	Access Value	1.0000	1.00	1.0000	1.00	1.0000	1.00
		<b>Emergent Marsh HSI = 0.53</b>		<b>EM HSI = 0.52</b>		<b>EM HSI = 0.52</b>	
		<b>Open Water HSI = 0.37</b>		<b>OW HSI = 0.37</b>		<b>OW HSI = 0.37</b>	

Project: Southeast Pecan Island Marsh Creation & Freshwater Enhancement

Project Area: 3281

FWOP

Variable		TY 5		TY 20		TY	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	32	0.39	28	0.35		
V2	% Aquatic	5	0.15	5	0.15		
V3	Interspersion	%		%		%	
	Class 1	0	0.26	0	0.24		
	Class 2	0		0			
	Class 3	30		20			
	Class 4	70		80			
	Class 5	0		0			
V4	%OW <= 1.5ft	24	0.41	21	0.37		
V5	Salinity (ppt)	5.4	1.00	5.4	1.00		
V6	Access Value	1.0000	1.00	1.0000	1.00		
		<b>EM HSI = 0.52</b>		<b>EM HSI = 0.49</b>		<b>EM HSI =</b>	
		<b>OW HSI = 0.37</b>		<b>OW HSI = 0.36</b>		<b>OW HSI =</b>	

FWOP

Variable		TY		TY		TY	
		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
V6	Access Value						
		EM HSI =		EM HSI =		EM HSI =	
		OW HSI =		OW HSI =		OW HSI =	

## WETLAND VALUE ASSESSMENT COMMUNITY MODEL Brackish Marsh

Condition: Future With Project

Variable		TY 0		TY 1		TY 3	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	34	0.41	32	0.39	36	0.42
V2	% Aquatic	5	0.15	5	0.15	13	0.22
V3	Interspersion	%		%		%	
	Class 1	0	0.26	0	0.24	0	0.29
	Class 2	0		0		0	
	Class 3	30		30		46	
	Class 4	70		54		54	
	Class 5	0		16		0	
V4	%OW <= 1.5ft	24	0.41	24	0.41	24	0.41
V5	Salinity (ppt)	5.4	1.00	5	1.00	5	1.00
V6	Access Value	1.0000	1.00	0.8400	0.86	1.0000	1.00
		Emergent Marsh HSI = 0.53		EM HSI = 0.50		EM HSI = 0.55	
		Open Water HSI = 0.37		OW HSI = 0.35		OW HSI = 0.44	

FWP

Variable		TY 5		TY 20		TY	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	43	0.49	40	0.46		
V2	% Aquatic	13	0.22	13	0.22		
V3	Interspersion	%		%		%	
	Class 1	16	0.39	16	0.37		
	Class 2	0		0			
	Class 3	30		20			
	Class 4	54		64			
	Class 5	0		0			
V4	%OW <= 1.5ft	24	0.41	27	0.45		
V5	Salinity (ppt)	5	1.00	5	1.00		
V6	Access Value	1.0000	1.00	1.0000	1.00		
		EM HSI = 0.60		EM HSI = 0.58		EM HSI =	
		OW HSI = 0.44		OW HSI = 0.45		OW HSI =	

FWP

Variable		TY		TY		TY	
		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
V6	Access Value						
		EM HSI =		EM HSI =		EM HSI =	
		OW HSI =		OW HSI =		OW HSI =	

## AAHU CALCULATION - EMERGENT MARSH

**Project:** Southeast Pecan Island Marsh Creation & Freshwater Enhancement

Future Without Project			Total HUs	Cummulative HUs
TY	Marsh Acres	x HSI		
0	1108	0.53	585.91	
1	1098	0.52	573.32	579.60
3	1080	0.52	563.92	1137.24
5	1062	0.52	547.43	1111.31
20	935	0.49	454.55	7505.51
<b>Max TY= 20</b>			<b>AAHUs =</b>	<b>516.68</b>

Future With Project			Total HUs	Cummulative HUs
TY	Marsh Acres	x HSI		
0	1108	0.53	585.91	
1	1053	0.50	526.98	556.18
3	1193	0.55	650.83	1175.71
5	1426	0.60	857.62	1504.11
20	1307	0.58	758.05	12111.14
<b>Max TY= 20</b>			<b>AAHUs</b>	<b>767.36</b>

NET CHANGE IN AAHUs DUE TO PROJECT		
A. Future With Project Emergent Marsh AAHUs	=	767.36
B. Future Without Project Emergent Marsh AAHUs	=	516.68
<b>Net Change (FWP - FWOP)</b>	<b>=</b>	<b>250.67</b>

## AAHU CALCULATION - OPEN WATER

**Project:** Southeast Pecan Island Marsh Creation & Freshwater Enhancement

Future Without Project			Total HUs	Cummulative HUs
TY	Water Acres	x HSI		
0	2173	0.37	799.15	
1	2183	0.37	802.83	800.99
3	2201	0.37	809.45	1612.28
5	2219	0.37	816.07	1625.52
20	2346	0.36	852.59	12516.35
<b>Max TY= 20</b>			<b>AAHUs =</b>	<b>827.76</b>

Future With Project			Total HUs	Cummulative HUs
TY	Water Acres	x HSI		
0	2173	0.37	799.15	
1	1820	0.35	640.38	718.83
3	1839	0.44	803.56	1443.39
5	1855	0.44	823.74	1627.26
20	1974	0.45	879.30	12772.36
<b>Max TY= 20</b>			<b>AAHUs</b>	<b>828.09</b>

NET CHANGE IN AAHUs DUE TO PROJECT		
A. Future With Project Open Water AAHUs	=	828.09
B. Future Without Project Open Water AAHUs	=	827.76
<b>Net Change (FWP - FWOP)</b>	<b>=</b>	<b>0.34</b>

TOTAL BENEFITS IN AAHUs DUE TO PROJECT		
A. Emergent Marsh Habitat Net AAHUs	=	250.67
B. Open Water Habitat Net AAHUs	=	0.34
<b>Net Benefits= (2.6xEMAAHUs+OWAAHUs)/3.6</b>		<b>181.14</b>

**WETLAND VALUE ASSESSMENT**

**Benefits Summary Sheet**

**Project: South Grand Chenier Marsh Creation - Baker Tract**

**TOTAL BENEFITS IN AAHUs DUE TO PROJECT**

<u>Area</u>	<u>AAHUs</u>
Brackish Marsh	195.96

**TOTAL BENEFITS = 196 AAHUS**

# WETLAND VALUE ASSESSMENT COMMUNITY MODEL

## Brackish Marsh

Project: South Grand Chenier Marsh Creation - Baker Tract

Project Area: 420

Condition: Future Without Project

Variable		TY 0		TY 1		TY 20	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	3	0.13	3	0.13	2	0.12
V2	% Aquatic	2	0.12	2	0.12	2	0.12
V3	Interspersion	%		%		%	
	Class 1	0	0.10	0	0.10	0	0.10
	Class 2	0		0		0	
	Class 3	0		0		0	
	Class 4	0		0		0	
	Class 5	100		100		100	
V4	%OW <= 1.5ft	30	0.49	30	0.49	17	0.32
V5	Salinity (ppt)	12	0.70	12	0.70	12	0.70
V6	Access Value	0.8600	0.87	1.0000	1.00	1.0000	1.00
		<b>Emergent Marsh HSI = 0.24</b>		<b>EM HSI = 0.25</b>		<b>EM HSI = 0.24</b>	
		<b>Open Water HSI = 0.30</b>		<b>OW HSI = 0.31</b>		<b>OW HSI = 0.30</b>	

Project: South Grand Chenier Marsh Creation - Baker Tract

Project Area: 420

FWOP

Variable		TY		TY		TY	
		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
V6	Access Value						
		<b>EM HSI =</b>		<b>EM HSI =</b>		<b>EM HSI =</b>	
		<b>OW HSI =</b>		<b>OW HSI =</b>		<b>OW HSI =</b>	

FWOP

Variable		TY		TY		TY	
		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
V6	Access Value						
		EM HSI =		EM HSI =		EM HSI =	
		OW HSI =		OW HSI =		OW HSI =	

### WETLAND VALUE ASSESSMENT COMMUNITY MODEL Brackish Marsh

Condition: Future With Project

Variable		TY 0		TY 1		TY 3	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	3	0.13	11	0.20	36	0.42
V2	% Aquatic	2	0.12	0	0.10	10	0.19
V3	Interspersion	%		%		%	
	Class 1	0	0.10	0	0.10	0	0.40
	Class 2	0		0		0	
	Class 3	0		0		100	
	Class 4	0		0		0	
	Class 5	100		100		0	
V4	%OW <= 1.5ft	30	0.49	100	0.60	100	0.60
V5	Salinity (ppt)	12	0.70	12	0.70	12	0.70
V6	Access Value	0.8600	0.87	0.0001	0.10	1.0000	1.00
		Emergent Marsh HSI = 0.24		EM HSI = 0.22		EM HSI = 0.52	
		Open Water HSI = 0.30		OW HSI = 0.18		OW HSI = 0.41	

FWP

Variable		TY 5		TY 20		TY	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	99	0.99	96	0.96		
V2	% Aquatic	20	0.28	20	0.28		
V3	Interspersion	%		%		%	
	Class 1	100	1.00	100	1.00		
	Class 2	0		0			
	Class 3	0		0			
	Class 4	0		0			
	Class 5	0		0			
V4	%OW <= 1.5ft	100	0.60	90	0.80		
V5	Salinity (ppt)	12	0.70	12	0.70		
V6	Access Value	1.0000	1.00	1.0000	1.00		
		EM HSI = 0.96		EM HSI = 0.95		EM HSI =	
		OW HSI = 0.53		OW HSI = 0.55		OW HSI =	

FWP

Variable		TY		TY		TY	
		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
V6	Access Value						
		EM HSI =		EM HSI =		EM HSI =	
		OW HSI =		OW HSI =		OW HSI =	

## AAHU CALCULATION - EMERGENT MARSH

**Project:** South Grand Chenier Marsh Creation - Baker Tract

Future Without Project			Total HUs	Cummulative HUs
TY	Marsh Acres	x HSI		
0	11	0.24	2.67	
1	11	0.25	2.73	2.70
20	10	0.24	2.39	48.60
<b>Max TY= 20</b>			<b>AAHUs =</b>	<b>2.57</b>

Future With Project			Total HUs	Cummulative HUs
TY	Marsh Acres	x HSI		
0	11	0.24	2.67	
1	46	0.22	10.16	6.55
3	153	0.52	80.20	79.55
5	416	0.96	399.89	441.78
20	403	0.95	380.85	5855.03
<b>Max TY= 20</b>			<b>AAHUs</b>	<b>319.15</b>

NET CHANGE IN AAHUs DUE TO PROJECT		
A. Future With Project Emergent Marsh AAHUs	=	319.15
B. Future Without Project Emergent Marsh AAHUs	=	2.57
<b>Net Change (FWP - FWOP)</b>	<b>=</b>	<b>316.58</b>



**Coastal Wetlands Planning, Protection, and Restoration Act**

**23rd Priority Project List Report**

**Appendix D**

**Economic Analyses for Candidate Projects**



**Appendix D**  
**Economic Analyses for Candidate Projects**  
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**Coastal Wetlands Conservation and Restoration Plan**  
**New Orleans Landbridge Shoreline Stabilization and MC**  
**Project Priority List 23 (ver.070313)**

Project Construction Years:	1	Total Project Years	21													
Interest Rate	3.500%	Amortization Factor	0.07036													
Fully Funded First Costs	\$11,726,696	Total Fully Funded Costs	\$12,499,983													
Total Charges	<table border="0"> <tr> <td align="right">Present Worth</td> <td align="right">Average Annual</td> </tr> <tr> <td align="right">\$11,533,910</td> <td align="right">\$811,538</td> </tr> <tr> <td align="right">\$76,632</td> <td align="right">\$5,392</td> </tr> <tr> <td align="right">\$298,198</td> <td align="right">\$20,982</td> </tr> <tr> <td align="right">\$91,933</td> <td align="right">\$6,468</td> </tr> <tr> <td align="right"><hr/></td> <td align="right"><hr/></td> </tr> <tr> <td align="right">\$844,380</td> <td align="right">\$844,380</td> </tr> </table>	Present Worth	Average Annual	\$11,533,910	\$811,538	\$76,632	\$5,392	\$298,198	\$20,982	\$91,933	\$6,468	<hr/>	<hr/>	\$844,380	\$844,380	
Present Worth	Average Annual															
\$11,533,910	\$811,538															
\$76,632	\$5,392															
\$298,198	\$20,982															
\$91,933	\$6,468															
<hr/>	<hr/>															
\$844,380	\$844,380															
First Costs																
Monitoring																
State O & M Costs																
Other Federal Costs																
Average Annual Cost																
Average Annual Habitat Units	65															
Cost Per Habitat Unit	\$12,988															
Total Net Acres	104															

**Coastal Wetlands Conservation and Restoration Plan**  
**Caminda Back Barrier Marsh Creation**  
**Project Priority List 23 (ver.070313)**

Project Construction Years:	1	Total Project Years	21
Interest Rate	3.500%	Amortization Factor	0.07036
Fully Funded First Costs	\$28,441,134	Total Fully Funded Costs	\$31,034,094
Total Charges	Present Worth		Average Annual
First Costs	\$27,983,122		\$1,968,923
Monitoring	\$196,902		\$13,854
State O & M Costs	\$1,714,238		\$120,616
Other Federal Costs	\$148,618		\$10,457
Average Annual Cost	\$2,113,849		\$2,113,849
Average Annual Habitat Units	144		
Cost Per Habitat Unit	\$14,726		
Total Net Acres	181		

**Coastal Wetlands Conservation and Restoration Plan**  
**Wilkinson Canal MC and Nourishment Project**  
**Project Priority List 23 (ver.070313)**

Project Construction Years:	1	Total Project Years	21
Interest Rate	3.500%	Amortization Factor	0.07036
Fully Funded First Costs	\$35,226,651	Total Fully Funded Costs	\$36,292,706
Total Charges	Present Worth		
First Costs	\$34,513,776		
Monitoring	\$86,975		
State O & M Costs	\$520,031		
Other Federal Costs	\$97,010		
Average Annual Cost	\$2,477,962	Average Annual	\$2,428,426
Average Annual Habitat Units	223		\$6,120
Cost Per Habitat Unit	\$11,129		\$36,590
Total Net Acres	395		\$6,826

**Coastal Wetlands Conservation and Restoration Plan**  
**Bayou Grande Cheniere Marsh & Ridge Restoration**  
**Project Priority List 23 (ver.070313)**

Project Construction Years:	1	Total Project Years	21													
Interest Rate	3.500%	Amortization Factor	0.07036													
Fully Funded First Costs	\$28,949,976	Total Fully Funded Costs	\$29,937,575													
Total Charges	<table border="0"> <tr> <td align="right">Present Worth</td> <td align="right">Average Annual</td> </tr> <tr> <td align="right">\$28,466,831</td> <td align="right">\$2,002,957</td> </tr> <tr> <td align="right">\$82,442</td> <td align="right">\$5,801</td> </tr> <tr> <td align="right">\$456,101</td> <td align="right">\$32,092</td> </tr> <tr> <td align="right">\$99,571</td> <td align="right">\$7,006</td> </tr> <tr> <td align="right"><hr/></td> <td align="right"><hr/></td> </tr> <tr> <td align="right">\$2,047,855</td> <td align="right">\$2,047,855</td> </tr> </table>	Present Worth	Average Annual	\$28,466,831	\$2,002,957	\$82,442	\$5,801	\$456,101	\$32,092	\$99,571	\$7,006	<hr/>	<hr/>	\$2,047,855	\$2,047,855	
Present Worth	Average Annual															
\$28,466,831	\$2,002,957															
\$82,442	\$5,801															
\$456,101	\$32,092															
\$99,571	\$7,006															
<hr/>	<hr/>															
\$2,047,855	\$2,047,855															
First Costs																
Monitoring																
State O & M Costs																
Other Federal Costs																
Average Annual Cost																
Average Annual Habitat Units	146															
Cost Per Habitat Unit	\$13,984															
Total Net Acres	264															

**Coastal Wetlands Conservation and Restoration Plan**  
**Island Road Marsh Creation and Nourishment Project**  
**Project Priority List 23 (ver.070313)**

Project Construction Years:	1	Total Project Years	21																										
Interest Rate	3.500%	Amortization Factor	0.07036																										
Fully Funded First Costs	\$38,076,792	Total Fully Funded Costs	\$39,185,267																										
Total Charges	<table border="0"> <tr><td>Present Worth</td><td align="right">\$38,177,432</td></tr> <tr><td>First Costs</td><td align="right">\$77,708</td></tr> <tr><td>Monitoring</td><td align="right">\$563,796</td></tr> <tr><td>State O &amp; M Costs</td><td align="right">\$100,379</td></tr> <tr><td>Other Federal Costs</td><td align="right"></td></tr> <tr><td colspan="2"><hr/></td></tr> <tr><td>Average Annual Cost</td><td align="right">\$2,738,405</td></tr> </table>	Present Worth	\$38,177,432	First Costs	\$77,708	Monitoring	\$563,796	State O & M Costs	\$100,379	Other Federal Costs		<hr/>		Average Annual Cost	\$2,738,405	Average Annual	<table border="0"> <tr><td>Annual</td><td align="right">\$2,686,205</td></tr> <tr><td></td><td align="right">\$5,468</td></tr> <tr><td></td><td align="right">\$39,669</td></tr> <tr><td></td><td align="right">\$7,063</td></tr> <tr><td colspan="2"><hr/></td></tr> <tr><td></td><td align="right">\$2,738,405</td></tr> </table>	Annual	\$2,686,205		\$5,468		\$39,669		\$7,063	<hr/>			\$2,738,405
Present Worth	\$38,177,432																												
First Costs	\$77,708																												
Monitoring	\$563,796																												
State O & M Costs	\$100,379																												
Other Federal Costs																													
<hr/>																													
Average Annual Cost	\$2,738,405																												
Annual	\$2,686,205																												
	\$5,468																												
	\$39,669																												
	\$7,063																												
<hr/>																													
	\$2,738,405																												
Average Annual Habitat Units	166																												
Cost Per Habitat Unit	\$16,461																												
Total Net Acres	312																												

**Coastal Wetlands Conservation and Restoration Plan**  
**Grand Bayou Freshwater Enhancement**  
**Project Priority List 23 (ver.071012)**

Project Construction Years:	1	Total Project Years	21									
Interest Rate	3.500%	Amortization Factor	0.07036									
Fully Funded First Costs	\$19,903,802	Total Fully Funded Costs	\$22,618,793									
Total Charges	<table border="0"> <tr> <td>Present Worth</td> <td align="right">Average Annual</td> </tr> <tr> <td>\$19,596,362</td> <td align="right">\$1,378,821</td> </tr> <tr> <td>\$155,518</td> <td align="right">\$10,942</td> </tr> <tr> <td>\$1,212,601</td> <td align="right">\$85,320</td> </tr> <tr> <td>\$126,779</td> <td align="right">\$8,920</td> </tr> </table>	Present Worth	Average Annual	\$19,596,362	\$1,378,821	\$155,518	\$10,942	\$1,212,601	\$85,320	\$126,779	\$8,920	
Present Worth	Average Annual											
\$19,596,362	\$1,378,821											
\$155,518	\$10,942											
\$1,212,601	\$85,320											
\$126,779	\$8,920											
First Costs												
Monitoring												
State O & M Costs												
Other Federal Costs												
Average Annual Cost	\$1,484,004											
Average Annual Habitat Units	585											
Cost Per Habitat Unit	\$2,536											
Total Net Acres	676											

**Coastal Wetlands Conservation and Restoration Plan**  
**Southwest Pass Shoreline Protection**  
**Project Priority List 23 (ver.070313)**

Project Construction Years:	1	Total Project Years	21																					
Interest Rate	3.500%	Amortization Factor	0.07036																					
Fully Funded First Costs	\$30,857,015	Total Fully Funded Costs	\$38,679,382																					
Total Charges	<table border="0"> <tr> <td>Present Worth</td> <td align="right">\$30,310,796</td> </tr> <tr> <td>Monitoring</td> <td align="right">\$0</td> </tr> <tr> <td>State O &amp; M Costs</td> <td align="right">\$6,001,007</td> </tr> <tr> <td>Other Federal Costs</td> <td align="right">\$313,867</td> </tr> <tr> <td></td> <td align="right"><hr/></td> </tr> <tr> <td>Average Annual Cost</td> <td align="right">\$2,577,022</td> </tr> </table>	Present Worth	\$30,310,796	Monitoring	\$0	State O & M Costs	\$6,001,007	Other Federal Costs	\$313,867		<hr/>	Average Annual Cost	\$2,577,022	<table border="0"> <tr> <td>Average Annual</td> <td align="right">\$2,132,700</td> </tr> <tr> <td></td> <td align="right">\$0</td> </tr> <tr> <td></td> <td align="right">\$422,237</td> </tr> <tr> <td></td> <td align="right"><hr/></td> </tr> <tr> <td></td> <td align="right">\$22,084</td> </tr> </table>	Average Annual	\$2,132,700		\$0		\$422,237		<hr/>		\$22,084
Present Worth	\$30,310,796																							
Monitoring	\$0																							
State O & M Costs	\$6,001,007																							
Other Federal Costs	\$313,867																							
	<hr/>																							
Average Annual Cost	\$2,577,022																							
Average Annual	\$2,132,700																							
	\$0																							
	\$422,237																							
	<hr/>																							
	\$22,084																							
Average Annual Habitat Units	35																							
Cost Per Habitat Unit	\$74,074																							
Total Net Acres	91																							

**Coastal Wetlands Conservation and Restoration Plan**  
**West Cove Marsh Creation and Nourishment**  
**Project Priority List 23 (ver.070313)**

Project Construction Years:	1	Total Project Years	21
Interest Rate	3.500%	Amortization Factor	0.07036
Fully Funded First Costs	\$19,150,068	Total Fully Funded Costs	\$20,034,472

	Present Worth	Average Annual
Total Charges		
First Costs	\$18,929,550	\$1,331,904
Monitoring	\$76,632	\$5,392
State O & M Costs	\$383,645	\$26,994
Other Federal Costs	\$93,136	\$6,553
Average Annual Cost	\$1,370,842	\$1,370,842

Average Annual Habitat Units

Cost Per Habitat Unit

Total Net Acres

178  
\$7,721  
359

**Coastal Wetlands Conservation and Restoration Plan**  
**Southeast Pecan Island MC and FWI**  
**Project Priority List 23 (ver.070313)**

Project Construction Years:	1	Total Project Years	21
Interest Rate	3.500%	Amortization Factor	0.07036
Fully Funded First Costs	\$37,912,924	Total Fully Funded Costs	\$39,835,500

	Present Worth	Average Annual
Total Charges		
First Costs	\$37,096,564	\$2,610,154
Monitoring	\$74,389	\$5,234
State O & M Costs	\$991,719	\$69,778
Other Federal Costs	\$115,374	\$8,118
Average Annual Cost	\$2,693,285	\$2,693,285

Average Annual Habitat Units

Cost Per Habitat Unit

Total Net Acres

181

\$14,869

372

**Coastal Wetlands Conservation and Restoration Plan**  
**South Grand Chenier - Baker MC**  
**Project Priority List 23 (ver.070313)**

Project Construction Years:	1	Total Project Years	21
Interest Rate	3.500%	Amortization Factor	0.07036
Fully Funded First Costs	\$24,493,039	Total Fully Funded Costs	\$25,441,833

Total Charges	Present Worth	Average Annual
First Costs	\$24,065,436	\$1,693,270
Monitoring	\$74,389	\$5,234
State O & M Costs	\$432,345	\$30,420
Other Federal Costs	\$94,911	\$6,678
Average Annual Cost	\$1,735,602	\$1,735,602

Average Annual Habitat Units

Cost Per Habitat Unit

Total Net Acres

196

\$8,857

393

**Coastal Wetlands Planning, Protection, and Restoration Act**

**23rd Priority Project List Report**

**Appendix E**

**Public Support for Candidate Projects**



**23rd Priority Project  
List**

**Public Support for Candidate  
Projects**

**New Orleans Landbridge Shoreline Stabilization and Marsh Creation**

- Charles E. Allen, III MSPH - Director, City of New Orleans

**Caminada Headlands Back Barrier Marsh Restoration**

No written comments submitted for this project

**Wilkinson Canal Marsh Creation and Nourishment**

No written comments submitted for this project

**Bayou Grande Cheniere Marsh and Ridge Restoration**

- P. J. Hahn - for Parish President Billy Nungesser, Plaquemines Parish Government

**Island Road Marsh Creation and Nourishment**

- Michel H. Claudet - Parish President, Terrebonne Parish Consolidated Government
- Leslie R. Suazo - Coastal Restoration Coordinator, Ducks Unlimited
- Phillip R. Precht - Attorney-in-Fact, Louisiana Land and Exploration Company, LLC, ConocoPhillips, Landowners

**Grand Bayou Freshwater Enhancement**

- Leslie R. Suazo – Coastal Restoration Coordinator, Ducks Unlimited
- Phillip R. Precht - Attorney-in-Fact, Louisiana Land and Exploration Company, LLC, ConocoPhillips, Landowners

**Southwest Pass Shoreline Protection**

No written comments submitted for this project

**West Cove Marsh Creation and Nourishment**

No written comments submitted for this project

**Southeast Pecan Island Marsh Creation and Freshwater Enhancement**

No written comments submitted for this project

**South Grand Chenier Marsh Creation - Baker Tract**

No written comments submitted for this project



**Coastal Wetlands Planning, Protection, and Restoration Act**

**23rd Priority Project List Report**

**Appendix F**

**Project Status Summary Report from 1st through 23rd Priority Project Lists**

**by Lead Agency, Priority List, and Basin**



**Appendix F**

**Project Status Summary Report from 1st through 23rd Priority Project Lists  
by Lead Agency, Priority List, and Basin**

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**PROJECT STATUS SUMMARY REPORT BY PRIORITY LIST**

(Priority List Summary follows the Project Summary by Basin).....1



# COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

## PROJECT STATUS SUMMARY REPORT

24 September 2014

Summary report on the status of CWPPRA projects prepared for the Louisiana Coastal Wetlands Conservation and Restoration Task Force.

Reports enclosed:

Project Details by Lead Agency

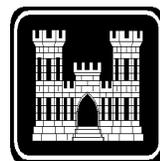
Project Summary by Basin

Project Summary by Priority List

Information based on data furnished by the Federal Lead Agencies and collected by the Corps of Engineers

**Prepared by:**

Project Management Division  
Coastal Restoration Branch  
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## COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

## Project Status Summary Report - Lead Agency: DEPT. OF THE ARMY (COE)

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	

Lead Agency: DEPT. OF THE ARMY, CORPS OF ENGINEERS

### Priority List 1

Barataria Bay Waterway Wetland Creation	BARA	JEFF	445	24-Apr-1995 A	22-Jul-1996 A	15-Oct-1996 A	\$1,759,257	\$1,167,832	66.4	\$1,149,679 \$1,158,382
	<b>Status:</b> The enlargement of Queen Bess Island was incorporated into the project and the construction of a 9-acre cell was completed in October 1996, at a cost of \$945,678. Remaining funds may be used to clear marsh creation sites of oyster leases. If oyster-related conflicts are removed from the remaining marsh creation sites, these areas will be incorporated into the Corp's O&M disposal plan for the next three maintenance cycles. The USACE, LADNR, and LDWF are currently pursuing an administrative process to identify and prioritize beneficial use sites along the BBWW. Additional monitoring of the Queen Bess site was discontinued in 2002 on the recommendation of the local sponsor and monitoring team. There is no operations and maintenance plan for this project. The 20-year life for this CWPPRA project expires on 15 Oct 2016.									
Bayou Labranche Wetland Creation	PONT	STCHA	203	17-Apr-1993 A	06-Jan-1994 A	07-Apr-1994 A	\$4,461,301	\$3,786,070	84.9	\$3,696,302 \$3,674,809
	<b>Status:</b> Contract awarded to T. L. James Co. (Dredge "Tom James") for dredging approximately 2,500,000 cy of Lake Pontchartrain sediments and placing in marsh creation area. Contract final inspection was performed on April 7, 1994. Site visit by Task Force took place on April 13, 1994. The project is being monitored; the majority of the monitoring has already been completed and is proceeding in accordance as originally planned for this project. The goal of creating a shallow water habitat conducive to the natural establishment of wetland vegetation seems to have been partially met. As sediment continues to consolidate and water is maintained in the area, upland vegetation is expected to be supplanted by more obligate wetland species. One project goal is to increase the marsh:open water ratio in the project area to a minimum of 70% emergent marsh to 30% open water after 5 years following project completion. As of 1997, the project area contained about 82% land and 18% water, which is higher than the minimum goal. The consolidation of dredged material over time has reached an elevation that appears to sustain the 70% (land and marsh) component of the project area. The soil properties and the vegetation community of the project have developed into characteristic wetland habitat for the region. The project will be monitored for 20 years. There is no O&M plan for this project; the project's 20 year life expires on 7 Apr 2014.									

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
**Project Status Summary Report - Lead Agency: DEPT. OF THE ARMY (COE)**

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
Lake Salvador Shoreline Protection at Jean Lafitte NHP&P	BARA	JEFF		29-Oct-1996 A	01-Jun-1995 A	21-Mar-1996 A	\$60,000	\$60,375	100.6	\$60,375 \$60,375
<p><b>Status:</b> This project was added to Priority List 1 at the March 1995 Task Force meeting. The Task Force approved the expenditure of up to \$45,000 in Federal funds and non-Federal funds of \$15,000 (25%) for the design of the project.</p> <p>A design review meeting was held with Jean Lafitte Park personnel in May 1996 to resolve design comments prior to advertisement for the construction contract. The contract was awarded December 4, 1996 for \$610,000 to Bertucci Contracting Corp. The contract was completed in March 1997.</p> <p>Complete. This project was design only.</p>										
Vermilion River Cutoff Bank Protection	TECHE	VERMI	65	17-Apr-1993 A	10-Jan-1996 A	11-Feb-1996 A	\$1,526,000	\$2,047,479	134.2 !	\$2,007,627 \$2,007,627
<p><b>Status:</b> The project was modified by moving the dike from the west to the east bank of the cutoff to better protect the wetlands. The need for the sediment retention fence on the west bank is still undetermined. The Task Force approved a revised project estimate of \$2,500,000; however, current estimate is less.</p> <p>The Task Force approved a revised project estimate of \$2,500,000; however, current estimate is less.</p> <p>Condemnation of real estate easements was required because of unclear ownership titles and significantly lengthened the project schedule. Construction was completed in February 1996.</p> <p>Complete.</p>										

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report - Lead Agency: DEPT. OF THE ARMY (COE)

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
West Bay Sediment Diversion	DELTA	PLAQ	9,831	29-Aug-2002 A	10-Sep-2003 A	28-Nov-2003 A	\$8,517,066	\$50,863,503	597.2 !	\$46,361,119 \$43,964,173
<p><b>Status:</b> Flow measurements taken in May 2008 recorded a discharge of 51,270 cubic feet per second of Mississippi River water through the project diversion channel. Since constructed in 2003 the diversion project discharge has averaged 19,188 cfs. Initial construction of the project was designed to allow the discharge of 20,000 cfs at the 50% exceedence stage. Discharge measurements are taken roughly monthly using an accoustic doppler profiler as part of project surveillance and performance monitoring. At this point there is no evidence in the project area of marsh accretion from the deposition of diverted river sediment.</p> <p>In 2006 the USACE performed maintenance dredging in the Pilottown Anchorage Area to remove induced shoal material in accordance with the project operations plan. Material from the dredging work was used benefecially for marsh creation in West Bay. The dredging event was performed using a hopper dredge linked to a pump out system - a first of its kind use of this technology in Louisiana wetlands restoration. To date approximately 225 acres of marsh have been created through the beneficial use of dredged material from the channel construction and maintaining the anchorage area.</p> <p>Project construction began in September 2003 and construction was completed in November 2003. An advertisement for construction of the project opened 08 July 2003 and bids were opened on 11 August 2003. Chevron-Texaco relocated a major oil pipeline in May 2003 under a reimbursable construction agreement. A real estate plan for the project was completed in October 2002 and execution of the plan will be completed in July 2003. The project Cost Sharing Agreement was signed August 29, 2002. A 95% design review was held May 17, 2002. A Record of Decision finalizing the EIS was signed on March 18, 2002. The Task Force, by fax vote, approved a revised project description and reauthorized the project to comply with CWPPRA Section 3952 in April 2002. At the January 10, 2001 Task Force meeting, approval was granted to proceed with the project at the current price of \$22 million due to the increased costs of maintaining the anchorage area. A VE study on the project was undertaken in August 2000.</p>										
Total Priority List			1	10,544			\$16,323,624	\$57,925,258	354.9	\$53,275,101 \$50,865,366

- 5 Project(s)
- 5 Cost Sharing Agreements Executed
- 5 Construction Started
- 5 Construction Completed
- 0 Project(s) Deferred/Deauthorized

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report - Lead Agency: DEPT. OF THE ARMY (COE)

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
Clear Marais Bank Protection	CA/SB	CALCA	1,067	29-Apr-1996 A	29-Aug-1996 A	03-Mar-1997 A	\$1,741,310	\$3,696,088	212.3 !	\$2,964,219
	<p><b>Status:</b> The original construction estimate was low, based on the proposed plan in that the rock quantity estimate was less than half of the quantity needed (based on the original design), and the estimate did not include a floatation channel needed for construction. This accounts for most of the cost increase shown. The current estimate is based on the original rock dike design and costs about \$89/foot.</p> <p>Complete.</p>									
West Belle Pass Headland Restoration	TERRE	LAFOU	474	27-Dec-1996 A	10-Feb-1998 A	15-Aug-1998 A	\$4,854,102	\$6,826,754	140.6 !	\$6,642,429
	<p><b>Status:</b> Status: Original project construction completed July 1998. Supplemental disposal for wetland creation anticipated September 2006.</p> <p>Problems: Construction of the original project started in February 1998, and pumping of dredged material into the project area for wetland creation began in May 1998. Project area conditions were sub-optimal at the time of disposal due to unforeseen weather patterns. In 1998, the area experienced frequent storm activity with sustained winds, high-energy waves, and large amounts of rainfall. Southerly winds heightened tides and raised water levels in the project area to such an extent that dewatering of the dredged material was greatly inhibited. Slurry heights were difficult to determine and therefore, estimates of the amount and height of the material placed in the project area were uncertain at best. In addition, winds from the west battered the project area making the integrity of dike between Timbalier Bay and Bay Toulouse extremely difficult to maintain. The material for the dike had to be layered in geotextile to hold it together and, shortly after disposal was discontinued, the dike breached from the high water and waves affecting the project area. As a result, once the project's disposal areas dewatered and settled shallow open water still remained in much of the project area where emergent wetlands were anticipated. Therefore, with the 2006 scheduled maintenance of the inland portion of Bayou Lafourche and Belle Pass upcoming, CEMVN plans to once again deposit maintenance material from these channels into the West Belle Pass project area in an effort to complete the wetland restoration anticipated under the original project.</p> <p>All the dredged material containment features and rock protection of the project were constructed during the original construction. However, refurbishment of the westernmost retainment dike and reconstruction of the closure between Timberlier Bay and Bay Toulouse would be necessary to achieve a second disposal into the project area.</p> <p>Restoration Strategy: Dredged material from Bayou Lafourche and Belle Pass would be deposited in the bays and canals of the project area to an elevation between +3.5 to +4.0 feet (ft) MLG, so that the settled elevation would be approximately the same as nearby healthy marsh, which occurs between +2.0 and +2.5 ft MLG.</p> <p>Progress to Date: Supplemental Environmental Assessment # 271B is currently out on public review. Construction of the project is anticipated to begin in mid September.</p>									

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
**Project Status Summary Report - Lead Agency: DEPT. OF THE ARMY (COE)**

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
Total Priority List		2	1,541				\$6,595,412	\$10,522,842	159.5	\$9,606,649 \$9,603,409
<ul style="list-style-type: none"> <li>2 Project(s)</li> <li>2 Cost Sharing Agreements Executed</li> <li>2 Construction Started</li> <li>2 Construction Completed</li> <li>0 Project(s) Deferred/Deauthorized</li> </ul>										

**Priority List 3**

Channel Armor Gap Crevasse	DELTA	PLAQ	936	13-Jan-1997 A	22-Sep-1997 A	02-Nov-1997 A	\$808,397	\$888,985	110.0	\$824,465 \$824,465
<p><b>Status:</b> Cost increase was due to additional project management costs, by both Federal and Local Sponsor.</p> <p>Surveys identified a pipeline in the crevasse area which would be negatively impacted by the project. US Fish &amp; Wildlife Service reviewed their permit for the pipeline and determined that Shell Pipeline was required to lower it at their own cost. USFWS requested a modification to the alignment on USFWS-owned lands.</p> <p>Construction complete.</p>										
MRGO Disposal Area Marsh Protection	PONT	STBER	755	17-Jan-1997 A	25-Jan-1999 A	29-Jan-1999 A	\$512,198	\$318,445	62.2	\$318,445 \$318,445
<p><b>Status:</b> Completed scope of work greatly reduced. Work was to be performed via a simplified acquisition contract as estimated construction cost is under \$100,000. Bids received were higher than Government estimate by 25%. Subsequently received an in-house labor estimate from Vicksburg District. Vicksburg District completed construction on 29 January 1999.</p> <p>Cost increase was due to additional project management costs, environmental investigations and local sponsor activities not included in the baseline estimate. Further title research indicates that private ownership titles are unclear, requiring condemnation. This accounts for the long period between CSA execution and project construction.</p>										

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report - Lead Agency: DEPT. OF THE ARMY (COE)

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
Pass-a-Loutre Crevasse DEAUTHORIZED	DELTA	PLAQ					\$2,857,790	\$119,835	4.2	\$119,835 \$119,835
<p><b>Status:</b> Two pipelines and two power poles are in the area of the crevasse, increasing relocation costs by approximately \$2.15 million. LA DNR asked that the Corps investigate alternative locations to avoid or minimize impacts to the pipelines, but there are no more suitable locations for the cut. The Corps has also reviewed the design to determine whether relocations cost-savings could be achieved. Reducing the bottom width of the crevasse from 430 feet as originally proposed to 200 feet reduced the relocation cost only marginally.</p> <p>A draft memorandum dated December 5, 1997 was sent to the CWPPRA Technical Committee Chairman requesting the Task Force to deauthorize the project. COE requested deauthorization at the January 16, 1998 Task Force meeting. Task Force formally deauthorized project July 23, 1998.</p>										
<hr/>										
Total Priority List		3	1,691				\$4,178,385	\$1,327,265	31.8	\$1,262,745 \$1,262,745

- 3 Project(s)
- 2 Cost Sharing Agreements Executed
- 2 Construction Started
- 2 Construction Completed
- 1 Project(s) Deferred/Deauthorized

**Priority List 4**

Beneficial Use of Hopper Dredge Material Demo DEAUTHORIZED	DELTA	PLAQ		30-Jun-1997 A			\$300,000	\$58,310	19.4	\$58,310 \$58,310
<p><b>Status:</b> Current scheme was found to be non-implementable due to inability of the hopper dredge to get close enough to the disposal area to spray over the bank of the Mississippi River.</p> <p>Project deauthorized October 4, 2000.</p>										

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report - Lead Agency: DEPT. OF THE ARMY (COE)

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
Grand Bay Crevasse DEAUTHORIZED	BRET	PLAQ					\$2,468,908	\$65,747	2.7	\$65,747 \$65,747
<p><b>Status:</b> The major landowner has indicated non-support of the project and has withheld ROE because of concern about sedimentation negatively impacting oil and gas interests within the deposition area.</p> <p>A draft memorandum dated December 5, 1997 was sent to the CWPPRA Technical Committee Chairman requesting the Task Force to deauthorize the project. COE requested deauthorization at the January 16, 1998 Task Force meeting. Project deauthorized July 23, 1998.</p>										

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Total Priority List	4						\$2,768,908	\$124,057	4.5	\$124,057 \$124,057
<p>2 Project(s)</p> <p>1 Cost Sharing Agreements Executed</p> <p>0 Construction Started</p> <p>0 Construction Completed</p> <p>2 Project(s) Deferred/Deauthorized</p>										

**Priority List 5**

Bayou Chevee Shoreline Protection	PONT	ORL	75	01-Feb-2001 A	25-Aug-2001 A	17-Dec-2001 A	\$2,555,029	\$2,589,403	101.3	\$2,359,294 \$2,355,937
<p><b>Status:</b> As of Oct 2013, CPRA was in the process of working up a cost estimate for a scheduled rock lift for the Bayou Chevee project.</p>										

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Total Priority List	5		75				\$2,555,029	\$2,589,403	101.3	\$2,359,294 \$2,355,937
<p>1 Project(s)</p> <p>1 Cost Sharing Agreements Executed</p> <p>1 Construction Started</p> <p>1 Construction Completed</p> <p>0 Project(s) Deferred/Deauthorized</p>										

## COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

## Project Status Summary Report - Lead Agency: DEPT. OF THE ARMY (COE)

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
<b>Priority List 6</b>										
Flexible Dustpan Demo at Head of Passes Demo	DELTA	PLAQ	0	31-May-2002 A	03-Jun-2002 A	21-Jun-2002 A	\$1,600,000	\$1,909,020	119.3	\$1,902,570 \$1,889,631
	<b>Status:</b>	CSA executed May 31, 2002. Construction completed June 21, 2002.								
		The Dustpan/Cutterhead Marsh Creation Demonstration project as originally approved, no longer involves the use of a cutterhead dredge. At the October 25, 2001 Task Force meeting, it was approved the motion to use the authorized funds for a "flexible dustpan" demonstration project and approved changing the name of the project to "Flexible Dustpan Demo at Head of Passes".								
		The project was completed as an operations and maintenance task order through an ERDC research and development IDC contract. The project identified some minor areas of concern with regard to the dredge plants effectiveness as a maintenance tool. The dredge was effective in its performance for the beneficial placement of material. The final surveys and quantities have not yet been reported.								
Marsh Creation East of the Atchafalaya River- Avoca Island DEAUTHORIZED	TERRE	STMRY					\$6,438,400	\$66,869	1.0	\$66,869 \$66,869
	<b>Status:</b>	A draft memorandum dated December 5, 1997 was sent to the Technical Committee Chairman requesting the Task Force to deauthorize the project. COE requested deauthorization at the January 16, 1998 Task Force meeting.								
		Project deauthorized July 23, 1998.								
Marsh Island Hydrologic Restoration	TECHE	IBERI	408	01-Feb-2001 A	25-Jul-2001 A	12-Dec-2001 A	\$4,094,900	\$5,143,323	125.6 !	\$4,463,197 \$4,427,376
	<b>Status:</b>	Approval of model CSA for PPL 5, 6 and 8 projects granted on November 13, 2000. CSA executed on February 1, 2001. Advertised as 100% small business set-aside. Construction began July 2001 and completed December 2001.								
		Revised design of closures from earthen to rock because soil borings indicate highly organic material in borrow area.								

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
**Project Status Summary Report - Lead Agency: DEPT. OF THE ARMY (COE)**

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
Total Priority List		6	408				\$12,133,300	\$7,119,212	58.7	\$6,432,635 \$6,383,875
<ul style="list-style-type: none"> <li>3 Project(s)</li> <li>2 Cost Sharing Agreements Executed</li> <li>2 Construction Started</li> <li>2 Construction Completed</li> <li>1 Project(s) Deferred/Deauthorized</li> </ul>										

**Priority List 8**

Sabine Refuge Marsh Creation, Cycle 1	CA/SB	CAMER	214	09-Mar-2001 A	15-Aug-2001 A	26-Feb-2002 A	\$15,724,965	\$3,422,433	21.8	\$3,430,704 \$3,422,433
<p><b>Status:</b> This project was approved by the Task Force as a part of Priority Project List 8. The project consists of constructing 5 marsh creation sites within the Sabine National Wildlife Refuge using material dredged out of the Calcasieu River Ship Channel. The current estimated project cost to construct all cycles is approximately \$21.4 million.</p> <p>The first cycle was completed on February 26, 2002. The total project cost for dredging cycle 1 was \$3,412,415. The project was advertised for bid as a component of the Calcasieu River and Pass Maintenance Dredging contract on February 16, 2001. Construction initiation was advanced in conjunction with an accelerated maintenance dredging schedule for the Calcasieu River.</p> <p>On January 28, 2004 the CWPPRA Task Force provided additional funding and construction approval for Cycles 2 and 3. Cycle 2 is currently scheduled to be constructed in 2005. Cycle 3 would be constructed in 2006.</p>										
Sabine Refuge Marsh Creation, Cycle 2	CA/SB	CAMER	261	17-Feb-2005 A	28-Apr-2009 A		\$9,266,842	\$11,031,151	119.0	\$11,096,734 \$11,091,917
<p><b>Status:</b> Currently this project is complete but are waiting on the O&amp;M Manual to be completed by the Corps before this pipeline can be used.</p>										

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report - Lead Agency: DEPT. OF THE ARMY (COE)

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
Sabine Refuge Marsh Creation, Cycle 3	CA/SB	CAMER	187	28-Mar-2005 A	25-Oct-2006 A	30-Sep-2010 A	\$3,629,333	\$3,945,581	108.7	\$2,763,802 \$2,763,802
<p><b>Status:</b> This project was approved by the Task Force as a part of Priority Project List 8. The project consists of constructing 5 marsh creation sites within the Sabine National Wildlife Refuge using material dredged out of the Calcasieu River Ship Channel. The current estimated project cost to construct all cycles is approximately \$21.4 million. The first cycle was completed on February 26, 2002. The total project cost for dredging cycle 1 was \$3,412,415. The project was advertised for bid as a component of the Calcasieu River and Pass Maintenance Dredging contract on February 16, 2001. Construction initiation was advanced in conjunction with an accelerated maintenance dredging schedule for the Calcasieu River. On January 28, 2004, the CWPPRA Task Force provided additional funding and construction approval for Cycles 2 and 3. Construction of Cycle 2 was completed in 2009. Cycle 3 consists of the creation of 232 acres of marsh platform using material dredged from the Calcasieu River Ship Channel. Between February 12 and March 31, 2007, 828,767 cubic yards of dredged sediment material were placed into the Sabine Refuge Cycle 3 marsh creation area. Lower level earthen overflow weirs were constructed to assist in the dewatering of the marsh creation disposal area and to create fringe marsh with the overflow. The dredged slurry was placed between elevations 2.03 NAVD 88 and 2.71 NAVD 88. Construction of low level weirs along north and west boundary of Cycle 3 allowed 10 to 20 percent of the dredged material to splay into the surrounding area. Containment along the South and East border was breached in Fall of 2010 to complete all construction items.</p>										
Total Priority List		8	662				\$28,621,140	\$18,399,165	64.3	\$17,291,240 \$17,278,152

- 3 Project(s)
- 3 Cost Sharing Agreements Executed
- 3 Construction Started
- 2 Construction Completed
- 0 Project(s) Deferred/Deauthorized

Priority List 9

Freshwater Bayou Bank Stabilization - Belle Isle Canal to Lock INACTIVE	TECHE	VERMI					\$1,498,967	\$1,101,738	73.5	\$1,101,738 \$1,101,738
<p><b>Status:</b> A site visit was held in January 2001 with the Local Sponsor and landowner. Right of entry for surveys and borings was obtained March 14, 2001, and data collection followed. The USACE team met with LDNR staff after survey data was processed and obtained consensus on cross-sections and depth contours. A 30% design review was held in June 2002. The project was revised to include Area A - shoreline protection work only dropping a hydrologic restoration feature. A 95% design review was completed in January 2004. Phase II authorization will be sought again in January 2007.</p>										

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report - Lead Agency: DEPT. OF THE ARMY (COE)

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
Opportunistic Use of the Bonnet Carre Spillway DEAUTHORIZED	PONT	STCHA					\$150,706	\$83,932	55.7	\$83,932 \$83,932
	<b>Status:</b>	At the June 27, 2007 CWPPRA Task Force meeting, the Task Force voted to begin the deauthorization process for this project. In accordance with the CWPPRA Project Standard Operating Procedures Manual, notices were sent out in July 2007 to all interested parties requesting their comments and advising them that, at the next CWPPRA Task Force meeting (currently scheduled for October 25, 2007), a final decision on deauthorization will be made.								
Periodic Intro of Sediment and Nutrients at Selected Diversion Sites Demo DEAUTHORIZED	COAST	VARY					\$1,502,817	\$83,556	5.6	\$83,556 \$83,556
	<b>Status:</b>	In August 2005, project was stalled due to Katrina workload. In November 2006 team began coordinating with 4th Supplemental project, Modification to Caenarvon, to ensure consistency. Currently the team needs to fully develop Preliminary Design Report. Team is working on updating costs to reflect post-Katrina price levels. Also, the team is working on developing benefits of a thin layer of sediment versus marsh creation.								
Weeks Bay MC & SP TRANSFER	TECHE	IBERI					\$1,229,337	\$534,057	43.4	\$534,057 \$534,057
	<b>Status:</b>	This project was transferred out of the CWPPRA Program per Task Force decision on 4 Jun 2013. It was transferred to the Iberia Parish Levee, Hurricane, and Conservation District per their 3 Jun 2013 request.								
Total Priority List			9				\$4,381,827	\$1,803,283	41.2	\$1,803,283 \$1,803,283

- 4 Project(s)
- 0 Cost Sharing Agreements Executed
- 0 Construction Started
- 0 Construction Completed
- 4 Project(s) Deferred/Deauthorized

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report - Lead Agency: DEPT. OF THE ARMY (COE)

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
Benneys Bay Diversion DEAUTHORIZED	DELTA	PLAQ					\$1,076,328	\$976,581	90.7	\$976,581 \$976,581
	<b>Status:</b>	This project was approved for Phase I design on PPL9 in January 1999. The project work plan for Phase I was submitted to the P&E Subcommittee in May 2001. Right of Entry to perform surveys and geotechnical borings was received in August 2001. Site surveys were performed in October 2001 and geotechnical borings were collected in June 2002. A 30% design review was completed in September 2002. At the design review meeting agreement was reached to proceed further with the proposed design except for one feature (SREDS - sediment retention enhancement devices) which were removed at the request of the local sponsor. A Final Design Report has been developed and is being reviewed by the LDNR. A revised WVA and design cost estimate are in preparation for review at the CWPPRA working groups. The project is scheduled to complete all design work in 2006 in preparation for a Phase II funding request.								
Delta Building Diversion at Myrtle Grove DEAUTHORIZED	BARA	JEFF					\$3,002,114	\$2,543,325	84.7	\$2,543,325 \$2,543,325
	<b>Status:</b>	The proposed NMFS/UNO fisheries modeling effort, and its relationship to required EIS input, has been discussed by the principal agencies involved with this project. The current view within the management team is that additional fisheries data collection and analysis will be required over and above the proposed modeling. At this time, it has been decided to begin assembling an inter-agency EIS team and allow them to outline major data and analytic requirements for the NEPA document. The required NEPA scoping meetings have been held and the scoping document is being compiled. An initial Value Engineering study is scheduled for the week of July 22, 2002.  WRDA may fund Phase 2.								
Delta Building Diversion North of Fort St. Philip DEAUTHORIZED	BRET	PLAQ					\$1,155,200	\$1,178,640	102.0	\$1,178,640 \$1,178,640
	<b>Status:</b>	95% desgin review anticipated July 25, 2007.								
Total Priority List		10					\$5,233,642	\$4,698,546	89.8	\$4,698,546 \$4,698,546

- 3 Project(s)
- 0 Cost Sharing Agreements Executed
- 0 Construction Started
- 0 Construction Completed
- 3 Project(s) Deferred/Deauthorized

## COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

## Project Status Summary Report - Lead Agency: DEPT. OF THE ARMY (COE)

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
<b>Priority List 12</b>										
Avoca Island Diversion DEAUTHORIZED	TERRE	STMRY					\$2,229,876	\$1,716,949	77.0	\$1,716,949 \$1,716,949
<b>Status:</b>	The TE-49 Avoca Diversion and Land Building Project was deauthorized per CWPPRA Task Force decision on 4 June 2013.									
Lake Borgne and MRGO Shoreline Protection DEAUTHORIZED	PONT	STBER					\$1,348,345	\$1,089,193	80.8	\$1,089,193 \$1,089,193
<b>Status:</b>	This project was approved for Phase I design on PPL12 in January 2003. A kickoff meeting and site visit were held in April 2003. The project work plan for Phase I was submitted to the P&E Subcommittee in October 2003. Right of Entry to perform surveys and geotechnical borings was requested in June 2003 and received in August 2003. Surveys and geotechnical borings were collected during fall 2003. A preliminary design report was completed in December 2003. A 30% design review was held in August 2004. A 95% design review was held on March 29, 2005. A request for Phase II construction approval from the Task Force is scheduled for January 2007.									
Mississippi River Sediment Trap DEAUTHORIZED	DELTA	PLAQ					\$1,880,376	\$354,791	18.9	\$354,791 \$354,791
<b>Status:</b>	This complex project was approved for Phase I design activities in August 2002. A kickoff meeting was held in September 2002. The project work plan is under development pending a plan reformulation meeting with the LA Dept. of Natural Resources and Corps of Engineers design teams.									
South White Lake Shoreline Protection	MERM	VERMI	844	24-Mar-2005 A	01-Nov-2005 A	29-Aug-2006 A	\$19,673,929	\$10,535,962	53.6	\$10,503,429 \$10,462,852
<b>Status:</b>	CPRA O&M is in the process of setting up the 2014 annual site inspection trip for the ME-22 project; it is tentatively set to occur in the late June or early July 2014 timeframe with report to follow.									

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
**Project Status Summary Report - Lead Agency: DEPT. OF THE ARMY (COE)**

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
Total Priority List		12	844				\$25,132,526	\$13,696,893	54.5	\$13,664,361 \$13,623,783
4 Project(s)										
1 Cost Sharing Agreements Executed										
1 Construction Started										
1 Construction Completed										
3 Project(s) Deferred/Deauthorized										

**Priority List 13**

Shoreline Protection Foundation Improvements Demo	COAST	COAST	0	24-Mar-2005 A	01-Nov-2005 A	29-Aug-2006 A	\$1,000,000	\$707,839	70.8	\$707,839 \$707,839
	<b>Status:</b>	DEMO Final Report was completed and presentation on project & copies of report were provided at the CWPPRA Task Force Meeting on 16 Jan 2014.								
Spanish Pass Diversion DEAUTHORIZED	DELTA	PLAQ					\$1,137,344	\$310,152	27.3	\$310,152 \$310,152
	<b>Status:</b>	The MR-14 Spanish Pass Diversion project was deauthorized per CWPPRA Task Force decision on 4 June 2013.								

Total Priority List		13	0				\$2,137,344	\$1,017,991	47.6	\$1,017,991 \$1,017,991
2 Project(s)										
1 Cost Sharing Agreements Executed										
1 Construction Started										
1 Construction Completed										
1 Project(s) Deferred/Deauthorized										

**Priority List 16**

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**

**Project Status Summary Report - Lead Agency: DEPT. OF THE ARMY (COE)**

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
Southwest LA Gulf Shoreline Nourishment & Protection	MERM	CAMER	888		30-Jun-2017	10-Jul-2018	\$1,266,842	\$1,266,842	100.0	\$11,594
	<b>Status:</b>	This project was approved for Phase 1 design in Oct 2006. The COE internal project delivery team (PDT) has been assembled. Upon attainment of a Cost Share Agreement with CPRA, a Phase 1 work plan will be developed and a kickoff meeting/site visit scheduled. In Mar 2009, a project Fact Sheet and map was approved by the New Orleans District for placement on the LaCoast website. At this time, the project is unable to be further developed by the COE and the CPRA until a Cost Share Agreement is signed.								

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Total Priority List	16		888				\$1,266,842	\$1,266,842	100.0	\$11,594
										\$11,594

- 1 Project(s)
- 0 Cost Sharing Agreements Executed
- 0 Construction Started
- 0 Construction Completed
- 0 Project(s) Deferred/Deauthorized

<b>Total</b>	<b>DEPT. OF THE ARMY, CORPS OF ENGINEERS</b>		<b>16,653</b>				<b>\$111,327,979</b>	<b>\$120,490,758</b>	<b>108.2</b>	<b>\$111,547,496</b>
										<b>\$109,028,737</b>

- 33 Project(s)**
- 18 Cost Sharing Agreements Executed**
- 17 Construction Started**
- 16 Construction Completed**
- 15 Project(s) Deferred/Deauthorized**

Notes:

1. Expenditures based on Corps of Engineers financial data.
2. Date codes: A = Actual date \* = Behind schedule
3. Percent codes: ! = 125% of baseline estimate exceeded

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
**Project Status Summary Report - Lead Agency: ENVIRONMENTAL PROTECTION AGENCY (EPA)**

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	

**Lead Agency: ENVIRONMENTAL PROTECTION AGENCY, REGION 6**

**Priority List Conservation Plan**

State of Louisiana Wetlands Conservation Plan	COAST	COAST		13-Jun-1995 A	03-Jul-1995 A	21-Nov-1997 A	\$238,871	\$143,855	60.2	\$143,855
	<b>Status:</b>	The date the MIPR was issued to obligate the Federal funds for the development of the plan is used as the construction start date for reporting purposes.								
		Complete.								

Total Priority List	Cons Plan						\$238,871	\$143,855	60.2	\$143,855
										\$143,855

- 1 Project(s)
- 1 Cost Sharing Agreements Executed
- 1 Construction Started
- 1 Construction Completed
- 0 Project(s) Deferred/Deauthorized

**Priority List 1**

Isles Dernieres Restoration East Island	TERRE	TERRE	9	17-Apr-1993 A	16-Jan-1998 A	15-Jun-1999 A	\$6,345,468	\$8,682,295	136.8 !	\$8,537,070
	<b>Status:</b>	This phase of the Isles Dernieres restoration project was combined with Isles Dernieres, Phase I (Trinity Island), a priority list 2 project. Additional funds to cover the increased construction cost on lowest bid received were approved at the January 16, 1998 Task Force meeting.								
		Construction start was January 16, 1998. Hydraulic dredging was completed September 1998. Vegetation planting was completed June 1999.								

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
**Project Status Summary Report - Lead Agency: ENVIRONMENTAL PROTECTION AGENCY (EPA)**

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
Total Priority List		1	9				\$6,345,468	\$8,682,295	136.8	\$8,537,070 \$8,583,826
<ul style="list-style-type: none"> <li>1 Project(s)</li> <li>1 Cost Sharing Agreements Executed</li> <li>1 Construction Started</li> <li>1 Construction Completed</li> <li>0 Project(s) Deferred/Deauthorized</li> </ul>										

**Priority List 2**

Isles Dernieres Restoration Trinity Island	TERRE	TERRE	109	17-Apr-1993 A	27-Jan-1998 A	15-Jun-1999 A	\$6,907,897	\$10,774,974	156.0 !	\$10,328,040 \$10,329,072
<p><b>Status:</b> Costs increased due to construction bids significantly greater than projected in plans and specifications. Additional funds to cover the increased project construction/dredging cost were approved at the January 16, 1998 Task Force meeting.</p> <p>The 30' hydraulic dredge, the Tom James, mobilized at East Island on about January 27, 1998. Dredging was completed in September 1998. Vegetation plantings was completed June 1999.</p>										

Total Priority List		2	109				\$6,907,897	\$10,774,974	156.0	\$10,328,040 \$10,329,072
<ul style="list-style-type: none"> <li>1 Project(s)</li> <li>1 Cost Sharing Agreements Executed</li> <li>1 Construction Started</li> <li>1 Construction Completed</li> <li>0 Project(s) Deferred/Deauthorized</li> </ul>										

**Priority List 3**

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
**Project Status Summary Report - Lead Agency: ENVIRONMENTAL PROTECTION AGENCY (EPA)**

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
Red Mud Demo DEAUTHORIZED	PONT	STJON		03-Nov-1994 A			\$350,000	\$520,129	148.6 !	\$520,129 \$520,129
	<b>Status:</b>	Facility construction is essentially complete; project was put on hold pending resolution of cell contamination by saltwater before planting occurred and has subsequently been deauthorized. Demonstration cells completed; no vegetation installed.								
		The Task Force approved the deauthorization of the project on August 7, 2001. Escrowed funds will be returned to Kaiser Aluminum and Chemical Corp.								
Whiskey Island Restoration	TERRE	TERRE	1,239	06-Apr-1995 A	13-Feb-1998 A	15-Jun-2000 A	\$4,844,274	\$7,043,188	145.4 !	\$7,043,188 \$7,043,188
	<b>Status:</b>	At the January 16, 1998 meeting, the Task Force approved additional funds to cover the increased construction cost on lowest bid received.								
		Work was initiated on February 13, 1998. Dredging completed July 1998. Initial vegetation with spartina on bay shore, July 1998. Additional vegetation seeding/planting was carried out in spring 2000.								
Total Priority List		3	1,239				\$5,194,274	\$7,563,317	145.6	\$7,563,317 \$7,563,317

- 2 Project(s)
- 2 Cost Sharing Agreements Executed
- 1 Construction Started
- 1 Construction Completed
- 1 Project(s) Deferred/Deauthorized

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
**Project Status Summary Report - Lead Agency: ENVIRONMENTAL PROTECTION AGENCY (EPA)**

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
Compost Demo DEAUTHORIZED	CA/SB	CAMER		22-Jul-1996 A			\$370,594	\$255,391	68.9	\$255,391 \$255,391
<p><b>Status:</b> Plans and specifications have been finalized. All permits and construction approvals have been obtained.</p> <p>The amount of compost vegetation needed has not yet been supplied. A smaller sized demonstration has been designed. Advertisement for construction bids has been made.</p> <p>The Task Force approved deauthorization on January 16, 2002.</p>										
Total Priority List		4					\$370,594	\$255,391	68.9	\$255,391 \$255,391

- 1 Project(s)
- 1 Cost Sharing Agreements Executed
- 0 Construction Started
- 0 Construction Completed
- 1 Project(s) Deferred/Deauthorized

**Priority List 5**

Bayou Lafourche Siphon DEAUTHORIZED	TERRE	IBERV		19-Feb-1997 A			\$24,487,337	\$1,500,000	6.1	\$1,500,000 \$1,500,000
<p><b>Status:</b> Project was deauthorized by the Task Force on October 25, 2007.</p>										
Total Priority List		5					\$24,487,337	\$1,500,000	6.1	\$1,500,000 \$1,500,000

- 1 Project(s)
- 1 Cost Sharing Agreements Executed
- 0 Construction Started
- 0 Construction Completed
- 1 Project(s) Deferred/Deauthorized

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
**Project Status Summary Report - Lead Agency: ENVIRONMENTAL PROTECTION AGENCY (EPA)**

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
<b>Priority List 5.1</b>										
Mississippi River Reintroduction into Bayou Lafourche DEAUTHORIZED	TERRE	IBERV		23-Jul-2003 A			\$9,700,000	\$7,452,191	76.8	\$7,452,191 \$7,452,191
	<b>Status:</b>	The Mississippi River Reintroduction into Bayou Lafourche Project (BA-25b) has been proposed for de-authorization from the CWPPRA program. However, recognizing the importance of this project, the State of Louisiana, through the Louisiana Department of Natural Resources, has committed to developing this project and is continuing final design efforts toward completion beyond its authorization under the CWPPRA program.								
Total Priority List 5.1							\$9,700,000	\$7,452,191	76.8	\$7,452,191 \$7,452,191

- 0 Project(s)
- 1 Cost Sharing Agreements Executed
- 0 Construction Started
- 0 Construction Completed
- 1 Project(s) Deferred/Deauthorized

**Priority List 6**

Bayou Boeuf Pump Station DEAUTHORIZED	TERRE	STMAR					\$150,000	\$3,452	2.3	\$3,452 \$3,452
	<b>Status:</b>	This was a 3-phased project. Priority List 6 authorized funding of \$150,000; Priority List 7 was scheduled to fund \$250,000; and Priority List 8 was scheduled to fund \$100,000. Total project cost was estimated to be \$500,000. By letter dated November 18, 1997, EPA notified the Technical Committee that they and LA DNR agree to deauthorize the project.								
		Deauthorization was approved at the July 23, 1998 Task Force meeting.								

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
**Project Status Summary Report - Lead Agency: ENVIRONMENTAL PROTECTION AGENCY (EPA)**

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
Total Priority List		6					\$150,000	\$3,452	2.3	\$3,452

- 1 Project(s)
- 0 Cost Sharing Agreements Executed
- 0 Construction Started
- 0 Construction Completed
- 1 Project(s) Deferred/Deauthorized

**Priority List 9**

LA Highway 1 Marsh Creation DEAUTHORIZED	BARA	LAFOU		05-Oct-2000 A			\$1,151,484	\$250,257	21.7	\$250,257 \$250,257
	<b>Status:</b>	The project was deauthorized at the February 17, 2005 Task Force meeting.								
New Cut Dune and Marsh Restoration	TERRE	TERRE	102	01-Sep-2000 A	01-Oct-2006 A	30-Sep-2008 A	\$7,393,626	\$11,842,197	160.2 !	\$10,213,368 \$10,192,472
	<b>Status:</b>	Lessoned learned meeting was held on April 23, 2008. LDNR grant for Phase II construction activities was closed-out on September 30, 2008. Remaining Phase II increment activities included on-going annual inspections.								
Timbalier Island Dune & Marsh Restoration	TERRE	TERRE	273	05-Oct-2000 A	01-Jun-2004 A	19-Mar-2009 A	\$16,234,679	\$16,675,496	102.7	\$15,152,860 \$15,149,562
	<b>Status:</b>	Lessoned learned meeting was held on April 23, 2008. LDNR grant for Phase II construction activities was closed-out on March 19, 2009. Remaining Phase II increment activities included on-going annual inspections.								

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
**Project Status Summary Report - Lead Agency: ENVIRONMENTAL PROTECTION AGENCY (EPA)**

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
Total Priority List		9	375				\$24,779,789	\$28,767,951	116.1	\$25,616,486 \$25,592,291
<ul style="list-style-type: none"> <li>3 Project(s)</li> <li>3 Cost Sharing Agreements Executed</li> <li>2 Construction Started</li> <li>2 Construction Completed</li> <li>1 Project(s) Deferred/Deauthorized</li> </ul>										

**Priority List 10**

Hydrologic Restoration & Vegetative Planting in the Lac des Allemands Swamp	BARA	STJAM	941	08-Oct-2001 A	01-Aug-2015	01-Feb-2016	\$1,899,834	\$2,362,687	124.4	\$2,031,257 \$796,324
<b>Status:</b> Notice to Proceed has been processed and field work is set to begin as early as December 17. Field work should be complete in late February, with modeling commencing immediately afterwards. Modeling will last approximately 3-4 months, expected to be complete by early summer.										
Lake Borgne Shoreline Protection	PONT	STBER	165	02-Oct-2001 A	01-Aug-2007 A	12-Apr-2010 A	\$18,378,900	\$28,646,027	155.9 !	\$18,252,090 \$18,249,538
<b>Status:</b> Construction grant has expired and final Phase 1 activities in the process of being closed-out.										

Total Priority List		10	1,106				\$20,278,734	\$31,008,714	152.9	\$20,283,347 \$19,045,862
<ul style="list-style-type: none"> <li>2 Project(s)</li> <li>2 Cost Sharing Agreements Executed</li> <li>1 Construction Started</li> <li>1 Construction Completed</li> <li>0 Project(s) Deferred/Deauthorized</li> </ul>										

**Priority List 11**

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
**Project Status Summary Report - Lead Agency: ENVIRONMENTAL PROTECTION AGENCY (EPA)**

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
River Reintroduction into Maurepas Swamp TRANSFER	PONT	STJON		04-Apr-2002 A	01-Feb-2015	01-Feb-2018	\$5,434,288	\$6,780,307	124.8	\$6,655,948 \$5,991,279
	<b>Status:</b>	Completion of 95% design has been further delayed, but is currently expected to be met by October, 2013. Plans are to request transfer of the project from CWPPRA, to CPRA in the near future. However, CWPPRA SOP requires that all project expenditures of CWPPRA funds cease as soon as the request is made, and EPA and CPRA still have some necessary expenditures that will need to come from the remaining CWPPRA funds, so it is not possible for us to request project transfer at this time.								
Ship Shoal: Whiskey West Flank Restoration INACTIVE	TERRE	TERRE		17-Mar-2003 A	15-Jan-2014 *	01-Oct-2014	\$2,998,960	\$3,717,855	124.0	\$2,008,205 \$2,008,205
	<b>Status:</b>	Phase 2 funding was requested, but not recommended, at the December 2012 Technical Committee Meeting. Sponsors will determine whether future Phase 2 requests will be made.								
Total Priority List		11					\$8,433,248	\$10,498,162	124.5	\$8,664,153 \$7,999,485

- 2 Project(s)
- 2 Cost Sharing Agreements Executed
- 0 Construction Started
- 0 Construction Completed
- 2 Project(s) Deferred/Deauthorized

**Priority List 12**

Bayou Dupont Sediment Delivery System	BARA	PLAQ	326	21-Mar-2004 A	04-Feb-2009 A	30-Jun-2013 *	\$28,342,879	\$27,162,306	95.8	\$25,068,130 \$21,801,949
	<b>Status:</b>	Additional post-primary construction activities will not be pursued. Sponsors will be proceeding with construction grant close-out activities.								

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
**Project Status Summary Report - Lead Agency: ENVIRONMENTAL PROTECTION AGENCY (EPA)**

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
Total Priority List		12	326				\$28,342,879	\$27,162,306	95.8	\$25,068,130 \$21,801,949
1 Project(s)										
1 Cost Sharing Agreements Executed										
1 Construction Started										
0 Construction Completed										
0 Project(s) Deferred/Deauthorized										

**Priority List 13**

Whiskey Island Back Barrier Marsh Creation	TERRE	TERRE	272	29-Sep-2004 A	11-Feb-2009 A	30-Nov-2013 *	\$27,453,090	\$30,163,401	109.9	\$32,257,364 \$29,321,349
<b>Status:</b>	After further assessment of project vegetation, sponsors intend to pursue an additional vegetation planting event.									
Total Priority List		13	272				\$27,453,090	\$30,163,401	109.9	\$32,257,364 \$29,321,349

- 1 Project(s)
- 1 Cost Sharing Agreements Executed
- 1 Construction Started
- 0 Construction Completed
- 0 Project(s) Deferred/Deauthorized

**Priority List 15**

Bayou Lamoque Freshwater Diversion TRANSFER	BRET	PLAQ	620				\$1,205,354	\$9,510	0.8	\$9,510 \$9,510
<b>Status:</b>	Project was deauthorized by the Task Force on October 25, 2007.									

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
**Project Status Summary Report - Lead Agency: ENVIRONMENTAL PROTECTION AGENCY (EPA)**

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
Venice Ponds Marsh Creation and Crevasses INACTIVE	DELTA	PLAQ		19-Jun-2009 A	01-Sep-2013 *	01-Sep-2014	\$1,074,522	\$1,074,522	100.0	\$922,576 \$490,532
	<b>Status:</b>	Phase 2 funding was requested, but not recommended, at the December 2012 Technical Committee Meeting. Sponsors will determine whether future Phase 2 requests will be made.								
Total Priority List			15	620			\$2,279,876	\$1,084,032	47.5	\$932,086 \$500,042

- 2 Project(s)
- 1 Cost Sharing Agreements Executed
- 0 Construction Started
- 0 Construction Completed
- 1 Project(s) Deferred/Deauthorized

**Priority List 16**

Enhancement of Barrier Island Vegetation Demo	COAST	COAST	0	27-Jul-2007 A	14-Jun-2010 A	31-Dec-2010 A	\$919,599	\$919,599	100.0	\$1,054,959 \$736,686
	<b>Status:</b>	A draft final report was received and reviewed, with minimal comments. Subsequently, a final report was completed.								
Total Priority List			16	0			\$919,599	\$919,599	100.0	\$1,054,959 \$736,686

- 1 Project(s)
- 1 Cost Sharing Agreements Executed
- 1 Construction Started
- 1 Construction Completed
- 0 Project(s) Deferred/Deauthorized

**Priority List 17**

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
**Project Status Summary Report - Lead Agency: ENVIRONMENTAL PROTECTION AGENCY (EPA)**

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
Bohemia Mississippi River Reintroduction DEAUTHORIZED	BRET	PLAQ		16-Jul-2008 A			\$1,359,699	\$414,418	30.5	\$414,418 \$414,418
	<b>Status:</b>	Project delayed due to considerations of State Master Plan consistency. Project deauthorization process to be initiated pending direction of Task Force vote.								
Total Priority List		17					\$1,359,699	\$414,418	30.5	\$414,418 \$414,418

- 1 Project(s)
- 1 Cost Sharing Agreements Executed
- 0 Construction Started
- 0 Construction Completed
- 1 Project(s) Deferred/Deauthorized

**Priority List 18**

Bertrandville Siphon DEAUTHORIZED	BRET	PLAQ		15-Jun-2011 A	01-Jun-2015	01-Jun-2017	\$2,129,816	\$2,129,816	100.0	\$1,819,047 \$477,683
	<b>Status:</b>	Project delays due to considerations of State Master Plan consistency and pursuit of landowner support.								
Total Priority List		18					\$2,129,816	\$2,129,816	100.0	\$1,819,047 \$477,683

- 1 Project(s)
- 1 Cost Sharing Agreements Executed
- 0 Construction Started
- 0 Construction Completed
- 1 Project(s) Deferred/Deauthorized

**Priority List 22**

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
**Project Status Summary Report - Lead Agency: ENVIRONMENTAL PROTECTION AGENCY (EPA)**

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
Bayou Dupont Sediment Delivery-Marsh Creation 3	BARA	PLAQ	383	23-Aug-2013 A			\$38,279,163	\$3,415,930	8.9	\$0 \$0
	<b>Status:</b>	The Cooperative Agreement was effective on 8/23/2013. Engineering and Design are underway including data collection. The Geotech notice to proceed has been issued but is currently on hold pending a permit from USACE. Moffit and Nichol is assisting CPRA with the design of the project. Currently estimating a July 2014 date for a 30% E&D review meeting.								
Total Priority List		22	383				\$38,279,163	\$3,415,930	8.9	\$0 \$0

- 1 Project(s)
- 1 Cost Sharing Agreements Executed
- 0 Construction Started
- 0 Construction Completed
- 0 Project(s) Deferred/Deauthorized

**Priority List 23**

Caminada Headlands Back Barrier Marsh Creation	BARA		181				\$31,034,094	\$3,354,935	10.8	\$2,961,723 \$0
	<b>Status:</b>									
Total Priority List		23	181				\$31,034,094	\$3,354,935	10.8	\$2,961,723 \$0

- 1 Project(s)
- 0 Cost Sharing Agreements Executed
- 0 Construction Started
- 0 Construction Completed
- 0 Project(s) Deferred/Deauthorized

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
**Project Status Summary Report - Lead Agency: ENVIRONMENTAL PROTECTION AGENCY (EPA)**

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
<b>Total</b>	<b>ENVIRONMENTAL PROTECTION AGENCY, REGION 6</b>		4,620				\$238,684,428	\$175,294,738	73.4	\$154,855,028 \$141,720,868

- 24 Project(s)
- 21 Cost Sharing Agreements Executed
- 9 Construction Started
- 7 Construction Completed
- 11 Project(s) Deferred/Deauthorized

Notes:

1. Expenditures based on Corps of Engineers financial data.
2. Date codes: A = Actual date \* = Behind schedule
3. Percent codes: ! = 125% of baseline estimate exceeded

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
**Project Status Summary Report - Lead Agency: DEPT. OF THE INTERIOR (FWS)**

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	

**Lead Agency: DEPT. OF THE INTERIOR, FISH & WILDLIFE SERVICE**

**Priority List 1**

Bayou Sauvage National Wildlife Refuge Hydrologic Restoration, Phase 1	PONT	ORL	1,550	17-Apr-1993 A	01-Jun-1995 A	30-May-1996 A	\$1,657,708	\$1,680,193	101.4	\$1,633,234 \$1,400,943
<p><b>Status:</b> Construction was completed in May 1996. The Operation and Maintenance Plan was approved in October 2004. The FWS is the lead O&amp;M agency for this project in coordination with the State Coastal Protection and Restoration Authority (CPRA).</p> <p>The Corps of Engineers removed the two 30-inch diameter CWPPRA-constructed pumping stations in 2010 and replaced them in December 2011. This was done because larger pumps were needed to accommodate the larger hurricane protection levees modified in 2011.</p>										
Cameron Creole Plugs	CA/SB	CAMER	865	17-Apr-1993 A	01-Oct-1996 A	28-Jan-1997 A	\$660,460	\$1,146,585	173.6 !	\$1,093,774 \$1,079,096
<p><b>Status:</b> The Cameron-Creole Plugs project was constructed on February 1, 1997. The Fish and Wildlife Service and the State Coastal Protection and Restoration Authority (CPRA) finalized an Operation and Maintenance Plan in 2002. The CPRA will be responsible for project maintenance.</p>										
Cameron Prairie National Wildlife Refuge Shoreline Protection	MERM	CAMER	247	17-Apr-1993 A	19-May-1994 A	09-Aug-1994 A	\$1,177,668	\$1,227,123	104.2	\$1,064,845 \$1,054,719
<p><b>Status:</b> The 20-year project end date is August 9, 2014. A decision will be made in the near future concerning project close-out. To date no maintenance has been needed and \$39,963 expended on O&amp;M inspections. The Corps installed warning signs in 2001 due to navigation complaints the rock was obscured by vegetation. The rock dike is not within the GIWW navigation channel. Those signs are not a project feature for maintenance. The 2012 O&amp;M inspection reported that the rock dike is in good condition.</p> <p>Two small sections of lower rock allowing water exchange were noted during the March 2012 O&amp;M inspection, but there was no need of maintenance at that time. Those low areas were noted in previous inspections.</p>										
Sabine National Wildlife Refuge Erosion Protection	CA/SB	CAMER	5,542	17-Apr-1993 A	24-Oct-1994 A	01-Mar-1995 A	\$4,895,780	\$1,602,656	32.7	\$1,324,713 \$1,309,987
<p><b>Status:</b></p> <p>The Fish and Wildlife Service and the LA Dept.of Natural Resources are finalizing a draft Operation and Maintenance Plan. The LDNR will be responsible for project maintenance</p>										

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
**Project Status Summary Report - Lead Agency: DEPT. OF THE INTERIOR (FWS)**

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
Total Priority List		1	8,204				\$8,391,616	\$5,656,557	67.4	\$5,116,566 \$4,844,745
4 Project(s)										
4 Cost Sharing Agreements Executed										
4 Construction Started										
4 Construction Completed										
0 Project(s) Deferred/Deauthorized										

**Priority List 2**

Bayou Sauvage National Wildlife Refuge Hydrologic Restoration, Phase 2	PONT	ORL	1,280	30-Jun-1994 A	15-Apr-1996 A	28-May-1997 A	\$1,452,035	\$1,692,552	116.6	\$1,549,440 \$1,442,643
	<b>Status:</b>	Construction was completed on March 18, 1997 and accepted at a final inspection on May 28, 1997. The Operation and Maintenance Plan was approved in October 2004. The FWS is the lead O&M agency for this project. The Corps of Engineers removed the two 33-inch diameter CWPPRA-constructed pumping stations in 2010 and replaced them in December 2011. This was done because larger pumps were needed to accommodate the larger hurricane protection levees modified in 2011.								
Total Priority List		2	1,280				\$1,452,035	\$1,692,552	116.6	\$1,549,440 \$1,442,643
1 Project(s)										
1 Cost Sharing Agreements Executed										
1 Construction Started										
1 Construction Completed										
0 Project(s) Deferred/Deauthorized										

**Priority List 3**

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
**Project Status Summary Report - Lead Agency: DEPT. OF THE INTERIOR (FWS)**

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
Sabine Refuge Structure Replacement (Hog Island)	CA/SB	CAMER	953	26-Oct-1996 A	01-Nov-1999 A	10-Sep-2003 A	\$4,581,454	\$5,709,299	124.6	\$5,724,454 \$5,443,741

**Status:** Sabine Refuge Structure Replacement Project

Status January 2008

Construction began the week of November 1, 1999, dedicated in December 2000, and completed June 2001. The structures were installed and semi-operational by the following dates: Headquarters Canal structure - February 9, 2000; Hog Island Gully structure - August 2000; and the West Cove structure - June 2001.

Initially electrical problems were caused because the 3-Phase electrical service to the structures was not the proper 3-Phase. Transformers and filters were added to the structures in December 2001. Problems continued with motors running in reverse until 2002. The structures continued to operate incorrectly in the automatic mode because the correct "3-Phase" electricity was not available.

Rotary phase converters, installed in September 2003, eliminated motor reversal and other problems for an estimated cost of \$20,000 for the Hog Island Gully and West Cove structure sites.

Continued Problems at the Hog Island Gully Structure during 2004

All structures, except for one bay of the Hog Island Gully structure, were fully operational until late October 2004. But since that time, both the Hog Island Gully and the West Cove structures have been having operation problems.

The Monitoring Plan was approved on June 17, 1999.

The Operation and Maintenance Plan was approved by the FWS and DNR in June 23, 2004. The Service will be responsible for all structure operations and minor maintenance and DNR will be responsible for the larger maintenance items.

Current Structure Operations and Repair Post Hurricane Rita

Hurricane Rita in October 2005 overtopped the structures and damaged the electric motors, guard rails and other equipment. The structures have been operated in the partially open mode until repairs can be made. Some FEMA funds have been received by DNR for repair of Hurricane Rita damage. Other funds from the Fish and Wildlife Service are also being used for structure repair and upgrade. Repair and upgrading is currently in contracting with the TVA handling contract administration for the Service.

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
**Project Status Summary Report - Lead Agency: DEPT. OF THE INTERIOR (FWS)**

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
Total Priority List		3	953				\$4,581,454	\$5,709,299	124.6	\$5,724,454 \$5,443,741
<ul style="list-style-type: none"> <li>1 Project(s)</li> <li>1 Cost Sharing Agreements Executed</li> <li>1 Construction Started</li> <li>1 Construction Completed</li> <li>0 Project(s) Deferred/Deauthorized</li> </ul>										

**Priority List 5**

Grand Bayou Hydrologic Restoration DEAUTHORIZED	TERRE	LAFOU		28-May-2004 A			\$5,135,468	\$1,452,357	28.3	\$1,452,357 \$1,452,357
<p><b>Status:</b> Based on hydrologic modeling results, the project would result in net salinity increases rather than decreases. Staff of the Pointe au Chene Wildlife Management Area, DNR, and USFWS have agreed to begin pursuing project de-authorization.</p>										

Total Priority List		5					\$5,135,468	\$1,452,357	28.3	\$1,452,357 \$1,452,357
<ul style="list-style-type: none"> <li>1 Project(s)</li> <li>1 Cost Sharing Agreements Executed</li> <li>0 Construction Started</li> <li>0 Construction Completed</li> <li>1 Project(s) Deferred/Deauthorized</li> </ul>										

**Priority List 6**

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
**Project Status Summary Report - Lead Agency: DEPT. OF THE INTERIOR (FWS)**

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/Expenditures	
				CSA	Const Start	Const End	Baseline	Current	%		
Lake Boudreaux Freshwater Introduction	TERRE	TERRE	266	22-Oct-1998 A	01-Jun-2013 *	01-Oct-2014	\$9,831,306	\$20,048,152	203.9 !	\$3,237,396 \$3,107,784	
<p><b>Status:</b> Acquisition of new appraisals and associated plats has delayed landrights work. The updated appraisals have been incorporated into the final landrights documents which are being submitted to property owners for execution. Review of the permit application has been put on hold until the permitting agencies conclude how to address the concurrent Parish proposal for a forced drainage project along the east flank of Bayou Grand Caillou (in the project area).</p>											
Nutria Harvest for Wetland Restoration Demo	COAST	COAST	0	27-Oct-1998 A	20-Sep-1998 A	30-Oct-2003 A	\$2,140,000	\$806,220	37.7	\$806,220 \$806,220	
<p><b>Status:</b> Nutria Harvest Demonstration Project</p> <p>Status July 2005</p> <p>From April through June 2003 the following activities were completed: Promotional Events: 1) Chef Parola demonstrated nutria meat preparation and organized judging for the U. S. Army Corps of Engineers annual "Earth Day Celebration" in New Orleans, 2) LDWF assisted Chef Kevin Diez by providing nutria meat for the Baton Rouge Family Fun Fair, and 3) LDWF provided nutria sausage to the Opelousas Chamber of Commerce for a national cycling event.</p> <p>LDWF contracted with Firefly Digital to upgrade the Nutria Website "www.nutria.com" to be completed in September 2003. The upgrade will provide easier site navigational access and more accurate and rapid user information.</p> <p>This project was completed in October 2003. The project sponsors have completed project close-out activities.</p>											
Total Priority List			6	266				\$11,971,306	\$20,854,372	174.2	\$4,043,616 \$3,914,004

- 2 Project(s)
- 2 Cost Sharing Agreements Executed
- 1 Construction Started
- 1 Construction Completed
- 0 Project(s) Deferred/Deauthorized

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
**Project Status Summary Report - Lead Agency: DEPT. OF THE INTERIOR (FWS)**

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
Sabine Refuge Marsh Creation, Cycles 4 & 5	CA/SB	CAMER	331	06-May-2014 A	01-Aug-2014 *		\$10,328,064	\$10,169,154	98.5	\$4,362,793 \$0
	<b>Status:</b>	This project has completed all steps to be advertised for construction. The Corps has scheduled this project to be advertised in early May 2014.								
Total Priority List		8	331				\$10,328,064	\$10,169,154	98.5	\$4,362,793 \$0

- 1 Project(s)
- 1 Cost Sharing Agreements Executed
- 0 Construction Started
- 0 Construction Completed
- 0 Project(s) Deferred/Deauthorized

**Priority List 9**

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
**Project Status Summary Report - Lead Agency: DEPT. OF THE INTERIOR (FWS)**

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
Freshwater Introduction South of Highway 82	MERM	CAMER	296	12-Sep-2000 A	01-Sep-2005 A	13-Dec-2006 A	\$6,051,325	\$5,159,594	85.3	\$5,052,490 \$5,052,455

**Status:**

Highway 82 Freshwater Introduction

Status July 2005

The project was approved for Phase I engineering and design on January 11, 2000. An initial implementation meeting was held in April 2000; field trips were held in May and June 2000. The FWS/DNR Cost Share Agreement was signed on September 12, 2000. Elevational surveys of marsh levels and existing water monitoring stations and control points were completed by Lonnie Harper and Associates on October 26, 2000.

A hydrologic study of the project area entitled, "Analysis of Water Level Data from Rockefeller Refuge and the Grand and White Lakes Basin" was submitted by Erick Swenson (LSU Coastal Ecology Institute) in October 2001. That report concluded that a "precipitation-induced" water level gradient (0.6 feet or greater 50% of the time) existed between marshes north of Highway 82 and the target marshes in the Rockefeller Refuge south of that highway. That gradient was 1.5 feet or greater 30% of the time. Marsh levels varied from 1.0 to 1.2 feet NAVD88 north and to 1.0 to 1.4 feet NAVD88 south of Highway 82. The project hydrology has been modeled by Fenstermaker and Associates as described below.

**Hydrodynamic Modeling Study**

Fenstermaker and Associates began a hydrodynamic modeling study of the project on January 28, 2002. A model set-up interagency meeting was held May 24, 2002. The one-dimensional "Mike 11" model was used for the analysis. Model calibration and verification were completed November 21, 2002, and December 12, 2002 respectively. A draft modeling report was presented in April 2003, and a final report was presented in September 2003.

**Model Results**

The model indicated that the project, with a number of original features removed or reduced, would significantly flow freshwater south of Hwy 82 to reduce salinities in the project area. The model results suggested the following modifications to the conceptual project; 1) removal of the Boundary Line borrow canal plug, 2) removal of the northeastern north-south canal, 3) removal of 2 of the recommended four 3-48 inch-diameter-culverted structures along the boundary canal, 4) relocate the new Dyson structure to the north, and 5) removal of the Big Constance structure modification feature. The incorporation of these recommendations would significantly reduce project costs.

**30% Design Review Meeting**

A favorable 30% Design Review meeting was held on May 14, 2003 with USFWS concurrence to proceed to final design. On July 10, 2003 the LA Department of Natural Resources gave concurrence to proceed with project construction.

**NEPA Review**

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
**Project Status Summary Report - Lead Agency: DEPT. OF THE INTERIOR (FWS)**

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
<p>The Corps and LA Dept of Natural Resources permit and consistency applications were submitted on January 30, 2004. DNR's initial and modified Consistency Determinations were received on March 11, 2004, and June 3, 2004 respectively. The modified Corps permit applications were submitted May 27, 2004. The Corps public notices were issued on June 18, 2004. LA Dept. of Transportation letters of no objection were received on October 2, 2003, February 2, 2004, and April 19, 2004. The Corps Section 404 permits were received on March 10 and March 18, 2005. The draft Environmental Assessment was submitted for agency review on September 10, 2004, and the Final Environmental Assessment and Finding of No Significant Impact was distributed on April 12, 2005.</p> <p>Phase II Construction Items</p> <p>A successful 95% Design Review Meeting was held on August 11, 2004. The NRCS Overgrazing Determination was received December 1, 2003. The Corps Section 303(e) Determination received from the Corps on May 6, 2004. Landrights were certified by the LA DNR as completed on May 10, 2004.</p> <p>Phase II construction funding approval was received at the October 2004 Task Force meeting.</p> <p>Construction bids were received by June 21, 2005. Construction is anticipated to begin by July 15, 2005.</p>										
Mandalay Bank Protection Demo	TERRE	TERRE	0	06-Dec-2000 A	25-Apr-2003 A	01-Sep-2003 A	\$1,194,495	\$1,732,498	145.0 !	\$1,732,498 \$1,732,498
	<b>Status:</b>	Construction was completed 9/1/2003.								
Total Priority List			9	296			\$7,245,820	\$6,892,092	95.1	\$6,784,988 \$6,784,953

- 2 Project(s)
- 2 Cost Sharing Agreements Executed
- 2 Construction Started
- 2 Construction Completed
- 0 Project(s) Deferred/Deauthorized

**Priority List 10**

Delta Management at Fort St. Philip	BRET	PLAQ	267	16-May-2001 A	19-Jun-2006 A	14-Dec-2006 A	\$3,183,940	\$2,219,860	69.7	\$1,679,376 \$1,670,543
	<b>Status:</b>	A crevasse maintenance event is currently in design and scheduled for 2015.								

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
**Project Status Summary Report - Lead Agency: DEPT. OF THE INTERIOR (FWS)**

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
East Sabine Lake Hydrologic Restoration	CA/SB	CAMER	225	17-Jul-2001 A	01-Dec-2004 A	11-Aug-2009 A	\$6,490,751	\$4,944,870	76.2	\$4,681,663 \$4,650,982

**Status:**

East Sabine Lake Hydrologic Restoration Project

Status January 2008

A joint FWS- NRCS-DNR cost-share agreement was completed on July 17, 2001. Phase I E&D funding and Phase II construction funding were approved by the Task Force on January 10, 2001, and November 2003 respectively.

Hydrodynamic Modeling Study

FTN completed hydrodynamic modeling for the proposed water control structures at Right Prong, Greens, Three and Willow Bayous. Phase I hydrodynamic modeling consisted of reconnaissance, data acquisition, model selection, and model geometry establishment. Nine data recorders were deployed for a 16-month period (February 2002 to June 2003) for modeling purposes. Surveys were completed by May 2002.

The "East Sabine Lake Hydrologic Restoration Hydrodynamic Modeling Study Phase II: Calibration and Verification Report," "Historical Data Review Modeling Phase III Data and Final Report," and the "Phase III Determination of Boundary Conditions for Evaluating Project Alternatives" were completed October 5, 2004. With-project model runs that included modeling of fixed crest weirs with boat bays (10 feet wide by 4 feet deep) at Willow, Three, Greens and Right Prong Black Bayous were completed.

Hydrodynamic modeling results predicted that the proposed structures would have very little effects in reducing project area salinities.

Construction

The construction contract was awarded in December 2004, and the first portion of Construction Unit 1 was completed in October 2006. The following project features have been constructed: 1) Pines Ridge Bayou weir, 2) Bridge Bayou culverts, 3) 171,000 linear feet of earthen terraces in the Greens Lake area, 4) 3,000 linear feet of rock breakwater, with 50-foot wide gaps, at the eastern Sabine Lake shoreline beginning at Willow Bayou, and, 5) a rock weir in SE Section 16.

Project Modifications

11 miles (58,100 linear feet) of planned Sabine Lake shoreline plantings were removed and more earthen terraces were added using vegetative planting funds because of an unsuccessful 7,500 linear foot test planting along the Sabine Lake shoreline conducted by the State Soil and Water Conservation District and the NRCS.

The CWPPRA Task Force approved adding 50,000 linear feet of terraces, constructing 4, 50-foot-wide gaps in the rock breakwater, and deleting Construction Unit 2 components in October 2006. Discontinuing further CU 2 design was based on recent hydrodynamic modeling results, an examination of historic salinity data, and possible structure negative impacts.

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
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PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
Current Construction										
<p>The Pines Bayou weir was rehabilitated in August 2007 due to heavy damage caused by Hurricane Rita. Four 50-foot wide gaps were also installed in August 2007, in the 3,000 foot-long rock breakwater near Willow Bayou. A contract for 50,000 linear feet of additional earthen terraces was advertised in fall 2007 and the low bidder notified in January 2008. Construction should begin in spring 2008.</p>										
Grand-White Lake Landbridge Restoration	MERM	CAMER	213	24-Jul-2001 A	10-Jul-2003 A	01-Oct-2004 A	\$9,635,224	\$4,929,522	51.2	\$3,742,674 \$3,700,645
<b>Status:</b>										
Grand-White Lakes Land Bridge Restoration										
Status July 2005										
Phase 1 engineering and design funding was approved by the Task Force on January 10, 2001. The LDNR/ USFWS Cost Share Agreement was executed on July 24, 2001. LDNR certified landrights completion on December 12, 2001.										
Project sponsors received Phase II construction funding approval from the CWPPRA Task Force on August 7, 2002. All of the CWPPRA and NEPA project construction requirements have been completed; 1.) the NRCS Overgrazing Determination (August 30, 2002), 2) LA state Coastal Zone Consistency Determination (September 19, 2002), 3) the LA Department of Environmental Quality Water Quality Certification (October 28, 2002), 4) the Environmental Assessment (November 19, 2002), 5) the Corps' CWPPRA Section 303(e) Determination (December 2002), and 6) the Corps' Section 404 Permit (December 2002). A favorable 95% Design Review Conference was held September 12, 2002.										
The project construction contract for Construction Unit 1 (Grand Lake rock shoreline stabilization) was awarded in June 2003, the Notice to Proceed was issued on July 10, 2003, and construction for that phase was completed in October 2003. Construction Unit 2 (Collicon Lake Terraces) construction began in early July 2004 and was completed in October 2004. The project ground breaking was held August 15, 2003.										
Operation and maintenance post construction field trips in February and April 2005 indicated that Construction Unit 1 - the Grand Lake shoreline rock dike and marsh creation is performing well. The rock has not subsided and a small strip of wetland was created between the rock and the shoreline with spoil from access channel dredging. Construction Unit 2 terraces have experienced post construction erosion. The Collicon Lake lake-ward terrace tops have eroded approximately 66% since project construction. Most of the lake-ward planted giant cutgrass vegetation has eroded and a cut bank remains. Most of the inner shoreward terraces are holding up well with giant cutgrass vegetation growing and expanding. Nutria herbivory of the planted vegetation on the northern and northwestern Collicon Lake terraces has been observed.										

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
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PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
North Lake Mechant Landbridge Restoration	TERRE	TERRE	604	16-May-2001 A	01-Apr-2003 A	16-Dec-2009 A	\$31,727,917	\$34,708,825	109.4	\$34,242,248 \$34,235,204
<b>Status:</b> Construction of this project has been completed. This project is now in the Operation and Maintenance Phase.										
Terrebonne Bay Shore Protection Demo	COAST	TERRE	0	24-Jul-2001 A	25-Aug-2007 A	19-Dec-2007 A	\$2,006,424	\$2,747,094	136.9 !	\$2,465,239 \$2,459,632
<b>Status:</b> Final inspection of this project was completed by FWS and DNR on December 19, 2007 and we could find no apparent problems. Since that date, the landowner has requested additional navigation aids in the form of PVC pipe with reflective tape. This will be done ASAP.										
I would have to say that this project faced some particularly difficult problems in getting a bid that was within budget (went to bid 4 times right after the hurricanes). DNR/Thibobaux Field Office was up for the job I would like to say that they worked quickly on all aspects of this project. I would like to personally thank them for not giving up on the project and for what I would consider a job very well done....										
THANK YOU for a great job.										
Total Priority List		10	1,309				\$53,044,256	\$49,550,171	93.4	\$46,811,202 \$46,717,007

- 5 Project(s)
- 5 Cost Sharing Agreements Executed
- 5 Construction Started
- 5 Construction Completed
- 0 Project(s) Deferred/Deauthorized

**Priority List 11**

Dedicated Dredging on the Barataria Basin Landbridge	BARA	JEFF	242	03-Apr-2002 A	11-Sep-2008 A	15-Apr-2010 A	\$17,672,811	\$15,884,605	89.9	\$15,681,387 \$15,669,407
<b>Status:</b> The project was completed in 2010. A survey of the marsh platform was completed in 2014.										

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
**Project Status Summary Report - Lead Agency: DEPT. OF THE INTERIOR (FWS)**

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
South Grand Chenier Hydrologic Restoration	MERM	CAMER	414	03-Apr-2002 A	01-Jun-2015	01-Mar-2016	\$22,623,346	\$22,282,940	98.5	\$1,770,769 \$1,745,781
	<b>Status:</b>	The project was approved for construction on January 20, 2014, by the CWPPRA Task Force.								
		An implementation meeting and field trip was held on March 13, 2002. The final hydrodynamic modeling report was completed in September 2004. Design surveying was completed September 2007. A wave analysis model and geotechnical investigations were completed in 2008. Landrights meetings were held between project sponsors and the major landowners in 2002, 2003, and 2006. Preliminary design (30%) and 95% Design Review meetings were held on August 6, 2009, and November 3, 2009, respectively. Phase II construction approval was approved by the Task Force on January 20, 2010. Due to the inability to receive landrights approvals from two of the seven major landowners, project construction funds were returned to the CWPPRA Program at the January 19, 2012, Task Force meeting. Landrights were finalized in 2012 and construction approval was again received in January 2014. A project scope change to remove the freshwater introduction feature was approved in December 2012.								
West Lake Boudreaux Shoreline Protection & Marsh Creation	TERRE	TERRE	277	03-Apr-2002 A	24-Jul-2007 A	04-Apr-2011 A	\$17,519,731	\$17,618,073	100.6	\$15,902,994 \$15,896,804
	<b>Status:</b>	Construction of this project is complete. TE-46 is now in the Operation and Maintenance phase.								
Total Priority List		11	933				\$57,815,888	\$55,785,618	96.5	\$33,355,150 \$33,311,992

- 3 Project(s)
- 3 Cost Sharing Agreements Executed
- 2 Construction Started
- 2 Construction Completed
- 0 Project(s) Deferred/Deauthorized

**Priority List 13**

Goose Point/Point Platte Marsh Creation	PONT	STTAM	436	14-May-2004 A	02-Apr-2008 A	12-Feb-2009 A	\$21,067,777	\$14,558,123	69.1	\$13,725,923 \$13,716,120
	<b>Status:</b>	The project was completed in 2009. Surveys of the marsh platform are being conducted in 2014 along with vegetative plantings.								

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
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PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
Total Priority List		13	436				\$21,067,777	\$14,558,123	69.1	\$13,725,923 \$13,716,120
1 Project(s) 1 Cost Sharing Agreements Executed 1 Construction Started 1 Construction Completed 0 Project(s) Deferred/Deauthorized										

**Priority List 15**

Lake Hermitage Marsh Creation	BARA	PLAQ	447	28-Mar-2006 A	24-Feb-2012 A	01-Sep-2014	\$38,040,158	\$37,968,898	99.8	\$9,940,796 \$9,901,331
<b>Status:</b> The project has been expanded by 246 acres. The expected completion date is September 2014.										

Total Priority List		15	447				\$38,040,158	\$37,968,898	99.8	\$9,940,796 \$9,901,331
1 Project(s) 1 Cost Sharing Agreements Executed 1 Construction Started 0 Construction Completed 0 Project(s) Deferred/Deauthorized										

**Priority List 17**

South Lake Lery Shoreline and Marsh Restoration	BRET	MULTI	409	19-Feb-2008 A	01-Apr-2014 *	01-Apr-2014 *	\$32,466,987	\$32,238,260	99.3	\$30,699,883 \$1,958,787
<b>Status:</b> A bid was awarded for this project, but was rescinded due to a protest submitted by a competing company. This project must now be rebid which is scheduled to take place June 1, 2014. The bid advertisement will be closed July 15, 2014 with a bid awarded in Oct. 2014.										

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
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PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
Total Priority List		17	409				\$32,466,987	\$32,238,260	99.3	\$30,699,883 \$1,958,787
<ul style="list-style-type: none"> <li>1 Project(s)</li> <li>1 Cost Sharing Agreements Executed</li> <li>0 Construction Started</li> <li>0 Construction Completed</li> <li>0 Project(s) Deferred/Deauthorized</li> </ul>										

**Priority List 19**

Lost Lake Marsh Creation and Hydrologic Restoration	TERRE	TERRE	452	22-Apr-2010 A	01-Jan-2015	01-Jan-2016	\$34,626,728	\$34,626,728	100.0	\$803,921 \$765,116
<p><b>Status:</b> The project received Phase 2 approval in January 2013. Landrights agreements have not been signed between the State and the landowner. Landrights negotiations continue and will hopefully be resolved in 2014.</p>										
Total Priority List		19	452				\$34,626,728	\$34,626,728	100.0	\$803,921 \$765,116

- 1 Project(s)
- 1 Cost Sharing Agreements Executed
- 0 Construction Started
- 0 Construction Completed
- 0 Project(s) Deferred/Deauthorized

**Priority List 20**

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
**Project Status Summary Report - Lead Agency: DEPT. OF THE INTERIOR (FWS)**

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
Bayou Bonfouca Marsh Creation	PONT	S TTAM	478	14-Mar-2011	A		\$23,875,866	\$23,553,196	98.6	\$531,533 \$521,876
	<b>Status:</b>	A cultural resource field survey is currently underway for this project. We are also consulting with the Louisiana Wildlife and Fisheries on a Scenic River permit. We have submitted to the Corps a 404 application but are currently involved in Section 7 consultation with NOAA Fisheries and Fish and Wildlife Service concerning the Gulf sturgeon. At this time we are conducting a bottom grab sample survey in the proposed borrow area located in Lake Pontchartrain, and dissolved oxygen monitoring in the Point Platt borrow area also located in Lake Pontchartrain. We are also using computer modeling to calculate if there would be any effects of differing sides-slopes, dredging depths, and borrow site orientations concerning the dissolved oxygen levels within our proposed Lake Pontchartrain borrow site.								
Cameron-Creole Watershed Grand Bayou Marsh Creation	CA/SB	CAMER	476	24-Oct-2011	A		\$23,405,612	\$2,376,789	10.2	\$507,137 \$454,702
	<b>Status:</b>	95% Design Review completed in October 2013. Phase II construction funds will be requested in December 2014.								
Terrebonne Bay Marsh Creation-Nourishment	TERRE	TERRE	353				\$27,414,402	\$2,901,750	10.6	\$628,728 \$536,321
	<b>Status:</b>	Currently the project team is collecting geotech and survey data that will help engineers design the project and further clarify the location of certain project features.								
Total Priority List		20	1,307				\$74,695,880	\$28,831,735	38.6	\$1,667,398 \$1,512,899

- 3 Project(s)
- 2 Cost Sharing Agreements Executed
- 0 Construction Started
- 0 Construction Completed
- 0 Project(s) Deferred/Deauthorized

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
**Project Status Summary Report - Lead Agency: DEPT. OF THE INTERIOR (FWS)**

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
Northwest Turtle Bay Marsh Creation	BARA	JEFF	407	10-May-2012 A	01-Jan-2015		\$23,198,757	\$2,354,788	10.2	\$1,328,031 \$681,019
	<b>Status:</b>	A 30% design meeting was held on March 27, 2014. A 95% meeting is scheduled for October 2014. Phase 2 request is planned for December 2014.								
Total Priority List		21	407				\$23,198,757	\$2,354,788	10.2	\$1,328,031 \$681,019

- 1 Project(s)
- 1 Cost Sharing Agreements Executed
- 0 Construction Started
- 0 Construction Completed
- 0 Project(s) Deferred/Deauthorized

**Priority List 22**

Terracing & Marsh Creation South of Big Mar	BARA	PLAQ	303	31-Oct-2013 A			\$23,692,705	\$2,308,599	9.7	\$1,359,094 \$30,713
	<b>Status:</b>									
Total Priority List		22	303				\$23,692,705	\$2,308,599	9.7	\$1,359,094 \$30,713

- 1 Project(s)
- 1 Cost Sharing Agreements Executed
- 0 Construction Started
- 0 Construction Completed
- 0 Project(s) Deferred/Deauthorized

**Priority List 23**

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
**Project Status Summary Report - Lead Agency: DEPT. OF THE INTERIOR (FWS)**

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
Bayou Grande Cheniere Marsh & Ridge Restoration	BARA		264				\$29,104,945	\$3,038,141	10.4	\$0
	<b>Status:</b>									\$0
Total Priority List			23				\$29,104,945	\$3,038,141	10.4	\$0
										\$0
<ul style="list-style-type: none"> <li>1 Project(s)</li> <li>0 Cost Sharing Agreements Executed</li> <li>0 Construction Started</li> <li>0 Construction Completed</li> <li>0 Project(s) Deferred/Deauthorized</li> </ul>										
<b>Total</b>	<b>DEPT. OF THE INTERIOR, FISH &amp; WILDLIFE SERVICE</b>		<b>17,597</b>				<b>\$436,859,844</b>	<b>\$313,687,445</b>	<b>71.8</b>	<b>\$168,725,612</b> <b>\$132,477,426</b>
<ul style="list-style-type: none"> <li><b>30 Project(s)</b></li> <li><b>28 Cost Sharing Agreements Executed</b></li> <li><b>18 Construction Started</b></li> <li><b>17 Construction Completed</b></li> <li><b>1 Project(s) Deferred/Deauthorized</b></li> </ul>										

Notes:

1. Expenditures based on Corps of Engineers financial data.
2. Date codes: A = Actual date \* = Behind schedule
3. Percent codes: ! = 125% of baseline estimate exceeded

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
**Project Status Summary Report - Lead Agency: DEPT. OF COMMERCE (NMFS)**

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	

**Lead Agency: DEPT. OF COMMERCE, NATIONAL MARINE FISHERIES SERVICE**

**Priority List 1**

Fourchon Hydrologic Restoration DEAUTHORIZED	TERRE	LAFOU					\$252,036	\$7,703	3.1	\$7,703 \$7,703
	<b>Status:</b>	In a meeting on October 7, 1993, Port Fourchon conveyed to NMFS personnel that any additional work in the project area could be conducted by the Port and they did not wish to see the project pursued because they question its benefits and are concerned that undesired Government / general public involvement would result after implementation.								
		Deauthorized.								
Lower Bayou LaCache Hydrologic Restoration DEAUTHORIZED	TERRE	TERRE		17-Apr-1993 A			\$1,694,739	\$99,625	5.9	\$99,625 \$99,625
	<b>Status:</b>	In a public hearing on September 22, 1993, with landowners in the project area, users strenuously objected to the proposed closure of the two east-west connections between Bayou Petit Caillou and Bayou Terrebonne. NMFS received a letter from LA DNR, dated February 6, 1995, recommending deauthorization of the project. NMFS forwarded the letter to COE for Task Force approval.								
		Deauthorized.								
Total Priority List 1							\$1,946,775	\$107,328	5.5	\$107,328 \$107,328

- 2 Project(s)
- 1 Cost Sharing Agreements Executed
- 0 Construction Started
- 0 Construction Completed
- 2 Project(s) Deferred/Deauthorized

**Priority List 2**

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
**Project Status Summary Report - Lead Agency: DEPT. OF COMMERCE (NMFS)**

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
Atchafalaya Sediment Delivery	ATCH	STMRY	2,232	01-Aug-1994 A	25-Jan-1998 A	21-Mar-1998 A	\$907,810	\$2,455,669	270.5 !	\$2,046,734 \$2,046,734
<p><b>Status:</b> Annual O&amp;M inspections are conducted on the Project. Project goals to increase the distributary potential of Natal Pass and Castille Pass has partially been met. Limited bathymetric data is suggesting partial shoaling at the head of Natal Pass and Castille Pass. More extensive bathymetric survey is currently being discussed for both AT-02 and AT-03. The creation of delta lobe islands with beneficially using dredge material channel excavation has also been met. The creation and enlargement of the delta lobes at these locations indicates that the delta is growing within the project boundaries.</p>										
Big Island Mining	ATCH	STMRY	1,560	01-Aug-1994 A	25-Jan-1998 A	08-Oct-1998 A	\$7,550,903	\$7,003,102	92.7	\$6,638,690 \$6,638,690
<p><b>Status:</b> Project cost increase was approved by the Task Force at the January 16, 1998 meeting.</p> <p>Construction project complete. First costs accounting underway.</p>										
Point Au Fer Canal Plugs	TERRE	TERRE	375	01-Jan-1994 A	01-Oct-1995 A	08-May-1997 A	\$1,069,589	\$5,501,932	514.4 !	\$3,371,556 \$3,360,463
<p><b>Status:</b> Project / Gulf of Mexico shoreline surveys are underway to assist with maintenance recommendations to conduct a rock lift along low areas of PH 2 &amp; 3 and the possible extension of the ends back into the shoreline. This construction activity would likely occur before the Fall of 20112.</p>										
Total Priority List			2	4,167			\$9,528,302	\$14,960,703	157.0	\$12,056,981 \$12,045,887

- 3 Project(s)
- 3 Cost Sharing Agreements Executed
- 3 Construction Started
- 3 Construction Completed
- 0 Project(s) Deferred/Deauthorized

**Priority List 3**

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
**Project Status Summary Report - Lead Agency: DEPT. OF COMMERCE (NMFS)**

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
Bayou Perot/Bayou Rigolettes Marsh Restoration DEAUTHORIZED	BARA	JEFF		03-Mar-1995 A			\$1,835,047	\$20,963	1.1	\$20,963 \$20,963
<p><b>Status:</b> A feasibility study conducted by LA DNR indicated that possible wetlands benefits from construction of this project are questionable. LA DNR has indicated a willingness to deauthorize the project. In April 1996, LA DNR had asked to reconsider the project with potential of combining this with two other projects in the watershed. Project deauthorized at January 16, 1998 Task Force meeting.</p> <p>Deauthorized.</p>										
East Timbalier Island Sediment Restoration, Phase 1	TERRE	LAFOU	1,913	01-Feb-1995 A	01-May-1999 A	01-May-2001 A	\$2,046,971	\$3,621,544	176.9 !	\$3,589,350 \$3,589,350
<p><b>Status:</b> Construction completed in December 1999. Aerial seeding of the dune platform was achieved in spring 2000, and the installation of sand fencing was completed September 30, 2000. Vegetative dune plantings were completed May 1, 2001.</p>										
Lake Chapeau Sediment Input and Hydrologic Restoration	TERRE	TERRE	509	01-Mar-1995 A	14-Sep-1998 A	18-May-1999 A	\$4,149,182	\$6,810,133	164.1 !	\$5,653,040 \$5,605,597
<p><b>Status:</b> Maintenance event to degrade the project feature identified as Weir 3 began on 4/27/2011, and the work was accepted on 6/24/2011.</p>										
Lake Salvador Shore Protection Demo	BARA	STCHA	0	01-Mar-1995 A	02-Jul-1997 A	30-Jun-1998 A	\$1,444,628	\$2,801,782	193.9 !	\$2,801,782 \$2,801,782
<p><b>Status:</b> Phase 1 was completed September 1997. Phase 2 is shoreline protection between Bayou desAllemands and Lake Salvador. Construction began in April 1998 and completed in June 1998. Final first costs have been finalized.</p> <p>Closed out cooperative agreement between NOAA and LADNR. First costs accounting undersay.</p> <p>Project has served its demonstration purpose and is being removed by DNR with O&amp;M funds, summer of 2002.</p>										

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
**Project Status Summary Report - Lead Agency: DEPT. OF COMMERCE (NMFS)**

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
Total Priority List		3	2,422				\$9,475,828	\$13,254,422	139.9	\$12,065,136 \$12,017,693
<ul style="list-style-type: none"> <li>4 Project(s)</li> <li>4 Cost Sharing Agreements Executed</li> <li>3 Construction Started</li> <li>3 Construction Completed</li> <li>1 Project(s) Deferred/Deauthorized</li> </ul>										

**Priority List 4**

East Timbalier Island Sediment Restoration, Phase 2	TERRE	LAFOU	215	08-Jun-1995 A	01-May-1999 A	15-Jan-2000 A	\$5,752,404	\$7,600,150	132.1 !	\$7,543,460 \$7,543,460
<p><b>Status:</b> NOAA and DNR is currently closing out the cooperative agreements for East Tinbalier Island Phase 1 and 2. Considering the damage invoked on the island as a result of Hurricane Lily and Tropical Storm Isadore, future construction will be reassessed pursuant to engineering feasibility and the Phase 2 prioritization process.</p>										
Eden Isles East Marsh Restoration DEAUTHORIZED	PONT	STTAM					\$5,018,968	\$39,025	0.8	\$41,972 \$39,025
<p><b>Status:</b> NMFS letter of September 8, 1997 requested the CWPPRA Task Force to move forward with deauthorization of this project. Bids were placed twice to acquire the land; both times they were rejected due to higher bids by private developers. Project deauthorized at January 16, 1998 Task Force meeting.</p> <p>Deauthorized.</p>										

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
**Project Status Summary Report - Lead Agency: DEPT. OF COMMERCE (NMFS)**

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
Total Priority List		4	215				\$10,771,372	\$7,639,176	70.9	\$7,585,432 \$7,582,485
2 Project(s) 1 Cost Sharing Agreements Executed 1 Construction Started 1 Construction Completed 1 Project(s) Deferred/Deauthorized										

**Priority List 5**

Little Vermilion Bay Sediment Trapping	TECHE	VERMI	441	22-May-1997 A	10-May-1999 A	20-Aug-1999 A	\$940,065	\$886,030	94.3	\$739,126 \$739,126
<b>Status:</b> An O&M inspection was conducted by OCPR on 2-22-11. It was reported that the terraces and vegetation appear to be in good condition. Emergent vegetation was noted to be colonizing in some locations between terraces. The Freshwater Bayou canal bank continues to erode and retreat along the northern edge of the project resulting in some erosion on the ends of those terraces closest to Freshwater Bayou. Near term options to address this issue are currently being considered.										
Myrtle Grove Siphon DEAUTHORIZED	BARA	PLAQ		20-Mar-1997 A			\$15,525,950	\$481,803	3.1	\$481,803 \$481,803
<b>Status:</b> The 5th Priority List authorized funding in the amount of \$4,500,000 for the FY 96 Phase 1 of this project. Priority List 6 authorized funding in the amount of \$6,000,000 for FY 97. Priority List 8 is authorized to fund the remaining \$5,000,000. Total project cost is estimated to be \$15,525,950.  NOAA and LADNR are closing out the cooperative agreement and returning remaining project funds to the CWPPRA program. Project will remain active as authorized.										

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
**Project Status Summary Report - Lead Agency: DEPT. OF COMMERCE (NMFS)**

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
Total Priority List		5	441				\$16,466,015	\$1,367,833	8.3	\$1,220,929 \$1,220,929
<ul style="list-style-type: none"> <li>2 Project(s)</li> <li>2 Cost Sharing Agreements Executed</li> <li>1 Construction Started</li> <li>1 Construction Completed</li> <li>1 Project(s) Deferred/Deauthorized</li> </ul>										

**Priority List 6**

Black Bayou Hydrologic Restoration	CA/SB	CAMER	3,594	28-May-1998 A	01-Jul-2001 A	03-Nov-2003 A	\$6,316,806	\$6,170,284	97.7	\$5,968,682 \$5,958,902
<b>Status:</b> An O&M inspection is scheduled for 5-04-11.										
Delta Wide Crevasses	DELTA	PLAQ	2,386	28-May-1998 A	21-Jun-1999 A	01-May-2005 A	\$5,473,934	\$4,728,319	86.4	\$4,620,922 \$2,344,315
<b>Status:</b> High River stages delayed Project O&M annual inspections until July 19. All crevasses were in good shape. Project design team are in discussions with both USFWS and LDWF to identify the new, and final list of crevasse splays for construction (Phase 3 of 3). It is anticipated that the work could be underway by the end of 2012.										
Sediment Trapping at The Jaws	TECHE	STMAR	1,999	28-May-1998 A	14-Jul-2004 A	19-May-2005 A	\$3,167,400	\$1,653,792	52.2	\$1,373,447 \$1,373,447
<b>Status:</b> An O&M inspection was conducted on 4-05-11. The overall condition of the terraces is good. Evidence of recovery from herbivory was noted, as was colonization of mud flats between terraces and bay shoreline.										

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
**Project Status Summary Report - Lead Agency: DEPT. OF COMMERCE (NMFS)**

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
	Total Priority List	6	7,979				\$14,958,140	\$12,552,395	83.9	\$11,963,051 \$9,676,663
	3	Project(s)								
	3	Cost Sharing Agreements Executed								
	3	Construction Started								
	3	Construction Completed								
	0	Project(s) Deferred/Deauthorized								

**Priority List 7**

Grand Terre Vegetative Plantings	BARA	JEFF	127	23-Dec-1998 A	01-May-2001 A	01-Jul-2001 A	\$928,895	\$346,246	37.3	\$346,246 \$346,246
	<b>Status:</b>	Planting of 3,100 units each of bitter panicum, gulf cordgrass, and marshhay cordgrass on beach nourishment/dune area, and installation of approximately 35,000 smooth cordgrass and 800 black mangrove was completed in June 2001. Monitoring is underway. Project area is being evaluated for additional plantings in 2003/2004.								
Pecan Island Terracing	MERM	VERMI	442	01-Apr-1999 A	15-Dec-2002 A	10-Sep-2003 A	\$2,185,900	\$2,390,984	109.4	\$2,323,315 \$2,323,315
	<b>Status:</b>	An O&M inspection is planned for May 2011.								
	Total Priority List	7	569				\$3,114,795	\$2,737,230	87.9	\$2,669,561 \$2,669,561

- 2 Project(s)
- 2 Cost Sharing Agreements Executed
- 2 Construction Started
- 2 Construction Completed
- 0 Project(s) Deferred/Deauthorized

**Priority List 8**

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
**Project Status Summary Report - Lead Agency: DEPT. OF COMMERCE (NMFS)**

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
Bayou Bienvenue Pump Station Diversion DEAUTHORIZED	PONT	STBER		01-Jun-2000 A			\$3,295,574	\$212,153	6.4	\$212,858 \$212,858
<p><b>Status:</b> Cooperative Agreement awarded in June 1, 2000. Preliminary design analyses indicate that terrace construction significantly more costly than originally estimated due to poor geo-technical condition. The project is estimated to cost between \$17 and \$20 million to build.</p> <p>At the January 16, 2002 Task Force meeting, DNR and NOAA/NMFS requested initiation of the deauthorization procedure. Deauthorization was approved by the Task Force at the April 16, 2002 meeting.</p>										
Hopedale Hydrologic Restoration	PONT	STBER	134	11-Jan-2000 A	10-Jan-2004 A	15-Jan-2005 A	\$2,179,491	\$2,281,287	104.7	\$1,920,267 \$1,910,292
<p><b>Status:</b> Cooperative Agreement was awarded January 11, 2000. Engineering and design is complete, with design surveys, geo-technical investigations and hydrologic modeling complete. Landrights for the major project feature are complete. NEPA compliance and regulatory requirements are complete. A construction contract was awarded in November 2003, and construction was initiated in March 2004. COstruction was completed in January 2005, and the project is currently being operated by St. Bernard Parish under a cooperative agreement with the Louisiana Department of Natural Resources.</p>										

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Total Priority List	8	134					\$5,475,065	\$2,493,439	45.5	\$2,133,125 \$2,123,150
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- 2 Project(s)
- 2 Cost Sharing Agreements Executed
- 1 Construction Started
- 1 Construction Completed
- 1 Project(s) Deferred/Deauthorized

**Priority List 9**

Castille Pass Channel Sediment Delivery DEAUTHORIZED	ATCH	STMRY		29-Sep-2000 A			\$1,484,633	\$1,717,883	115.7	\$1,717,883 \$1,717,883
<p><b>Status:</b> As a result of perceived induced shoaling by the proposed construction features, the COE identified several special conditions for permit issuance. These special award conditions (maintenance dredging for perpetuity) are not yet programmatically approved, thus, the NMFS and OCPR have moved to de-authorize the project.</p>										

## COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

## Project Status Summary Report - Lead Agency: DEPT. OF COMMERCE (NMFS)

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
Chandeaur Islands Marsh Restoration	PONT	STBER	220	10-Sep-2000 A	01-Jun-2001 A	31-Jul-2001 A	\$1,435,066	\$839,927	58.5	\$839,927 \$839,927
	<b>Status:</b>	Cooperative Agreement was awarded September 10, 2000. Vegetative planting is scheduled for spring, 2001, and are phased over two years.								
		Pilot planting project completed in June, 2000. First phase of vegetative plantings completed July 2001 with installation of approximately 80,000 smooth cordgrass plants along 6.6 miles of overwash fan perimeters. Project area is being evaluated for additional plantings in 2003.								
East Grand Terre Island Restoration TRANSFER	BARA	JEFF		21-Sep-2000 A			\$1,856,203	\$2,211,739	119.2	\$2,211,739 \$2,211,739
	<b>Status:</b>	The project is anticipated to be transferred to the CIAP program for construction.								
Four Mile Canal Terracing and Sediment Trapping	TECHE	VERMI	167	25-Sep-2000 A	10-Jun-2003 A	23-May-2004 A	\$5,086,511	\$2,144,037	42.2	\$2,106,787 \$2,079,285
	<b>Status:</b>	An O&M inspection was conducted by OCPR on 2-22-11. OCPR reported the project is showing signs of continued erosion along the 4-Mile canal side of the project on the ends of the terraces. However, at this time an O&M does not appear to be warranted.								
LaBranche Wetlands Terracing, Planting & Shoreline Protection DEAUTHORIZED	PONT	STCHA		21-Sep-2000 A			\$821,752	\$306,836	37.3	\$306,836 \$306,836
	<b>Status:</b>	Cooperative Agreement was awarded September 21, 2000. Engineering and design complete. Construction is scheduled for 2002.								
		Task Force approved Phase 2 funding at January 10, 2001 meeting. In a letter dated September 7, 2001, NMFS returned Phase 2 funding because of waning landowner support. Deauthorization is not requested at this time.								
Total Priority List		9	387				\$10,684,165	\$7,220,422	67.6	\$7,183,172 \$7,155,670

- 5 Project(s)
- 5 Cost Sharing Agreements Executed
- 2 Construction Started
- 2 Construction Completed
- 3 Project(s) Deferred/Deauthorized

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
**Project Status Summary Report - Lead Agency: DEPT. OF COMMERCE (NMFS)**

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
<b>Priority List 10</b>										
Rockefeller Refuge Gulf Shoreline Stabilization	MERM	CAMER	920	27-Sep-2001 A			\$1,929,888	\$2,408,478	124.8	\$1,760,283 \$1,336,223
	<b>Status:</b>	A 30% Design Review meeting will occur on May 15, 2014, and the 95% Design Meeting scheduled for September 30, 2014. NMFS intends to seek Phase 2 authorization in December 2014,								
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	Total Priority List	10	920				\$1,929,888	\$2,408,478	124.8	\$1,760,283 \$1,336,223

- 1 Project(s)
- 1 Cost Sharing Agreements Executed
- 0 Construction Started
- 0 Construction Completed
- 0 Project(s) Deferred/Deauthorized

**Priority List 11**

Little Lake Shoreline Protection/Dedicated Dredging near Round Lake	BARA	LAFOU	713	06-Aug-2002 A	04-Aug-2005 A	30-Mar-2007 A	\$35,994,894	\$21,996,296	61.1	\$21,951,414 \$21,843,837
	<b>Status:</b>	The 2011 Annual O&M inspection revealed that the rock dike along the northern section of the project (Sections 1-9 of 26 total sections) had settled. A survey will be initiated on September 7 to help determine the extent of settlement. Project team should have the survey report by mid-October to consider a maintenance event.								
Pass Chaland to Grand Bayou Pass Barrier Shoreline Restoration	BARA	PLAQ	263	06-Aug-2002 A	06-Jun-2008 A	25-Aug-2009 A	\$29,753,880	\$40,105,164	134.8 !	\$39,212,887 \$37,501,831
	<b>Status:</b>	Annual site inspection conducted June 27, 2012. Sand fencing appears largely intact and functional. Sand accretion around fencing and dune plantings observed. The marsh creation area and associated containment dikes were also inspected. Major portions of the marsh platform appear to be regularly flooded by tides and has about 50% to 60% vegetative cover. Marsh fill containment dikes were inspected to determine need for mechanical gapping to provide tidal exchange. Based on observed settlement and formation of natural gaps, it was determined that dike gapping/degradation is not required.								

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
**Project Status Summary Report - Lead Agency: DEPT. OF COMMERCE (NMFS)**

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
Pelican Island and Pass La Mer to Chalard Pass BBI	BARA	PLAQ	334	06-Aug-2002 A	25-Mar-2006 A	28-Nov-2012 A	\$61,995,587	\$76,229,790	123.0	\$69,523,774 \$69,074,768
	<b>Status:</b>	CU 2 (Pelican Island): Construction Start - 15 Nov 2011(A) Heavy Construction Completion - 14 Dec 2012(S) Vegetative Plantings - Fall 2012/Spring 2013(S)								
Total Priority List		11	1,310				\$127,744,361	\$138,331,250	108.3	\$130,688,075 \$128,420,436

- 3 Project(s)
- 3 Cost Sharing Agreements Executed
- 3 Construction Started
- 3 Construction Completed
- 0 Project(s) Deferred/Deauthorized

**Priority List 14**

Riverine Sand Mining/Scotfield Island Restoration DEAUTHORIZED	BARA	PLAQ		04-Oct-2005 A			\$3,221,887	\$2,935,025	91.1	\$2,935,025 \$2,935,025
	<b>Status:</b>	State of Louisiana planning to construct the project using state-only funds. Final CWPPRA deauthorization was approved by the Task Force at its 19 January 2012 meeting.								
Total Priority List		14					\$3,221,887	\$2,935,025	91.1	\$2,935,025 \$2,935,025

- 1 Project(s)
- 1 Cost Sharing Agreements Executed
- 0 Construction Started
- 0 Construction Completed
- 1 Project(s) Deferred/Deauthorized

**Priority List 15**

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
**Project Status Summary Report - Lead Agency: DEPT. OF COMMERCE (NMFS)**

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
South Pecan Island Freshwater Introduction DEAUTHORIZED	MERM	VERMI		21-Sep-2006 A			\$1,102,043	\$779,422	70.7	\$779,422 \$779,422
	<b>Status:</b>	The acquisition of land rights has been unsuccessful with one of the eight landowners. Therefore, the NMFS and OCPR will be recommending to the Technical Committee that this project proceed to deauthorization.								
Total Priority List		15					\$1,102,043	\$779,422	70.7	\$779,422 \$779,422

- 1 Project(s)
- 1 Cost Sharing Agreements Executed
- 0 Construction Started
- 0 Construction Completed
- 1 Project(s) Deferred/Deauthorized

**Priority List 16**

Madison Bay Marsh Creation and Terracing	TERRE	TERRE	334	31-May-2007 A			\$3,002,171	\$3,002,171	100.0	\$2,678,773 \$1,424,431
	<b>Status:</b>	NMFS intends to seek Phase 2 authorization in December 2014.								
West Belle Pass Barrier Headland Restoration Project	TERRE	LAFOU	305	31-May-2007 A	09-Sep-2011 A	04-Jun-2013 A	\$42,250,417	\$41,569,090	98.4	\$37,088,325 \$24,962,561
	<b>Status:</b>	Readjusted description and changed construction completion date based on plantings date to fit with O&M plan.								

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
**Project Status Summary Report - Lead Agency: DEPT. OF COMMERCE (NMFS)**

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
Total Priority List		16	639				\$45,252,588	\$44,571,261	98.5	\$39,767,097 \$26,386,992
2 Project(s) 2 Cost Sharing Agreements Executed 1 Construction Started 1 Construction Completed 0 Project(s) Deferred/Deauthorized										

**Priority List 17**

Bayou Dupont Ridge Creation & Marsh Restoration	BARA	JEFF	186	17-Jul-2008 A	03-Jun-2013 *	03-Jun-2014 *	\$38,539,615	\$37,984,593	98.6	\$32,181,804 \$1,567,929
<b>Status:</b> Comments and issues related to the borrow area have been addressed between CPRA and USACE. CPRA, DOTD, and NOAA have signed (or will sign) the proffered permit. Bid documents will be finalized for advertisement.										
Bio-Engineered Oyster Reef DEMO	MERM	MULTI	0		02-Aug-2011 A	17-Feb-2014 A	\$1,981,822	\$2,316,692	116.9	\$1,987,295 \$1,970,928
<b>Status:</b> Project construction was completed in early February 2012. Biological and structural monitoring are underway.										

Total Priority List		17	186				\$40,521,437	\$40,301,285	99.5	\$34,169,099 \$3,538,857
2 Project(s) 1 Cost Sharing Agreements Executed 1 Construction Started 1 Construction Completed 0 Project(s) Deferred/Deauthorized										

**Priority List 18**

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
**Project Status Summary Report - Lead Agency: DEPT. OF COMMERCE (NMFS)**

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
Grand Liard Marsh and Ridge Restoration	BARA	PLAQ	370		01-Jun-2013 *	16-Jun-2016	\$42,579,616	\$42,095,162	98.9	\$35,642,328 \$2,455,194
	<b>Status:</b>									
Total Priority List		18	370				\$42,579,616	\$42,095,162	98.9	\$35,642,328 \$2,455,194

- 1 Project(s)
- 0 Cost Sharing Agreements Executed
- 0 Construction Started
- 0 Construction Completed
- 0 Project(s) Deferred/Deauthorized

**Priority List 19**

Chenier Ronquille Barrier Island Restoration	BARA	PLAQ	308	18-Aug-2010 A	01-Mar-2016	01-Jan-2017	\$3,419,263	\$3,419,263	100.0	\$3,055,123 \$1,109,616
	<b>Status:</b> Project did not receive construction funding/Phase 2 approval. State and federal sponsors considering project as an early restoration project and are awaiting an answer from the Trustee Council for the Deepwater Horizon Oil Spill. The sponsors are not electing to close at this time pending that decision.									
Total Priority List		19	308				\$3,419,263	\$3,419,263	100.0	\$3,055,123 \$1,109,616

- 1 Project(s)
- 1 Cost Sharing Agreements Executed
- 0 Construction Started
- 0 Construction Completed
- 0 Project(s) Deferred/Deauthorized

**Priority List 21**

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
**Project Status Summary Report - Lead Agency: DEPT. OF COMMERCE (NMFS)**

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
Coles Bayou Marsh Restoration	TECHE	VERMI	398				\$26,631,223	\$3,136,805	11.8	\$2,694,568 \$339,969
	<b>Status:</b>									
Oyster Bayou Marsh Restoration	CA/SB	CAMER	489				\$29,781,354	\$3,165,322	10.6	\$2,772,652 \$598,884
	<b>Status:</b> NMFS intends to seek Phase 2 authorization in December 2014.									
Total Priority List		21	887				\$56,412,577	\$6,302,127	11.2	\$5,467,220 \$938,853

- 2 Project(s)
- 0 Cost Sharing Agreements Executed
- 0 Construction Started
- 0 Construction Completed
- 0 Project(s) Deferred/Deauthorized

**Priority List 22**

Cameron Meadows Marsh Creation	CA/SB	CAMER	264				\$27,685,820	\$3,108,025	11.2	\$2,428,908 \$5,278
	<b>Status:</b>									
Total Priority List		22	264				\$27,685,820	\$3,108,025	11.2	\$2,428,908 \$5,278

- 1 Project(s)
- 0 Cost Sharing Agreements Executed
- 0 Construction Started
- 0 Construction Completed
- 0 Project(s) Deferred/Deauthorized

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
**Project Status Summary Report - Lead Agency: DEPT. OF COMMERCE (NMFS)**

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
<b>Priority List 23</b>										
Island Road Marsh Creation & Nourishment	TERRE		312	01-Jul-2014 *			\$39,185,267	\$3,721,447	9.5	\$0
	<b>Status:</b>									\$0
<hr/>										
	Total Priority List	23	312				\$39,185,267	\$3,721,447	9.5	\$0
										\$0
	1 Project(s) 0 Cost Sharing Agreements Executed 0 Construction Started 0 Construction Completed 0 Project(s) Deferred/Deauthorized									
<b>Total</b>	<b>DEPT. OF COMMERCE, NATIONAL MARINE FISHERIES SERVICE</b>		<b>21,510</b>				<b>\$471,475,204</b>	<b>\$350,305,694</b>	<b>74.3</b>	<b>\$313,677,296</b> <b>\$222,505,262</b>
	41 Project(s) 33 Cost Sharing Agreements Executed 21 Construction Started 21 Construction Completed 11 Project(s) Deferred/Deauthorized									

Notes:

1. Expenditures based on Corps of Engineers financial data.
2. Date codes: A = Actual date \* = Behind schedule
3. Percent codes: ! = 125% of baseline estimate exceeded

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
**Project Status Summary Report - Lead Agency: DEPT. OF AGRICULTURE (NRCS)**

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	

**Lead Agency: DEPT. OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE**

**Priority List 1**

GIWW to Clovelly Hydrologic Restoration	BARA	LAFOU	175	17-Apr-1993 A	21-Apr-1997 A	31-Oct-2000 A	\$8,141,512	\$12,725,280	156.3 !	\$10,416,805 \$10,377,827
	<b>Status:</b> The project was divided into two contracts in order to expedite implementation. The first contract to install most of the weir structures, began May 1, 1997 and completed November 30, 1997, at a cost of \$646,691. The second contract to install bank protection, one weir and one plug, began January 1, 2000 and completed October 31, 2000, at a cost of \$3,400,000. All project construction is complete. O&M Plan signed September 16, 2002.									
Vegetative Plantings - Dewitt-Rollover Planting Demo DEAUTHORIZED	MERM	VERMI		17-Apr-1993 A	11-Jul-1994 A		\$191,003	\$92,147	48.2	\$92,147 \$92,147
	<b>Status:</b> Sub-project of the Vegetative Plantings project.  Complete and deauthorized.									
Vegetative Plantings - Falgout Canal Planting Demo	TERRE	TERRE	0	17-Apr-1993 A	30-Aug-1996 A	30-Dec-1996 A	\$144,561	\$206,523	142.9 !	\$206,523 \$206,523
	<b>Status:</b> Sub-project of the Vegetative Plantings project. Wave-stilling devices are in place. Vegetative plantings are in place.  Complete.									
Vegetative Plantings - Timbalier Island Planting Demo	TERRE	TERRE	0	17-Apr-1993 A	15-Mar-1995 A	30-Jul-1996 A	\$372,589	\$300,492	80.6	\$300,492 \$300,492
	<b>Status:</b> Sub-project of the Vegetative Plantings project.  Complete.									
Vegetative Plantings - West Hackberry Planting Demo	CA/SB	CAMER	0	17-Apr-1993 A	15-Apr-1993 A	30-Mar-1994 A	\$213,947	\$256,251	119.8	\$256,251 \$256,251
	<b>Status:</b> Sub-project of the Vegetative Plantings project.  Complete.									

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
**Project Status Summary Report - Lead Agency: DEPT. OF AGRICULTURE (NRCS)**

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
Total Priority List		1	175				\$9,063,612	\$13,580,693	149.8	\$11,272,218 \$11,233,240
<ul style="list-style-type: none"> <li>5 Project(s)</li> <li>5 Cost Sharing Agreements Executed</li> <li>5 Construction Started</li> <li>4 Construction Completed</li> <li>1 Project(s) Deferred/Deauthorized</li> </ul>										

**Priority List 2**

Brown Lake Hydrologic Restoration DEAUTHORIZED	CA/SB	CAMER		28-Mar-1994 A			\$3,222,800	\$1,097,828	34.1	\$1,097,828 \$1,097,828
	<b>Status:</b>	Landowner support for the project has been withdrawn due to changes in project features therefore project team moved to deauthorize project. Task Force voted to approve deauthorization in Fall 2009.								
Caernarvon Diversion Outfall Management	BRET	PLAQ	802	13-Oct-1994 A	01-Jun-2001 A	19-Jun-2002 A	\$2,522,199	\$4,536,000	179.8 !	\$3,916,030 \$3,916,030
	<b>Status:</b>	This project was proposed for deauthorization in December 1996, but was referred for revisions at the request of the landowners and DNR. The project was modified. The final plan/EA has been prepared. Bids were opened 23 February 2001. The low bid exceeded the funds available. Task Force approved additional funds. Construction complete June 19, 2002.								
East Mud Lake Marsh Management	CA/SB	CAMER	1,520	24-Mar-1994 A	01-Oct-1995 A	15-Jun-1996 A	\$2,903,635	\$5,387,967	185.6 !	\$4,947,583 \$4,924,598
	<b>Status:</b>	Bid opening was August 8, 1995 and contract awarded to Crain Bros. Construction started in early October 1995. Water control structures are installed and the vegetation installed in the summer of 1996.  Construction complete. O&M plan executed. Maintenance needs on a water control structure is being evaluated.								

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
**Project Status Summary Report - Lead Agency: DEPT. OF AGRICULTURE (NRCS)**

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
Freshwater Bayou Wetland Protection	MERM	VERMI	1,593	17-Aug-1994 A	29-Aug-1994 A	15-Aug-1998 A	\$2,770,093	\$6,059,652	218.8 !	\$3,454,867 \$3,396,087
<p><b>Status:</b> The project was expedited in order to allow the use of stone removed from the Wax Lake Outlet Weir at a substantial cost savings. Construction is included as an option in the Corps of Engineers contract for the Wax Lake Outlet Weir removal. Option was exercised on September 2, 1994.</p> <p>Project construction is complete. Maintenance contract underway to repair rock dike.</p>										
Fritchie Marsh Restoration	PONT	STTAM	1,040	21-Feb-1995 A	01-Nov-2000 A	01-Mar-2001 A	\$3,048,389	\$2,201,674	72.2	\$1,862,128 \$1,843,027
<p><b>Status:</b> O&amp;M plan executed January 29, 2003.</p>										
Highway 384 Hydrologic Restoration	CA/SB	CAMER	150	13-Oct-1994 A	01-Oct-1999 A	07-Jan-2000 A	\$700,717	\$1,479,587	211.2 !	\$1,315,096 \$1,295,583
<p><b>Status:</b> Construction start slipped from November 1997 to July 1999 because of landright issues. All landright agreements signed. Construction complete January 7, 2000.</p> <p>O&amp;M plan executed. Maintenance contract complete. Minor damage from Hurricane Lili to be repaired. Contract in preparation.</p>										
Jonathan Davis Wetland Restoration	BARA	JEFF	510	05-Jan-1995 A	22-Jun-1998 A	12-Jan-2012 A	\$3,398,867	\$28,873,513	849.5 !	\$22,827,287 \$22,711,406
<p><b>Status:</b> Construction has begun to repair vandalism to the concrete walls. Work is anticipated to be completed by October 2012.</p>										
Vermilion Bay/Boston Canal Shore Protection	TECHE	VERMI	378	24-Mar-1994 A	13-Sep-1994 A	30-Nov-1995 A	\$1,008,634	\$1,043,748	103.5	\$887,581 \$887,425
<p><b>Status:</b> Complete.</p>										

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
**Project Status Summary Report - Lead Agency: DEPT. OF AGRICULTURE (NRCS)**

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
Total Priority List		2	5,993				\$19,575,334	\$50,679,970	258.9	\$40,308,400 \$40,071,985
8 Project(s)										
8 Cost Sharing Agreements Executed										
7 Construction Started										
7 Construction Completed										
1 Project(s) Deferred/Deauthorized										

**Priority List 3**

Brady Canal Hydrologic Restoration	TERRE	TERRE	297	15-May-1998 A	01-May-1999 A	22-May-2000 A	\$4,717,928	\$7,593,752	161.0 !	\$6,620,081 \$6,544,752
<p><b>Status:</b> Project delayed because of landowner concerns about permit conditions regarding monitoring, and objection from a pipeline company in the area. In addition, CSA revisions were needed to accommodate the landowner's interest in providing non-Federal funding. Permitting and design conditions have resulted in the CSA being modified to also include Fina Oil Co. and LL&amp;E. Both will help cost share the project. The revised CSA is complete.</p> <p>Construction project is complete. O&amp;M plan signed July 16, 2002.</p>										
Cameron-Creole Maintenance	CA/SB	CAMER	2,602	09-Jan-1997 A	30-Sep-1997 A	30-Sep-1997 A	\$3,719,926	\$4,644,371	124.9	\$2,396,466 \$2,288,783
<p><b>Status:</b> The first three contracts for maintenance work are complete. The project provides for maintenance on an as-needed basis.</p>										
Cote Blanche Hydrologic Restoration	TECHE	STMRY	2,223	01-Jul-1996 A	25-Mar-1998 A	15-Dec-1998 A	\$5,173,062	\$10,036,640	194.0 !	\$8,271,879 \$8,268,266
<p><b>Status:</b> Construction start date slipped from November 1997 to March 1998 because of concern about the source of shell to construct the project. Site inspection for bidder was held January 12, 1998. Concern for a source of shell may require budget modifications. Contract awarded February 1998; notice to proceed March 1998. Construction was completed December 1998.</p> <p>O&amp;M plan executed. Maintenance contract complete.</p>										

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
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PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures	
				CSA	Const Start	Const End	Baseline	Current	%		
Southwest Shore White Lake Demo DEAUTHORIZED	MERM	VERMI		11-Jan-1995 A	30-Apr-1996 A		\$126,062	\$103,468	82.1	\$103,468 \$103,468	
	<b>Status:</b>	Complete. Project deauthorized.									
Violet Freshwater Distribution DEAUTHORIZED	PONT	STBER		13-Oct-1994 A			\$1,821,438	\$128,627	7.1	\$128,627 \$128,627	
	<b>Status:</b>	Rights-of-way to gain access to the site was a problem due to multiple landowner coordination, and additional questions have arisen about rights to operate existing siphon.  Project deauthorized, October 4, 2000.									
West Pointe a la Hache Outfall Management	BARA	PLAQ	646	05-Jan-1995 A	02-Jan-2014 *	01-Aug-2014 *	\$881,148	\$4,269,295	484.5 !	\$1,192,308 \$1,165,643	
	<b>Status:</b>	A 30% review meeting was held on October 3, 2012. Project Team is currently resolving concerns rased during the meeting regarding ownership and operation of the siphon. A 95% review meeting is anticipated for September 2013.									
White's Ditch Outfall Management DEAUTHORIZED	BRET	PLAQ		13-Oct-1994 A			\$756,134	\$32,862	4.3	\$32,862 \$32,862	
	<b>Status:</b>	LA DNR concurred with NRCS to deauthorize the project. Project deauthorized at the January 16, 1998 Task Force meeting.  Deauthorized.									
Total Priority List			3				5,768	\$17,195,698	\$26,809,015	155.9	\$18,745,690 \$18,532,400

- 7 Project(s)
- 7 Cost Sharing Agreements Executed
- 4 Construction Started
- 3 Construction Completed
- 3 Project(s) Deferred/Deauthorized

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
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PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
Barataria Bay Waterway West Side Shoreline Protection	BARA	JEFF	232	23-Jun-1997 A	01-Jun-2000 A	01-Nov-2000 A	\$2,192,418	\$3,013,365	137.4 !	\$2,806,009 \$2,795,563
	<b>Status:</b>	The project is being coordinated with the COE dredging program. Contract advertised December 1999.  Construction complete. Dedication ceremony held October 20, 2000. O&M plan signed July 15, 2002.								
Bayou L'Ours Ridge Hydrologic Restoration DEAUTHORIZED	BARA	LAFOU		23-Jun-1997 A			\$2,418,676	\$371,232	15.3	\$371,232 \$371,232
	<b>Status:</b>	The initial step of deauthorization was taken at the January Task Force meeting. The process will be finalized at the April Task Force meeting.								
Flotant Marsh Fencing Demo DEAUTHORIZED	TERRE	TERRE		16-Jul-1999 A			\$367,066	\$115,775	31.5	\$115,775 \$115,775
	<b>Status:</b>	Difficulty in locating an appropriate site for demonstration and difficulty in addressing engineering constraints.  Project deauthorized, October 4, 2000.								
Perry Ridge Shore Protection	CA/SB	CALCA	1,203	23-Jun-1997 A	15-Dec-1998 A	15-Feb-1999 A	\$2,223,518	\$2,289,090	102.9	\$1,899,196 \$1,878,987
	<b>Status:</b>	Project complete.								
Plowed Terraces Demo	CA/SB	CAMER	0	22-Oct-1998 A	30-Apr-1999 A	31-Aug-2000 A	\$299,690	\$325,641	108.7	\$324,970 \$324,970
	<b>Status:</b>	Project initially put on hold pending results of an earlier terraces demonstration project being paid for by the Gulf of Mexico program. The first attempt to plow the terraces in the summer of 1999 was not successful. A second contract was advertised in January 2000 to try again. Construction is complete.								

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
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PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
Total Priority List		4	1,435				\$7,501,368	\$6,115,103	81.5	\$5,517,183 \$5,486,528
<ul style="list-style-type: none"> <li>5 Project(s)</li> <li>5 Cost Sharing Agreements Executed</li> <li>3 Construction Started</li> <li>3 Construction Completed</li> <li>2 Project(s) Deferred/Deauthorized</li> </ul>										

**Priority List 5**

Freshwater Bayou Bank Stabilization	MERM	VERMI	511	01-Jul-1997 A	15-Feb-1998 A	15-Jun-1998 A	\$3,998,919	\$5,609,593	140.3 !	\$2,599,491 \$2,579,831
<p><b>Status:</b> The local cost share is being paid by Acadian Gas Company.</p> <p>Contract was awarded January 14, 1998. Construction is complete.</p>										
Naomi Outfall Management	BARA	JEFF	633	12-May-1999 A	01-Jun-2002 A	15-Jul-2002 A	\$1,743,805	\$2,227,027	127.7 !	\$1,982,456 \$1,955,121
<p><b>Status:</b> This project was combined with the BBWW "Dupre Cut" East project for planning and design; construction will be separate.</p> <p>The operation of the siphon is being reviewed by DNR. Hydraulic analysis is complete; results concurred in by both agencies. Construction contract advertised in March 2002. Construction began June 2002 and completed in July 2002.</p> <p>O&amp;M plan in draft.</p>										
Raccoon Island Breakwaters Demo	TERRE	TERRE	0	03-Sep-1996 A	21-Apr-1997 A	31-Jul-1997 A	\$1,497,538	\$1,751,046	116.9	\$1,751,046 \$1,751,046
<p><b>Status:</b> Complete.</p>										

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
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PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
Sweet Lake/Willow Lake Hydrologic Restoration	CA/SB	CAMER	247	23-Jun-1997 A	01-Nov-1999 A	02-Oct-2002 A	\$4,800,000	\$3,929,152	81.9	\$3,447,744 \$3,422,804
<p><b>Status:</b> The rock bank protection feature of the project is complete.</p> <p>The second contract has been awarded; terrace construction and vegetative planting will be finished by October 1, 2002. Contractor was unable to complete the construction. Contract terminated; remaining work was advertised December 2001. Contract awarded, and construction completed October 2, 2002.</p>										

Total Priority List			5	1,391			\$12,040,262	\$13,516,818	112.3	\$9,780,737 \$9,708,803
<p>4 Project(s)            4 Cost Sharing Agreements Executed            4 Construction Started            4 Construction Completed            0 Project(s) Deferred/Deauthorized</p>										

**Priority List 6**

Barataria Bay Waterway East Side Shoreline Protection	BARA	JEFF	217	12-May-1999 A	01-Dec-2000 A	31-May-2001 A	\$5,019,900	\$5,224,477	104.1	\$4,836,928 \$4,774,706
<p><b>Status:</b> This project was combined with the Naomi Outfall Management project for planning and design; construction was separate.</p> <p>Project construction complete.</p> <p>O&amp;M plan signed October 2, 2002.</p>										
Cheniere au Tigre Sediment Trapping DEMO	TECHE	VERMI	0	20-Jul-1999 A	01-Sep-2001 A	02-Nov-2001 A	\$500,000	\$624,999	125.0	\$599,472 \$596,781
<p><b>Status:</b> A request for proposals was advertised in Feb 2000. No valid proposals received. Proceeding with design of a rock structure. Project advertised for bid. Bid came in over estimate. LDNR and NRCS shifted funds from monitoring to construction. Delay in getting new obligation due to internal COE procedures. Government order received July 13, 2001. Construction complete.</p>										

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
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PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
Oaks/Avery Canal Hydrologic Restoration	TECHE	VERMI	160	22-Oct-1998 A	15-Apr-1999 A	11-Oct-2002 A	\$2,367,700	\$2,925,216	123.5	\$2,534,362 \$2,534,362
	<b>Status:</b>	O&M plan was finalized on 2/11/04.								
Penchant Basin Natural Resources Plan, Increment 1	TERRE	TERRE	675	23-Apr-2002 A	25-May-2010 A	24-Aug-2011 A	\$14,103,051	\$14,746,461	104.6	\$13,627,130 \$12,645,206
	<b>Status:</b>	Project construction was completed on August 24, 2011.								
Total Priority List			6	1,052			\$21,990,651	\$23,521,153	107.0	\$21,597,892 \$20,551,055

- 4 Project(s)
- 4 Cost Sharing Agreements Executed
- 4 Construction Started
- 4 Construction Completed
- 0 Project(s) Deferred/Deauthorized

**Priority List 7**

Barataria Basin Landbridge Shoreline Protection, Ph 1 & 2	BARA	JEFF	1,304	16-Jul-1999 A	01-Dec-2000 A	05-Mar-2009 A	\$17,515,029	\$27,852,111	159.0 !	\$26,533,911 \$26,423,702
	<b>Status:</b>	Construction Unit #4 was completed on May 4th, 2009. Construction Unit #5 was completed on March 5th, 2009.								
Thin Mat Floating Marsh Enhancement Demo	TERRE	TERRE	0	16-Oct-1998 A	15-Jun-1999 A	10-May-2000 A	\$460,222	\$538,101	116.9	\$538,101 \$538,101
	<b>Status:</b>	Construction complete. Monitoring ongoing.								

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
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PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
Total Priority List		7	1,304				\$17,975,251	\$28,390,212	157.9	\$27,072,012 \$26,961,802
<ul style="list-style-type: none"> <li>2 Project(s)</li> <li>2 Cost Sharing Agreements Executed</li> <li>2 Construction Started</li> <li>2 Construction Completed</li> <li>0 Project(s) Deferred/Deauthorized</li> </ul>										

**Priority List 8**

Humble Canal Hydrologic Restoration	MERM	CAMER	378	21-Mar-2000 A	01-Jul-2002 A	01-Mar-2003 A	\$1,526,136	\$1,574,926	103.2	\$1,161,954 \$1,150,570
<b>Status:</b> Construction complete March 2003.										
Lake Portage Land Bridge	TECHE	VERMI	24	07-Apr-2000 A	15-Feb-2003 A	15-May-2004 A	\$1,013,820	\$1,181,129	116.5	\$1,110,746 \$1,108,593
<b>Status:</b> Project construction was completed on May 15, 2004. Monitoring Plan was finalized on July 19, 2004										
Upper Oak River Freshwater Siphon DEAUTHORIZED	BRET	PLAQ					\$2,500,239	\$56,476	2.3	\$56,476 \$56,476
<b>Status:</b> Total project cost estimate is \$12,994,800; Priority List 8 funded \$2,500,000 for completion of engineering and design and construction of the outflow channel. Funding of the siphon will be requested when engineering and design are completed.										
Project feasibility being evaluated. DNR has solicited a cost estimate from one of their engineering firms to perform a feasibility study. Target dates will be established if project is deemed feasible.										
Deauthorization procedures initiated.										

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
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PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
Total Priority List		8	402				\$5,040,195	\$2,812,531	55.8	\$2,329,176 \$2,315,640
3 Project(s) 2 Cost Sharing Agreements Executed 2 Construction Started 2 Construction Completed 1 Project(s) Deferred/Deauthorized										

**Priority List 9**

Barataria Basin Landbridge Shoreline Protection, Ph 3	BARA	JEFF	264	25-Jul-2000 A	20-Oct-2003 A	30-Apr-2014 *	\$46,542,450	\$37,220,939	80.0	\$34,917,990 \$9,900,819
<b>Status:</b> Pipeline removal in project area is nearing completion. Construction on Units#7 & #8 is anticipated to begin in August 2013.										
Black Bayou Culverts Hydrologic Restoration	CA/SB	CAMER	540	25-Jul-2000 A	25-May-2005 A	26-Jan-2010 A	\$5,900,387	\$15,324,990	259.7 !	\$14,321,695 \$6,737,798
<b>Status:</b> Project is currently protected by coffer dams installed to dewater structures to assess extent of leakage under structure. A corrective design is being evaluated. Project is scheduled to request funding for repairs at the Winter 2012 Task Force meeting.										
Little Pecan Bayou Hydrologic Restoration DEAUTHORIZED	MERM	CAMER		25-Jul-2000 A			\$1,245,278	\$1,303,713	104.7	\$1,303,713 \$1,303,713
<b>Status:</b> Project was deauthorized at Spring 2012 Task Force meeting for the following reasons:										
<ul style="list-style-type: none"> <li>•The current ME-17 project features do not yield sufficient wetland benefits to warrant a Phase II request for construction and twenty years of maintenance.</li> <li>•Within the current project scope, the CPRA has concerns over public vandalism.</li> </ul>										

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
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PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
Perry Ridge West Bank Stabilization	CA/SB	CAMER	83	25-Jul-2000 A	01-Nov-2001 A	31-Jul-2002 A	\$3,742,451	\$2,140,816	57.2	\$1,732,956 \$1,719,733
	<b>Status:</b>	The Perry Ridge project approved on Priority List 4 was the first phase of this project. This is the second and final phase of the project.  Task Force approved Phase 2 construction funding January 10, 2001. The rock bank protection is installed. The contract for the terraces and vegetation has been completed.								
South Lake Decade Freshwater Introduction	TERRE	TERRE	202	25-Jul-2000 A	24-Jan-2011 A	12-Jul-2011 A	\$4,949,684	\$3,711,462	75.0	\$3,500,606 \$3,314,457
	<b>Status:</b>	Construction Unit #1 was completed on July 12, 2011. CPRA did not agree to proceed with 2nd construction unit, therefore project was considered completed and closed out.								
Total Priority List			9				\$62,380,250	\$59,701,920	95.7	\$55,776,960 \$22,976,521

- 5 Project(s)
- 5 Cost Sharing Agreements Executed
- 4 Construction Started
- 3 Construction Completed
- 1 Project(s) Deferred/Deauthorized

**Priority List 10**

GIWW Bank Restoration of Critical Areas in Terrebonne	TERRE	TERRE	65	16-May-2001 A	02-May-2013 *	01-Feb-2014 *	\$13,022,246	\$11,258,135	86.5	\$9,462,788 \$8,264,859
	<b>Status:</b>	CPRA assigned land rights to NRCS in April 2012. Project re-surveyed to verify design was still current. Project is scheduled for construction in December 2012.								

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
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PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
Total Priority List		10	65				\$13,022,246	\$11,258,135	86.5	\$9,462,788 \$8,264,859
<ul style="list-style-type: none"> <li>1 Project(s)</li> <li>1 Cost Sharing Agreements Executed</li> <li>0 Construction Started</li> <li>0 Construction Completed</li> <li>0 Project(s) Deferred/Deauthorized</li> </ul>										
<b>Priority List 11</b>										
Barataria Basin Landbridge Shoreline Protection, Ph 4	BARA	JEFF	256	09-May-2002 A	27-Apr-2005 A	26-Apr-2006 A	\$22,787,951	\$13,179,556	57.8	\$7,034,708 \$6,574,634
<b>Status:</b> Construction Unit #6 was completed on April 26, 2006.										
Coastwide Nutria Control Program	COAST	COAST	14,963	26-Feb-2002 A	20-Nov-2002 A	15-Jul-2003 A	\$68,864,870	\$32,235,247	46.8	\$22,580,670 \$22,469,370
<b>Status:</b> In Year 9 (2010-11) Trapping Season, 338,512 nutria tails were collected.										
Grand Lake Shoreline Protection	MERM	CAMER	45	20-Sep-2011 A	01-May-2013 *	30-Aug-2013 *	\$12,792,013	\$10,055,616	78.6	\$952,514 \$915,677
<b>Status:</b> Project received funding MIPR for Engineering and Design in August 2012. Surveying and Geotechnical Investigation has begun. Project is scheduled to request Construction approval at the September 2013 Technical Committee meeting.										
Raccoon Island Shoreline Protection/Marsh Creation	TERRE	TERRE	71	23-Apr-2002 A	13-Dec-2005 A	01-Mar-2013 *	\$17,167,810	\$19,608,966	114.2	\$18,306,258 \$17,411,365
<b>Status:</b> Notice to Proceed for construction of Phase B was given on September 27, 2012.										

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
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PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
	Total Priority List	11	15,335				\$121,612,644	\$75,079,385	61.7	\$48,874,149 \$47,371,046
<ul style="list-style-type: none"> <li>4 Project(s)</li> <li>4 Cost Sharing Agreements Executed</li> <li>3 Construction Started</li> <li>2 Construction Completed</li> <li>0 Project(s) Deferred/Deauthorized</li> </ul>										

**Priority List 11.1**

Holly Beach Sand Management	CA/SB	CALCA	330	09-May-2002 A	01-Aug-2002 A	31-Mar-2003 A	\$19,252,500	\$14,130,233	73.4	\$13,989,141 \$13,989,141
<p><b>Status:</b> The placement of the sand material on to the beach was completed on Saturday, March 1, 2003. Required work that is now in progress consist of demobilization of the pipeline segments, dressing the completed beach work,erection of the Sand Fencing and installation of the vegetation.</p>										

	Total Priority List	11.1	330				\$19,252,500	\$14,130,233	73.4	\$13,989,141 \$13,989,141
<ul style="list-style-type: none"> <li>1 Project(s)</li> <li>1 Cost Sharing Agreements Executed</li> <li>1 Construction Started</li> <li>1 Construction Completed</li> <li>0 Project(s) Deferred/Deauthorized</li> </ul>										

**Priority List 12**

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
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PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
Freshwater Floating Marsh Creation Demo	COAST	COAST	0	12-Jun-2003 A	01-Jul-2004 A	01-Jun-2006 A	\$1,080,891	\$1,068,602	98.9	\$1,068,602 \$1,068,602
<p><b>Status:</b> The deployed vegetated structures at the Mandalay field site have been in place since Spring 2006, and are functioning as designed. By the end of 2008 (the third growing season in the field), vegetation in the floating structures has spread significantly from their mother structures and are beginning to interweave with plants from adjacent structures, and the belowground plant material was generating an increasingly extensive network of the fibrous roots and rhizomes necessary to establish the foundation of a sustainable organic marsh mat.</p> <p>Some of the deployed structures at Mandalay were damaged, but overall the project structures and associated vegetation weathered the storms well with less than 5% of the structures damaged or lost. In this project, the P. hemitomon plants established in the floating structures performed extremely well in the areas not impacted by increases in water salinity from storm induced high water, and when protected from nutria grazing.</p>										
Total Priority List		12	0				\$1,080,891	\$1,068,602	98.9	\$1,068,602 \$1,068,602

- 1 Project(s)
- 1 Cost Sharing Agreements Executed
- 1 Construction Started
- 1 Construction Completed
- 0 Project(s) Deferred/Deauthorized

**Priority List 13**

Bayou Sale Shoreline Protection DEAUTHORIZED	TECHE	STMRY		16-Jun-2004 A	01-Sep-2014	30-Aug-2015	\$2,254,912	\$2,254,912	100.0	\$1,864,438 \$1,851,658
<p><b>Status:</b> Project scope change did not get approved by Technical Committee. Project team reviewing option suggested by Parish to allow a test section of an alternative shoreline protection product, funded by Parish. Project Team currently assessing viability.</p>										

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
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PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
Total Priority List		13					\$2,254,912	\$2,254,912	100.0	\$1,864,438 \$1,851,658
1 Project(s) 1 Cost Sharing Agreements Executed 0 Construction Started 0 Construction Completed 1 Project(s) Deferred/Deauthorized										
<b>Priority List 14</b>										
East Marsh Island Marsh Creation	TECHE	IBERI	169	04-Oct-2006 A	15-Feb-2010 A	22-Jul-2011 A	\$23,025,451	\$22,613,085	98.2	\$15,861,442 \$15,295,069
<b>Status:</b> Construction of marsh creation has been completed. Vegetative Plantings began March 2011, expected to be completed by July 2011.										
South Shore of the Pen Shoreline Protection & Marsh Creation	BARA	JEFF	106	07-Dec-2005 A	17-Jun-2010 A	06-Jun-2012 A	\$21,639,574	\$19,851,404	91.7	\$16,963,081 \$15,176,352
<b>Status:</b> Project was completed on June 6, 2012.										
White Ditch Resurrection and Outfall Management DEAUTHORIZED	BRET	PLAQ		11-Aug-2005 A			\$1,595,677	\$1,020,420	63.9	\$1,020,420 \$1,020,420
<b>Status:</b> Project team has agreed to move to deauthorization due to issues regarding location & operation of siphon.										
Total Priority List		14	275				\$46,260,702	\$43,484,909	94.0	\$33,844,942 \$31,491,840
3 Project(s) 3 Cost Sharing Agreements Executed 2 Construction Started 2 Construction Completed 1 Project(s) Deferred/Deauthorized										

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
**Project Status Summary Report - Lead Agency: DEPT. OF AGRICULTURE (NRCS)**

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
<b>Priority List 16</b>										
Alligator bend Marsh Restoration & Shoreline Protection	PONT	ORL	181	11-Jun-2008 A	01-Sep-2013 *	30-Aug-2014	\$1,660,985	\$1,660,985	100.0	\$1,374,073 \$1,364,230
	<b>Status:</b>	Project Design was completed in November 2011. Task Force did not approve funding for construction at January 2012 meeting. Project will request funding again at the January 2013 meeting.								
<hr/>										
	Total Priority List	16	181				\$1,660,985	\$1,660,985	100.0	\$1,374,073 \$1,364,230

- 1 Project(s)
- 1 Cost Sharing Agreements Executed
- 0 Construction Started
- 0 Construction Completed
- 0 Project(s) Deferred/Deauthorized

<b>Priority List 17</b>										
Sediment Containment System for Marsh Creation Demo	COAST	COAST	0	28-Jan-2008 A	08-Jan-2013 A	11-Sep-2013 A	\$1,163,343	\$1,163,343	100.0	\$980,892 \$600,361
	<b>Status:</b>	LA-9 Demo Project was included with the PO-75 Pilot Study. Project was awarded on January 7, 2013.								
West Pointe a la Hache Marsh Creation	BARA	PLAQ	203	24-Jan-2008 A	01-Sep-2014	30-Aug-2015	\$1,620,740	\$1,620,740	100.0	\$1,361,685 \$610,007
	<b>Status:</b>	Project Team is waiting on results from BA-42 project regarding borrow site. Geotechnical Investigation and Surveying of fill placement area has begun. A 30% review meeting is anticipated for May 2013.								

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
**Project Status Summary Report - Lead Agency: DEPT. OF AGRICULTURE (NRCS)**

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
Total Priority List		17	203				\$2,784,083	\$2,784,083	100.0	\$2,342,577 \$1,210,368
2 Project(s) 2 Cost Sharing Agreements Executed 1 Construction Started 1 Construction Completed 0 Project(s) Deferred/Deauthorized										

**Priority List 18**

Cameron-Creole Freshwater Introduction	CA/SB	CAMER	473	04-May-2009 A	04-Apr-2012 A	01-Jul-2016	\$2,696,928	\$2,540,030	94.2	\$1,911,339 \$1,522,791
<b>Status:</b> Design on project has been halted pending results from Southwest Study model. Project Team will review status in January 2013.										
Central Terrebonne Freshwater Enhancement	TERRE	TERRE	456	04-May-2009 A	01-Sep-2014	01-Jul-2016	\$2,326,289	\$2,326,289	100.0	\$1,858,769 \$1,158,831
<b>Status:</b> Initial model runs show successful change in salinity. Current scenarios being evaluated are analyzing impacts on velocity. Design is now concurrent with modeling effort. A 30% review is anticipated for June 2014.										

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
**Project Status Summary Report - Lead Agency: DEPT. OF AGRICULTURE (NRCS)**

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
Non-Rock Alternatives to Shoreline Protection Demo	COAST	COAST	0	04-May-2009 A	27-May-2013 *	24-Apr-2017	\$12,767,672	\$1,906,237	14.9	\$5,970,972 \$3,934,367
	<b>Status:</b>	Projected Timelines								
		Project was advertised on Nov. 15, 2011								
		Site Visits Nov. 16 & 17, 2011								
		Proposals Due on RFP Mar. 15, 2012)								
		< Phase I >								
		Review of Proposals May 14, 2012)								
		Interview Process June 28, 2012)								
		< Phase 2 >								
		Notice of Selection (for Phase 2 design) (July 13, 2012)								
		Draft Design Schedule from NRCS (Aug. 3, 2012)								
		Phase 2 Contract Award (Aug. 13, 2012)								
		Final Design Schedule from NRCS (Aug. 17, 2012)								
		Begin Surveys and Prepare P&S for advertisement (Sep. 19, 2012)								
		Final Product Selection and Develop Phase III Budget (Nov. 26, 2012)								
		Submit Budget Increase Request to Technical Committee (TC) (Nov. 27, 2012)								
		Request Task Force Approval and Budget January 17, 2013								
		< Phase 3 >								
		Notice of Selection (for Phase III) (Jan. 25, 2013)								
		Advertise NRCS Dredging Contract (Mar. 18, 2013)								
		Finalize NRCS Plans & Specifications (May 25, 2013)								
		Phase 3 Contract Award (May 27, 2013)								



**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
**Project Status Summary Report - Lead Agency: DEPT. OF AGRICULTURE (NRCS)**

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
Total Priority List		19	994				\$4,997,270	\$4,997,270	100.0	\$4,487,673 \$3,148,206
2 Project(s) 2 Cost Sharing Agreements Executed 0 Construction Started 0 Construction Completed 0 Project(s) Deferred/Deauthorized										

**Priority List 20**

Coastwide Vegetative Planting	COAST	COAST	779	20-Sep-2011 A	27-Jul-2012 A	01-Jun-2013 *	\$12,689,725	\$5,850,509	46.1	\$4,350,405 \$1,098,800
<b>Status:</b> In Year 1 the project selected three locations for planting contracts: 1) South Lake DeCade has been advertised and is scheduled to be awarded in August 2012.  2)Marsh Island is scheduled to be advertised in September 2012 and will be planted in Spring 2013.  3)Cameron Creole is scheduled to be advertised in October 2012 and will be planted in Spring 2013.										
Kelso Bayou Marsh Creation	CA/SB	CAMER	274	20-Sep-2011 A	01-Sep-2014	30-Aug-2015	\$2,360,609	\$2,360,609	100.0	\$2,208,146 \$904,552
<b>Status:</b> Planning and Design is ongoing. Surveying of fill placement area is completed. Location and subsequent investigation of proposed borrow site is currently under review.										

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
**Project Status Summary Report - Lead Agency: DEPT. OF AGRICULTURE (NRCS)**

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
Total Priority List		20	1,053				\$15,050,334	\$8,211,118	54.6	\$6,558,550 \$2,003,352
2 Project(s) 2 Cost Sharing Agreements Executed 1 Construction Started 0 Construction Completed 0 Project(s) Deferred/Deauthorized										

**Priority List 21**

LaBranche Central Marsh Creation	PONT	STCHA	731	01-Jun-2012 A	01-Sep-2015	01-Aug-2016	\$42,159,208	\$3,885,298	9.2	\$3,612,186 \$1,138,125
<b>Status:</b> Project is currently in the planning and design phase. A 30% review meeting is anticipated for May 2014.										
Total Priority List		21	731				\$42,159,208	\$3,885,298	9.2	\$3,612,186 \$1,138,125

- 1 Project(s)
- 1 Cost Sharing Agreements Executed
- 0 Construction Started
- 0 Construction Completed
- 0 Project(s) Deferred/Deauthorized

**Priority List 22**

North Catfish Lake Marsh Creation	TERRE	LAFOU	401				\$30,385,887	\$3,216,194	10.6	\$2,562,529 \$63,582
<b>Status:</b>										

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
**Project Status Summary Report - Lead Agency: DEPT. OF AGRICULTURE (NRCS)**

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
Total Priority List		22	401				\$30,385,887	\$3,216,194	10.6	\$2,562,529 \$63,582
<p>1 Project(s)</p> <p>0 Cost Sharing Agreements Executed</p> <p>0 Construction Started</p> <p>0 Construction Completed</p> <p>0 Project(s) Deferred/Deauthorized</p>										
<b>Priority List 23</b>										
South Grand Chenier Marsh Creation – Baker Tract	MERM		393				\$25,441,833	\$2,653,242	10.4	\$1,768,800 \$0
		<b>Status:</b>								
Total Priority List		23	393				\$25,441,833	\$2,653,242	10.4	\$1,768,800 \$0

- 1 Project(s)
- 0 Cost Sharing Agreements Executed
- 0 Construction Started
- 0 Construction Completed
- 0 Project(s) Deferred/Deauthorized

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
**Project Status Summary Report - Lead Agency: DEPT. OF AGRICULTURE (NRCS)**

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
<b>Total</b>	<b>DEPT. OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE</b>		<b>39,499</b>				<b>\$516,517,005</b>	<b>\$406,584,336</b>	<b>78.7</b>	<b>\$333,951,798 \$277,418,974</b>

67 Project(s)  
64 Cost Sharing Agreements Executed  
45 Construction Started  
39 Construction Completed  
11 Project(s) Deferred/Deauthorized

## Notes:

1. Expenditures based on Corps of Engineers financial data.
2. Date codes: A = Actual date \* = Behind schedule
3. Percent codes: ! = 125% of baseline estimate exceeded

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
**Project Status Summary Report - Lead Agency: DEPT. OF THE INTERIOR (USGS)**

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	

**Lead Agency: DEPT. OF THE INTERIOR, U.S. Geological Survey**

**Priority List 0.1**

Coastwide Reference Monitoring System - Wetlands	COAST	COAST		13-Feb-2013 A	14-Aug-2003 A		\$114,607,082	\$75,844,538	66.2	\$62,377,652 \$55,956,103
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**Status:** The status of the CRMS network and data collection is as follows: all sites (391) have approved landrights and are fully constructed. Data collection is occurring at all sites. All data are posted within the DNR SONRIS database. Available data includes hydrologic, vegetation, elevation/accretion, and soil properties and coastwide aerial photography and satellite imagery. Ten CRMS sites were equipped with real time continuous hydrologic gages in September 2010. A CRMS website has been established as an offshoot of LaCoast.gov (<http://www.lacoast.gov/crms2/Home.aspx>). The CRMS website provides graphing, visualizations, and data download functionality. The website is designed to facilitate easy access to data and products.

CRMS analytical teams, including agency and academic personnel, were established for landscape, hydrology, vegetation, soils, and data delivery. The teams have developed ecological indices in consultation with the CWPPRA Monitoring Work Group. The ecological indices are incorporated in the CRMS report card which was released in 2011 and is accessed through the CRMS website. The website continues to evolve to support the data and tools that are developed through the CRMS program.

CRMS data are being used in the Operations, Maintenance, and Monitoring Reports for CWPPRA projects and will be incorporated into the 2012 CWPPRA Report to U.S. Congress to evaluate project effectiveness. Several articles have been submitted for publication and are in peer review, but the following documents have been published:

Coastwide Reference Monitoring System (CRMS): U.S. Geological Survey Fact Sheet 2010-3018, 2 p. <http://pubs.usgs.gov/fs/2010/3018/>.

Cretini, K.F., and Steyer, G.D. 2011, Floristic Quality Index -- An assessment tool for restoration projects and monitoring sites in coastal Louisiana: U.S. Geological Survey Fact Sheet 2011-3044, 4 p. <http://pubs.usgs.gov/fs/2011/3044/>.

Cretini, K.F, Visser, J.M., Krauss, K.W., and Steyer, G.D. 2012. Development and use of a floristic quality index for coastal Louisiana marshes. Environmental Monitoring and Assessment. 184(4):2389-2403.

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
**Project Status Summary Report - Lead Agency: DEPT. OF THE INTERIOR (USGS)**

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
Total Priority List		0.1					\$114,607,082	\$75,844,538	66.2	\$62,377,652 \$55,956,103
<ul style="list-style-type: none"> <li>1 Project(s)</li> <li>1 Cost Sharing Agreements Executed</li> <li>1 Construction Started</li> <li>0 Construction Completed</li> <li>0 Project(s) Deferred/Deauthorized</li> </ul>										

**Priority List 0.2**

Monitoring Contingency Fund	COAST	COAST		22-Sep-2004 A	08-Dec-1999 A		\$1,500,000	\$1,500,000	100.0	\$869,356 \$666,704
<p><b>Status:</b> On July 10, 2009 USGS approved the backlog of previously approved (by P&amp;E) contingency fund requests that were never invoiced (i.e., multiple projects, CRMS implementation plan and landrights) in the amount of \$334,562.53 and a resurveying of Atchafalaya and Big Island projects \$70,894.21 (June 4, 2007).</p> <p>On October 9, 2008, the CWPPRA Task Force approved \$320,000 for 4 tasks associated with Hurricanes Gustav and Ike. A new land water survey (USGS), elevation re-survey (CPRA), helicopter salinity survey (USGS) and retrofit of sondes (CPRA).</p>										

Total Priority List		0.2					\$1,500,000	\$1,500,000	100.0	\$869,356 \$666,704
<ul style="list-style-type: none"> <li>1 Project(s)</li> <li>1 Cost Sharing Agreements Executed</li> <li>1 Construction Started</li> <li>0 Construction Completed</li> <li>0 Project(s) Deferred/Deauthorized</li> </ul>										

**Priority List 0.3**

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
**Project Status Summary Report - Lead Agency: DEPT. OF THE INTERIOR (USGS)**

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
Storm Recovery Assessment Fund	COAST	COAST		21-Aug-2007 A	18-Oct-2006 A		\$569,586	\$569,586	100.0	\$426,056
	<b>Status:</b>	On November 5, 2008, the CWPPRA Task Force approved an additional \$266,227.00 to cover assessments associated with Hurricanes Gustav and Ike. Amendment #1 to the original cooperative agreement was submitted by USGS to the Louisiana CPRA in October 2011. Awaiting signature from Director's of CPRA and USGS.								
Total Priority List		0.3					\$569,586	\$569,586	100.0	\$426,056

- 1 Project(s)
- 1 Cost Sharing Agreements Executed
- 1 Construction Started
- 0 Construction Completed
- 0 Project(s) Deferred/Deauthorized

**Priority List 0.4**

Construction Program Technical Support Services Fund	COAST	COAST	0	19-Oct-2011 A			\$372,036	\$558,054	150.0 !	\$496,941
	<b>Status:</b>									
Total Priority List		0.4	0				\$372,036	\$558,054	150.0	\$496,941

- 1 Project(s)
- 1 Cost Sharing Agreements Executed
- 0 Construction Started
- 0 Construction Completed
- 0 Project(s) Deferred/Deauthorized

**COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT**  
**Project Status Summary Report - Lead Agency: DEPT. OF THE INTERIOR (USGS)**

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/Expenditures
				CSA	Const Start	Const End	Baseline	Current	%	
<b>Total</b>	<b>DEPT. OF THE INTERIOR, U.S.</b>		<b>0</b>				<b>\$117,048,704</b>	<b>\$78,472,178</b>	<b>67.0</b>	<b>\$64,170,005</b> <b>\$57,129,985</b>

- 4 Project(s)
- 4 Cost Sharing Agreements Executed
- 3 Construction Started
- 0 Construction Completed
- 0 Project(s) Deferred/Deauthorized

Notes:

1. Expenditures based on Corps of Engineers financial data.
2. Date codes: A = Actual date \* = Behind schedule
3. Percent codes: ! = 125% of baseline estimate exceeded

## COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

## Project Status Summary Report by Basin

	No. of Projects	Acres	CSA Executed	Under Const.	Completed	Projects Deauth.	Baseline Estimate	Current Estimate	Expenditures To Date
<b>Basin: Atchafalaya</b>									
Priority List: 2	2	3,792	2	2	2	0	\$8,458,713	\$9,458,771	\$8,685,424
Priority List: 9	1		1	0	0	1	\$1,484,633	\$1,717,883	\$1,717,883
<b>Basin Total</b>	<b>3</b>	<b>3,792</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>\$9,943,346</b>	<b>\$11,176,653</b>	<b>\$10,403,307</b>
<b>Basin: Barataria</b>									
Priority List: 1	3	620	3	3	3	0	\$9,960,769	\$13,953,487	\$11,596,584
Priority List: 2	1	510	1	1	1	0	\$3,398,867	\$28,873,513	\$22,711,406
Priority List: 3	3	646	3	1	1	1	\$4,160,823	\$7,092,040	\$3,988,388
Priority List: 4	2	232	2	1	1	1	\$4,611,094	\$3,384,598	\$3,166,796
Priority List: 5	2	633	2	1	1	1	\$17,269,755	\$2,708,830	\$2,436,924
Priority List: 6	1	217	1	1	1	0	\$5,019,900	\$5,224,477	\$4,774,706
Priority List: 7	2	1,431	2	2	2	0	\$18,443,924	\$28,198,357	\$26,769,948
Priority List: 9	3	264	3	1	0	2	\$49,550,137	\$39,682,936	\$12,362,816
Priority List: 10	2	941	1	0	0	1	\$4,901,948	\$4,906,012	\$3,339,649
Priority List: 11	5	1,808	5	5	5	0	\$168,205,123	\$167,395,411	\$150,664,478
Priority List: 12	1	326	1	1	0	0	\$28,342,879	\$27,162,306	\$21,801,949
Priority List: 14	2	106	2	1	1	1	\$24,861,461	\$22,786,429	\$18,111,377
Priority List: 15	1	447	1	1	0	0	\$38,040,158	\$37,968,898	\$9,901,331
Priority List: 17	2	389	2	0	0	0	\$40,160,355	\$39,605,333	\$2,177,936
Priority List: 18	1	370	0	0	0	0	\$42,579,616	\$42,095,162	\$2,455,194
Priority List: 19	1	308	1	0	0	0	\$3,419,263	\$3,419,263	\$1,109,616
Priority List: 21	1	407	1	0	0	0	\$23,198,757	\$2,354,788	\$681,019
Priority List: 22	2	686	2	0	0	0	\$61,971,868	\$5,724,529	\$30,713
Priority List: 23	2	445	0	0	0	0	\$60,139,039	\$6,393,076	\$0
<b>Basin Total</b>	<b>37</b>	<b>10,786</b>	<b>33</b>	<b>19</b>	<b>16</b>	<b>7</b>	<b>\$608,235,736</b>	<b>\$488,929,443</b>	<b>\$298,080,828</b>

## COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

## Project Status Summary Report by Basin

	No. of Projects	Acres	CSA Executed	Under Const.	Completed	Projects Deauth.	Baseline Estimate	Current Estimate	Expenditures To Date
<b>Basin: Breton Sound</b>									
Priority List: 2	1	802	1	1	1	0	\$2,522,199	\$4,536,000	\$3,916,030
Priority List: 3	1		1	0	0	1	\$756,134	\$32,862	\$32,862
Priority List: 4	1		0	0	0	1	\$2,468,908	\$65,747	\$65,747
Priority List: 8	1		0	0	0	1	\$2,500,239	\$56,476	\$56,476
Priority List: 10	2	267	1	1	1	1	\$4,339,140	\$3,398,501	\$2,850,003
Priority List: 14	1		1	0	0	1	\$1,595,677	\$1,020,420	\$1,020,420
Priority List: 15	1	620	0	0	0	0	\$1,205,354	\$9,510	\$9,510
Priority List: 17	2	409	2	0	0	1	\$33,826,686	\$32,652,678	\$2,373,205
Priority List: 18	1		1	0	0	1	\$2,129,816	\$2,129,816	\$477,683
<b>Basin Total</b>	11	2,098	7	2	2	7	\$51,344,153	\$43,902,010	\$10,801,935

## COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

## Project Status Summary Report by Basin

	No. of Projects	Acres	CSA Executed	Under Const.	Completed	Projects Deauth.	Baseline Estimate	Current Estimate	Expenditures To Date
<b>Basin: Calcasieu/Sabine</b>									
Priority List: 1	3	6,407	3	3	3	0	\$5,770,187	\$3,005,492	\$2,645,334
Priority List: 2	4	2,737	4	3	3	1	\$8,568,462	\$11,661,471	\$10,278,989
Priority List: 3	2	3,555	2	2	2	0	\$8,301,380	\$10,353,670	\$7,732,524
Priority List: 4	3	1,203	3	2	2	1	\$2,893,802	\$2,870,122	\$2,459,348
Priority List: 5	1	247	1	1	1	0	\$4,800,000	\$3,929,152	\$3,422,804
Priority List: 6	1	3,594	1	1	1	0	\$6,316,806	\$6,170,284	\$5,958,902
Priority List: 8	4	993	4	3	2	0	\$38,949,204	\$28,568,319	\$17,278,152
Priority List: 9	2	623	2	2	2	0	\$9,642,838	\$17,465,805	\$8,457,531
Priority List: 10	1	225	1	1	1	0	\$6,490,751	\$4,944,870	\$4,650,982
Priority List: 11.1	1	330	1	1	1	0	\$19,252,500	\$14,130,233	\$13,989,141
Priority List: 18	1	473	1	1	0	0	\$2,696,928	\$2,540,030	\$1,522,791
Priority List: 20	2	750	2	0	0	0	\$25,766,221	\$4,737,398	\$1,359,254
Priority List: 21	1	489	0	0	0	0	\$29,781,354	\$3,165,322	\$598,884
Priority List: 22	1	264	0	0	0	0	\$27,685,820	\$3,108,025	\$5,278
<b>Basin Total</b>	<b>27</b>	<b>21,890</b>	<b>25</b>	<b>20</b>	<b>18</b>	<b>2</b>	<b>\$196,916,253</b>	<b>\$116,650,191</b>	<b>\$80,359,914</b>

## COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

## Project Status Summary Report by Basin

	No. of Projects	Acres	CSA Executed	Under Const.	Completed	Projects Deauth.	Baseline Estimate	Current Estimate	Expenditures To Date
<b>Basin: Coastal Basins</b>									
Priority List: Cons Plan	1		1	1	1	0	\$238,871	\$143,855	\$143,855
Priority List: 0.1	1		1	1	0	0	\$114,607,082	\$75,844,538	\$56,947,002
Priority List: 0.2	1		1	1	0	0	\$1,500,000	\$1,500,000	\$666,704
Priority List: 0.3	1		1	1	0	0	\$569,586	\$569,586	\$426,056
Priority List: 0.4	1	0	1	0	0	0	\$372,036	\$558,054	\$81,122
Priority List: 6	1	0	1	1	1	0	\$2,140,000	\$806,220	\$806,220
Priority List: 9	1		0	0	0	1	\$1,502,817	\$83,556	\$83,556
Priority List: 10	1	0	1	1	1	0	\$2,006,424	\$2,747,094	\$2,459,632
Priority List: 11	1	14,963	1	1	1	0	\$68,864,870	\$32,235,247	\$22,469,370
Priority List: 12	1	0	1	1	1	0	\$1,080,891	\$1,068,602	\$1,068,602
Priority List: 13	1	0	1	1	1	0	\$1,000,000	\$707,839	\$707,839
Priority List: 16	1	0	1	1	1	0	\$919,599	\$919,599	\$736,686
Priority List: 17	1	0	1	1	1	0	\$1,163,343	\$1,163,343	\$600,361
Priority List: 18	1	0	1	0	0	0	\$12,767,672	\$1,906,237	\$3,934,367
Priority List: 20	1	779	1	1	0	0	\$12,689,725	\$5,850,509	\$1,098,800
<b>Basin Total</b>	<b>15</b>	<b>15,742</b>	<b>14</b>	<b>12</b>	<b>8</b>	<b>1</b>	<b>\$221,422,916</b>	<b>\$126,104,279</b>	<b>\$92,230,173</b>

## COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

## Project Status Summary Report by Basin

	No. of Projects	Acres	CSA Executed	Under Const.	Completed	Projects Deauth.	Baseline Estimate	Current Estimate	Expenditures To Date
<b>Basin: Miss. River Delta</b>									
Priority List: 1	1	9,831	1	1	1	0	\$8,517,066	\$50,863,503	\$43,964,173
Priority List: 3	2	936	1	1	1	1	\$3,666,187	\$1,008,820	\$944,300
Priority List: 4	1		1	0	0	1	\$300,000	\$58,310	\$58,310
Priority List: 6	2	2,386	2	2	2	0	\$7,073,934	\$6,637,339	\$4,233,945
Priority List: 10	1		0	0	0	1	\$1,076,328	\$976,581	\$976,581
Priority List: 12	1		0	0	0	1	\$1,880,376	\$354,791	\$354,791
Priority List: 13	1		0	0	0	1	\$1,137,344	\$310,152	\$310,152
Priority List: 15	1		1	0	0	1	\$1,074,522	\$1,074,522	\$490,532
<b>Basin Total</b>	<b>10</b>	<b>13,153</b>	<b>6</b>	<b>4</b>	<b>4</b>	<b>6</b>	<b>\$24,725,757</b>	<b>\$61,284,017</b>	<b>\$51,332,784</b>

## COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

## Project Status Summary Report by Basin

	No. of Projects	Acres	CSA Executed	Under Const.	Completed	Projects Deauth.	Baseline Estimate	Current Estimate	Expenditures To Date
<b>Basin: Mermentau</b>									
Priority List: 1	2	247	2	2	1	1	\$1,368,671	\$1,319,270	\$1,146,866
Priority List: 2	1	1,593	1	1	1	0	\$2,770,093	\$6,059,652	\$3,396,087
Priority List: 3	1		1	1	0	1	\$126,062	\$103,468	\$103,468
Priority List: 5	1	511	1	1	1	0	\$3,998,919	\$5,609,593	\$2,579,831
Priority List: 7	1	442	1	1	1	0	\$2,185,900	\$2,390,984	\$2,323,315
Priority List: 8	1	378	1	1	1	0	\$1,526,136	\$1,574,926	\$1,150,570
Priority List: 9	2	296	2	1	1	1	\$7,296,603	\$6,463,307	\$6,356,169
Priority List: 10	2	1,133	2	1	1	0	\$11,565,112	\$7,338,000	\$5,036,868
Priority List: 11	2	459	2	0	0	0	\$35,415,359	\$32,338,556	\$2,661,458
Priority List: 12	1	844	1	1	1	0	\$19,673,929	\$10,535,962	\$10,462,852
Priority List: 15	1		1	0	0	1	\$1,102,043	\$779,422	\$779,422
Priority List: 16	1	888	0	0	0	0	\$1,266,842	\$1,266,842	\$11,594
Priority List: 17	1	0	0	1	1	0	\$1,981,822	\$2,316,692	\$1,970,928
Priority List: 19	1	279	1	0	0	0	\$2,425,997	\$2,425,997	\$1,033,882
Priority List: 23	1	393	0	0	0	0	\$25,441,833	\$2,653,242	\$0
<b>Basin Total</b>	<b>19</b>	<b>7,463</b>	<b>16</b>	<b>11</b>	<b>9</b>	<b>4</b>	<b>\$118,145,321</b>	<b>\$83,175,915</b>	<b>\$39,013,310</b>

## COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

## Project Status Summary Report by Basin

	No. of Projects	Acres	CSA Executed	Under Const.	Completed	Projects Deauth.	Baseline Estimate	Current Estimate	Expenditures To Date
<b>Basin: Pontchartrain</b>									
Priority List: 1	2	1,753	2	2	2	0	\$6,119,009	\$5,466,263	\$5,075,752
Priority List: 2	2	2,320	2	2	2	0	\$4,500,424	\$3,894,225	\$3,285,670
Priority List: 3	3	755	3	1	1	2	\$2,683,636	\$967,201	\$967,201
Priority List: 4	1		0	0	0	1	\$5,018,968	\$39,025	\$39,025
Priority List: 5	1	75	1	1	1	0	\$2,555,029	\$2,589,403	\$2,355,937
Priority List: 8	2	134	2	1	1	1	\$5,475,065	\$2,493,439	\$2,123,150
Priority List: 9	3	220	2	1	1	2	\$2,407,524	\$1,230,695	\$1,230,695
Priority List: 10	1	165	1	1	1	0	\$18,378,900	\$28,646,027	\$18,249,538
Priority List: 11	1		1	0	0	1	\$5,434,288	\$6,780,307	\$5,991,279
Priority List: 12	1		0	0	0	1	\$1,348,345	\$1,089,193	\$1,089,193
Priority List: 13	1	436	1	1	1	0	\$21,067,777	\$14,558,123	\$13,716,120
Priority List: 16	1	181	1	0	0	0	\$1,660,985	\$1,660,985	\$1,364,230
Priority List: 19	1	715	1	0	0	0	\$2,571,273	\$2,571,273	\$2,114,324
Priority List: 20	1	478	1	0	0	0	\$23,875,866	\$23,553,196	\$521,876
Priority List: 21	1	731	1	0	0	0	\$42,159,208	\$3,885,298	\$1,138,125
<b>Basin Total</b>	<b>22</b>	<b>7,963</b>	<b>19</b>	<b>10</b>	<b>10</b>	<b>8</b>	<b>\$145,256,297</b>	<b>\$99,424,654</b>	<b>\$59,262,116</b>

## COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

## Project Status Summary Report by Basin

	No. of Projects	Acres	CSA Executed	Under Const.	Completed	Projects Deauth.	Baseline Estimate	Current Estimate	Expenditures To Date
<b>Basin: Teche / Vermilion</b>									
Priority List: 1	1	65	1	1	1	0	\$1,526,000	\$2,047,479	\$2,007,627
Priority List: 2	1	378	1	1	1	0	\$1,008,634	\$1,043,748	\$887,425
Priority List: 3	1	2,223	1	1	1	0	\$5,173,062	\$10,036,640	\$8,268,266
Priority List: 5	1	441	1	1	1	0	\$940,065	\$886,030	\$739,126
Priority List: 6	4	2,567	4	4	4	0	\$10,130,000	\$10,347,331	\$8,931,966
Priority List: 8	1	24	1	1	1	0	\$1,013,820	\$1,181,129	\$1,108,593
Priority List: 9	3	167	1	1	1	2	\$7,814,815	\$3,779,832	\$3,715,080
Priority List: 13	1		1	0	0	1	\$2,254,912	\$2,254,912	\$1,851,658
Priority List: 14	1	169	1	1	1	0	\$23,025,451	\$22,613,085	\$15,461,261
Priority List: 21	1	398	0	0	0	0	\$26,631,223	\$3,136,805	\$339,969
<b>Basin Total</b>	<b>15</b>	<b>6,432</b>	<b>12</b>	<b>11</b>	<b>11</b>	<b>3</b>	<b>\$79,517,982</b>	<b>\$57,326,991</b>	<b>\$43,310,971</b>

## COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

## Project Status Summary Report by Basin

	No. of Projects	Acres	CSA Executed	Under Const.	Completed	Projects Deauth.	Baseline Estimate	Current Estimate	Expenditures To Date
<b>Basin: Terrebonne</b>									
Priority List: 1	5	9	4	3	3	2	\$8,809,393	\$9,296,639	\$9,198,169
Priority List: 2	3	958	3	3	3	0	\$12,831,588	\$23,103,661	\$20,331,964
Priority List: 3	4	3,958	4	4	4	0	\$15,758,355	\$25,068,616	\$22,782,888
Priority List: 4	2	215	2	1	1	1	\$6,119,470	\$7,715,925	\$7,659,234
Priority List: 5	3	0	3	1	1	2	\$31,120,343	\$4,703,403	\$4,703,403
Priority List: 5.1	1		1	0	0	1	\$9,700,000	\$7,452,191	\$7,452,191
Priority List: 6	4	941	2	1	1	2	\$30,522,757	\$34,864,934	\$15,823,310
Priority List: 7	1	0	1	1	1	0	\$460,222	\$538,101	\$538,101
Priority List: 9	4	577	4	4	4	0	\$29,772,484	\$33,961,653	\$30,388,989
Priority List: 10	2	669	2	1	1	0	\$44,750,163	\$45,966,960	\$42,500,063
Priority List: 11	3	348	3	2	1	1	\$37,686,501	\$40,944,894	\$35,316,374
Priority List: 12	1		0	0	0	1	\$2,229,876	\$1,716,949	\$1,716,949
Priority List: 13	1	272	1	1	0	0	\$27,453,090	\$30,163,401	\$29,321,349
Priority List: 16	2	639	2	1	1	0	\$45,252,588	\$44,571,261	\$26,386,992
Priority List: 18	1	456	1	0	0	0	\$2,326,289	\$2,326,289	\$1,158,831
Priority List: 19	1	452	1	0	0	0	\$34,626,728	\$34,626,728	\$765,116
Priority List: 20	1	353	0	0	0	0	\$27,414,402	\$2,901,750	\$536,321
Priority List: 22	1	401	0	0	0	0	\$30,385,887	\$3,216,194	\$63,582
Priority List: 23	1	312	0	0	0	0	\$39,185,267	\$3,721,447	\$0
<b>Basin Total</b>	41	10,560	34	23	21	10	\$436,405,403	\$356,860,995	\$256,643,825
<b>Total All Basins</b>	200	99,879	169	114	1E 10	49	\$1,891,913,164	\$1,444,835,148	\$941,439,163

## COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

## Project Summary Report by Priority List

P/L	No. of Projects	Acres	CSA Executed	Under Const.	Const. Completed	Federal Const. Funds Available	Non/Fed Const. Funds Matching Share	Baseline Estimate	Current Estimate	Obligations To Date	Expenditures To Date
1	14	18,932	14	0	14	\$28,084,900	\$11,341,314	\$39,933,317	\$85,752,657	\$78,108,808	\$75,435,030
2	14	13,090	14	0	14	\$28,173,110	\$14,081,363	\$40,836,180	\$87,533,213	\$72,751,682	\$72,395,167
3	11	12,073	11	0	10	\$29,939,100	\$8,256,219	\$32,879,168	\$53,737,434	\$44,435,458	\$43,894,012
4	4	1,650	4	0	4	\$29,957,533	\$2,155,295	\$10,468,030	\$13,228,247	\$12,573,635	\$12,542,981
5	6	1,907	6	0	6	\$33,371,625	\$1,743,667	\$15,535,356	\$16,992,250	\$12,879,158	\$12,803,865
6	11	9,705	11	0	10	\$39,134,000	\$6,692,951	\$54,614,997	\$63,980,264	\$43,970,326	\$40,458,728
7	4	1,873	4	0	4	\$42,540,715	\$5,120,539	\$21,090,046	\$31,127,442	\$29,741,573	\$29,631,363
8	7	1,529	7	1	5	\$41,864,079	\$5,663,481	\$43,668,651	\$33,605,661	\$25,846,999	\$21,447,607
9	10	2,147	10	1	9	\$47,907,300	\$14,674,717	\$98,530,674	\$96,791,956	\$89,571,177	\$56,719,007
10	9	3,400	9	0	6	\$47,659,220	\$15,286,662	\$88,275,124	\$94,225,498	\$78,317,620	\$75,364,769
11	10	17,578	10	1	7	\$57,332,369	\$38,796,229	\$307,172,893	\$269,196,253	\$212,917,375	\$209,103,474
11.1	1	330	1	0	1	\$0	\$7,065,116	\$19,252,500	\$14,130,233	\$13,989,141	\$13,989,141
12	3	1,170	3	1	2	\$51,938,097	\$6,349,999	\$49,097,699	\$38,766,869	\$36,640,162	\$33,333,403
13	3	708	3	1	2	\$54,023,130	\$7,593,392	\$49,520,867	\$45,429,363	\$46,691,126	\$43,745,308
14	2	275	2	0	2	\$53,054,804	\$7,052,065	\$44,665,025	\$42,464,489	\$32,604,576	\$30,637,613
15	2	1,067	1	1	0	\$58,059,645	\$5,970,199	\$39,245,512	\$37,978,408	\$9,950,306	\$9,910,841
16	5	1,708	4	0	2	\$71,402,872	\$7,262,803	\$49,100,014	\$48,418,687	\$42,207,724	\$28,499,502
17	5	798	4	0	2	\$83,286,685	\$11,503,826	\$75,772,507	\$75,323,628	\$67,211,559	\$6,708,012
18	4	1,299	3	1	0	\$84,916,489	\$7,649,630	\$60,370,505	\$48,867,718	\$45,383,408	\$9,071,183
19	4	1,754	4	0	0	\$79,566,889	\$1,610,512	\$43,043,261	\$43,043,261	\$8,346,717	\$5,022,938
20	5	2,360	4	1	0	\$77,389,442	\$2,219,558	\$89,746,214	\$37,042,853	\$8,225,948	\$3,516,251
21	4	2,025	2	0	0	\$74,239,647	\$1,881,332	\$121,770,542	\$12,542,213	\$10,407,437	\$2,757,998
22	4	1,351	2	0	0	\$75,310,243	\$1,807,312	\$120,043,575	\$12,048,748	\$6,350,531	\$99,572
23	4	1,150	0	0	0	\$64,666,970	\$1,915,165	\$124,766,139	\$12,767,765	\$4,730,523	\$0
Active Projects	146	99,879	133	8	100	\$1,253,818,864	\$198,599,152	\$1,639,398,796	\$1,314,995,110	\$1,033,852,968	\$837,087,767
Deauthorized	50	620	31	2	0			\$136,432,147	\$51,233,514	\$48,549,969	\$46,096,167
Total Projects	195	99,879	164	10	100	\$1,253,818,864	\$198,599,152	\$1,774,625,589	\$1,366,219,115	\$1,082,393,427	\$883,174,424

Cons Plan	1		1	0	1	\$0	\$41,091	\$238,871	\$143,855	\$143,855	\$143,855
CPSSF	1	0	1	0	0	\$0	\$55,805	\$372,036	\$558,054	\$496,941	\$81,122
CRMS	1		1	1	0	\$0	\$9,956,326	\$114,607,082	\$75,844,538	\$62,377,652	\$56,947,002
MCF	1		1	1	0	\$0	\$225,000	\$1,500,000	\$1,500,000	\$666,704	\$666,704
SRAF	1		1	1	0	\$0	\$85,438	\$569,586	\$569,586	\$426,056	\$426,056
Total Construction Program	200	99,879	169	13	101	\$1,253,818,864	\$208,907,008	\$1,891,913,164	\$1,444,835,148	\$1,146,504,635	\$941,439,163
							\$1,462,725,871				