



26th PRIORITY PROJECT LIST REPORT (APPENDICES)

PREPARED BY:

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

September 2017

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Appendix A

Summary and Complete Text of the CWPPRA

COASTAL WETLANDS PLANNING, PROTECTION & RESTORATION ACT

Public Law 101-646, Title III

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

26th 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 interspersions, 4) percent of the open water area ≤ 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 V₁ (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 V₁ - 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 V₁ and established optimal habitat conditions at 100 percent marsh cover.

Variable V₂ - 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 V₂ 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 V₃ - 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 V₁. 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 V₄ - 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 V₅ - 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 V₆ - 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 V₆ 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 V₆ 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 V₁, V₂, and V₆ 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 V₃, V₄, and V₅ were grouped to isolate their influence relative to V₁, V₂, and V₆.

For all marsh models, V₁ receives the strongest weighting. The relative weights of V₁, V₂, and V₆ 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, V₂ 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_6 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_2 and V_4 , 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_2 and V_4 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_2 and V_4 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_2 and V_4 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_1 , V_3 , V_5 , and V_6). Likewise, the open water HSI formula contains only those variables important in characterizing the open water habitat (i.e., V_2 , V_3 , V_4 , V_5 , and V_6). 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 V₁ Percent of wetland area covered by emergent vegetation.

Variable V₂ Percent of open water area covered by aquatic vegetation.

Interspersion:

Variable V₃ Marsh edge and interspersion.

Water Depth:

Variable V₄ Percent of open water area \leq 1.5 feet deep, in relation to marsh surface.

Water Quality:

Variable V₅ Mean high salinity during the growing season (March through November).

Aquatic Organism Access:

Variable V₆ Aquatic organism access.

HSI Calculations:

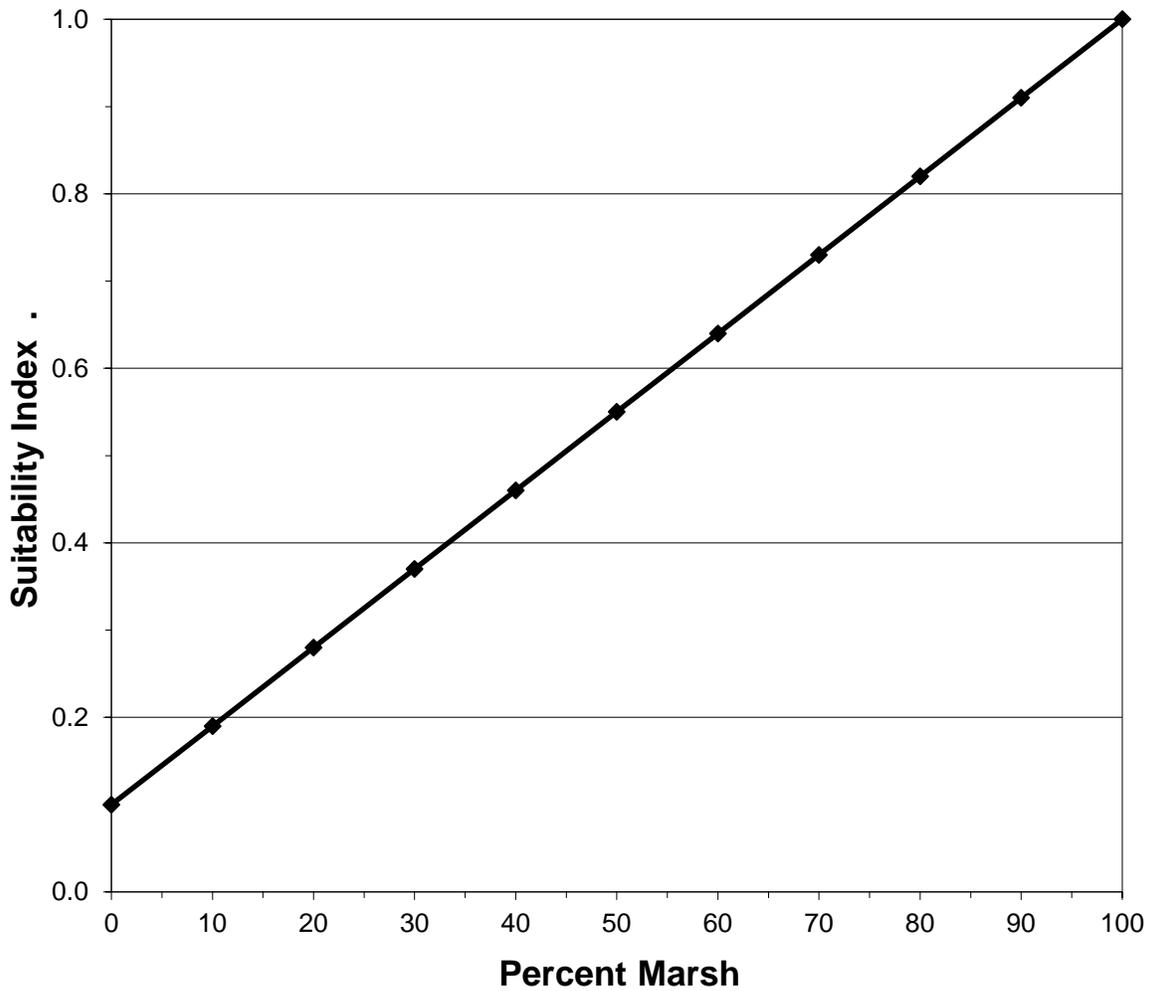
$$\text{Marsh HSI} = \left[\{3.5 \times (SIV_1^5 \times SIV_6)^{1/6}\} + (SIV_3 + SIV_5)/2 \right] / 4.5$$

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

FRESH/INTERMEDIATE MARSH

Variable V₁ Percent of wetland area covered by emergent vegetation.

Suitability Graph



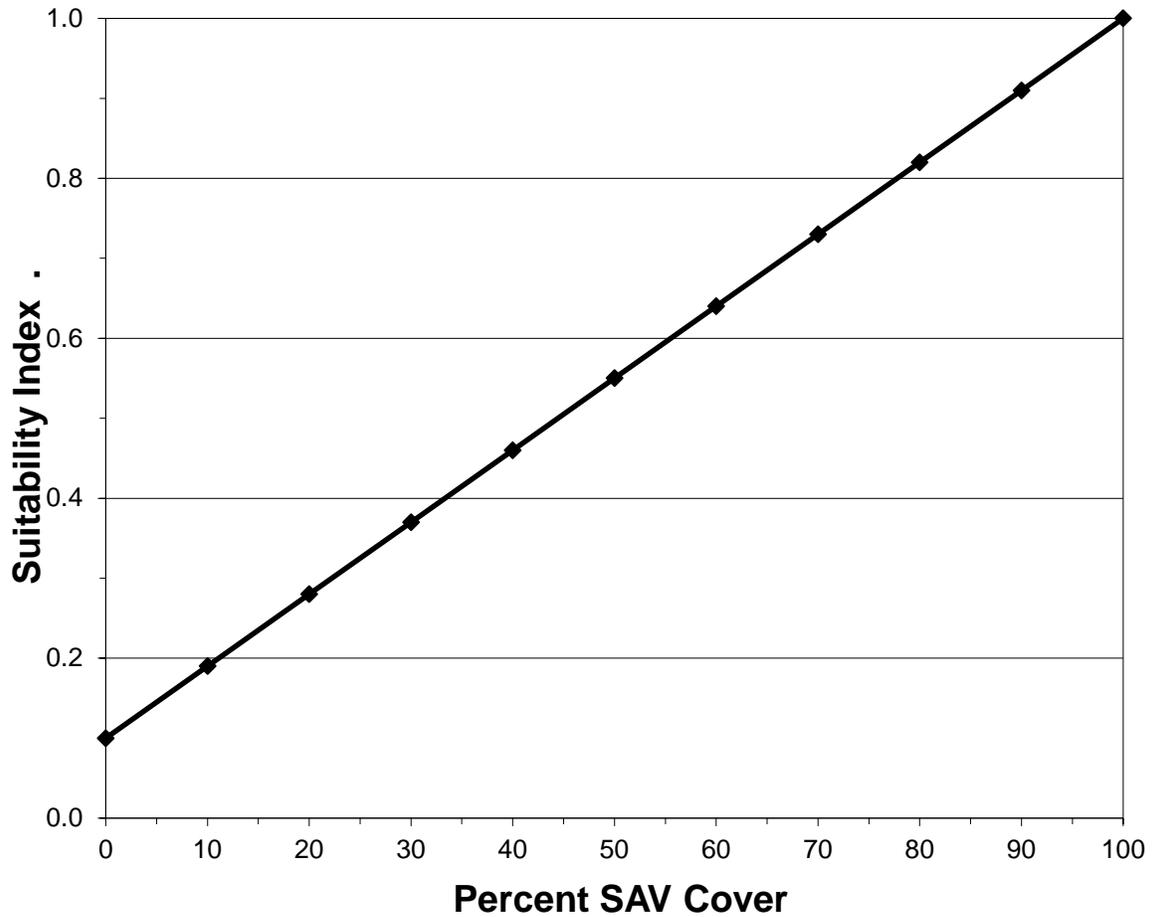
Line Formula

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

FRESH/INTERMEDIATE MARSH

Variable V₂ Percent of open water area covered by aquatic vegetation.

Suitability Graph



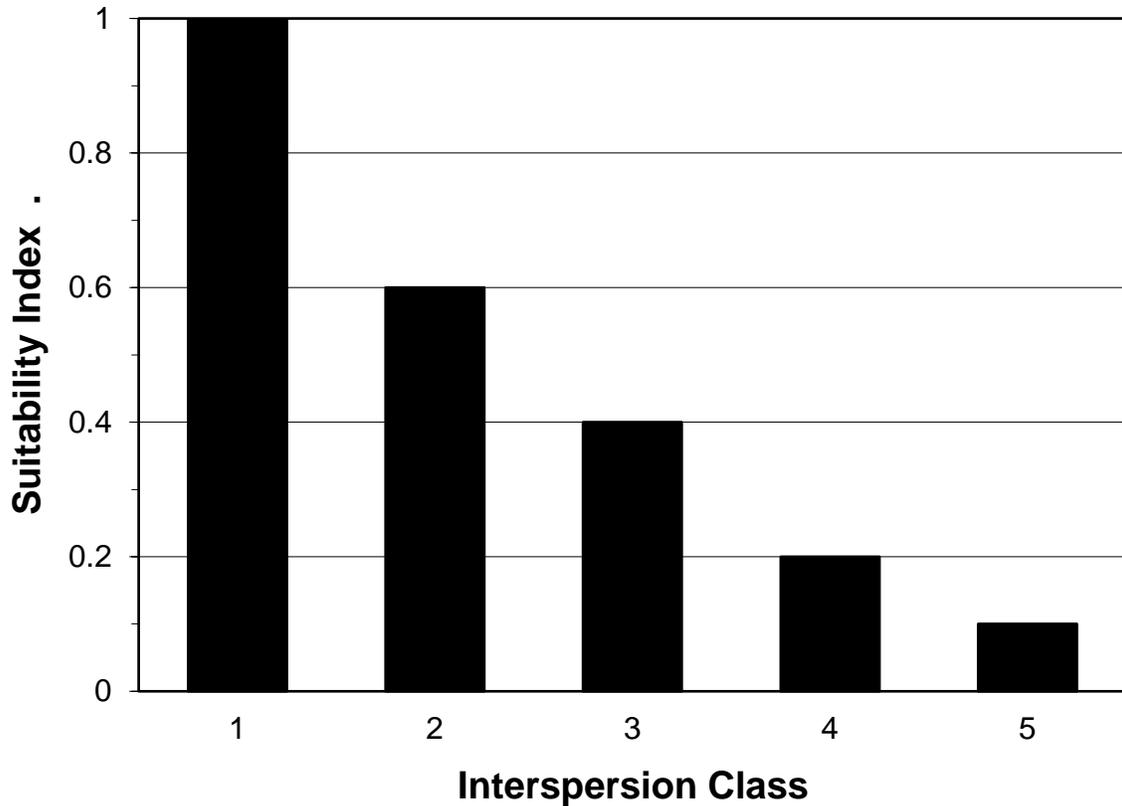
Line Formula

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

FRESH/INTERMEDIATE MARSH

Variable V₃ Marsh edge and interspersion.

Suitability Graph



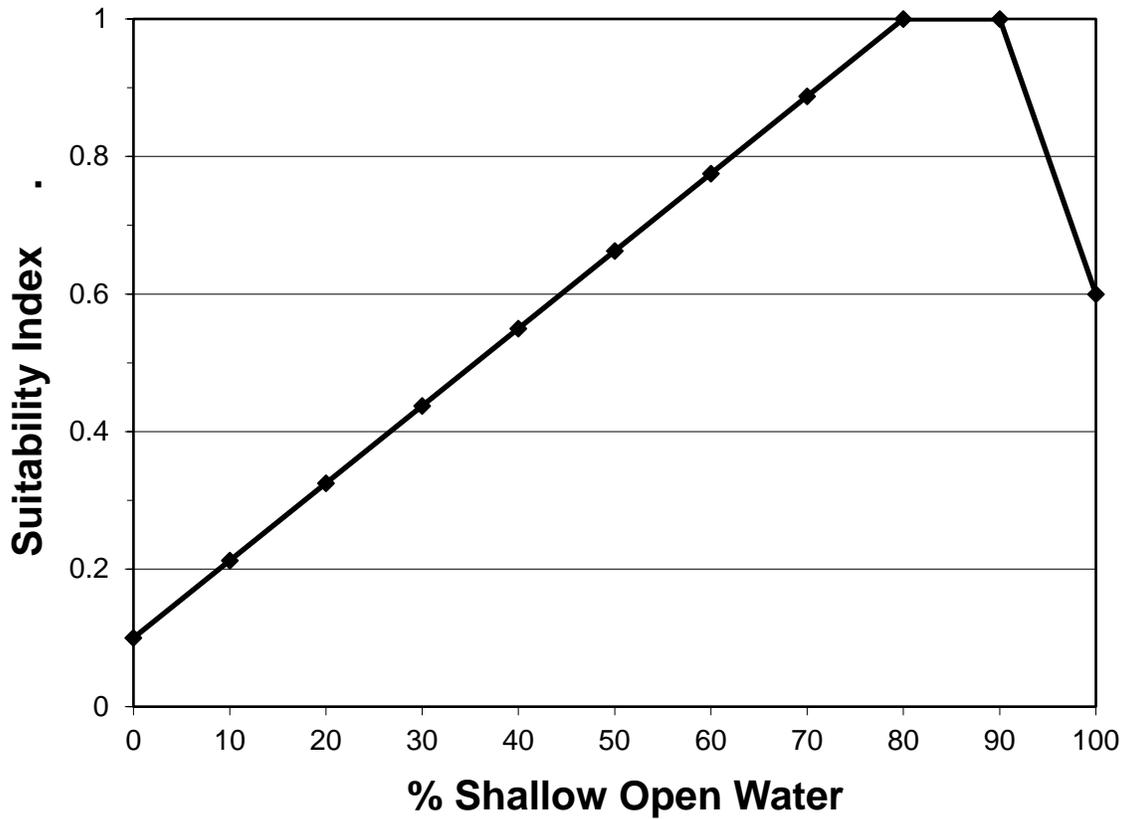
Instructions for Calculating the SI for Variable V₃:

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 V₄ Percent of open water area ≤ 1.5 feet deep, in relation to marsh surface.

Suitability Graph



Line Formulas

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

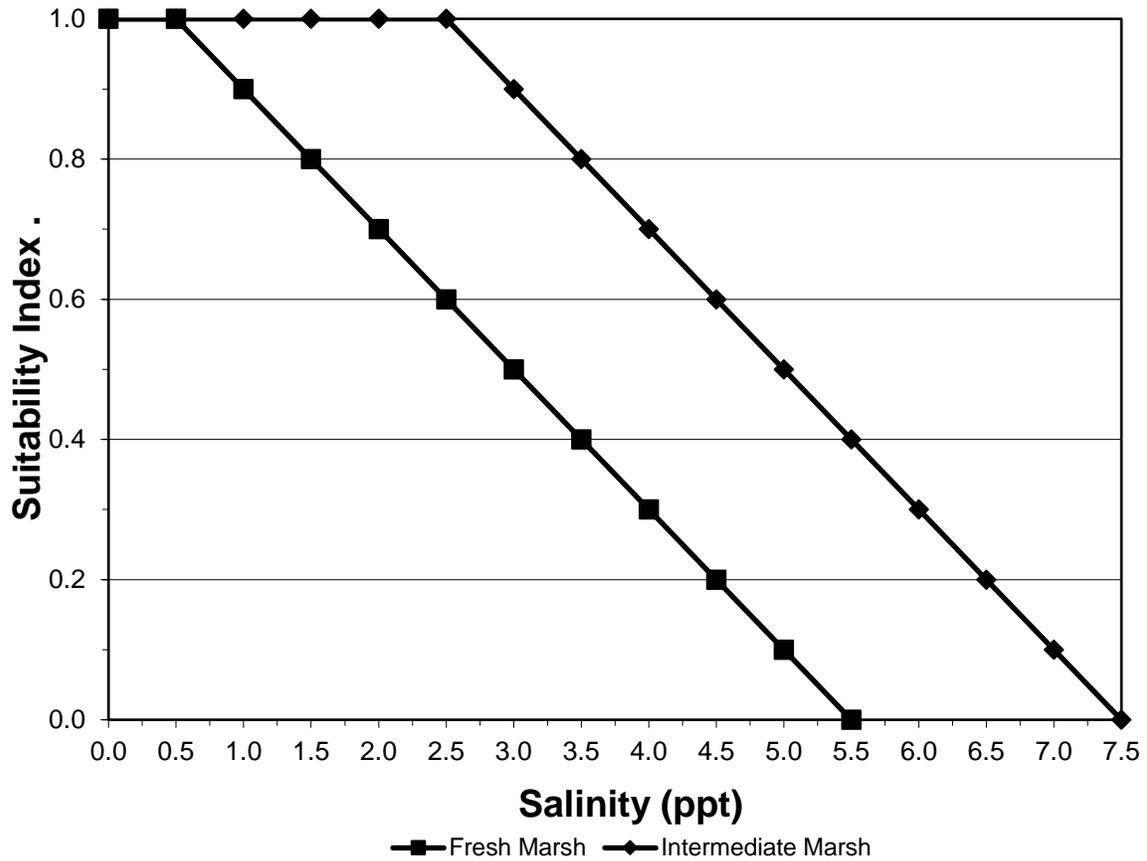
If $80 \leq \% \leq 90$, then $SI = 1.0$

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

FRESH/INTERMEDIATE MARSH

Variable V₅ 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 $SI = (-0.20 * \text{ppt}) + 1.10$

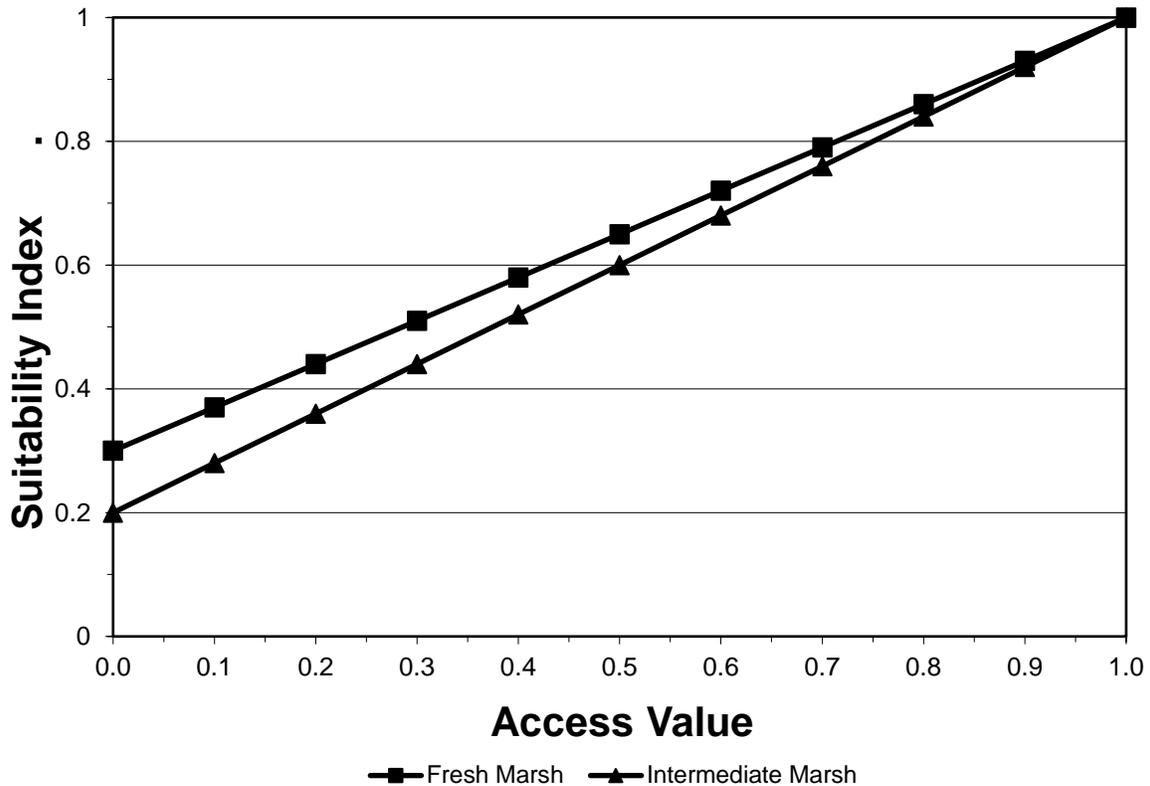
Intermediate Marsh:

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 V₆ 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 V₁ Percent of wetland area covered by emergent vegetation.

Variable V₂ Percent of open water area covered by aquatic vegetation.

Interspersion:

Variable V₃ Marsh edge and interspersion.

Water Depth:

Variable V₄ Percent of open water area \leq 1.5 feet deep, in relation to marsh surface.

Water Quality:

Variable V₅ Average annual salinity.

Aquatic Organism Access

Variable V₆ Aquatic organism access.

HSI Calculations:

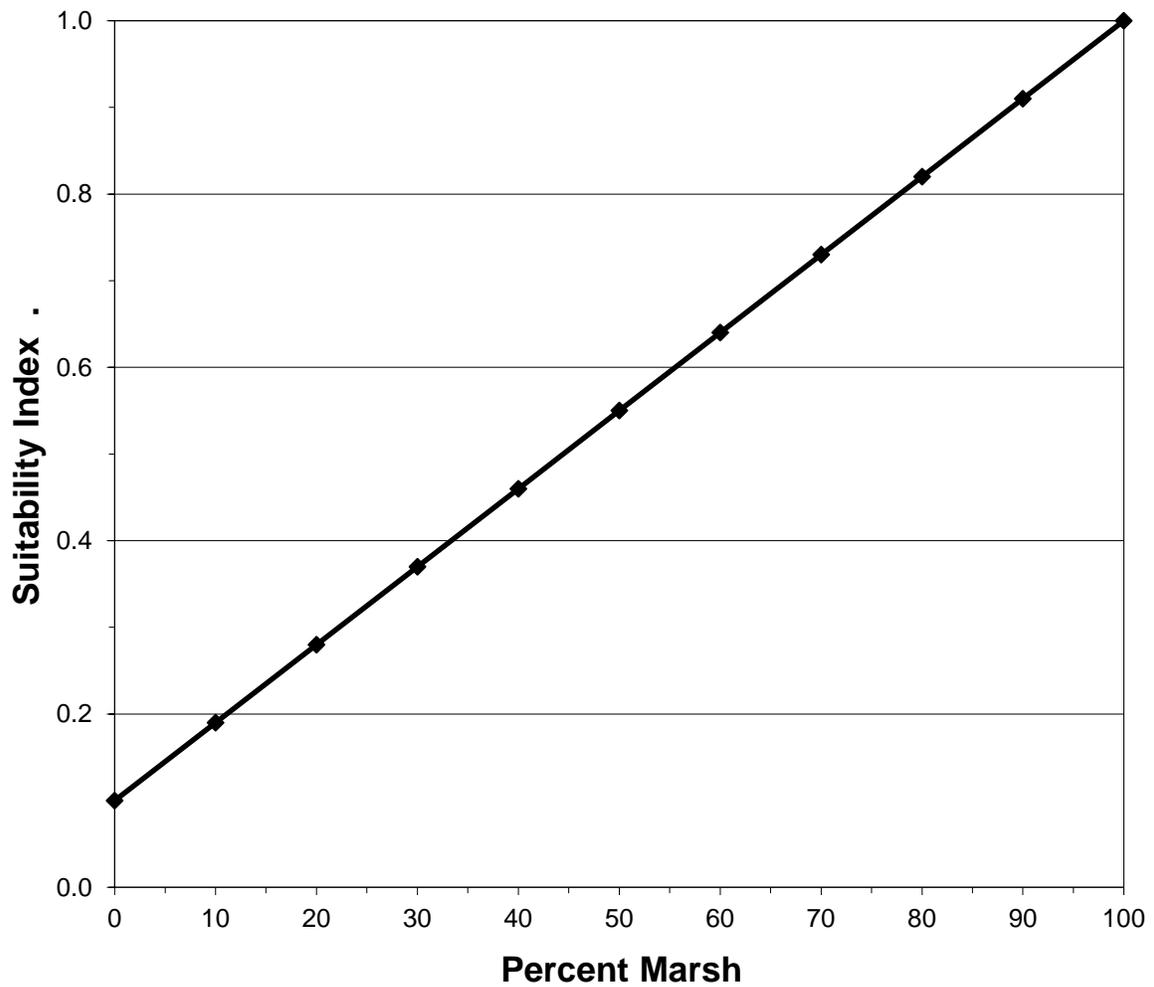
$$\text{Marsh HSI} = \left[\{3.5 \times (SIV_1^5 \times SIV_6^{1.5})^{(1/6.5)}\} + (SIV_3 + SIV_5)/2 \right] / 4.5$$

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

BRACKISH MARSH

Variable V₁ Percent of wetland area covered by emergent vegetation.

Suitability Graph



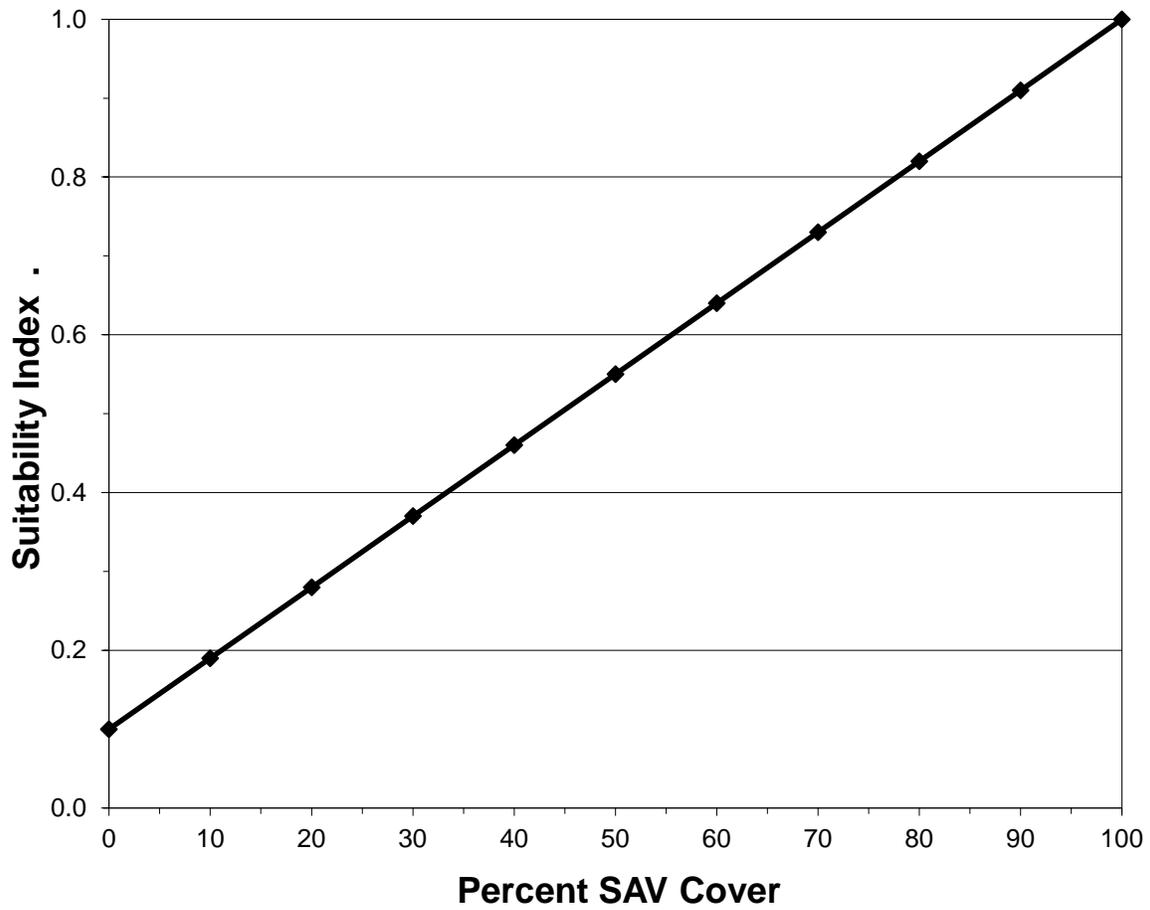
Line Formula

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

BRACKISH MARSH

Variable V₂ Percent of open water area covered by aquatic vegetation.

Suitability Graph



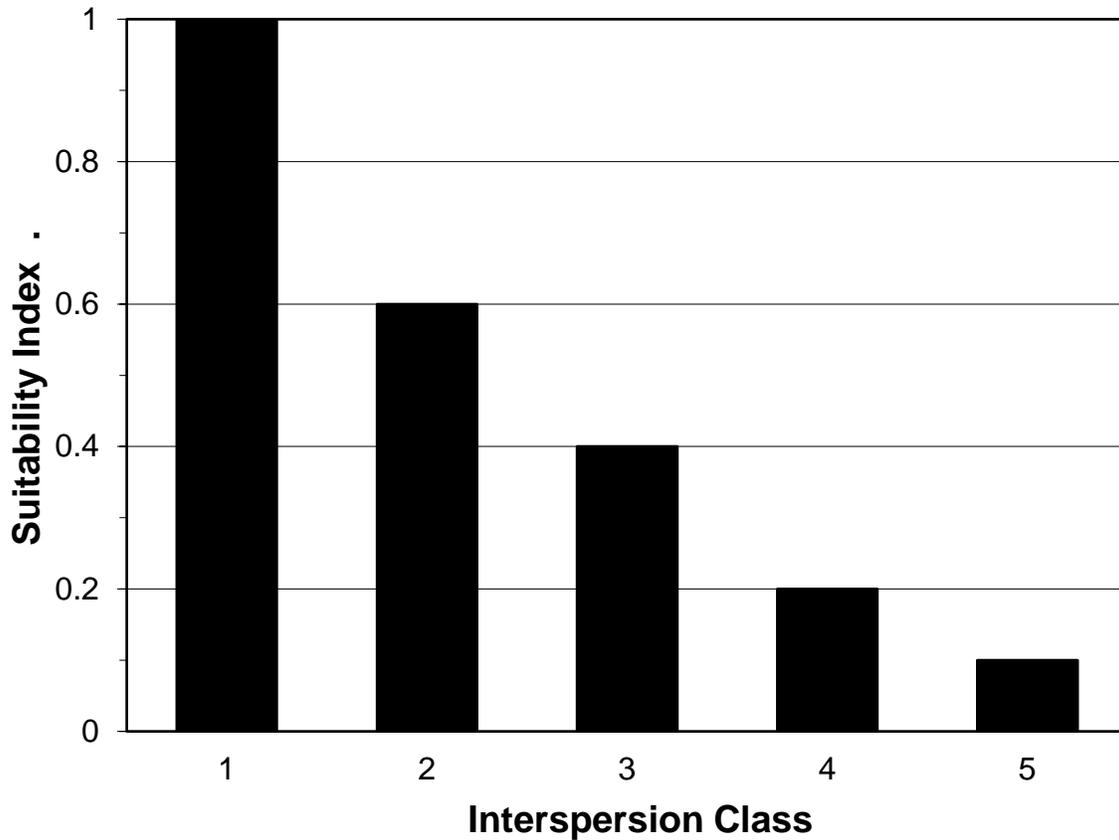
Line Formula

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

BRACKISH MARSH

Variable V₃ Marsh edge and interspersion.

Suitability Graph



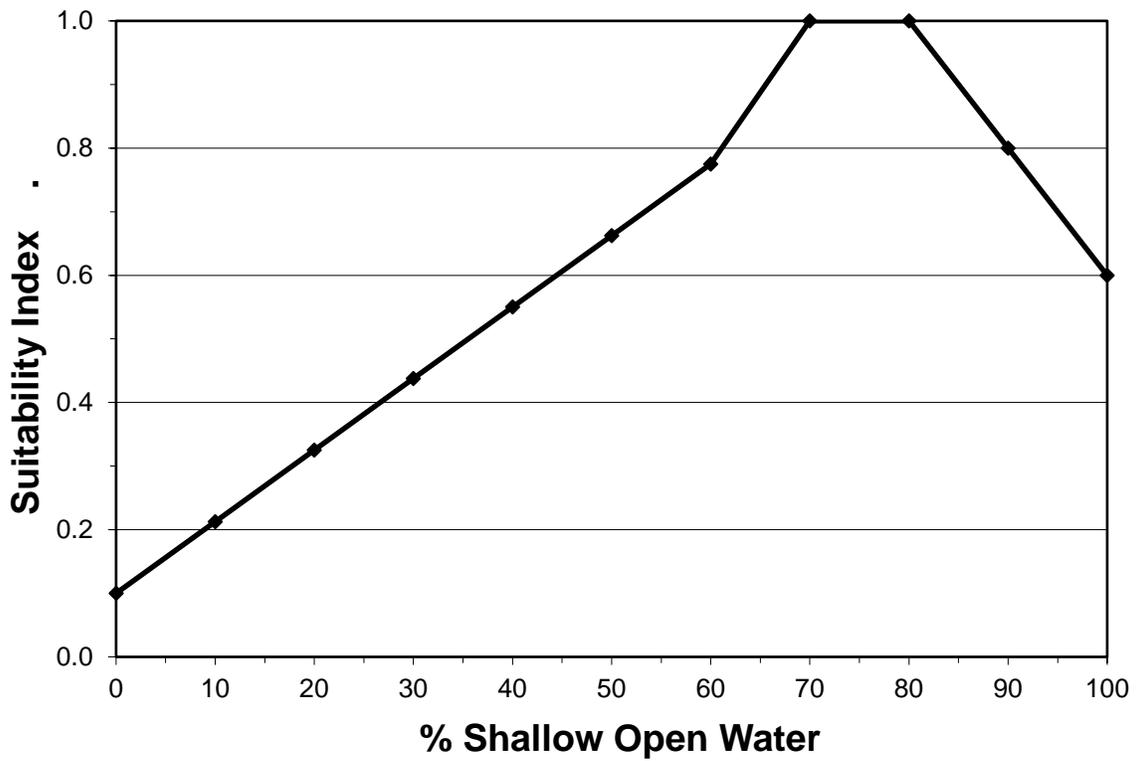
Instructions for Calculating SI for Variable V₃:

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 V₄ Percent of open water area \leq 1.5 feet deep, in relation to marsh surface.

Suitability Graph



Line Formulas

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

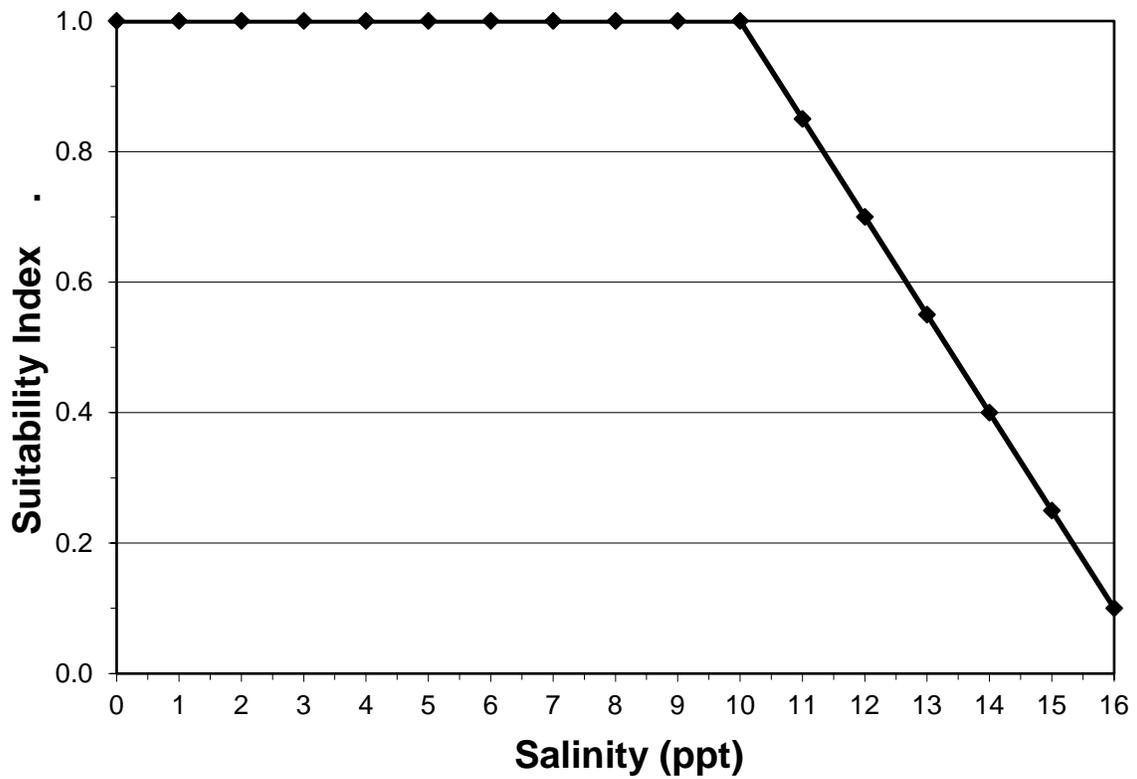
If $70 \leq \% \leq 80$, then $SI = 1.0$

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

BRACKISH MARSH

Variable V₅ Average annual salinity.

Suitability Graph



Line Formulas

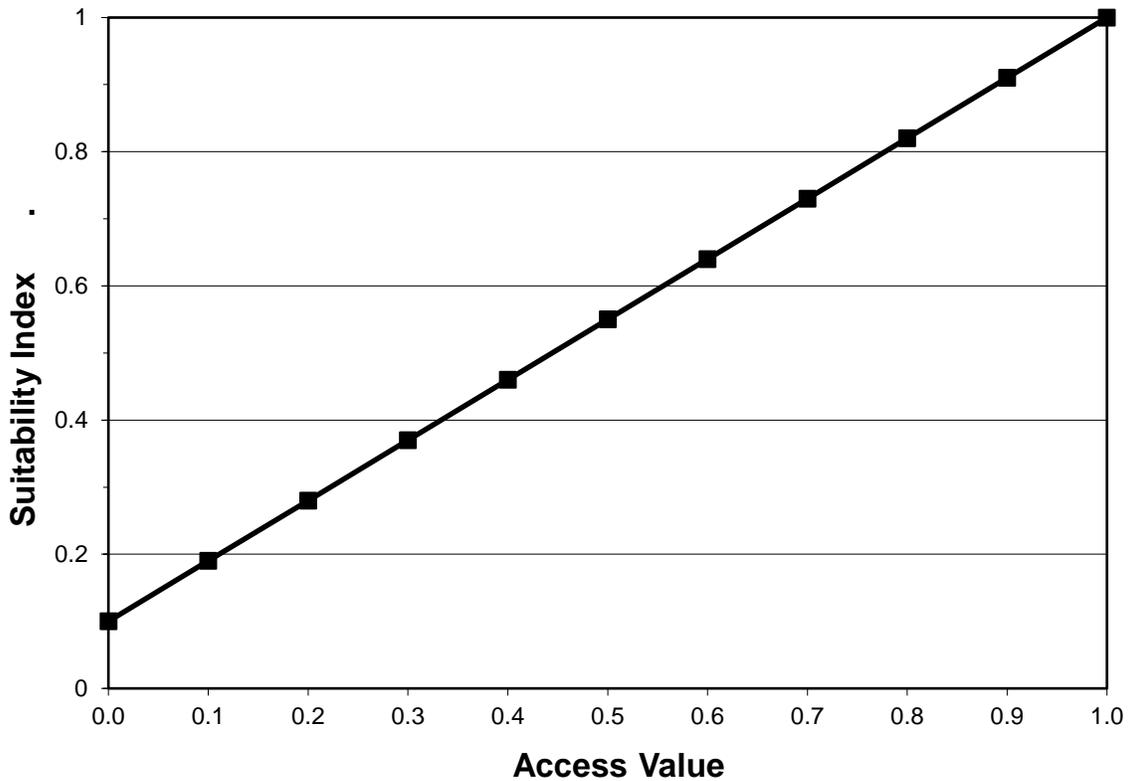
If $0 \leq \text{ppt} \leq 10$, then $SI = 1.0$

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

BRACKISH MARSH

Variable V₆ 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 V₁ Percent of wetland area covered by emergent vegetation.

Variable V₂ Percent of open water area covered by aquatic vegetation.

Interspersion:

Variable V₃ Marsh edge and interspersion.

Water Depth:

Variable V₄ Percent of open water area $\square \leq$ 1.5 feet deep, in relation to marsh surface.

Water Quality:

Variable V₅ Average annual salinity.

Aquatic Organism Access:

Variable V₆ Aquatic organism access.

HSI Calculation:

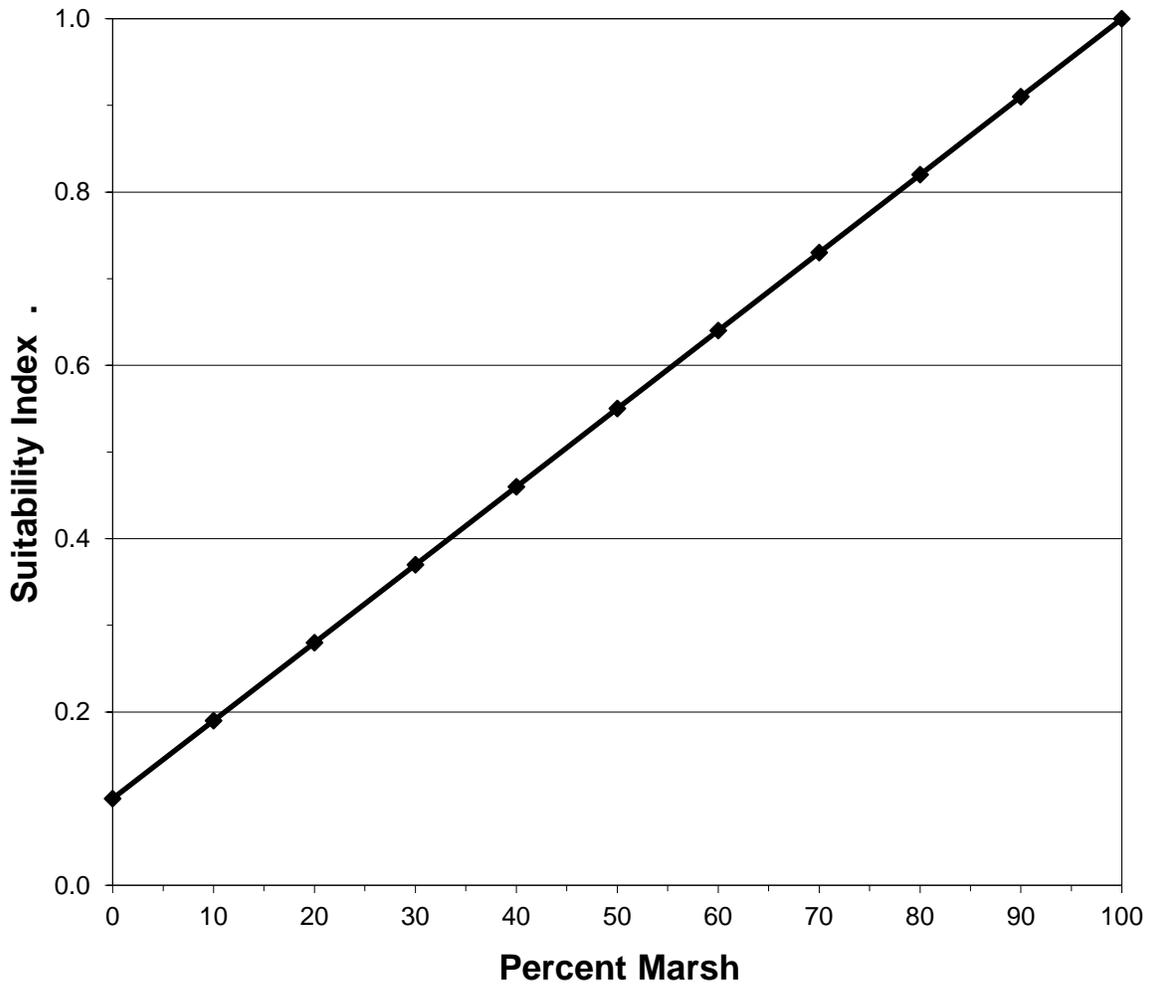
$$\text{Marsh HSI} = \left[\{3.5 \times (SIV_1^3 \times SIV_6)^{(1/4)}\} + (SIV_3 + SIV_5)/2 \right] / 4.5$$

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

SALINE MARSH

Variable V₁ Percent of wetland area covered by emergent vegetation.

Suitability Graph



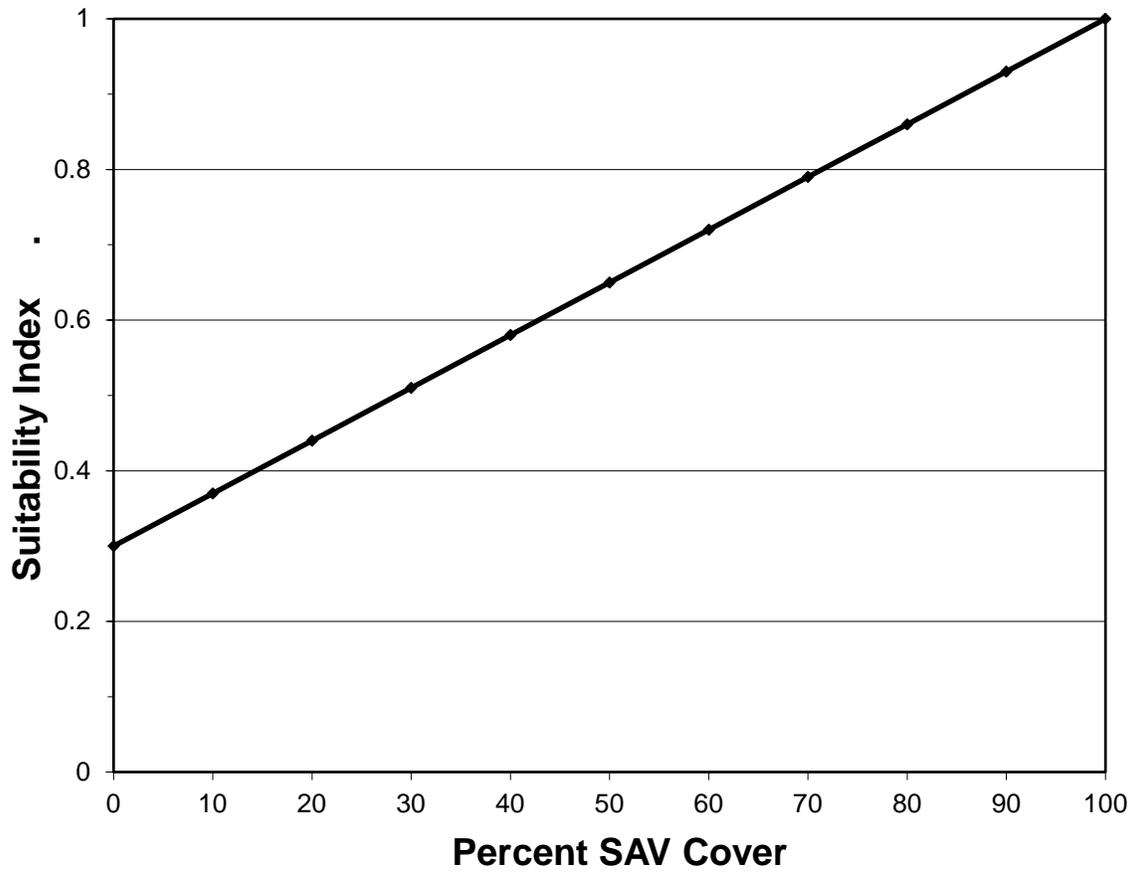
Line Formula

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

SALINE MARSH

Variable V₂ Percent of open water area covered by aquatic vegetation.

Suitability Graph



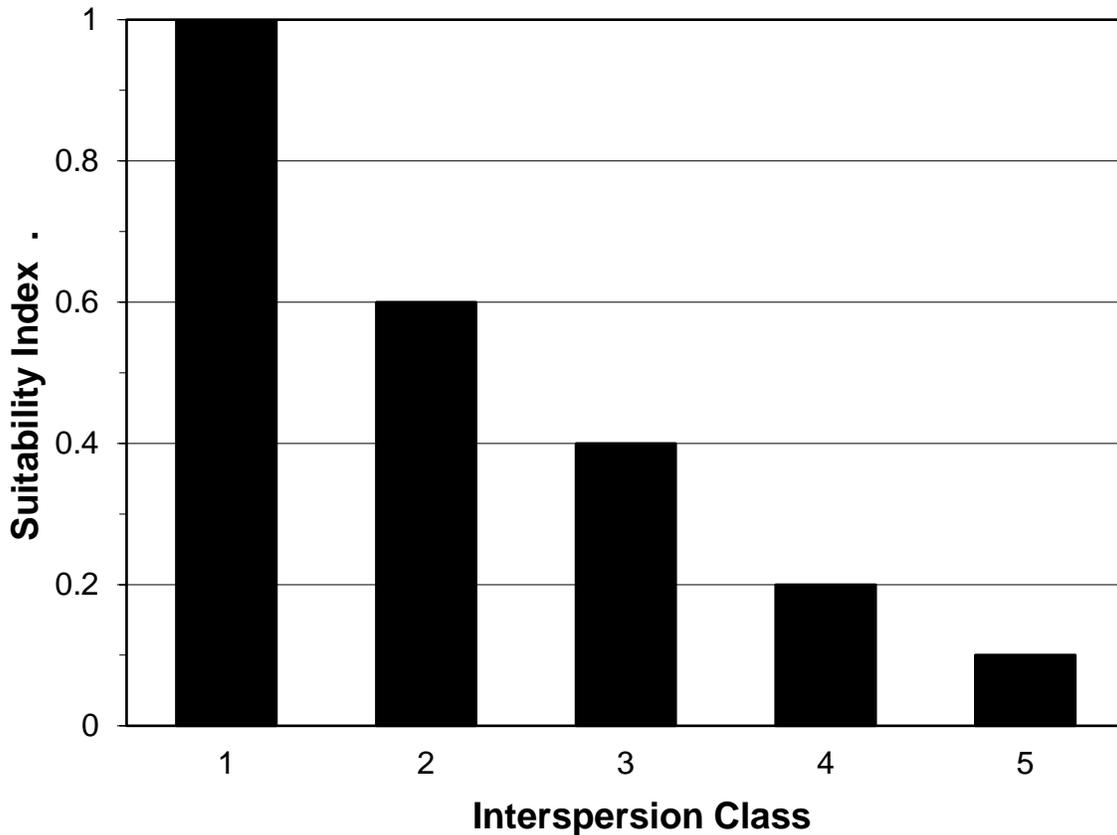
Line Formula

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

SALINE MARSH

Variable V₃ Marsh edge and interspersion.

Suitability Graph



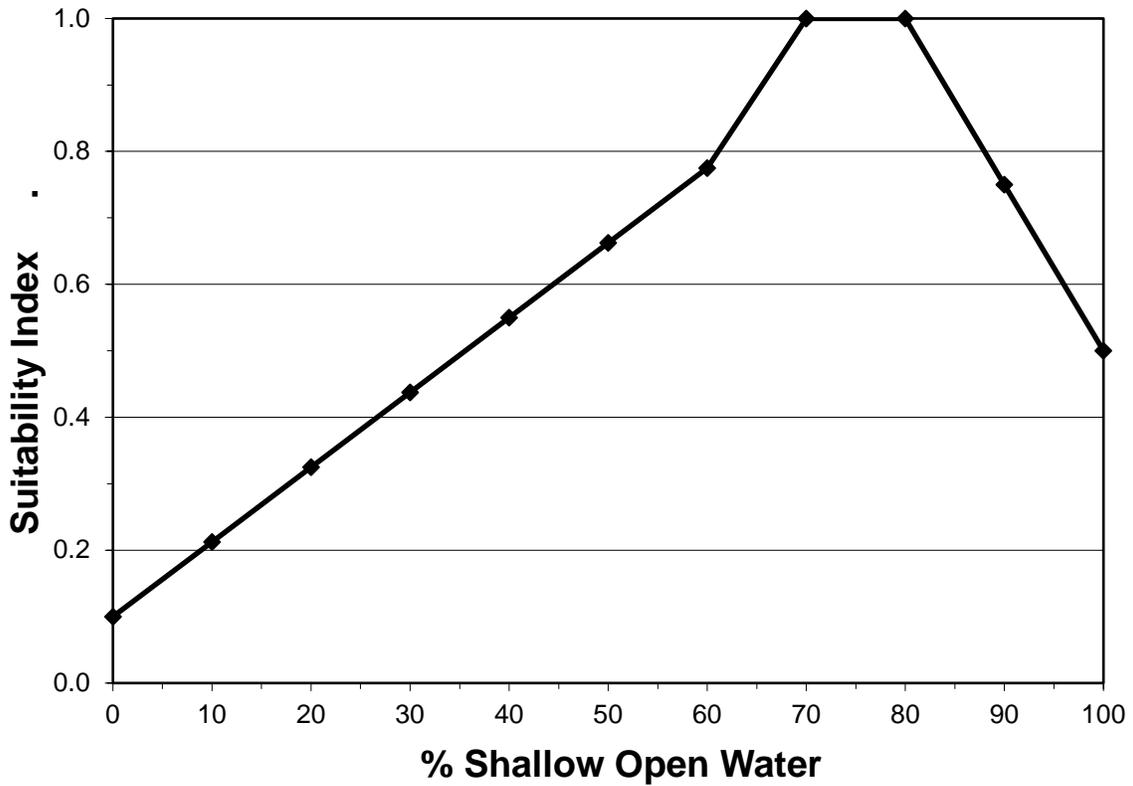
Instructions for Calculating SI for Variable V₃:

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 V₄ Percent of open water area \leq 1.5 feet deep, in relation to marsh surface.

Suitability Graph



Line Formulas

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

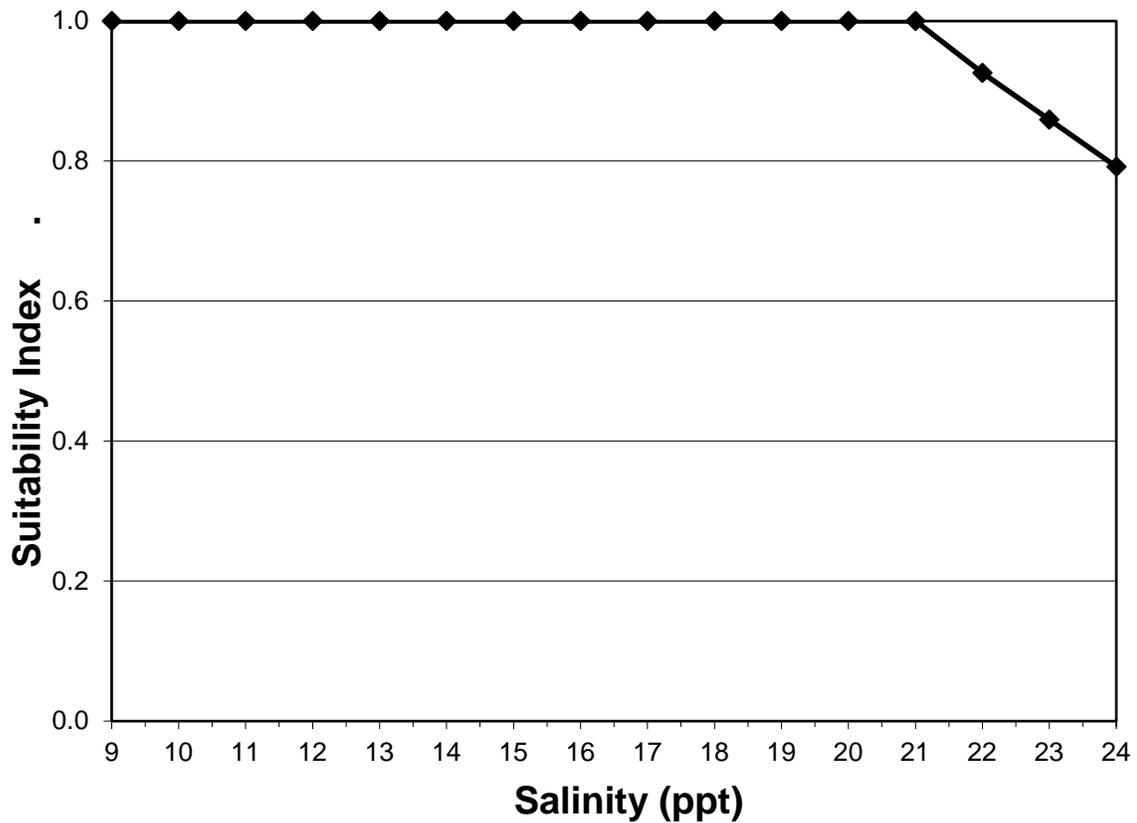
If $70 \leq \% \leq 80$, then $SI = 1.0$

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

SALINE MARSH

Variable V₅ Average annual salinity.

Suitability Graph



Line Formulas

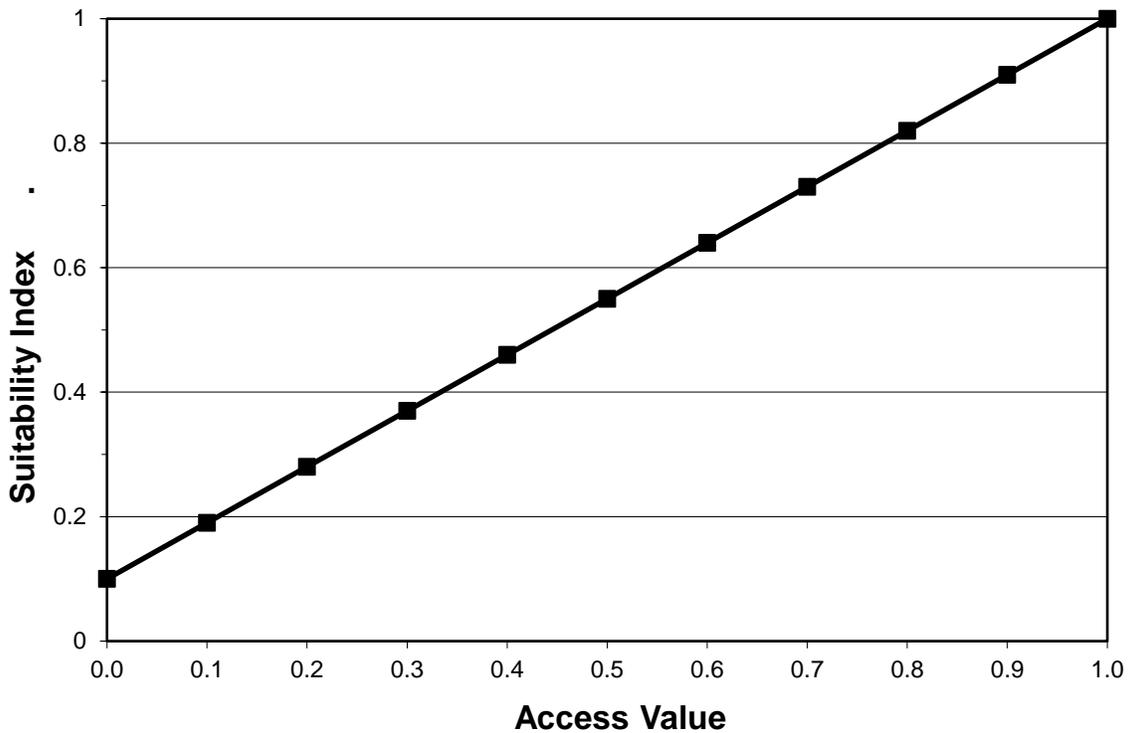
If $9 \leq \text{ppt} \leq 21$, then $SI = 1.0$

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

SALINE MARSH

Variable V₆ Aquatic organism access.

Suitability Graph



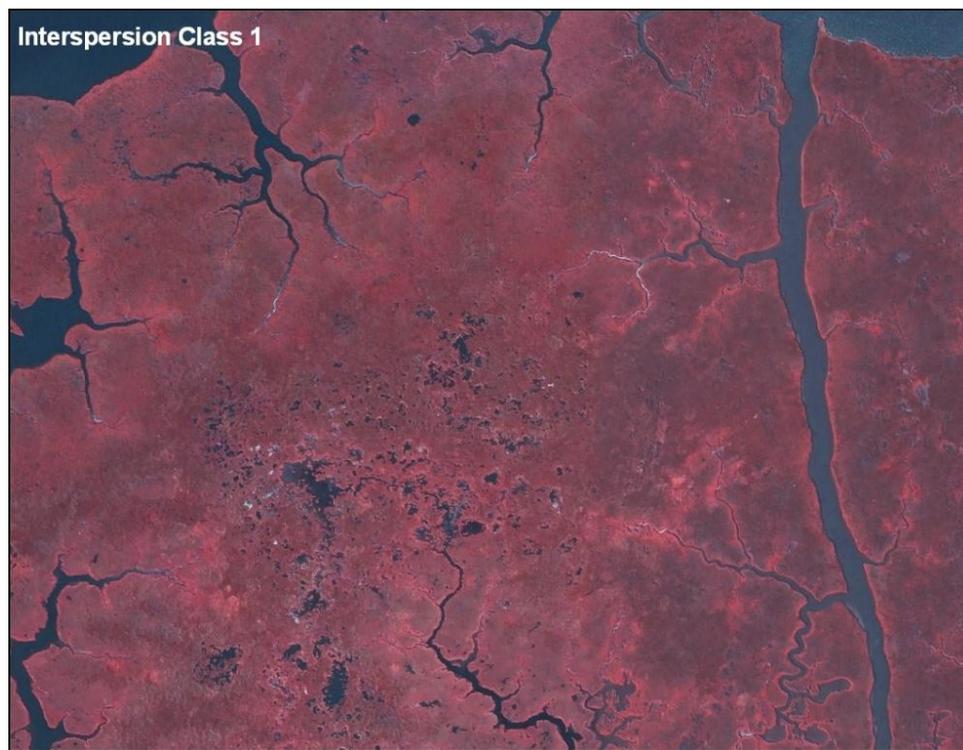
Line Formula

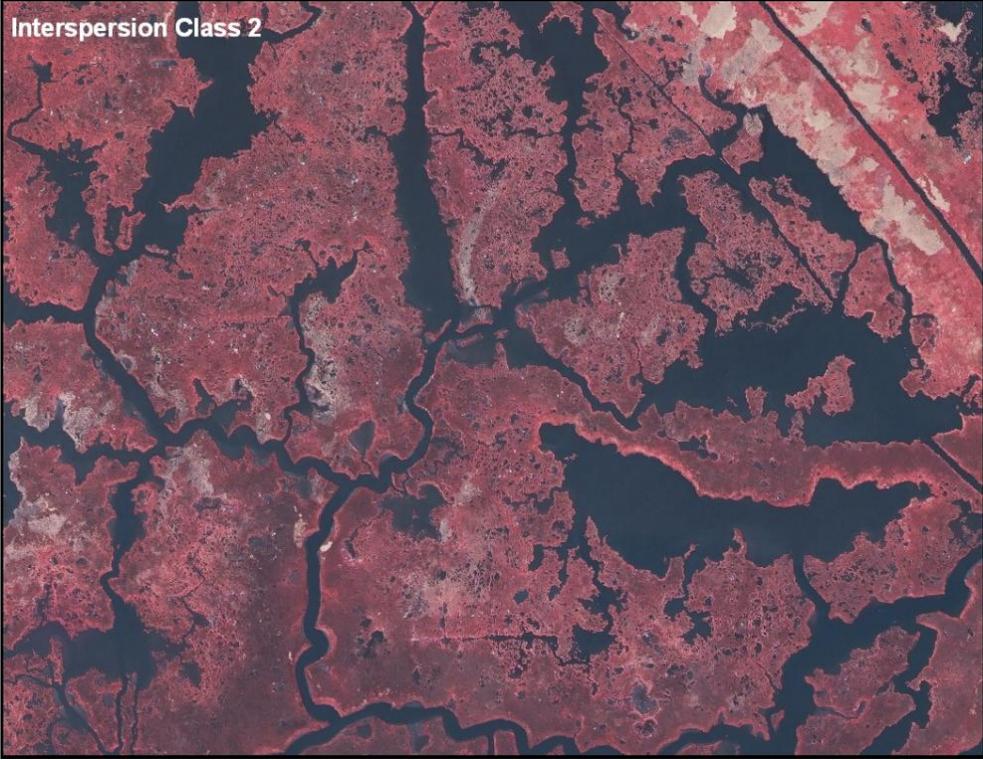
$$SI = (0.9 * \text{Access Value}) + 0.1$$

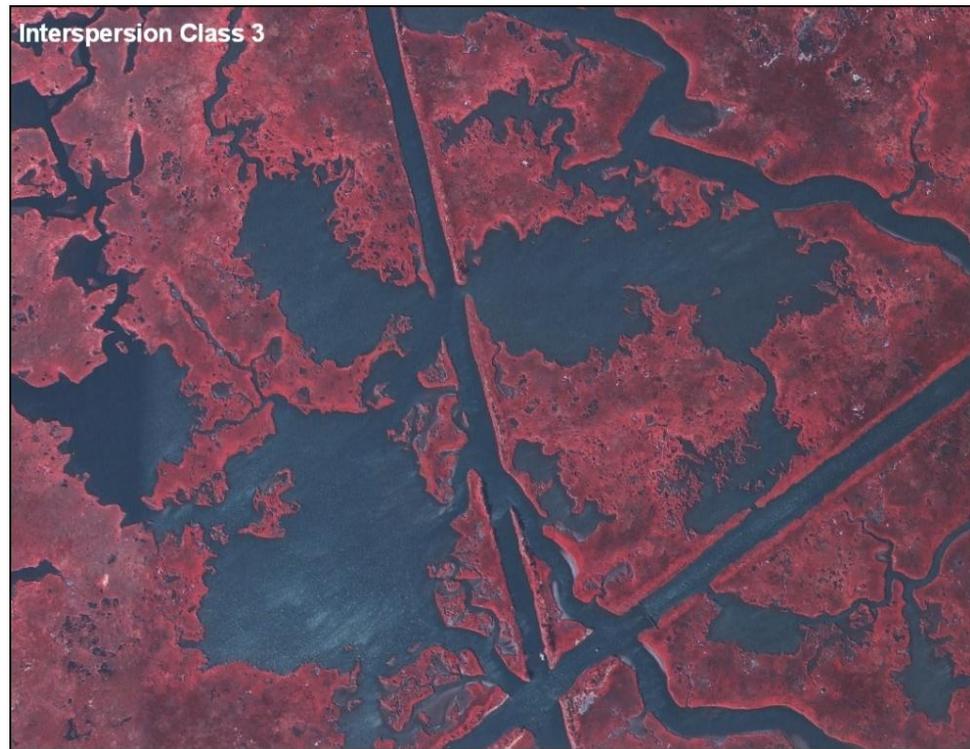
Note: Access Value = P * R, where "P" = percentage of wetland area considered accessible by estuarine organisms during normal tidal fluctuations, and "R" = Structure Rating.

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 4



Interspersion Class 5







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 ≥ 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 ≥ 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.

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

Wetland Value Assessment Methodology Coastal Chenier/Ridge Community Model

Introduction

The Wetland Value Assessment (WVA) methodology is a quantitative habitat-based assessment methodology developed for use in determining wetland benefits of project proposals submitted for funding under the Coastal Wetlands Planning, Protection, and Restoration Act (CWPPRA). The WVA quantifies changes in fish and wildlife habitat quality and quantity that are expected to result from a proposed wetland restoration project. The WVA operates under the assumption that optimal conditions for fish and wildlife habitat within a given coastal wetland habitat type can be characterized, and that existing or predicted conditions can be compared to that optimum to provide an index of habitat quality. Habitat quality is estimated or expressed through the use of community models developed specifically for each habitat type. The results of the WVA, measured in Average Annual Habitat Units (AAHUs), can be combined with cost data to provide a measure of the effectiveness of a proposed project in terms of annualized cost per AAHU gained. In addition, the WVA methodology provides an estimate of the number of acres benefited or enhanced by the project and the net acres of habitat protected/restored.

The WVA was developed by the CWPPRA Environmental Work Group (EnvWG) after the passage of CWPPRA in 1990. The EnvWG includes members from each agency represented on the CWPPRA Task Force and members of the Academic Advisory Group (AAG). The WVA is a modification of the Habitat Evaluation Procedures (HEP) developed by the U.S. Fish and Wildlife Service (U.S. Fish and Wildlife Service 1980). HEP has been widely used by the Fish and Wildlife Service (FWS) and other Federal and State agencies in evaluating the impacts of development projects on fish and wildlife resources. A notable difference exists between the two methodologies, however, in that HEP generally uses a species-oriented approach, whereas the WVA utilizes a community approach.

The WVA has been developed for application to several habitat types along the Louisiana coast and community models have been developed for fresh marsh, intermediate marsh, brackish marsh, saline marsh, swamp, barrier islands, and barrier headlands. The coastal chenier/ridge community model, as well as a bottomland hardwoods model, were developed outside of CWPPRA but are utilized by the EnvWG. The WVA models have been developed for determining the suitability of Louisiana coastal wetlands in providing resting, foraging, breeding, and nursery habitat to a diverse assemblage of fish and wildlife species. The models have been designed to function at a community level and therefore attempt to define an optimum combination of habitat conditions for all fish and wildlife species utilizing a given habitat type. Each model consists of 1) a list of variables that are considered important in characterizing fish and wildlife habitat, 2) a Suitability Index (SI) graph for each variable, which defines the assumed relationship between habitat quality (Suitability Index) and different variable values, and 3) a mathematical formula that combines the Suitability Index for each variable into a single value for habitat quality; that single value is referred to as the Habitat Suitability Index, or HSI.

The output of each model (the HSI) is assumed to have a linear relationship with the suitability of a coastal wetland system in providing fish and wildlife habitat.

Note: This document has been primarily developed to guide the application of the coastal chenier/ridge community model for CWPPRA. However, the guidance it provides may be used by other restoration programs (e.g., Louisiana Coastal Area, U.S. Army Corps of Engineers Civil Works) recognizing the distinction between projects that result in net habitat gain (i.e., restoration), net loss (i.e., development), or no net loss (i.e., mitigation). Furthermore, for development and mitigation projects, it should be recognized that the role and jurisdiction of specific groups may vary from program to program. In addition, these models may be used to calculate the number of average annual habitat units lost to determine the potential impacts and adequately compensate (i.e., mitigation) for those impacts.

Geographic Scope

The coastal chenier/ridge community model bases its habitat assessment scheme on variables that are quite broadly applicable to migrant habitats outside of Louisiana, especially in the eastern USA and southern Canada where the basic plant community is relatively homogeneous (deciduous forest). Habitat characteristics dealing with forest structure and floristic diversity are relevant defining features of stopover site quality throughout this region.

The scientific literature used to justify the model parameters and coefficients comes primarily from the eastern USA and extreme southeastern Canada (Great Lakes shoreline; Dunn 2001), supplemented by some studies from the western USA and two from outside North America (Europe and Israel; Chernetsov and Manukyan 2000, Sapir et al. 2004). The latter studies were included because they provided insights that appeared transferable given the similarities of the Nearctic-Neotropical and Palearctic-Ethiopian migratory systems. Although the list of regular migrants might change by a few species if one moves from the Louisiana coast to South Dakota or New England, there are relatively few such examples. This is because almost all species that migrate from eastern North America pass through the western Gulf en route to the tropics- the few exceptions being songbirds that winter in the Caribbean or South America and pass east of the area. However, the inclusion of these species in some of the studies in other parts of the eastern USA is probably not problematic, as they show the same broad foraging and habitat use characteristics as the species that pass through Louisiana.

The coastal chenier/ridge community WVA model utilizes a set of variables considered important in determining the suitability of non-grazed barrier headland ridges, cheniers, and spoil areas in Louisiana that are, or are proposed to be, vegetated in primarily non-obligate wetland plant species, to provide the habitat necessary to support transient migratory landbirds in the spring and fall. The area of the state to which this model is applicable includes the portions of Cameron, Vermilion, Iberia, St. Mary, Terrebonne, Lafourche, Jefferson, Plaquemines and St. Bernard Parishes south of the Gulf Intracoastal Waterway. The model attempts to assess the suitability of habitat for providing foraging and resting requirements to a diverse assemblage of migratory landbirds. This model has not been validated with field data.

Minimum Area of Application

Various authors have concluded that even very small patches of wooded habitat can be attractive to migrants. Migrants were found in greater densities in smaller wooded hammocks in coastal South Carolina in a sample that ranged down to 0.32 ha (Somershoe and Chandler 2004), and Skagen et al. (1998) concluded that riparian habitat patches were important to migrants in the southwestern USA no matter how small. Pachett and Dunning (2009) found that migrant densities actually increased as woodlot size decreased, in wooded fragments in an agricultural landscape in Indiana. All their woodlots were < 10 ha in size.

The value of tiny woodlots to migrant birds stems from the fact that migrants in an inhospitable landscape will gravitate to whatever forested habitat is available. It is quite possible that many of these small fragments are lower in quality than habitats in larger forested areas, but this is not a variable that can be reliably addressed by this model as data on food resources and predation threats are likely to be unavailable for most sites. Thus, this model can probably be profitably applied to even very small woodlot fragments less than 1 ha in size.

Evaluation of Nominated Projects

Each year, projects are nominated at regional planning team meetings held at various locations along the coast. Each nominated project is assigned to one of the five Federal agencies which administer the CWPPRA program. Those agencies include the FWS, Environmental Protection Agency (EPA), National Marine Fisheries Service (NMFS), U.S. Army Corps of Engineers (USACE), and Natural Resources Conservation Service (NRCS). The sponsoring agency is responsible for preparation of fact sheets which include a project description, preliminary costs, and an estimate of project benefits. The features, estimated benefits, and estimated costs for all nominated projects are reviewed by the EnvWG and the Engineering Work Group (EngWG). The benefits and cost estimates, and other pertinent information are provided to the Planning and Evaluation Subcommittee which prepares a matrix containing all project information. The Technical Committee utilizes that information in selecting which projects to further evaluate as candidate Priority Project List (PPL) projects. Candidate projects remain assigned to one of the five Federal agencies. The Louisiana Office of Coastal Protection and Restoration (OCPR) usually serves in a supporting role to the Federal agencies although they may have the primary responsibility of preparing information for some candidate projects. The sponsoring agency serves as the point of contact for the project and is responsible for development of project features, preparation of cost estimates, and preparation of the draft WVA.

Field Investigation of Candidate Projects

The first step in evaluating candidate projects is to conduct a field investigation of the project area. This field investigation has several purposes: 1) familiarize the EnvWG and EngWG with the project area, 2) visit the locations of project features, 3) discuss a benefited area for the upcoming project boundary meeting, 4) determine habitat conditions in the project area, 5) compile a list of vegetative species and discuss habitat classification, and 6) collect data for the WVA (e.g., cover of submerged aquatics, water depths, salinities, etc.).

The sponsoring agency is responsible for field trip logistics and coordinating with landowners, local government, all CWPPRA agencies, the AAG, and other field trip attendees. Field trip attendees typically consist of each agency's EnvWG and EngWG representatives. The sponsoring agency should be familiar with the project area so that field time is spent efficiently.

The primary purpose of the field investigation is to allow members of the EnvWG and EngWG to familiarize themselves with the project area and project features in order to make informed decisions in the evaluation of the WVA. The sponsoring agency should not treat the interagency field investigation as the only opportunity to conduct surveys or take measurements to develop designs and/or cost estimates for the project. The sponsoring agency should have obtained that information during previous field trips or should plan a follow-up field trip. In cases where the project area is very large, it may be necessary to divide the group into small work parties to collect WVA information across the project area or to allow some areas to be investigated by at least a subset of the entire group. However, an effort should be made to keep the group together to facilitate discussion about wetland conditions in the project area, the causes of habitat loss, the project features, and the effectiveness of the project features.

Project Boundary Determination

The project boundary is the area where a measurable biological impact, in regard to the WVA variables, is expected to occur with project implementation. Project boundary meetings are usually scheduled after the completion of candidate project field trips. Boundary meetings are attended by the EnvWG, EngWG, and sometimes other agency representatives. The U.S. Geological Survey (USGS)-Baton Rouge Field Station provides GIS support. Proposed project boundaries (i.e., shape files) should be provided to USGS prior to the boundary meeting. At the boundary meeting, the project sponsor provides a map(s) indicating the project features and presents the rationale for the proposed boundary. The boundary is discussed by the entire group and revisions to the boundary are made by consensus or, if necessary, by vote.

Coastal chenier/ridge habitat includes forested barrier headland ridges, forested cheniers, and in some instances, forested spoil areas. Such areas are typically at an elevation capable of supporting trees and/or shrub/scrub vegetation and are not influenced by an average daily tide.

Note: Outside of the CWPPRA process (e.g., USACE civil works project evaluations), restoration boundaries are determined through the use of aerial/satellite photographs, LIDAR information, USGS habitat and quadrangle maps and site visits. The boundary and revisions to the boundary are made by interagency group consensus. For non-restoration projects, boundaries are usually provided by the construction agency as areas designated for construction or clearing (typically to provide temporary or permanent rights-of-way) or areas that will experience changes in hydrology.

Selection of Target Years

All CWPPRA project WVAs are conducted for a period of 20 years which corresponds to the authorized project life of a CWPPRA project. *(Note: Other programs (e.g., LCA) may require a longer period of analysis (e.g., 50 years or more to include the date of impact, construction*

duration, or date of mitigation)). Each project evaluation must include target years (TY) 0, 1, and 20. Target year 0 (TY0) represents baseline or existing conditions in the project area and TY20 (or TY50 for LCA projects) represents the projected conditions at the end of the project life. A linear fit (over the project life) is used to make the projection unless there are expected changes that may occur in the intervening years. Examples of these changes include (but are not limited to):

1. Storm events: Storm frequencies for the Louisiana coast vary depending on the period of record analyzed but are generally 8 to 10 years. For sites located along the gulf shoreline, it may be necessary to select a target year which corresponds to a storm event which is likely to occur within the project life in order to capture the effects of the storm. A storm event could impact a coastal chenier/ridge by reducing vegetative cover if the chenier/ridge is overwashed. Selection of a storm impact target year should be based on the storm return frequency that would result in substantial impact (e.g., overtopping). Storm impact and return frequency (Stone et al. 1997), by barrier system, should be used as justification when selecting target years. If the FWOP loss rates are based on data which include the effects of storm events then care must be taken to ensure that effects of storm events are not double counted.
2. Changes in frequency and duration of flooding: As relative sea level (RSL) rise continues, flooding frequency and duration may increase which could result in habitat loss.
3. Salinity changes: Salinity may increase as a system continues to lose land or is impacted by a channel breach.
4. Project implementation: Additional CWPPRA (or non-CWPPRA) projects may be built which could influence the conditions in the current project area.
5. Maintenance events: These would include items such as phased planting, a second lift on rocks used for shoreline protection, additional pumping of material for beach nourishment, replacement of structures, etc.
6. Increase or decrease in vegetative cover: These could be associated with project features (initial or phased) or environmental changes (see numbers 1, 2, 3, and 5).

During the life span for which a project analysis is conducted, target years are selected which represent time intervals when changes are expected to occur. When habitat or environmental conditions change sufficient to result in a change to a variable's suitability index, additional target years may be added to the analysis. The new conditions are then projected forward to obtain the expected conditions until the next target year, or the end of the project life if there are no more intervening target years. In addition, target years should be selected for years in which any variable undergoes sufficient change to result in a large change in the overall HSI.

The EnvWG has adopted certain target year conventions for certain project types. Although these conventions are generally applied, exceptions are sometimes proposed and may be

accepted by the group. It should be noted that these conventions are based on assumptions developed by the group and have not been validated. It is the responsibility of the project sponsor to provide justification for deviating from these conventions and this should be recorded in the Project Information Sheet. These conventions are summarized in Table 1. Maintenance events shall be included as additional target years as needed; other target years may be added to include other expected events (breaches, vegetation or salinity shifts, or changes in RSL rise). The number of target years may be extended for programs which require consideration of a longer project life. Values for all variables must be determined for each target year selected. The variable values represent conditions at the end of the target year. For FWP, TY1 represents the conditions in the project area one year after project construction.

Table 1. Summary of Target Years used for CWPPRA coastal chenier/ridge projects.

Project/Habitat Type	Target Year						
	0	1	3	5	10	20	>20
Coastal Ridge/Chenier Restoration	Measured baseline				Storm Event (?)		Storm Event (?)

Use of the Community Habitat Models

Each community model contains a set of variables which is important in characterizing the habitat quality of several coastal wetland habitat types relative to the fish and wildlife communities dependent on those environments. Baseline (TY0) values are determined for each of those variables to describe existing conditions in the project area. Future values for those variables are projected to describe conditions in the area without the project and with the project. Projecting future values is the most complicated, and sometimes controversial, part of this process. It requires project sponsors to substantiate their claims with monitoring data, research findings, scientific literature, or examples of project success in other areas. Not all future projections can be substantiated by the results of monitoring or research, and, as with all wetland assessment methodologies, some projections are based on best professional judgment and can be subjective. It should be noted that future projections are not the sole responsibility of the project planner. It is the responsibility of the evaluation team (i.e., agency representatives, academics, and others) to use the best information available in developing those projections. Many times, the collective knowledge of the evaluation team is the only tool available to predict project benefits. The various workgroups are comprised of many individuals with diverse backgrounds and all project scenarios are discussed by the group and a final outcome is usually reached by consensus. Key assumptions made during the evaluation process, e.g., regarding the effects of climate change or storms, should be recorded on the Project Information Sheet. There are occasionally off-site conditions and human disturbances adjacent to a project area. These have an effect on the animals in the project area, however these disturbances are considered to be the same under FWOP and FWP conditions.

An important point to consider when projecting benefits is the effect of other constructed or authorized projects on the project area. Benefits attributed to those projects should be taken into consideration when projecting benefits for any candidate project. That procedure prevents a

candidate project from being credited with benefits previously attributed to another project (i.e., double-counting). CWPPRA projects are not taken into consideration unless authorized for construction. Project planners should also consider the benefits of non-CWPPRA projects funded by other authorities (e.g., WRDA, State-only projects, and landowner-funded projects). An important aspect of the WVA, as it is used in restoration planning, is the comparison of the FWOP to the FWP condition. If another project influences the project area of the evaluated project, the other project must be considered as baseline and put into both FWOP and FWP. For instance, if a project being evaluated is in the area of a river diversion, the effect of the diversion must be considered in both the FWOP and FWP conditions.

Model Application

The coastal chenier/ridge community model was developed to determine the suitability of coastal forested ridges in providing foraging and resting habitat for transient migratory landbirds. The model should be applied to forested habitats within the coastal zone consisting of non-grazed barrier headland ridges, cheniers, and in some cases, spoil areas. Those areas should be at an elevation capable of supporting woody vegetation such as trees and/or shrub/scrub habitat and are not influenced by the average daily tide. This model is not intended to be applied to other forested habitats such as bottomland hardwoods or swamp.

Baseline Habitat Classification and Land/Water Data

Baseline data can be obtained from the most recent habitat classification data provided by USGS (or other sources) which delineates forested areas. As with other project types, if the project area acreage is not current, the erosion rate should be applied to that acreage and adjusted to the current year. For coastal ridge habitats located along the gulf shoreline, erosion data could be obtained from the U.S. Geological Survey's Louisiana Barrier Island Erosion Study-Atlas of Shoreline Changes in Louisiana from 1853 to 1989 and the Atlas of Sea-Floor Changes from 1878 to 1989.

Variable Selection

Several existing Habitat Suitability Index models were considered for use in determining migratory landbird stopover habitat quality, including the models for roseate spoonbill, great egret, brown thrasher, swamp rabbit, veery, and yellow warbler. However, the emphasis for all these models was breeding habitat requirements. None addressed the set of variables that were determined to be most pertinent to assessment of stopover habitat quality, where a variety of species with differing foraging strategies occupy the habitat for a relatively brief time period. Selection of the variables used for this model was based upon a review of available literature (See Appendix A for a review of the variables' role in providing wildlife habitat), interviews with specialists who have studied various aspects of migratory landbird ecology in coastal stopover habitats, and the field knowledge of those involved with development of this model.

More than 80 species of neotropical migratory landbirds from at least eleven Families pass through Louisiana during the spring and fall (Sauer et al. 2000). At the peak of spring migration, it is estimated that as many as 50,000 birds per day per mile of coastline enter the state (Conner

and Day 1987). During favorable weather conditions, the majority of these birds will bypass small wooded areas embedded in coastal marsh and land in extensive forested areas north of the marshes, but during thunderstorms or other unfavorable conditions, a large percentage of these individuals may stop in these small coastal wood patches (Gauthreaux 1971). Identifying the optimal stopover habitat characteristics for such a varied group of birds is challenging. Martin (1980) stated that migrants often select habitats en route that superficially resemble their breeding habitat. Moore et al. (1995) concluded that spring migrants on the northern Gulf of Mexico coast preferentially select structurally diverse stopover sites, consisting of forested areas with mixed shrub layers, and that maintenance of plant species and structural diversity should be a goal at migratory landbird stopover sites. Similarly, Martin (1980) found that habitat structure in shelterbelt “island” habitat in the Great Plains influences migrant diversity and abundance. Robinson and Holmes (1984) determined that the diversity of bird species in terrestrial habitats is correlated with factors associated with vegetation structure or composition, including diversity of foliage height, and stated that, in general, the number of bird species increases with the addition of vertical vegetation layers. Based upon the findings above and upon prior field investigations, we proposed three habitat assessment variables: 1) percent tree canopy cover, 2) percent shrub/midstory canopy cover, and 3) the number of native woody species planted/present on the site. We also identified some tentative variables, including percent herbaceous ground cover, minimum patch size, average tree height, and proximity of the site to other forested patches.

We asked three specialists with expertise in the arena of migratory landbird habitat requirements to comment on our proposed habitat variables: William C. Hunter, U.S. Fish and Wildlife Service, Atlanta, GA; Mark Woodrey, U.S. Fish and Wildlife Service, Jackson, MS; and Wylie Barrow, USGS, National Wetlands Research Center, Lafayette, LA. Their comments have been incorporated into the model and referenced as personal communications.

All specialists queried concurred that structural and floristic diversity were key factors to consider. Additionally, they all stressed the importance of fresh water sources for spring trans-Gulf migrants. However, we did not develop a variable to capture this factor, as the model was being designed for created habitat in an area where fresh water input would probably be limited to precipitation. A variable to measure fresh water proximity should probably be created for assessing extant stopover sites. We decided not to use a variable for percent herbaceous ground cover because for the majority of birds that would be likely to use forested coastal areas, the amount of herbaceous ground cover would not be as critical a habitat need as would tree and shrub cover (Moore et al. 1995). Neotropical migratory landbirds dependent upon grasslands would not typically use forested cheniers, spoil banks, etc., instead gravitating towards marshes, pastures, and agricultural fields. No minimum patch size for sites was established, because while larger patches are accepted to be more valuable to birds than small patches, a small patch surrounded by non-forested habitat could be very important at times to migrants (Barrow, pers. comm.). The same basic rationale was used in determining that a variable to rank sites on the basis of their proximity to other forested patches was not practical. Sites adjacent to other forested sites are assumed to facilitate migration of forest birds by reducing the distance needed to travel through open and potentially inhospitable terrain, but an isolated woodland could be important during periods of inclement weather (Barrow, pers. comm.). Canopy height was ruled out as a variable because no data was discovered that addressed minimum canopy heights at

stopover sites. The developers of this model assumed that percent canopy cover was a more pertinent variable to consider.

Suitability Index Graph Development

Each of the community models developed for CWPPRA includes SI graphs for each variable. Suitability Index graphs are unique to each variable and define the relationship between that variable and habitat quality. A variety of resources was utilized to construct each SI graph, including consultation with professionals and scientists with expertise in the study of migrant landbirds and their habitat requirements, published and unpublished data and studies, and personal knowledge of the model development team. A review of contemporary, peer-reviewed scientific literature was also conducted for each of the variables, providing ecological support for the form of the SI graph for each of the variables (Appendix A). The process of SI graph development is one of constant evolution, feedback, and refinement; the form of each SI graph was decided upon through consensus among the model development team.

All suitability graphs have a minimal SI of 0.1. This is because any area that falls into the cover type addressed by the WVA model provides some habitat value. For example, a coastal ridge with no shrub or midstory cover still has value to migrant landbirds.

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

Variable 1 – Percent tree canopy cover

Neotropical migratory landbirds preferentially use stopover sites exhibiting high structural and floristic diversity (Moore et al. 1995). To achieve the desired vertical plant diversity (i.e., a mix of trees, tree saplings, shrubs, vines, and herbaceous plants), a moderately closed tree canopy would be preferred to over a totally closed canopy (Hunter, pers. comm.; Barrow, pers. comm.; Woodrey, pers. comm.). Tree canopy coverage ranging from 65 - 85% is assumed to provide optimal conditions to allow for establishment of midstory trees, shrubs, vines, and herbaceous plants, provided that the site is not grazed. Tree species that may occur at coastal stopover sites include sugarberry (*Celtis laevigata*), toothache tree (*Zanthoxylum clava-herculis*), live oak (*Quercus virginiana*), water oak (*Q. nigra*), honey locust (*Gleditsia triacanthos*), red mulberry (*Morus rubra*), and green haw (*Crataegus viridis*) (Louisiana Natural Heritage Program 1988, Materne 2000, Gosselink et al. 1979, Thomas and Allen 1996, Thomas and Allen 1998).

Variable 2 – Percent shrub/midstory cover

Shrub-scrub habitats provide important foraging and resting areas for migrant landbirds (Moore et al. 1995). Shrub-scrub habitats are also presumed to be important to migratory passerine birds as refuges from raptor predators (Moore et al. 1990). For the purposes of this model, shrub/midstory means multi-stemmed shrubs, single-stemmed midstory trees, single-stemmed saplings of overstory tree species, and woody vines. Shrub/midstory canopy coverage ranging from 35 - 65% is assumed to represent optimal conditions at a forested site. Species of shrubs, small trees, and woody vines that may be found at stopover sites include Small's acacia (*Acacia minuta*), wax myrtle (*Morella cerifera*), dwarf palmetto (*Sabal minor*), yaupon holly (*Ilex*

vomitorea), saltbush (*Baccharis halimifolia*), greenbriars (*Smilax spp.*), grapes (*Vitis spp.*), prickly pear cactus (*Opuntia spp.*), Virginia creeper (*Parthenocissus quinquefolia*), pepper vine (*Ampelopsis arborea*), blackberries (*Rubus spp.*), rattlebox (*Sesbania drummondii*), marshelder (*Iva frutescens*), poison ivy (*Toxicodendron radicans*), Carolina wolf-berry (*Lycium carolinianum*), marine vine (*Cissus incisa*), elderberry (*Sambucus canadensis*), and Chinese tallow (*Triadica sebifera*) (Louisiana Natural Heritage Program 1988, Materne 2000, Gosselink et al. 1979, Thomas and Allen 1996, Thomas and Allen 1998).

Variable 3 – Native woody species diversity

A wide variety of fruits, flowers, nectars, and animals, primarily invertebrates, are consumed by migrant landbirds (Moore et al. 1995, Fontenot 1999, Barrow, pers. comm.). Robinson and Holmes (1984) concluded that vegetation provides birds with foraging opportunities and constraints depending upon the structure of individual plants, aggregations of plants, and the arthropods that these plants host. The resulting foraging conditions define the diversity of bird species in the habitat. While some exotic plant species provide foraging opportunities to migrant landbirds, others are of limited value to spring and fall migrant birds (Barrow and Renne 2001, Barrow, pers. comm.). It is assumed that a variety of native shrubs, midstory trees, woody vines and overstory trees will provide sufficiently diverse foraging and resting habitat to enable spring and fall transient birds to continue their migration. Woody plant species composition and diversity in stopover habitat is influenced by elevation, soil type, and salinity levels (Materne 2000, Louisiana Natural Heritage Program 1988), and the capacity of sites to support certain species will depend upon these and other factors. Based upon a review of available written information and upon the field knowledge of those involved in development of this model, and upon the range of conditions likely to be encountered in stopover habitat in the area the model addresses, presence of >10 species of native trees, shrubs, and woody vines is assumed to represent optimal conditions. It is also assumed that the parameters defining optimal conditions for variables V1 and V2 will moderate the potential for variable V3 to exert a false reading of habitat value for migrant landbirds, should the diversity of plant species be confined only to trees, or to shrubs, or to woody vines.

Habitat Suitability Index Formula

Within the HSI formula, any Suitability Index can be weighted by various means to increase the power or "importance" of that variable relative to the other variables in determining the HSI. For this model, it was assumed that the variables are of equal weight in determining the habitat quality of a coastal chenier/ridge. A geometric mean was chosen, as opposed to an arithmetic mean, to convey the weak compensatory relationship between the three variables. An arithmetic mean is often used when it is assumed that the model variables have a strong compensatory relationship (i.e., a high value for one variable can compensate for the low value of another variable). The geometric mean is used to discourage a variable with a marginal or low suitability from being offset by the high suitability of the other variables (U.S. Fish and Wildlife Service 1981). It was assumed that the three variables in this model do not have a strong compensatory relationship.

HSI Calculation: $HSI = (SIV_1 \times SIV_2 \times SIV_3)^{1/3}$

Subsidence and Sea Level Rise

Subsidence and sea level rise (SLR) are assumed to affect FWOP and FWP scenarios. For most CWPPRA project evaluations (e.g., those within interior coastal areas), it is assumed that historical wetland loss rates calculated from a recent time period (e.g., 1985 to 2010) adequately capture the effects of subsidence and SLR for the relatively short analysis period of 20 years. However, for barrier island project evaluations, measures of subsidence and SLR are incorporated into many of the analytical modeling tools (e.g., SBEACH) used to determine project performance.

Model Revisions

As our knowledge of coastal ecology and coastal restoration benefits improves, the need may arise for model revision. Model revisions are documented in Appendix B to allow tracking between versions. In addition, the “Revisions” tab of the Excel model spreadsheet should also reflect any revisions and the revision date.

Additional Notes

All project WVAs should be prepared in the Project Information Sheet (PIS) format (Appendix C) which was adopted by the EnvWG. At a minimum, the PIS should provide; 1) baseline habitat analysis, 2) marsh/wetland loss analysis, 3) the calculations for each variable, 4) documentation of data sources and key assumptions and 5) a list of literature cited and/or reference material. Project evaluations are conducted much more efficiently when the project planner is well-prepared and all necessary information is presented in the PIS. The PIS should be revised after the WVA meeting to reflect all decisions made by the EnvWG. A copy of the final PIS should be provided to each member of the EnvWG.

The official calculation of project benefits is the responsibility of the EnvWG Chairman. However, project planners are encouraged to also calculate project benefits to serve as a check on the information provided to the CWPPRA Planning and Evaluation Subcommittee. Project benefits are calculated using Excel spreadsheets which have been developed specifically for each habitat model.

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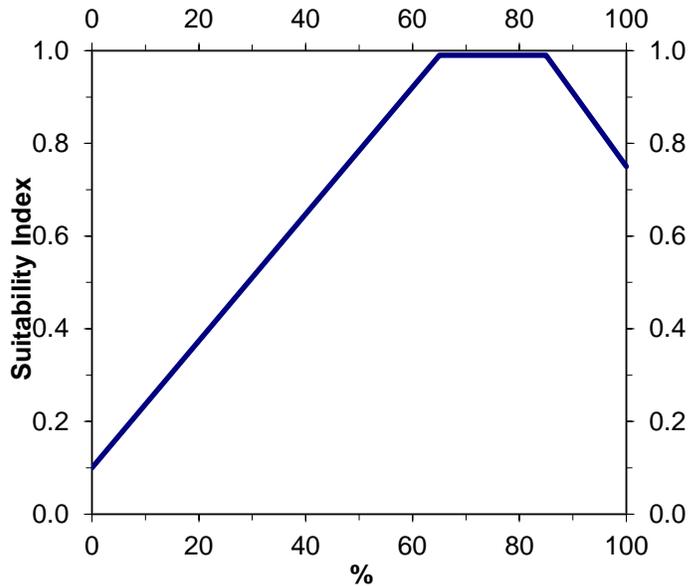
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COASTAL CHENIER/RIDGE

Variable V1 Percent tree canopy cover.

Suitability Graph



Line Formulas

If $\% < 65$, then $SI = (0.014 * \%) + 0.1$

If $65 \leq \% \leq 85$, then $SI = 1.0$

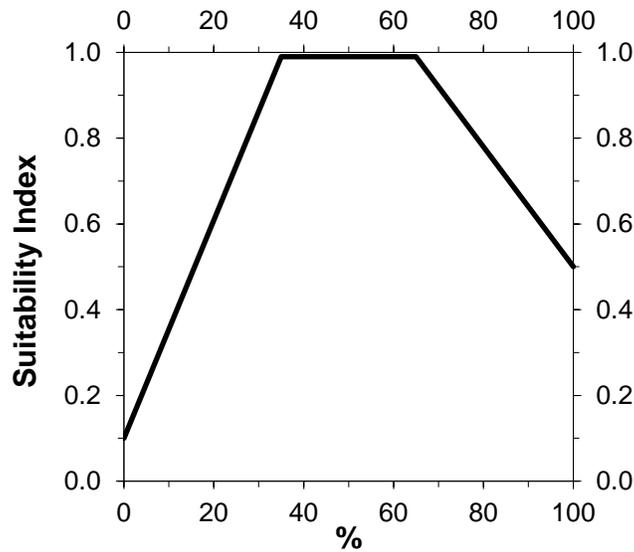
If $\% > 85$, then $SI = (-0.017 * \%) + 2.445$

Suitability index graph relationships for Variable V1 were determined by: 1) reviewing available literature, 2) interviewing specialists who have studied various aspects of migratory landbird ecology in coastal stopover habitats, and 3) field knowledge of those involved with development of this model.

COASTAL CHENIER/RIDGE

Variable V₂ Percent shrub/midstory cover.

Suitability Graph



Line Formulas

If % < 35, then $SI = (0.026 * \%) + 0.1$

If $35 \leq \% \leq 65$, then $SI = 1.0$

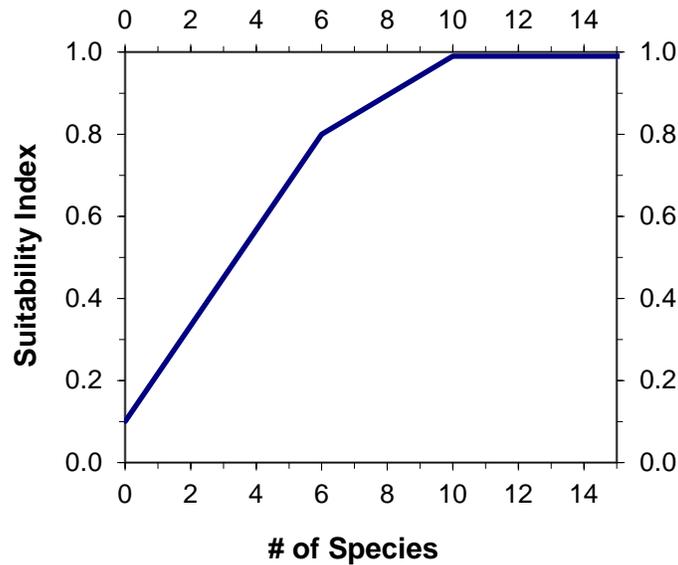
If % > 65, then $SI = (-0.014 * \%) + 1.9$

Suitability index graph relationships for Variable V₂ were determined by: 1) reviewing available literature, 2) interviewing specialists who have studied various aspects of migratory landbird ecology in coastal stopover habitats, and 3) field knowledge of those involved with development of this model.

COASTAL CHENIER/RIDGE

Variable V3 Native woody species diversity (shrubs, midstory trees, woody vines and overstory trees).

Suitability Graph



Line Formulas

If $\# < 6$, then $SI = (0.117 * \#) + 0.1$

If $6 \leq \# < 10$, then $SI = (0.05 * \#) + 0.5$

If $\# \geq 10$, then $SI = 1.0$

Suitability index graph relationships for Variable V3 were determined by: 1) reviewing available literature, 2) interviewing specialists who have studied various aspects of migratory landbird ecology in coastal stopover habitats, and 3) field knowledge of those involved with development of this model.

Appendix A

A description of the relative role of the model variables in providing habitat to the modeled community based on available, contemporary peer-reviewed scientific literature is provided below.

Variable V1 – Percent tree canopy cover

The presence of both a substantial canopy and sufficient light penetration to allow dense understory and edge characteristics is important. Substantial canopy coverage is important because providing habitat for forest dwelling songbird migrants is the expressed goal of managing these habitats, and therefore significant canopy vegetation must be present to make forest species accept these habitats. The existence of sufficient canopy opening to allow light penetration to stimulate understory development is a recognition of the value of scrubby and edge habitats for migratory small land birds. The attractiveness of early successional, edge, or scrubby habitats to migrants has been reported numerous times in studies of migrant stopover habitat selection in North America (Kilgo et al. 1999; Latta and Brown 1999; MacKinnon and Aburto 2003; Martin and Karr 1986; Rodewald and Brittingham 2002, 2004, 2007; Smith and Hatch 2008; Suthers et al. 2000; Swanson et al. 2003; Willson et al. 1982). Others have specifically reported high use of habitat with low canopy cover (Blake and Hopper 1986) or successful refueling in such open canopy habitats (Bonter et al. 2007, who reported gains in mass of 9% per day in spring and fall).

Variable V2 – Percent shrub/midstory cover

Various woodland migrants inhabit the lower strata of forests either in passage or on their winter or summer ranges, such as the Kentucky Warbler (*Oporornis formosus*) or Northern Waterthrush (*Seiurus noveboracensis*) (Lowery 1974, Rappole and Warner 1976). One study of passage migrants has found increased numbers associated with dense understory in Arizona (Hutto 1985), and another found shrub/sapling breeding species to show high use of areas with dense cover in the shrub layer in their Pennsylvania stopovers (Rodewald and Brittingham 2007). Migrants in South Dakota have shown high use of habitats dominated by ragweed understory (Swanson et al. 2003). Another reason for high emphasis on low strata is the frequent use of fruit by passage migrants (Parrish 1997, Smith et al. 2007, Suthers et al. 2000); other studies have shown their habitat choice to be correlated with availability of fruit in the eastern USA (Blake and Hopper 1986, Buler et al. 2007) or in Israel (Sapir et al. 2004). Fruits are often associated with scrubby, edge, or early successional habitats in these studies. The importance of having understory or midstory vegetation at stopover sites, whether because low strata are preferred by a species or because it utilizes fruit, are the reason for weighing understory coverage equally to canopy coverage.

Variable V3 – Native woody species diversity

Native woody species floristic diversity has also been connected to migrant habitat use during stopover. Passage migrants have shown greater use of sites with higher floristic diversity in New Mexico (Walker 2008) and South Dakota (Martin 1980). A study in Louisiana showed that

migrants use a diverse array of foods on cheniers that include arthropods, fruit, nectar, and seeds (Barrow et al. 2000); because these resources are often linked to individual plant species, floristic richness is important on cheniers. Floristic or habitat diversity is also important when suitable habitats or foods vary among migratory species, or change over time. For instance, a site in which a series of plant species flower at different times in the spring will have nectar resources available throughout the period. Some studies have shown that different plants or foods peak in their usefulness to migrants at different times of the season (Strode 2009, Suthers et al. 2000), or that favored habitats or resources change from spring to fall (Chernetsov and Manukyan 2000; Smith et al. 1998; Weisbrod et al. 1993; Winker et al. 1992; Hutto 1985; Balda et al. 1975; Austin 1970) or year to year (Smith et al. 1998). Studies have also shown that different species of migrants occur in peak numbers in different habitats (Dunn 2001, Hutto 1985, Moore and Simons 1990, Parnell 1969, Rodewald and Brittingham 2004, Smith and Hatch 2008) or in association with different plant species (Graber and Graber 1983, Smith et al. 1998, 2004) within the same geographical area. Different sex and age classes of some migrant species also show peak use of different habitats in the same area (Yong et al. 1998 NM). All these examples of diversity in habitat or resource use illustrate the value of floristic diversity, which increases the chances of meeting the preferences of a variety of species at the same site, or species that pass through at a variety of times. High floristic diversity presumably also makes it more likely that species with unusual or specialized habitat use patterns will be able to find suitable resources (e.g., Yellow Warbler *Dendroica petechia* Weisbrod et al. 1993).

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Appendix B

Document Revisions

Version 1.0 – March 2010 document developed via the Corps' WVA certification process

Version 1.1 – January 2012

- 1) Pertinent sections from Procedural Manual incorporated

Appendix C

Project Information Sheet Format

Project Name:

Sponsoring Agency: List Environmental and Engineering Work Group Contacts

Project Location and Description: Describe project location (Coast 2050 region, basin, parish, nearby cities, important bodies of water, total acres, wetland type, etc.). Include a project map.

Problem: Discuss the major causes (historical and current) of habitat loss/degradation in the project area.

Objectives: How will the project address the major causes of habitat loss/degradation in the project area? What are the specific objectives of the project?

Project Features: List all project features including their locations, dimensions, etc. The project map should include the locations of all project features.

Monitoring and Modeling Results for Similar Projects: Relevant monitoring reports and modeling studies should be discussed.

Miscellaneous: As necessary, discuss the following subjects as they relate to the project.
Climate change
Off site disturbances – these are generally the same FWOP and FWP.
Any project risks or uncertainties

V1 – Percent Tree Canopy Cover

- 1) Discuss the historical and current vegetative community and any trends noted for the area.
- 2) Discuss the methods used to determine the percentage of tree canopy cover.

TY 0 – Percent tree canopy cover.

FWOP – Provide percentages for tree canopy cover for each target year (TY) and include all assumptions. Use as many TYs as necessary and justify each.

TY 1 –

TY X –

TY Y –

TY 20 –

FWP – Provide percentages for tree canopy cover for each target year (TY) and include all assumptions. Use as many TYs as necessary and justify each.

TY 1 –

TY X –

TY Y –
TY 20 –

V2 – Percent Shrub/Midstory Cover

- 1) Discuss the methods used to determine the percentage of shrub/midstory cover.

TY 0 – Percent shrub/midstory cover.

FWOP – Provide percentages for shrub/midstory cover for each target year (TY) and include all assumptions. Use as many TYs as necessary and justify each.

TY 1 –
TY X –
TY Y –
TY 20 –

FWP – Provide percentages for shrub/midstory cover for each target year (TY) and include all assumptions. Use as many TYs as necessary and justify each.

TY 1 –
TY X –
TY Y –
TY 20 –

V3 – Native Woody Species Diversity

- 1) Discuss the methods used to determine the number of woody species in the project area for the baseline condition.

TY 0 – Number of woody species present in the project area.

FWOP – Provide the number of woody species for each target year (TY) and include all assumptions. Use as many TYs as necessary and justify each.

TY 1 –
TY X –
TY Y –
TY 20 –

FWP – Provide the number of woody species for each target year (TY) and include all assumptions. Use as many TYs as necessary and justify each.

TY 1 –
TY X –
TY Y –
TY 20 –

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Coastal Wetlands Planning, Protection, and Restoration Act

26th Priority Project List Report

Appendix C

Wetland Value Assessment for Candidate Projects

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WETLAND VALUE ASSESSMENT

Benefits Summary Sheet

Brackish Marsh and Coastal Chenier/Ridge

Project: Bayou La Loutre Ridge Restoration and Marsh Creation

TOTAL BENEFITS IN AAHUs DUE TO PROJECT

	<u>Area</u>	<u>AAHUs</u>
Brackish Marsh - Marsh Creation		91.63
	<u>Area</u>	<u>AAHUs</u>
Coastal Chenier/Ridge - No ridge habitat FWOP		12.24

TOTAL BENEFITS = 103.87 AAHUS

WETLAND VALUE ASSESSMENT COMMUNITY MODEL Brackish Marsh

Project: **Bayou La Loutre Ridge Restoration and Marsh Creation**

Project Area: **433**

Condition: Future Without Project

Variable		TY 0		TY 1		TY 20	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	60	0.64	60	0.64	55	0.60
V2	% Aquatic	56	0.60	56	0.60	56	0.60
V3	Interspersion	%		%		%	
	Class 1	0	0.50	0	0.50	0	0.48
	Class 2	48		48		40	
	Class 3	52		52		60	
	Class 4	0		0		0	
	Class 5	0		0		0	
V4	%OW <= 1.5ft	2	0.13	2	0.13	2	0.13
V5	Salinity (ppt)	6.6	1.00	6.6	1.00	6.6	1.00
V6	Access Value	1.0000	1.00	1.0000	1.00	1.0000	1.00
Emergent Marsh HSI =		0.72		EM HSI =	0.72	EM HSI =	0.69
Open Water HSI =		0.69		OW HSI =	0.69	OW HSI =	0.69

Project: **Bayou La Loutre Ridge Restoration and Marsh Creation**

Project Area: **433**

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 =	

Project: **Bayou La Loutre Ridge Restoration and Marsh Creation**

Project Area: **433**

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

Project: Bayou La Loutre Ridge Restoration and Marsh Creation

Project Area: 433

Condition: Future With Project

Variable		TY 0		TY 1		TY 3	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	60	0.64	34	0.41	73	0.76
V2	% Aquatic	56	0.60	0	0.10	28	0.35
V3	Interspersion	%		%		%	
	Class 1	0	0.50	0	0.10	0	0.40
	Class 2	48		0		0	
	Class 3	52		0		100	
	Class 4	0		0		0	
	Class 5	0		100		0	
V4	%OW <= 1.5ft	2	0.13	100	0.60	100	0.60
V5	Salinity (ppt)	6.6	1.00	6.6	1.00	6.6	1.00
V6	Access Value	1.0000	1.00	0.0001	0.10	1.0000	1.00
Emergent Marsh HSI =			0.72	EM HSI =	0.35	EM HSI =	0.78
Open Water HSI =			0.69	OW HSI =	0.20	OW HSI =	0.56

Project: Bayou La Loutre Ridge Restoration and Marsh Creation

Project Area: 433

FWP

Variable		TY 5		TY 12		TY 20	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	99	0.99	97	0.97	95	0.96
V2	% Aquatic	56	0.60	56	0.60	56	0.60
V3	Interspersion	%		%		%	
	Class 1	0	0.40	100	1.00	100	1.00
	Class 2	0		0		0	
	Class 3	100		0		0	
	Class 4	0		0		0	
	Class 5	0		0		0	
V4	%OW <= 1.5ft	100	0.60	95	0.70	90	0.80
V5	Salinity (ppt)	6.6	1.00	6.6	1.00	6.6	1.00
V6	Access Value	1.0000	1.00	1.0000	1.00	1.0000	1.00
EM HSI =			0.93	EM HSI =	0.98	EM HSI =	0.97
OW HSI =			0.72	OW HSI =	0.77	OW HSI =	0.78

Project: Bayou La Loutre Ridge Restoration and Marsh Creation

Project Area: 433

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 Coastal Chenier/Ridge

Project: **Bayou La Loutre Ridge Restoration and Marsh Creation**

Project Area: **20**

No ridge habitat FWOP

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
		HSI =	0.10	HSI =	0.10	HSI =	0.10

Project: **Bayou La Loutre Ridge Restoration and Marsh Creation**

Project Area: **20**

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						
		HSI =		HSI =		HSI =	

Project: **Bayou La Loutre Ridge Restoration and Marsh Creation**

Project Area: **20**

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						
		HSI =		HSI =		HSI =	

WETLAND VALUE ASSESSMENT COMMUNITY MODEL Coastal Chenier/Ridge

Project: **Bayou La Loutre Ridge Restoration and Marsh Creation** Project Area: 20

Condition: Future With Project

Variable		TY 0		TY 1		TY 3	
		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
		HSI =	0.10	HSI =	0.10	HSI =	0.31

Project: **Bayou La Loutre Ridge Restoration and Marsh Creation** Project Area: 20

FWP

Variable		TY 7		TY 12		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	8	0.90	8	0.90	10	1.00
		HSI =	0.53	HSI =	0.74	HSI =	0.87

Project: **Bayou La Loutre Ridge Restoration and Marsh Creation** Project Area: 20

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				
		HSI =	0.93	HSI =		HSI =	

WETLAND VALUE ASSESSMENT

Benefits Summary Sheet

Brackish Marsh

Project: St. Catherine Island Marsh Creation and Shoreline Protection

TOTAL BENEFITS IN AAHUs DUE TO PROJECT

$\frac{\text{Area}}{\text{Marsh Creation benefit area}}$	$\frac{\text{AAHUs}}{69.84}$
--	------------------------------

$\frac{\text{Area}}{\text{Shoreline protection benefit area}}$	$\frac{\text{AAHUs}}{21.55}$
--	------------------------------

TOTAL BENEFITS = 91.39 AAHUS

WETLAND VALUE ASSESSMENT COMMUNITY MODEL Brackish Marsh

Project: **St. Catherine Island Marsh Creation and Shoreline Protection**

Project Area: **219**

Marsh creation benefit area

Condition: Future Without Project

Variable		TY 0		TY 1		TY 20	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	66	0.69	66	0.69	63	0.67
V2	% Aquatic	70	0.73	70	0.73	30	0.37
V3	Interspersion	%		%		%	
	Class 1	0	0.40	0	0.40	0	0.40
	Class 2	0		0		0	
	Class 3	100		100		100	
	Class 4	0		0		0	
	Class 5	0		0		0	
V4	%OW <= 1.5ft	40	0.61	40	0.61	35	0.55
V5	Salinity (ppt)	5.3	1.00	5.3	1.00	5.3	1.00
V6	Access Value	1.0000	1.00	1.0000	1.00	1.0000	1.00
Emergent Marsh HSI =			0.74	EM HSI =	0.74	EM HSI =	0.73
Open Water HSI =			0.79	OW HSI =	0.79	OW HSI =	0.57

Project: **St. Catherine Island Marsh Creation and Shoreline Protection**

Project Area: **219**

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 =	

Project: **St. Catherine Island Marsh Creation and Shoreline Protection**

Project Area: **219**

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

Project: **St. Catherine Island Marsh Creation and Shoreline Protection**

Project Area: 219

Marsh creation benefit area

Condition: Future With Project

Variable		TY 0		TY 1		TY 3	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	66	0.69	33	0.40	70	0.73
V2	% Aquatic	70	0.73	0	0.10	40	0.46
V3	Interspersion	%		%		%	
	Class 1	0	0.40	0	0.10	0	0.40
	Class 2	0		0		0	
	Class 3	100		0		100	
	Class 4	0		0		0	
	Class 5	0		100		0	
V4	%OW <= 1.5ft	40	0.61	100	0.60	100	0.60
V5	Salinity (ppt)	5.3	1.00	5.3	1.00	5.3	1.00
V6	Access Value	1.0000	1.00	0.0001	0.10	1.0000	1.00
Emergent Marsh HSI =			0.74	EM HSI =	0.35	EM HSI =	0.77
Open Water HSI =			0.79	OW HSI =	0.20	OW HSI =	0.64

Project: **St. Catherine Island Marsh Creation and Shoreline Protection**

Project Area: 219

FWP

Variable		TY 5		TY 20		TY	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	99	0.99	97	0.97		
V2	% Aquatic	80	0.82	80	0.82		
V3	Interspersion	%		%		%	
	Class 1	0	0.40	100	1.00		
	Class 2	0		0			
	Class 3	100		0			
	Class 4	0		0			
	Class 5	0		0			
V4	%OW <= 1.5ft	100	0.60	90	0.80		
V5	Salinity (ppt)	5.3	1.00	5.3	1.00		
V6	Access Value	1.0000	1.00	1.0000	1.00		
EM HSI =			0.93	EM HSI =	0.98	EM HSI =	
OW HSI =			0.84	OW HSI =	0.90	OW HSI =	

Project: **St. Catherine Island Marsh Creation and Shoreline Protection**

Project Area: 219

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: St. Catherine Island Marsh Creation and Shoreline Protection
Marsh creation benefit area

Future Without Project			Total HUs	Cummulative HUs
TY	Marsh Acres	x HSI		
0	98	0.74	72.80	
1	97	0.74	72.05	72.42
20	93	0.73	67.44	1324.95
Max TY= 20			AAHUs =	69.87

Future With Project			Total HUs	Cummulative HUs
TY	Marsh Acres	x HSI		
0	98	0.74	72.80	
1	72	0.35	24.98	47.17
3	153	0.77	117.21	130.87
5	217	0.93	201.36	315.12
20	213	0.98	209.55	3082.40
Max TY= 20			AAHUs	178.78

NET CHANGE IN AAHUs DUE TO PROJECT		
A. Future With Project Emergent Marsh AAHUs	=	178.78
B. Future Without Project Emergent Marsh AAHUs	=	69.87
Net Change (FWP - FWOP)	=	108.91

WETLAND VALUE ASSESSMENT COMMUNITY MODEL Brackish Marsh

Project: **St. Catherine Island Marsh Creation and Shoreline Protection**
Shoreline protection benefit area

Project Area: 120

Condition: Future Without Project

Variable		TY 0		TY 1		TY 20	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	66	0.69	63	0.67	0	0.10
V2	% Aquatic	60	0.64	60	0.64	10	0.19
V3	Interspersion	%		%		%	
	Class 1	40	0.52	40	0.52	0	0.10
	Class 2	0		0		0	
	Class 3	0		0		0	
	Class 4	60		60		0	
	Class 5	0		0		100	
V4	%OW <= 1.5ft	25	0.42	25	0.42	0	0.10
V5	Salinity (ppt)	5.3	1.00	5.3	1.00	5.3	1.00
V6	Access Value	1.0000	1.00	1.0000	1.00	1.0000	1.00
Emergent Marsh HSI =		0.76		EM HSI =	0.74	EM HSI =	0.25
Open Water HSI =		0.74		OW HSI =	0.74	OW HSI =	0.38

Project: **St. Catherine Island Marsh Creation and Shoreline Protection**

Project Area: 120

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 =	

Project: **St. Catherine Island Marsh Creation and Shoreline Protection**

Project Area: 120

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

Project: **St. Catherine Island Marsh Creation and Shoreline Protection**

Project Area: 120

Shoreline protection benefit area

Condition: Future With Project

Variable		TY 0		TY 1		TY 20	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	66	0.69	82	0.84	78	0.80
V2	% Aquatic	60	0.64	60	0.64	80	0.82
V3	Interspersion	%		%		%	
	Class 1	40	0.52	100	1.00	100	1.00
	Class 2	0		0		0	
	Class 3	0		0		0	
	Class 4	60		0		0	
V4	%OW <= 1.5ft	25	0.42	40	0.61	35	0.55
V5	Salinity (ppt)	5.3	1.00	5.3	1.00	5.3	1.00
V6	Access Value	1.0000	1.00	1.0000	1.00	1.0000	1.00
		Emergent Marsh HSI = 0.76		EM HSI = 0.90		EM HSI = 0.88	
		Open Water HSI = 0.74		OW HSI = 0.79		OW HSI = 0.88	

Project: **St. Catherine Island Marsh Creation and Shoreline Protection**

Project Area: 120

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: **St. Catherine Island Marsh Creation and Shoreline Protection**

Project Area: 120

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: St. Catherine Island Marsh Creation and Shoreline Protection
Shoreline protection benefit area

Future Without Project			Total HUs	Cummulative HUs
TY	Marsh Acres	x HSI		
0	127	0.76	96.03	
1	121	0.74	89.36	92.68
20	0	0.25	0.00	663.46
Max TY= 20			AAHUs =	37.81

Future With Project			Total HUs	Cummulative HUs
TY	Marsh Acres	x HSI		
0	127	0.76	96.03	
1	99	0.90	89.21	93.30
20	94	0.88	82.59	1631.73
Max TY= 20			AAHUs	86.25

NET CHANGE IN AAHUs DUE TO PROJECT	
A. Future With Project Emergent Marsh AAHUs =	86.25
B. Future Without Project Emergent Marsh AAHUs =	37.81
Net Change (FWP - FWOP) =	48.44

WETLAND VALUE ASSESSMENT

Benefits Summary Sheet

Saline Marsh

Project: Elmer's Island Marsh Creation and Restoration

TOTAL BENEFITS IN AAHUs DUE TO PROJECT

<u>Area</u>	<u>AAHUs</u>
Marsh Creation and Restoration	120.93

TOTAL BENEFITS = 120.93 AAHUS

WETLAND VALUE ASSESSMENT COMMUNITY MODEL

Saline Marsh

Project: **Elmer's Island Marsh Creation and Restoration**

Project Area: **265**

Condition: Future Without Project

Variable		TY 0		TY 1		TY 20	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	14	0.23	14	0.23	12	0.21
V2	% Aquatic	0	0.30	0	0.30	0	0.30
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	19	0.34	19	0.34	14	0.28
V5	Salinity (ppt)	20	1.00	20	1.00	20	1.00
V6	Access Value	1.0000	1.00	1.0000	1.00	1.0000	1.00
Emergent Marsh HSI =		0.39		EM HSI =	0.39	EM HSI =	0.37
Open Water HSI =		0.67		OW HSI =	0.67	OW HSI =	0.66

Project: **Elmer's Island Marsh Creation and Restoration**

Project Area: **265**

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 =	

Project: **Elmer's Island Marsh Creation and Restoration**

Project Area: **265**

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: Elmer's Island Marsh Creation and Restoration

Project Area: 265

Condition: Future With Project

Variable		TY 0		TY 1		TY 3	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	14	0.23	22	0.30	57	0.61
V2	% Aquatic	0	0.30	0	0.30	0	0.30
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	19	0.34	100	0.50	100	0.50
V5	Salinity (ppt)	20	1.00	20	1.00	20	1.00
V6	Access Value	1.0000	1.00	0.0001	0.10	1.0000	1.00
		Emergent Marsh HSI = 0.39		EM HSI = 0.30		EM HSI = 0.69	
		Open Water HSI = 0.67		OW HSI = 0.23		OW HSI = 0.69	

Project: Elmer's Island Marsh Creation and Restoration

Project Area: 265

FWP

Variable		TY 5		TY 13		TY 20	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	99	0.99	97	0.97	96	0.96
V2	% Aquatic	0	0.30	0	0.30	0	0.30
V3	Interspersion	%		%		%	
	Class 1	0	0.40	100	1.00	100	1.00
	Class 2	0		0		0	
	Class 3	100		0		0	
	Class 4	0		0		0	
	Class 5	0		0		0	
V4	%OW <= 1.5ft	100	0.50	95	0.63	90	0.75
V5	Salinity (ppt)	20	1.00	20	1.00	20	1.00
V6	Access Value	1.0000	1.00	1.0000	1.00	1.0000	1.00
		EM HSI = 0.93		EM HSI = 0.98		EM HSI = 0.98	
		OW HSI = 0.69		OW HSI = 0.75		OW HSI = 0.76	

Project: Elmer's Island Marsh Creation and Restoration

Project Area: 265

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: Elmer's Island Marsh Creation and Restoration

Future Without Project			Total HUs	Cummulative HUs
TY	Marsh Acres	x HSI		
0	37	0.39	14.37	
1	37	0.39	14.37	14.37
20	33	0.37	12.31	253.18
Max= 20			AAHUs =	13.38

Future With Project			Total HUs	Cummulative HUs
TY	Marsh Acres	x HSI		
0	37	0.39	14.37	
1	58	0.30	17.32	16.16
3	150	0.69	104.16	109.35
5	262	0.93	243.16	338.59
13	258	0.98	253.92	1988.61
20	255	0.98	249.62	1762.38
Max= 20			AAHUs	210.75

NET CHANGE IN AAHUs DUE TO PROJECT		
A. Future With Project Emergent Marsh AAHUs	=	210.75
B. Future Without Project Emergent Marsh AAHUs	=	13.38
Net Change (FWP - FWOP)	=	197.38

WETLAND VALUE ASSESSMENT

Benefits Summary Sheet

Saline Marsh

Project: East Bayou Lafourche Marsh Creation

TOTAL BENEFITS IN AAHUs DUE TO PROJECT

$\frac{\text{Area}}{\text{Marsh Creation}}$

$\frac{\text{AAHUs}}{174.82}$

TOTAL BENEFITS = 174.82 AAHUS

WETLAND VALUE ASSESSMENT COMMUNITY MODEL Saline Marsh

Project: **East Bayou Lafourche Marsh Creation**

Project Area: **417**

Condition: Future Without Project

Variable		TY 0		TY 1		TY 20	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	12	0.21	12	0.21	9	0.18
V2	% Aquatic	0	0.30	0	0.30	0	0.30
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	7	0.19	7	0.19	1	0.11
V5	Salinity (ppt)	15.3	1.00	15.3	1.00	15.3	1.00
V6	Access Value	1.0000	1.00	1.0000	1.00	1.0000	1.00
Emergent Marsh HSI =		0.37		EM HSI =	0.37	EM HSI =	0.35
Open Water HSI =		0.65		OW HSI =	0.65	OW HSI =	0.65

Project: **East Bayou Lafourche Marsh Creation**

Project Area: **417**

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 =	

Project: **East Bayou Lafourche Marsh Creation**

Project Area: **417**

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: East Bayou Lafourche Marsh Creation

Project Area: 417

Condition: Future With Project

Variable		TY 0		TY 1		TY 3	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	12	0.21	15	0.24	37	0.43
V2	% Aquatic	0	0.30	0	0.30	0	0.30
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	
V4	%OW <= 1.5ft	7	0.19	100	0.50	100	0.50
V5	Salinity (ppt)	15.3	1.00	15.3	1.00	15.3	1.00
V6	Access Value	1.0000	1.00	0.0001	0.10	1.0000	1.00
Emergent Marsh HSI =		0.37		EM HSI =	0.27	EM HSI =	0.57
Open Water HSI =		0.65		OW HSI =	0.23	OW HSI =	0.69

Project: East Bayou Lafourche Marsh Creation

Project Area: 417

FWP

Variable		TY 5		TY 20		TY	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	97	0.97	87	0.88		
V2	% Aquatic	0	0.30	0	0.30		
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	0.50	80	1.00		
V5	Salinity (ppt)	15.3	1.00	15.3	1.00		
V6	Access Value	1.0000	1.00	1.0000	1.00		
EM HSI =		0.98		EM HSI =	0.93	EM HSI =	
OW HSI =		0.74		OW HSI =	0.77	OW HSI =	

Project: East Bayou Lafourche Marsh Creation

Project Area: 417

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 =	

WETLAND VALUE ASSESSMENT

Benefits Summary Sheet

Brackish Marsh

Project: Bayou Terrebonne Freshwater Diversion

TOTAL BENEFITS IN AAHUs DUE TO PROJECT

$\frac{\text{Area}}{\text{Freshwater Diversion Benefit Area}}$	$\frac{\text{AAHUs}}{46.92}$
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$\frac{\text{Area}}{\text{Terrace Benefit Area}}$	$\frac{\text{AAHUs}}{7.88}$
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TOTAL BENEFITS = 54.80 AAHUS

WETLAND VALUE ASSESSMENT COMMUNITY MODEL Brackish Marsh

Project: Bayou Terrebonne Freshwater Diversion

Project Area: 5,979

Freshwater diversion benefit area

Condition: Future Without Project

Variable		TY 0		TY 1		TY 20	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	40	0.46	40	0.46	34	0.41
V2	% Aquatic	2	0.12	2	0.12	2	0.12
V3	Interspersion	%		%		%	
	Class 1	0	0.28	0	0.28	0	0.28
	Class 2	0		0		0	
	Class 3	40		40		40	
	Class 4	60		60		60	
	Class 5	0		0		0	
V4	%OW <= 1.5ft	56	0.82	55	0.81	33	0.52
V5	Salinity (ppt)	5.6	1.00	5.6	1.00	5.6	1.00
V6	Access Value	0.2300	0.31	0.2300	0.31	0.2300	0.31
		Emergent Marsh HSI = 0.47		EM HSI = 0.47		EM HSI = 0.44	
		Open Water HSI = 0.29		OW HSI = 0.29		OW HSI = 0.27	

Project: Bayou Terrebonne Freshwater Diversion

Project Area: 5979

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 =	

Project: Bayou Terrebonne Freshwater Diversion

Project Area: 5979

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

Project: Bayou Terrebonne Freshwater Diversion

Project Area: 5979

Freshwater diversion benefit area

Condition: Future With Project

Variable		TY 0		TY 1		TY 3	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	40	0.46	40	0.46	39	0.45
V2	% Aquatic	2	0.12	5	0.15	5	0.15
V3	Interspersion	%		%		%	
	Class 1	0	0.28	0	0.28	0	0.28
	Class 2	0		0		0	
	Class 3	40		40		40	
	Class 4	60		60		60	
	Class 5	0		0		0	
V4	%OW <= 1.5ft	56	0.82	56	0.82	55	0.81
V5	Salinity (ppt)	5.6	1.00	5.1	1.00	5.1	1.00
V6	Access Value	0.2300	0.31	0.2300	0.31	0.2300	0.31
		Emergent Marsh HSI =	0.47	EM HSI =	0.47	EM HSI =	0.46
		Open Water HSI =	0.29	OW HSI =	0.31	OW HSI =	0.31

Project: Bayou Terrebonne Freshwater Diversion

Project Area: 5979

FWP

Variable		TY 5		TY 20		TY	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	39	0.45	37	0.43		
V2	% Aquatic	5	0.15	5	0.15		
V3	Interspersion	%		%		%	
	Class 1	0	0.28	0	0.28		
	Class 2	0		0			
	Class 3	40		40			
	Class 4	60		60			
	Class 5	0		0			
V4	%OW <= 1.5ft	50	0.74	33	0.52		
V5	Salinity (ppt)	5.1	1.00	5.1	1.00		
V6	Access Value	0.2300	0.31	0.2300	0.31		
		EM HSI =	0.46	EM HSI =	0.45	EM HSI =	
		OW HSI =	0.30	OW HSI =	0.29	OW HSI =	

Project: Bayou Terrebonne Freshwater Diversion

Project Area: 5979

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 Terrebonne Freshwater Diversion
Freshwater diversion benefit area

Future Without Project			Total HUs	Cummulative HUs
TY	Marsh Acres	x HSI		
0	2380	0.47	1114.13	
1	2363	0.47	1106.18	1110.15
20	2052	0.44	899.34	19023.00
Max TY= 20			AAHUs =	1006.66

Future With Project			Total HUs	Cummulative HUs
TY	Marsh Acres	x HSI		
0	2380	0.47	1114.13	
1	2371	0.47	1109.92	1112.03
3	2354	0.46	1090.39	2200.28
5	2336	0.46	1082.05	2172.44
20	2208	0.45	1000.90	15618.98
Max TY= 20			AAHUs	1055.19

NET CHANGE IN AAHUs DUE TO PROJECT	
A. Future With Project Emergent Marsh AAHUs =	1055.19
B. Future Without Project Emergent Marsh AAHUs =	1006.66
Net Change (FWP - FWOP) =	48.53

WETLAND VALUE ASSESSMENT COMMUNITY MODEL

Brackish Marsh

Project: **Bayou Terrebonne Freshwater Diversion**

Project Area: **330**

Terrace benefit area

Condition: Future Without Project

Variable		TY 0		TY 1		TY 20	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	0	0.10	0	0.10	0	0.10
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	56	0.82	55	0.81	33	0.52
V5	Salinity (ppt)	5.6	1.00	5.6	1.00	5.6	1.00
V6	Access Value	0.2500	0.33	0.2500	0.33	0.2500	0.33
		Emergent Marsh HSI = 0.22		EM HSI = 0.22		EM HSI = 0.22	
		Open Water HSI = 0.28		OW HSI = 0.28		OW HSI = 0.26	

Project: **Bayou Terrebonne Freshwater Diversion**

Project Area: **330**

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 =	

Project: **Bayou Terrebonne Freshwater Diversion**

Project Area: **330**

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

Project: Bayou Terrebonne Freshwater Diversion

Project Area: 330

Terrace benefit area

Condition: Future With Project

Variable		TY 0		TY 1		TY 3	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	0	0.10	1	0.11	6	0.15
V2	% Aquatic	2	0.12	0	0.10	5	0.15
V3	Interspersion	%		%		%	
	Class 1	0	0.10	0	0.40	0	0.40
	Class 2	0		0		0	
	Class 3	0		100		100	
	Class 4	0		0		0	
	Class 5	100		0		0	
V4	%OW <= 1.5ft	56	0.82	53	0.78	53	0.78
V5	Salinity (ppt)	5.6	1.00	5.1	1.00	5.1	1.00
V6	Access Value	0.2500	0.33	0.2500	0.33	0.2500	0.33
		Emergent Marsh HSI =	0.22	EM HSI =	0.26	EM HSI =	0.30
		Open Water HSI =	0.28	OW HSI =	0.29	OW HSI =	0.32

Project: Bayou Terrebonne Freshwater Diversion

Project Area: 330

FWP

Variable		TY 5		TY 20		TY	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	6	0.15	5	0.15		
V2	% Aquatic	10	0.19	10	0.19		
V3	Interspersion	%		%		%	
	Class 1	0	0.40	0	0.40		
	Class 2	0		0			
	Class 3	100		100			
	Class 4	0		0			
	Class 5	0		0			
V4	%OW <= 1.5ft	53	0.78	50	0.74		
V5	Salinity (ppt)	5.1	1.00	5.1	1.00		
V6	Access Value	0.2500	0.33	0.2500	0.33		
		EM HSI =	0.30	EM HSI =	0.29	EM HSI =	
		OW HSI =	0.34	OW HSI =	0.34	OW HSI =	

Project: Bayou Terrebonne Freshwater Diversion

Project Area: 330

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 - OPEN WATER

Project: Bayou Terrebonne Freshwater Diversion

Terrace benefit area

Future Without Project			Total HUs	Cummulative HUs
TY	Water Acres	x HSI		
0	330	0.28	92.36	
1	330	0.28	92.04	92.20
20	330	0.26	85.13	1683.12
Max TY= 20			AAHUs =	88.77

Future With Project			Total HUs	Cummulative HUs
TY	Water Acres	x HSI		
0	330	0.28	92.36	
1	311	0.29	89.02	90.71
3	312	0.32	99.01	188.02
5	312	0.34	107.57	206.58
20	313	0.34	107.02	1609.41
Max TY= 20			AAHUs	104.74

NET CHANGE IN AAHUs DUE TO PROJECT		
A. Future With Project Open Water AAHUs	=	104.74
B. Future Without Project Open Water AAHUs	=	88.77
Net Change (FWP - FWOP)	=	15.97

TOTAL BENEFITS IN AAHUs DUE TO PROJECT		
A. Emergent Marsh Habitat Net AAHUs	=	4.76
B. Open Water Habitat Net AAHUs	=	15.97
Net Benefits= (2.6xEMAAHUs+OWAAHUs)/3.6	=	7.88

WETLAND VALUE ASSESSMENT

Benefits Summary Sheet

Saline Marsh

Project: West Louisiana Highway 1 Marsh Creation

TOTAL BENEFITS IN AAHUs DUE TO PROJECT

$\frac{\text{Area}}{\text{Marsh Creation}}$

$\frac{\text{AAHUs}}{147.65}$

TOTAL BENEFITS = 147.65 AAHUS

WETLAND VALUE ASSESSMENT COMMUNITY MODEL Saline Marsh

Project: **West Louisiana Highway 1 Marsh Creation**

Project Area: **346**

Condition: Future Without Project

Variable		TY 0		TY 1		TY 20	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	16	0.24	16	0.24	13	0.22
V2	% Aquatic	1	0.31	1	0.31	1	0.31
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	0	0.10	0	0.10	0	0.10
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
		Emergent Marsh HSI = 0.40		EM HSI = 0.40		EM HSI = 0.38	
		Open Water HSI = 0.65		OW HSI = 0.65		OW HSI = 0.65	

Project: **West Louisiana Highway 1 Marsh Creation**

Project Area: **346**

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 =	

Project: **West Louisiana Highway 1 Marsh Creation**

Project Area: **346**

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: West Louisiana Highway 1 Marsh Creation

Project Area: 346

Condition: Future With Project

Variable		TY 0		TY 1		TY 3	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	16	0.24	16	0.24	40	0.46
V2	% Aquatic	1	0.31	0	0.30	1	0.31
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	0	0.10	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 = 0.40		EM HSI = 0.27		EM HSI = 0.59	
		Open Water HSI = 0.65		OW HSI = 0.23		OW HSI = 0.70	

Project: West Louisiana Highway 1 Marsh Creation

Project Area: 346

FWP

Variable		TY 5		TY 20		TY	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	97	0.97	90	0.91		
V2	% Aquatic	5	0.34	5	0.34		
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 = 0.95		EM HSI =	
		OW HSI = 0.75		OW HSI = 0.79		OW HSI =	

Project: West Louisiana Highway 1 Marsh Creation

Project Area: 346

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 - OPEN WATER

Project: West Louisiana Highway 1 Marsh Creation

Future Without Project			Total HUs	Cummulative HUs
TY	Water Acres	x HSI		
0	292	0.65	190.19	
1	292	0.65	190.19	190.19
20	302	0.65	196.70	3675.49
Max= 20			AAHUs =	193.28

Future With Project			Total HUs	Cummulative HUs
TY	Water Acres	x HSI		
0	292	0.65	190.19	
1	2	0.23	0.45	74.72
3	5	0.70	3.48	3.46
5	9	0.75	6.79	10.19
20	35	0.79	27.69	256.21
Max= 20			AAHUs	17.23

NET CHANGE IN AAHUs DUE TO PROJECT		
A. Future With Project Open Water AAHUs	=	17.23
B. Future Without Project Open Water AAHUs	=	193.28
Net Change (FWP - FWOP)	=	-176.05

TOTAL BENEFITS IN AAHUs DUE TO PROJECT		
A. Emergent Marsh Habitat Net AAHUs	=	240.14
B. Open Water Habitat Net AAHUs	=	-176.05
Net Benefits= (3.5xEMAAHUs+OWAAHUs)/4.5		147.65

WETLAND VALUE ASSESSMENT

Benefits Summary Sheet

Fresh/Intermediate Marsh

Project: Bayou Decade Ridge Restoration and Marsh Creation

TOTAL BENEFITS IN AAHUs DUE TO PROJECT

$\frac{\text{Area}}{\text{Marsh Creation}}$	$\frac{\text{AAHUs}}{126.03}$
$\frac{\text{Area}}{\text{Coastal Chenier/Ridge - No ridge habitat FWOP}}$	$\frac{\text{AAHUs}}{7.34}$

TOTAL BENEFITS = 133.37 AAHUS

WETLAND VALUE ASSESSMENT COMMUNITY MODEL Fresh/Intermediate Marsh

Project: **Bayou Decade Ridge Restoration and Marsh Creation**

Project Area:	517
% Fresh	0
% Intermediate	100

Condition: Future Without Project

Variable		TY 0		TY 1		TY 20	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	23	0.31	23	0.31	19	0.27
V2	% Aquatic	90	0.91	90	0.91	90	0.91
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	7	0.18	7	0.18	2	0.12
V5	Salinity (ppt)						
	fresh		1.00		1.00		1.00
	intermediate	1.6		1.6		1.6	
V6	Access Value						
	fresh		0.60		0.60		0.60
	intermediate	0.5000		0.5000		0.5000	
Emergent Marsh HSI =		0.40		EM HSI =	0.40	EM HSI =	0.37
Open Water HSI =		0.74		OW HSI =	0.74	OW HSI =	0.74

Project: Bayou Decade Ridge Restoration and Marsh Creation

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						
EM HSI =				EM HSI =		EM HSI =	
OW HSI =				OW HSI =		OW HSI =	

Project: Bayou Decade Ridge Restoration and Marsh Creation

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						
EM HSI =				EM HSI =		EM HSI =	
OW HSI =				OW HSI =		OW HSI =	

WETLAND VALUE ASSESSMENT COMMUNITY MODEL Fresh/Intermediate Marsh

Project: Bayou Decade Ridge Restoration and Marsh Creation

Project Area:	505
% Fresh	0
% Intermediate	100

Condition: Future With Project

Variable		TY 0		TY 1		TY 3	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	23	0.31	18	0.26	44	0.50
V2	% Aquatic	90	0.91	0	0.10	45	0.51
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	7	0.18	100	0.60	100	0.60
V5	Salinity (ppt)						
	fresh		1.00		1.00		1.00
	intermediate	1.6		1.6		1.6	
V6	Access Value						
	fresh		0.60		0.20		0.60
	intermediate	0.5		0.0001		0.5000	
Emergent Marsh HSI =		0.40		EM HSI =	0.32	EM HSI =	0.55
Open Water HSI =		0.74		OW HSI =	0.22	OW HSI =	0.56

Project: Bayou Decade Ridge Restoration and Marsh Creation

FWP

Variable		TY 5		TY 7		TY 20	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	98	0.98	97	0.97	92	0.93
V2	% Aquatic	90	0.91	90	0.91	90	0.91
V3	Interspersion	%		%		%	
	Class 1	0	0.40	100	1.00	100	1.00
	Class 2	0		0		0	
	Class 3	100		0		0	
	Class 4	0		0		0	
	Class 5	0		0		0	
V4	%OW <= 1.5ft	100	0.60	100	0.60	80	1.00
V5	Salinity (ppt)						
	fresh		1.00		1.00		1.00
	intermediate	1.6		1.6		1.6	
V6	Access Value						
	fresh		0.60		0.60		0.60
	intermediate	0.5000		0.5000		0.5000	
EM HSI =		0.86		EM HSI =	0.92	EM HSI =	0.89
OW HSI =		0.79		OW HSI =	0.83	OW HSI =	0.86

Project: Bayou Decade Ridge Restoration and Marsh Creation

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)						
	fresh						
	intermediate						
V6	Access Value						
	fresh						
	intermediate						
EM HSI =				EM HSI =		EM HSI =	
OW HSI =				OW HSI =		OW HSI =	

AAHU CALCULATION - OPEN WATER

Project: Bayou Decade Ridge Restoration and Marsh Creation

Future Without Project			Total HUs	Cummulative HUs
TY	Water Acres	x HSI		
0	399	0.74	295.23	
1	400	0.74	295.97	295.60
20	416	0.74	306.07	5719.56
Max= 20			AAHUs =	300.76

Future With Project			Total HUs	Cummulative HUs
TY	Water Acres	x HSI		
0	399	0.74	295.23	
1	2	0.22	0.44	113.33
3	6	0.56	3.35	3.33
5	10	0.79	7.86	10.91
7	14	0.83	11.63	19.43
20	38	0.86	32.68	286.45
Max= 20			AAHUs	21.67

NET CHANGE IN AAHUs DUE TO PROJECT	
A. Future With Project Open Water AAHUs =	21.67
B. Future Without Project Open Water AAHUs =	300.76
Net Change (FWP - FWOP) =	-279.09

TOTAL BENEFITS IN AAHUs DUE TO PROJECT	
A. Emergent Marsh Habitat Net AAHUs =	318.94
B. Open Water Habitat Net AAHUs =	-279.09
Net Benefits=(2.1xEMAAHUs+OWAAHUs)/3.1	126.03

WETLAND VALUE ASSESSMENT COMMUNITY MODEL

Coastal Chenier/Ridge

Project: **Bayou Decade Ridge Restoration and Marsh Creation** Project Area: **12**

No ridge habitat FWOP

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
HSI =		0.10		0.10		0.10	

Project: **Bayou Decade Ridge Restoration and Marsh Creation** 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						
HSI =							

Project: **Bayou Decade Ridge Restoration and Marsh Creation** 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						
HSI =							

WETLAND VALUE ASSESSMENT COMMUNITY MODEL

Coastal Chenier/Ridge

Project: Bayou Decade Ridge Restoration and Marsh Creation

Project Area: 12

Condition: Future With Project

Variable		TY 0		TY 1		TY 3	
		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
		HSI =	0.10	HSI =	0.10	HSI =	0.31

Project: Bayou Decade Ridge Restoration and Marsh Creation

Project Area: 12

FWP

Variable		TY 7		TY 12		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	8	0.90	8	0.90	10	1.00
		HSI =	0.53	HSI =	0.74	HSI =	0.87

Project: Bayou Decade Ridge Restoration and Marsh Creation

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				
		HSI =	0.93	HSI =		HSI =	

WETLAND VALUE ASSESSMENT

Benefits Summary Sheet

Fresh/Intermediate Marsh
Project: East Pecan Island Marsh Creation

TOTAL BENEFITS IN AAHUs DUE TO PROJECT

$\frac{\text{Area}}{\text{Marsh Creation}}$	$\frac{\text{AAHUs}}{176.94}$
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TOTAL BENEFITS = 176.94 AAHUS

WETLAND VALUE ASSESSMENT COMMUNITY MODEL

Fresh/Intermediate Marsh

Project: **East Pecan Island Marsh Creation**

Project Area:	521
% Fresh	0
% Intermediate	100

Condition: Future Without Project

Variable		TY 0		TY 1		TY 20	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	4	0.14	4	0.14	4	0.14
V2	% Aquatic	30	0.37	30	0.37	30	0.37
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	4	0.15	4	0.15	1	0.11
V5	Salinity (ppt)						
	fresh		0.74		0.74		0.74
	intermediate	3.8		3.8		3.8	
V6	Access Value						
	fresh		0.44		0.44		0.44
	intermediate	0.3000		0.3000		0.3000	
Emergent Marsh HSI =			0.22	EM HSI =	0.22	EM HSI =	0.22
Open Water HSI =			0.37	OW HSI =	0.37	OW HSI =	0.37

Project: East Pecan Island Marsh Creation

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						
EM HSI =				EM HSI =		EM HSI =	
OW HSI =				OW HSI =		OW HSI =	

Project: East Pecan Island Marsh Creation

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						
EM HSI =				EM HSI =		EM HSI =	
OW HSI =				OW HSI =		OW HSI =	

WETLAND VALUE ASSESSMENT COMMUNITY MODEL Fresh/ Intermediate Marsh

Project: East Pecan Island Marsh Creation

Project Area:	521
% Fresh	0
% Intermediate	100

Condition: Future With Project

Variable		TY 0		TY 1		TY 3	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	4	0.14	19	0.27	52	0.57
V2	% Aquatic	30	0.37	0	0.10	15	0.24
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	4	0.15	100	0.60	100	0.60
V5	Salinity (ppt)						
	fresh intermediate		0.74		0.74		0.74
V6	Access Value						
	fresh intermediate		0.44	0.0001	0.20	0.3000	0.44
		Emergent Marsh HSI =	0.22	EM HSI =	0.29	EM HSI =	0.55
		Open Water HSI =	0.37	OW HSI =	0.20	OW HSI =	0.34

Project: East Pecan Island Marsh Creation FWP

Variable		TY 5		TY 6		TY 20	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	98	0.98	97	0.97	92	0.93
V2	% Aquatic	30	0.37	30	0.37	30	0.37
V3	Interspersion	%		%		%	
	Class 1	0	0.40	100	1.00	100	1.00
	Class 2	0		0		0	
	Class 3	100		0		0	
	Class 4	0		0		0	
	Class 5	0		0		0	
V4	%OW <= 1.5ft	100	0.60	100	0.60	80	1.00
V5	Salinity (ppt)						
	fresh intermediate		0.74		0.74		0.74
V6	Access Value						
	fresh intermediate		0.44	0.3000	0.44	0.3000	0.44
		EM HSI =	0.79	EM HSI =	0.86	EM HSI =	0.83
		OW HSI =	0.43	OW HSI =	0.47	OW HSI =	0.50

Project: East Pecan Island Marsh Creation 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)						
	fresh intermediate						
V6	Access Value						
	fresh intermediate						
		EM HSI =		EM HSI =		EM HSI =	
		OW HSI =		OW HSI =		OW HSI =	

WETLAND VALUE ASSESSMENT

Benefits Summary Sheet

Brackish Marsh and Saline Marsh

Project: North Mud Lake Marsh Creation and Nourishment

TOTAL BENEFITS IN AAHUs DUE TO PROJECT

$\frac{\text{Area}}{\text{Marsh Creation Area}}$	$\frac{\text{AAHUs}}{208.7}$
$\frac{\text{Area}}{\text{Upland Disposal Area Marsh Creation}}$	$\frac{\text{AAHUs}}{89.68}$

TOTAL BENEFITS = 298.38 AAHUS

WETLAND VALUE ASSESSMENT COMMUNITY MODEL Brackish Marsh

Project: **North Mud Lake Marsh Creation and Nourishment**
Marsh Creation Area

Project Area: 497

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	10	0.23	10	0.23	6	0.18
V5	Salinity (ppt)	16	0.10	16	0.10	16	0.10
V6	Access Value	1.0000	1.00	1.0000	1.00	1.0000	1.00
Emergent Marsh HSI =		0.20	EM HSI =	0.20	EM HSI =	0.19	
Open Water HSI =		0.24	OW HSI =	0.24	OW HSI =	0.23	

Project: **North Mud Lake Marsh Creation and Nourishment**

Project Area: 497

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 =	

Project: **North Mud Lake Marsh Creation and Nourishment**

Project Area: 497

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

Project: North Mud Lake Marsh Creation and Nourishment

Project Area: 497

Marsh Creation Area

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	1	0.11
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	99	0.62	99	0.62
V5	Salinity (ppt)	16	0.10	16	0.10	16	0.10
V6	Access Value	1.0000	1.00	0.0001	0.10	1.0000	1.00
Emergent Marsh HSI =		0.20		EM HSI =	0.16	EM HSI =	0.44
Open Water HSI =		0.24		OW HSI =	0.14	OW HSI =	0.29

Project: North Mud Lake Marsh Creation and Nourishment

Project Area: 497

FWP

Variable		TY 5		TY 20		TY	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	97	0.97	92	0.93		
V2	% Aquatic	1	0.11	1	0.11		
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	99	0.62	90	0.80		
V5	Salinity (ppt)	16	0.10	16	0.10		
V6	Access Value	1.0000	1.00	1.0000	1.00		
EM HSI =		0.88		EM HSI =	0.86	EM HSI =	
OW HSI =		0.33		OW HSI =	0.35	OW HSI =	

Project: North Mud Lake Marsh Creation and Nourishment

Project Area: 497

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: North Mud Lake Marsh Creation and Nourishment
Marsh Creation Area

Future Without Project			Total HUs	Cummulative HUs
TY	Marsh Acres	x HSI		
0	26	0.20	5.16	
1	26	0.20	5.16	5.16
20	22	0.19	4.18	88.56
Max TY= 20			AAHUs =	4.69

Future With Project			Total HUs	Cummulative HUs
TY	Marsh Acres	x HSI		
0	26	0.20	5.16	
1	59	0.16	9.37	7.48
3	164	0.44	71.78	71.40
5	482	0.88	425.99	450.49
20	456	0.86	390.59	6122.56
Max TY= 20			AAHUs	332.60

NET CHANGE IN AAHUs DUE TO PROJECT		
A. Future With Project Emergent Marsh AAHUs	=	332.60
B. Future Without Project Emergent Marsh AAHUs	=	4.69
Net Change (FWP - FWOP)	=	327.91

AAHU CALCULATION - OPEN WATER

Project: North Mud Lake Marsh Creation and Nourishment

Marsh Creation Area

Future Without Project			Total HUs	Cummulative HUs
TY	Water Acres	x HSI		
0	471	0.24	111.86	
1	471	0.24	111.86	111.86
20	475	0.23	111.00	2117.13
Max TY=			AAHUs =	111.45

Future With Project			Total HUs	Cummulative HUs
TY	Water Acres	x HSI		
0	471	0.24	111.86	
1	7	0.14	0.97	48.76
3	11	0.29	3.18	3.95
5	15	0.33	5.00	8.11
20	41	0.35	14.21	143.15
Max TY=			AAHUs	10.20

NET CHANGE IN AAHUs DUE TO PROJECT	
A. Future With Project Open Water AAHUs =	10.20
B. Future Without Project Open Water AAHUs =	111.45
Net Change (FWP - FWOP) =	-101.25

TOTAL BENEFITS IN AAHUs DUE TO PROJECT	
A. Emergent Marsh Habitat Net AAHUs =	327.91
B. Open Water Habitat Net AAHUs =	-101.25
Net Benefits= (2.6xEMAAHUs+OWAAHUs)/3.6	208.70

WETLAND VALUE ASSESSMENT COMMUNITY MODEL

Saline Marsh

Project: **North Mud Lake Marsh Creation and Nourishment**

Project Area: **168**

Upland Disposal Area Marsh Creation

Condition: Future Without Project

Variable		TY 0		TY 1		TY 20	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	0	0.10	0	0.10	0	0.10
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	0	0.10	0	0.10	0	0.10
V5	Salinity (ppt)	16	1.00	16	1.00	16	1.00
V6	Access Value	0.0001	0.10	0.0001	0.10	0.0001	0.10
Emergent Marsh HSI =		0.20		EM HSI =		0.20	
Open Water HSI =		0.20		OW HSI =		0.20	

Project: **North Mud Lake Marsh Creation and Nourishment**

Project Area: **168**

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 =			
OW HSI =				OW HSI =			

Project: **North Mud Lake Marsh Creation and Nourishment**

Project Area: **168**

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 =			
OW HSI =				OW HSI =			

WETLAND VALUE ASSESSMENT COMMUNITY MODEL Saline Marsh

Project: **North Mud Lake Marsh Creation and Nourishment**

Project Area: **168**

Upland Disposal Area Marsh Creation

Condition: Future With Project

Variable		TY 0		TY 1		TY 3	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	0	0.10	14	0.23	40	0.46
V2	% Aquatic	0	0.30	0	0.30	1	0.31
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	0	0.10	100	0.50	100	0.50
V5	Salinity (ppt)	16	1.00	16	1.00	16	1.00
V6	Access Value	0.0001	0.10	0.0001	0.10	0.5000	0.55
Emergent Marsh HSI =		0.20		EM HSI =	0.27	EM HSI =	0.53
Open Water HSI =		0.20		OW HSI =	0.23	OW HSI =	0.50

Project: **North Mud Lake Marsh Creation and Nourishment**

Project Area: **168**

FWP

Variable		TY 5		TY 7		TY 20	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	98	0.98	97	0.97	93	0.94
V2	% Aquatic	1	0.31	1	0.31	1	0.31
V3	Interspersion	%		%		%	
	Class 1	0	0.40	100	1.00	100	1.00
	Class 2	0		0		0	
	Class 3	100		0		0	
	Class 4	0		0		0	
	Class 5	0		0		0	
V4	%OW <= 1.5ft	100	0.50	100	0.50	90	0.75
V5	Salinity (ppt)	16	1.00	16	1.00	16	1.00
V6	Access Value	0.5000	0.55	0.5000	0.55	0.5000	0.55
EM HSI =		0.82		EM HSI =	0.88	EM HSI =	0.86
OW HSI =		0.50		OW HSI =	0.55	OW HSI =	0.57

Project: **North Mud Lake Marsh Creation and Nourishment**

Project Area: **168**

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: North Mud Lake Marsh Creation and Nourishment
Upland Disposal Area Marsh Creation

Future Without Project			Total HUs	Cummulative HUs
TY	Marsh Acres	x HSI		
0	0	0.20	0.00	
1	0	0.20	0.00	0.00
20	0	0.20	0.00	0.00
Max= 20			AAHUs =	0.00

Future With Project			Total HUs	Cummulative HUs
TY	Marsh Acres	x HSI		
0	0	0.20	0.00	
1	23	0.27	6.11	2.80
3	66	0.53	34.96	37.28
5	165	0.82	134.69	160.19
7	164	0.88	144.06	278.77
20	156	0.86	134.18	1808.23
Max= 20			AAHUs	114.36

NET CHANGE IN AAHUs DUE TO PROJECT	
A. Future With Project Emergent Marsh AAHUs =	114.36
B. Future Without Project Emergent Marsh AAHUs =	0.00
Net Change (FWP - FWOP) =	114.36

AAHU CALCULATION - OPEN WATER

Project: North Mud Lake Marsh Creation and Nourishment
Upland Disposal Area Marsh Creation

Future Without Project			Total HUs	Cummulative HUs
TY	Water Acres	x HSI		
0	0	0.20	0.00	
1	0	0.20	0.00	0.00
20	0	0.20	0.00	0.00
Max= 20			AAHUs =	0.00

Future With Project			Total HUs	Cummulative HUs
TY	Water Acres	x HSI		
0	0	0.20	0.00	
1	1	0.23	0.23	0.11
3	2	0.50	1.01	1.14
5	3	0.50	1.51	2.51
7	4	0.55	2.19	3.68
20	12	0.57	6.79	58.04
Max= 20			AAHUs	3.27

NET CHANGE IN AAHUs DUE TO PROJECT		
A. Future With Project Open Water AAHUs	=	3.27
B. Future Without Project Open Water AAHUs	=	0.00
Net Change (FWP - FWOP)	=	3.27

TOTAL BENEFITS IN AAHUs DUE TO PROJECT		
A. Emergent Marsh Habitat Net AAHUs	=	114.36
B. Open Water Habitat Net AAHUs	=	3.27
Net Benefits= (3.5xEMAAHUs+OWAAHUs)/4.5		89.68

WETLAND VALUE ASSESSMENT

Benefits Summary Sheet

Fresh/Intermediate Marsh and Brackish Marsh

Project: Salvinia Weevil Propagation Facility

TOTAL BENEFITS IN AAHUs DUE TO PROJECT

$\frac{\text{Area}}{\text{Brackish Marsh}}$	$\frac{\text{AAHUs}}{44.06}$
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$\frac{\text{Area}}{\text{Fresh Marsh}}$	$\frac{\text{AAHUs}}{239.18}$
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$\frac{\text{Area}}{\text{Intermediate Marsh}}$	$\frac{\text{AAHUs}}{314.25}$
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TOTAL BENEFITS = 597.49 AAHUS

WETLAND VALUE ASSESSMENT COMMUNITY MODEL Brackish Marsh

Project: Salvinia Weevil Propagation Facility

Project Area: 8,234

Condition: Future Without Project

Variable		TY 0		TY 1		TY 10	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	0.03	0.10	0.02	0.10	0.01	0.10
V2	% Aquatic	5	0.15	5	0.15	3	0.13
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)	3	1.00	3	1.00	3	1.00
V6	Access Value	0.5355	0.58	0.5355	0.58	0.5355	0.58
Emergent Marsh HSI =		0.24		EM HSI =	0.24	EM HSI =	0.24
Open Water HSI =		0.30		OW HSI =	0.30	OW HSI =	0.28

Project: Salvinia Weevil Propagation Facility

Project Area: 8234

FWOP

Variable		TY 12		TY 20		TY	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	0.01	0.10	0	0.10		
V2	% Aquatic	5	0.15	4	0.14		
V3	Interspersion	%		%		%	
	Class 1	0	0.10	0	0.10		
	Class 2	0		0			
	Class 3	0		0			
	Class 4	0		0			
	Class 5	100		100			
V4	%OW <= 1.5ft	10	0.23	10	0.23		
V5	Salinity (ppt)	3	1.00	3	1.00		
V6	Access Value	0.5355	0.58	0.5355	0.58		
EM HSI =		0.24		EM HSI =	0.24	EM HSI =	
OW HSI =		0.30		OW HSI =	0.29	OW HSI =	

Project: Salvinia Weevil Propagation Facility

Project Area: 8234

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

Project: **Salvinia Weevil Propagation Facility**

Project Area: 8234

Condition: Future With Project

Variable		TY 0		TY 1		TY 10	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	0.03	0.10	0.03	0.10	0.03	0.10
V2	% Aquatic	5	0.15	6	0.15	7	0.16
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)	3	1.00	3	1.00	3	1.00
V6	Access Value	0.5355	0.58	0.5355	0.58	0.5355	0.58
Emergent Marsh HSI =		0.24		EM HSI =	0.24	EM HSI =	0.24
Open Water HSI =		0.30		OW HSI =	0.30	OW HSI =	0.31

Project: **Salvinia Weevil Propagation Facility**

Project Area: 8234

FWP

Variable		TY 12		TY 20		TY	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	0.03	0.10	0.03	0.10		
V2	% Aquatic	7	0.16	8	0.17		
V3	Interspersion	%		%		%	
	Class 1	0	0.10	0	0.10		
	Class 2	0		0			
	Class 3	0		0			
	Class 4	0		0			
	Class 5	100		100			
V4	%OW <= 1.5ft	10	0.23	10	0.23		
V5	Salinity (ppt)	3	1.00	3	1.00		
V6	Access Value	0.5355	0.58	0.5355	0.58		
EM HSI =		0.24		EM HSI =	0.24	EM HSI =	
OW HSI =		0.31		OW HSI =	0.32	OW HSI =	

Project: **Salvinia Weevil Propagation Facility**

Project Area: 8234

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: Salvinia Weevil Propagation Facility

Future Without Project		x HSI	Total HUs	Cummulative HUs
TY	Marsh Acres			
0	4.93	0.24	1.18	
1	4.66	0.24	1.11	1.15
10	2.19	0.24	0.52	7.37
12	2.19	0.24	0.52	1.05
20	0	0.24	0.00	2.09
Max TY= 20			AAHUs = 0.58	

Future With Project		x HSI	Total HUs	Cummulative HUs
TY	Marsh Acres			
0	4.93	0.24	1.18	
1	4.93	0.24	1.18	1.18
10	4.93	0.24	1.18	10.62
12	4.93	0.24	1.18	2.36
20	4.93	0.24	1.18	9.44
Max TY= 20			AAHUs 1.18	

NET CHANGE IN AAHUs DUE TO PROJECT	
A. Future With Project Emergent Marsh AAHUs =	1.18
B. Future Without Project Emergent Marsh AAHUs =	0.58
Net Change (FWP - FWOP) =	0.60

WETLAND VALUE ASSESSMENT COMMUNITY MODEL Fresh/ Intermediate Marsh

Project: **Salvinia Weevil Propagation Facility**

Project Area:	8,495
% Fresh	100
% Intermediate	0

Condition: Future Without Project

Variable		TY 0		TY 1		TY 10	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	0.01	0.10	0.01	0.10	0	0.10
V2	% Aquatic	25	0.33	24	0.32	16	0.24
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	0.44	30	0.44	30	0.44
V5	Salinity (ppt)						
	fresh	0.5	1.00	0.5	1.00	0.5	1.00
	intermediate						
V6	Access Value						
	fresh	0.8027	0.86	0.8027	0.86	0.8027	0.86
	intermediate						
Emergent Marsh HSI =		0.23		EM HSI =	0.23	EM HSI =	0.23
Open Water HSI =		0.44		OW HSI =	0.43	OW HSI =	0.37

Project: **Salvinia Weevil Propagation Facility**

FWOP

Variable		TY 12		TY 20		TY	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	0	0.10	0	0.10		
V2	% Aquatic	25	0.33	17	0.25		
V3	Interspersion	%		%		%	
	Class 1	0	0.10	0	0.10		
	Class 2	0		0			
	Class 3	0		0			
	Class 4	0		0			
	Class 5	100		100			
V4	%OW <= 1.5ft	30	0.44	30	0.44		
V5	Salinity (ppt)						
	fresh	0.5	1.00	0.5	1.00		
	intermediate						
V6	Access Value						
	fresh	0.8027	0.86	0.8027	0.86		
	intermediate						
EM HSI =		0.23		EM HSI =	0.23	EM HSI =	
OW HSI =		0.44		OW HSI =	0.38	OW HSI =	

Project: **Salvinia Weevil Propagation Facility**

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						
EM HSI =				EM HSI =		EM HSI =	
OW HSI =				OW HSI =		OW HSI =	

WETLAND VALUE ASSESSMENT COMMUNITY MODEL Fresh/ Intermediate Marsh

Project: **Salvinia Weevil Propagation Facility**

Project Area:	8,495
% Fresh	100
% Intermediate	0

Condition: Future With Project

Variable		TY 0		TY 1		TY 10	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	0.01	0.10	0.01	0.10	0.01	0.10
V2	% Aquatic	25	0.33	26	0.33	35	0.42
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	0.44	30	0.44	30	0.44
V5	Salinity (ppt)						
	fresh	0.5	1.00	0.5	1.00	0.5	1.00
V6	Access Value						
	fresh	0.8027	0.86	0.8027	0.86	0.8027	0.86
	intermediate						
Emergent Marsh HSI =		0.23		EM HSI =	0.23	EM HSI =	0.23
Open Water HSI =		0.44		OW HSI =	0.44	OW HSI =	0.50

Project: **Salvinia Weevil Propagation Facility FWP**

Variable		TY 12		TY 20		TY	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	0.01	0.10	0.01	0.10		
V2	% Aquatic	35	0.42	42	0.48		
V3	Interspersion	%		%		%	
	Class 1	0	0.10	0	0.10		
	Class 2	0		0			
	Class 3	0		0			
	Class 4	0		0			
	Class 5	100		100			
V4	%OW <= 1.5ft	30	0.44	30	0.44		
V5	Salinity (ppt)						
	fresh	0.5	1.00	0.5	1.00		
V6	Access Value						
	fresh	0.8027	0.86	0.8027	0.86		
	intermediate						
EM HSI =		0.23		EM HSI =	0.23	EM HSI =	
OW HSI =		0.50		OW HSI =	0.54	OW HSI =	

Project: **Salvinia Weevil Propagation Facility 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)						
	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: **Salvinia Weevil Propagation Facility**

Project Area: 16,533

Condition: Future Without Project

% Fresh 0
% Intermediate 100

Variable		TY 0		TY 1		TY 10	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	0.11	0.10	0.1	0.10	0.05	0.10
V2	% Aquatic	15	0.24	14	0.23	8	0.17
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	20	0.33	20	0.33	20	0.33
V5	Salinity (ppt)						
	fresh		1.00		1.00		1.00
	intermediate	1		1		1	
V6	Access Value						
	fresh		0.56		0.56		0.56
	intermediate	0.4488		0.4488		0.4488	
Emergent Marsh HSI =		0.23		EM HSI =	0.23	EM HSI =	0.23
Open Water HSI =		0.33		OW HSI =	0.33	OW HSI =	0.29

Project: **Salvinia Weevil Propagation Facility FWOP**

Variable		TY 12		TY 20		TY	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	0.05	0.10	0	0.10		
V2	% Aquatic	15	0.24	9	0.18		
V3	Interspersion	%		%		%	
	Class 1	0	0.10	0	0.10		
	Class 2	0		0			
	Class 3	0		0			
	Class 4	0		0			
	Class 5	100		100			
V4	%OW <= 1.5ft	20	0.33	20	0.33		
V5	Salinity (ppt)						
	fresh		1.00		1.00		
	intermediate	1		1			
V6	Access Value						
	fresh		0.56		0.56		
	intermediate	0.4488		0.4488			
EM HSI =		0.23		EM HSI =	0.23	EM HSI =	
OW HSI =		0.33		OW HSI =	0.29	OW HSI =	

Project: **Salvinia Weevil Propagation Facility 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						
EM HSI =				EM HSI =		EM HSI =	
OW HSI =				OW HSI =		OW HSI =	

WETLAND VALUE ASSESSMENT COMMUNITY MODEL Fresh/ Intermediate Marsh

Project: **Salvinia Weevil Propagation Facility**

Project Area:	16,533
% Fresh	0
% Intermediate	100

Condition: Future With Project

Variable		TY 0		TY 1		TY 10	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	0.11	0.10	0.11	0.10	0.11	0.10
V2	% Aquatic	15	0.24	16	0.24	22	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	20	0.33	20	0.33	20	0.33
V5	Salinity (ppt)						
	fresh		1.00		1.00		1.00
	intermediate	1		1		1	
V6	Access Value						
	fresh		0.56		0.56		0.56
	intermediate	0.44882		0.4488		0.4488	
Emergent Marsh HSI =		0.23		EM HSI =	0.23	EM HSI =	0.23
Open Water HSI =		0.33		OW HSI =	0.34	OW HSI =	0.38

Project: **Salvinia Weevil Propagation Facility FWP**

Variable		TY 12		TY 20		TY	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	0.11	0.10	0.11	0.10		
V2	% Aquatic	22	0.30	24	0.32		
V3	Interspersion	%		%		%	
	Class 1	0	0.10	0	0.10		
	Class 2	0		0			
	Class 3	0		0			
	Class 4	0		0			
	Class 5	100		100			
V4	%OW <= 1.5ft	20	0.33	20	0.33		
V5	Salinity (ppt)						
	fresh		1.00		1.00		
	intermediate	1		1			
V6	Access Value						
	fresh		0.56		0.56		
	intermediate	0.4488		0.4488			
EM HSI =		0.23		EM HSI =	0.23	EM HSI =	
OW HSI =		0.38		OW HSI =	0.39	OW HSI =	

Project: **Salvinia Weevil Propagation Facility 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)						
	fresh						
	intermediate						
V6	Access Value						
	fresh						
	intermediate						
EM HSI =				EM HSI =		EM HSI =	
OW HSI =				OW HSI =		OW HSI =	

Coastal Wetlands Planning, Protection, and Restoration Act

26th Priority Project List Report

Appendix D

Economic Analyses for Candidate Projects

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Coastal Wetlands Planning, Protection and Restoration Act
Bayou La Loutre Marsh Creation and Ridge Restoration
Project Priority List 26 (ver.062416)

Project Construction Years:	1	Total Project Years	20
Interest Rate	2.875%	Amortization Factor	0.06644
Fully Funded First Costs	\$27,738,669	Total Fully Funded Costs	\$29,762,138

	<u>Present Worth</u>	<u>Average Annual</u>
Total Charges		
First Costs	\$27,017,621	\$1,795,086
Monitoring	\$596,083	\$39,605
State O & M Costs	\$596,763	\$39,650
Other Federal Costs	<u>\$128,905</u>	<u>\$8,565</u>
Average Annual Cost	\$1,882,905	\$1,882,905
Average Annual Habitat Units	103.87	
Cost Per Habitat Unit	\$18,128	
Total Net Acres	167	

Coastal Wetlands Planning, Protection and Restoration Act
St. Catherine Shoreline Protection and Marsh Creation
Project Priority List 26 (ver.062416)

Project Construction Years:	1	Total Project Years	20
Interest Rate	2.875%	Amortization Factor	0.06644
Fully Funded First Costs	\$24,074,715	Total Fully Funded Costs	\$35,996,522

	<u>Present Worth</u>	<u>Average Annual</u>
Total Charges		
First Costs	\$23,448,195	\$1,557,929
Monitoring	\$623,345	\$41,416
State O & M Costs	\$5,347,717	\$355,309
Other Federal Costs	<u>\$304,718</u>	<u>\$20,246</u>
Average Annual Cost	\$1,974,900	\$1,974,900
Average Annual Habitat Units	91.39	
Cost Per Habitat Unit	\$21,610	
Total Net Acres	214	

Coastal Wetlands Planning, Protection and Restoration Act
Elmer's Back Barrier Marsh Creation
Project Priority List 26 (ver.062416)

Project Construction Years:	1	Total Project Years	20
Interest Rate	2.875%	Amortization Factor	0.06644
Fully Funded First Costs	\$26,545,516	Total Fully Funded Costs	\$27,774,583

	<u>Present Worth</u>	<u>Average Annual</u>
Total Charges		
First Costs	\$25,720,492	\$1,708,903
Monitoring	\$505,786	\$33,605
State O & M Costs	\$155,316	\$10,319
Other Federal Costs	<u>\$97,380</u>	<u>\$6,470</u>
Average Annual Cost	\$1,759,298	\$1,759,298
Average Annual Habitat Units	120.93	
Cost Per Habitat Unit	\$14,548	
Total Net Acres	222	

Coastal Wetlands Planning, Protection and Restoration Act
East Bayou Lafourche Marsh Creation
Project Priority List 26 (ver.062416)

Project Construction Years:	1	Total Project Years	20
Interest Rate	2.875%	Amortization Factor	0.06644
Fully Funded First Costs	\$35,529,448	Total Fully Funded Costs	\$36,784,975

	Present Worth		Average Annual
Total Charges			
First Costs	\$34,244,496		\$2,275,249
Monitoring	\$503,183		\$33,432
State O & M Costs	\$173,167		\$11,505
Other Federal Costs	\$98,936		\$6,573
Average Annual Cost	\$2,326,760		\$2,326,760
Average Annual Habitat Units	174.82		
Cost Per Habitat Unit	\$13,309		
Total Net Acres	325		

Coastal Wetlands Planning, Protection and Restoration Act
Bayou Terrebonne FW Diversion
Project Priority List 26 (ver.062416)

Project Construction Years:	1	Total Project Years	20
Interest Rate	2.875%	Amortization Factor	0.06644
Fully Funded First Costs	\$15,297,909	Total Fully Funded Costs	\$22,636,335

	<u>Present Worth</u>	<u>Average Annual</u>
Total Charges		
First Costs	\$15,034,722	\$998,927
Monitoring	\$897,656	\$59,641
State O & M Costs	\$2,927,056	\$194,477
Other Federal Costs	<u>\$558,156</u>	<u>\$37,085</u>
Average Annual Cost	\$1,290,130	\$1,290,130
Average Annual Habitat Units	54.80	
Cost Per Habitat Unit	\$23,543	
Total Net Acres	173	

Coastal Wetlands Planning, Protection and Restoration Act
West LA1 Marsh Creation
Project Priority List 26 (ver.062416)

Project Construction Years:	1	Total Project Years	20
Interest Rate	2.875%	Amortization Factor	0.06644
Fully Funded First Costs	\$30,536,445	Total Fully Funded Costs	\$31,868,399

Total Charges	Present Worth	Average Annual
First Costs	\$29,698,299	\$1,973,194
Monitoring	\$576,729	\$38,319
State O & M Costs	\$168,721	\$11,210
Other Federal Costs	\$99,226	\$6,593
Average Annual Cost	\$2,029,315	\$2,029,315
Average Annual Habitat Units	147.65	
Cost Per Habitat Unit	\$13,744	
Total Net Acres	267	

Coastal Wetlands Planning, Protection and Restoration Act
Bayou DeCade Bankline and Marsh Restoration
Project Priority List 26 (ver.062416)

Project Construction Years:	1	Total Project Years	20
Interest Rate	2.875%	Amortization Factor	0.06644
Fully Funded First Costs	\$32,292,491	Total Fully Funded Costs	\$34,403,849

Total Charges	Present Worth	Average Annual
First Costs	\$31,182,026	\$2,071,775
Monitoring	\$596,083	\$39,605
State O & M Costs	\$703,392	\$46,734
Other Federal Costs	\$119,707	\$7,954
Average Annual Cost	\$2,166,067	\$2,166,067
Average Annual Habitat Units	133.37	
Cost Per Habitat Unit	\$16,241	
Total Net Acres	378	

Coastal Wetlands Planning, Protection and Restoration Act
East Pecan Island marsh creation
Project Priority List 26 (ver.062416)

Project Construction Years:	1	Total Project Years	20
Interest Rate	2.875%	Amortization Factor	0.06644
Fully Funded First Costs	\$53,575,221	Total Fully Funded Costs	\$54,825,078

	<u>Present Worth</u>	<u>Average Annual</u>
Total Charges		
First Costs	\$52,690,181	\$3,500,805
Monitoring	\$511,685	\$33,997
State O & M Costs	\$160,929	\$10,692
Other Federal Costs	<u>\$97,965</u>	<u>\$6,509</u>
Average Annual Cost	\$3,552,003	\$3,552,003
Average Annual Habitat Units	176.94	
Cost Per Habitat Unit	\$20,075	
Total Net Acres	459	

Coastal Wetlands Planning, Protection and Restoration Act
North Mud Lake Marsh Creation
Project Priority List 26 (ver.062416)

Project Construction Years:	1	Total Project Years	20
Interest Rate	2.875%	Amortization Factor	0.06644
Fully Funded First Costs	\$58,624,838	Total Fully Funded Costs	\$59,930,304

	<u>Present Worth</u>	<u>Average Annual</u>
Total Charges		
First Costs	\$57,647,904	\$3,830,202
Monitoring	\$504,500	\$33,520
State O & M Costs	\$200,642	\$13,331
Other Federal Costs	<u>\$98,622</u>	<u>\$6,553</u>
Average Annual Cost	\$3,883,605	\$3,883,605
Average Annual Habitat Units	298.38	
Cost Per Habitat Unit	\$13,016	
Total Net Acres	590	

Coastal Wetlands Planning, Protection and Restoration Act
Coastwide Salvinia Weevil Propagation Facility
Project Priority List 26 (ver.062416)

Project Construction Years:	1	Total Project Years	20
Interest Rate	2.875%	Amortization Factor	0.06644
Fully Funded First Costs	\$439,267	Total Fully Funded Costs	\$3,802,748

Total Charges	<u>Present Worth</u>	<u>Average Annual</u>
First Costs	\$451,746	\$30,015
Monitoring	\$347,981	\$23,120
State O & M Costs	\$1,369,374	\$90,983
Other Federal Costs	<u>\$387,690</u>	<u>\$25,759</u>
Average Annual Cost	\$169,877	\$169,877
Average Annual Habitat Units	597.49	
Cost Per Habitat Unit	\$284	
Total Net Acres	26	

Coastal Wetlands Planning, Protection and Restoration Act
Ecobale Shoreline Protection - Vegetated
Project Priority List 26 (ver.062416)

Project Construction Years:	0	Total Project Years	20
Interest Rate	2.875%	Amortization Factor	0.06644
Fully Funded First Costs	\$2,010,086	Total Fully Funded Costs	\$2,714,293

	<u>Present Worth</u>	<u>Average Annual</u>
Total Charges		
First Costs	\$1,993,561	\$132,455
Monitoring	\$251,378	\$16,702
State O & M Costs	\$226,733	\$15,064
Other Federal Costs	<u>\$80,450</u>	<u>\$5,345</u>
Average Annual Cost	\$169,566	\$169,566
Average Annual Habitat Units	N/A	
Cost Per Habitat Unit		
Total Net Acres	N/A	

Coastal Wetlands Planning, Protection and Restoration Act
Plant Stress Acclimation DEMO
Project Priority List 26 (ver.062416)

Project Construction Years:	0	Total Project Years	20
Interest Rate	2.875%	Amortization Factor	0.06644
Fully Funded First Costs	\$378,834	Total Fully Funded Costs	\$1,044,632

Total Charges	<u>Present Worth</u>	<u>Average Annual</u>
First Costs	\$389,833	\$25,901
Monitoring	\$49,784	\$3,308
State O & M Costs	\$554,457	\$36,839
Other Federal Costs	<u>\$35,710</u>	<u>\$2,373</u>
Average Annual Cost	\$68,420	\$68,420
Average Annual Habitat Units	N/A	
Cost Per Habitat Unit		
Total Net Acres	N/A	

Coastal Wetlands Planning, Protection and Restoration Act
Shorelinks Demo PPL 26
Project Priority List 26 (ver.062416)

Project Construction Years:	0	Total Project Years	20
Interest Rate	2.875%	Amortization Factor	0.06644
Fully Funded First Costs	\$2,446,875	Total Fully Funded Costs	\$3,404,704

	<u>Present Worth</u>	<u>Average Annual</u>
Total Charges		
First Costs	\$2,382,937	\$158,325
Monitoring	\$310,209	\$20,611
State O & M Costs	\$360,797	\$23,972
Other Federal Costs	<u>\$86,015</u>	<u>\$5,715</u>
Average Annual Cost	\$208,623	\$208,623
Average Annual Habitat Units	N/A	
Cost Per Habitat Unit		
Total Net Acres	N/A	

Coastal Wetlands Planning, Protection, and Restoration Act

26th Priority Project List Report

Appendix E

Public Support for Candidate Projects

Elmer's Island Marsh Creation

- David Camardelle – Mayor, Town of Grand Isle; President Grande Isle Independent Levee District

Salvinia Weevil Propagation Proposal

- Kim Martin Nehrbass – Vice President, J.B. Mouton, LLC



David J. Camardelle - MAYOR GRAND ISLE

POST OFFICE BOX 200 • LUDWIG LANE • GRAND ISLE, LOUISIANA 70358 • PHONE (985) 787-3196

November 17, 2016

Brad L. Inman, Chief
Programs & Project Management Division
Projects and Restoration Branch
US Army Corps of Engineers - New Orleans District
7400 Leake Ave
New Orleans, LA 70118

RE: CWPPRA Phase I Funding Recommendation – Elmer’s Island Marsh Creation

Dear Mr. Inman:

The town of Grand Isle and the Grand Isle Independent Levee District strongly support the **Elmer’s Island Marsh Creation** project for Phase 1 engineering and design funding. This project will create marsh in an area that has breached several times during past storm events. It will complete the two CWPPRA Caminada Headlands Back Barrier Marsh Creation Projects and the NFWF Caminada Headland Beach and Dune Restoration project. It will also provide critical protection to LA Highway 1, the only evacuation route for the residents of Grand Isle.

Grand Isle urges the CWPPRA Technical Committee to select this vital project for Phase I funding.

Thank you for providing this opportunity to provide our support for this important project that will protect Louisiana’s only inhabited Barrier Island.

Sincerely,

David Camardelle
Mayor, Town of Grand Isle
President, Grand Isle Independent Levee District



October 3, 2016

Mr. Mark Wingate
Deputy District Engineer
U.S. Army Corps Of Engineers
P.O. Box 60267
New Orleans, LA 70160

Re: PPL26 Salvinia Weevil Propagation Proposal

Dear Mr. Wingate:

As an avid outdoorsman who participates in hunting and fishing in our wetland areas on a frequent basis I have witnessed firsthand the negative effects of giant salvinia on our waterbodies.

Our one square mile duck lease in Vermilion parish has been overrun with salvinia for the past 2 years. In fact, this past year all of our ponds and canals were covered 100% with salvinia. Prior to the arrival of salvinia, widgeon grass a favorite food of ducks, was prolific in these ponds but has since been choked out.

With the help of the LSU Ag Department we were able to locate and collect some weevil infested salvinia at the beginning of this summer and I am happy to report that in the past 4 months the weevils have almost completely eradicated the salvinia on our lease. The majority of our ponds and canals are now open water once again and the weevils are continuing to work on the few remaining patches.

Please support the USFWS PPL26 proposal to create additional salvinia weevil breeding ponds in Southwest Louisiana as they are much needed.

Thank you for your consideration.

Sincerely,

J.B. Mouton, LLC

A handwritten signature in blue ink that reads "Kim Martin Nehrbass".

Kim Martin Nehrbass
Vice President

Coastal Wetlands Planning, Protection, and Restoration Act

26th Priority Project List Report

Appendix F

**Project Status Summary Report from 1st through 26th Priority Project Lists
by Lead Agency, Priority List, and Basin**

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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	\$14,234,786	\$86,918,321	\$85,860,598	\$76,095,796	\$75,762,489
2	14	13,090	14	0	14	\$28,173,110	\$14,594,499	\$87,748,455	\$87,736,358	\$73,549,812	\$73,195,945
3	10	11,427	10	0	10	\$29,939,100	\$8,771,322	\$57,278,110	\$49,950,246	\$43,773,551	\$43,507,274
4	4	1,650	4	0	4	\$29,957,533	\$2,202,220	\$13,583,217	\$13,581,726	\$12,599,554	\$12,571,510
5	6	1,907	6	0	6	\$33,371,625	\$2,037,227	\$20,355,060	\$16,943,978	\$12,924,409	\$12,856,679
6	10	9,439	10	0	10	\$39,134,000	\$6,722,155	\$53,338,029	\$53,063,671	\$39,014,621	\$38,668,524
7	4	1,873	4	0	4	\$42,540,715	\$4,669,116	\$31,127,774	\$31,127,774	\$29,748,854	\$29,640,163
8	7	1,529	7	0	6	\$41,864,079	\$5,701,494	\$36,632,869	\$36,002,334	\$27,469,610	\$27,365,977
9	10	2,147	10	1	9	\$47,907,300	\$15,351,967	\$108,956,079	\$94,890,018	\$90,788,090	\$65,278,824
10	9	1,794	9	1	6	\$47,659,220	\$19,767,857	\$139,616,298	\$127,085,651	\$106,701,605	\$80,230,675
11	10	17,941	10	2	7	\$57,332,369	\$43,153,885	\$318,726,345	\$271,408,374	\$239,856,012	\$212,643,858
11.1	1	330	1	0	1	\$0	\$7,065,116	\$14,130,233	\$14,130,233	\$13,994,787	\$13,994,787
12	3	1,170	3	0	3	\$51,938,097	\$6,297,127	\$43,238,523	\$38,810,546	\$34,826,894	\$34,657,289
13	3	708	3	0	3	\$54,023,130	\$7,111,607	\$45,680,048	\$45,282,353	\$40,666,854	\$40,552,494
14	2	275	2	0	2	\$53,054,804	\$7,068,563	\$39,405,387	\$37,144,933	\$32,617,702	\$32,436,117
15	1	447	1	0	1	\$58,059,645	\$5,992,915	\$38,541,252	\$38,089,316	\$23,424,166	\$23,403,609
16	2	305	2	0	2	\$71,402,872	\$7,092,928	\$42,869,396	\$42,617,344	\$26,393,185	\$26,343,026
17	4	595	3	0	2	\$83,286,685	\$11,394,848	\$74,863,876	\$73,734,200	\$71,129,240	\$57,680,221
18	3	612	2	1	1	\$84,916,489	\$8,108,998	\$51,813,917	\$51,216,073	\$46,296,769	\$38,185,061
19	3	1,446	3	0	0	\$79,566,889	\$5,616,638	\$40,123,127	\$36,528,652	\$5,795,414	\$4,821,242
20	3	1,733	3	2	0	\$77,389,442	\$9,969,534	\$69,651,382	\$66,587,270	\$12,360,692	\$5,448,210
21	4	1,936	3	0	0	\$74,239,647	\$9,169,799	\$94,422,352	\$91,384,304	\$54,261,935	\$6,131,257
22	4	1,159	3	0	0	\$75,310,243	\$3,940,650	\$62,144,044	\$60,666,641	\$22,681,083	\$4,181,739
23	4	1,107	1	0	0	\$64,666,970	\$1,915,165	\$12,471,926	\$12,471,926	\$8,350,137	\$1,141,026
24	4	1,312	1	0	0	\$73,630,672	\$1,656,775	\$11,045,165	\$11,045,165	\$6,339,700	\$241,855
25	6	1,508	1	0	0	\$75,813,588	\$2,791,778	\$18,611,855	\$18,611,855	\$2,012,834	\$49
Active Projects	145	96,372	130	7	105	\$1,403,263,124	\$236,285,907	\$1,613,293,039	\$1,505,971,537	\$1,153,673,306	\$960,939,901
Deauthorized	60	18,492	39	2	0			\$91,777,295	\$84,957,461	\$61,668,626	\$60,119,206
Total Projects	205	114,864	169	9	105	\$1,403,263,124	\$236,285,907	\$1,705,070,333	\$1,590,928,998	\$1,215,341,932	\$1,021,059,10

Cons Plan	1		1	0	1	\$0	\$41,091	\$191,807	\$191,807	\$143,855	\$143,855
CPSSF	1	0	1	0	0	\$0	\$160,843	\$1,243,694	\$1,243,694	\$716,935	\$226,656
CRMS	1		1	1	0	\$0	\$15,703,793	\$114,607,082	\$114,607,082	\$69,034,246	\$65,794,766
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
<hr/>											
Total Construction Program	210	114,864	174	12	106	\$1,403,263,124	\$252,341,229	\$1,823,182,502	\$1,709,041,167	\$1,286,329,728	\$1,088,317,144
							\$1,655,604,353				

Construction Start/Completion Schedule Construction Estimate/Obligations/Expenditures

Construction Start FY	Ph I Appr Ph II Appr	Construction		Agency	PL	Acres	Project	Construction		
		Start Date	Compl Date					Estimate	Obligations	Expenditures
FY2013	10-Jan-2001 A 20-Jan-2010 A	02-May-2013 A	01-Feb-2014 *	NRCS	10	64	GIWW Bank Restoration of Critical Areas in Terrebonne	\$7,919,007.00	\$7,782,764.46	\$7,782,764.46
FY2013	21-Jan-2009 A 21-Jan-2009 A	27-May-2013 *	24-Apr-2017 *	NRCS	18	0	Non-Rock Alternatives to Shoreline Protection Demo	\$4,705,689.00	\$4,731,792.92	\$3,751,171.07
FY2013	24-Apr-1997 A 28-Oct-2010 A	01-Jun-2013 *	01-Oct-2014 *	FWS	6	266	Lake Boudreaux Freshwater Introduction INACTIVE	\$12,493,289.00	\$11,129.12	\$11,129.12
FY Total						330		\$25,117,985.00	\$12,525,686.50	\$11,545,064.65

Construction Start/Completion Schedule Construction Estimate/Obligations/Expenditures

Construction Start FY	Ph I Appr Ph II Appr	Construction		Agency	PL	Acres	Project	Construction		
		Start Date	Compl Date					Estimate	Obligations	Expenditures
FY2014	25-Oct-2007 A 19-Jan-2012 A	01-Apr-2014 *	01-Apr-2014 *	FWS	17	409	South Lake Lery Shoreline and Marsh Restoration	\$28,693,565.00	\$28,951,031.45	\$18,855,935.34
FY2014	25-Oct-2007 A 19-Jan-2011 A	21-Apr-2014 *	30-Sep-2015 *	NMFS	17	186	Bayou Dupont Ridge Creation & Marsh Restoration	\$35,077,416.00	\$35,101,282.67	\$32,366,707.79
FY2014	20-Jan-1999 A 19-Jan-2011 A	01-Aug-2014 *	07-Jul-2015 A	FWS	8	331	Sabine Refuge Marsh Creation, Cycles 4 & 5	\$8,505,341.00	\$5,909,035.64	\$5,828,858.34
FY2014	19-Jan-2011 A 22-Jan-2014 *	01-Sep-2014 *	01-Sep-2018	NRCS	20	274	Kelso Bayou Marsh Creation TRANSFER	\$0.00	\$0.00	\$0.00
FY Total						1,200		\$72,276,322.00	\$69,961,349.76	\$57,051,501.47

Construction Start/Completion Schedule Construction Estimate/Obligations/Expenditures

Construction Start FY	Ph I Appr Ph II Appr	Construction		Agency	PL	Acres	Project	Construction		
		Start Date	Compl Date					Estimate	Obligations	Expenditures
FY2015	19-Jan-2012 A 22-Jan-2015 A	01-Sep-2015 *	15-Oct-2016 *	NMFS	21	433	Oyster Bayou Marsh Restoration	\$22,734,564.00	\$25,593,395.00	\$20,941.30
FY2015	18-Oct-2006 A	01-Dec-2015 *	01-Jul-2017	NMFS	16	334	Madison Bay Marsh Creation and Terracing INACTIVE	\$0.00	\$0.00	\$0.00
FY Total						767		\$22,734,564.00	\$25,593,395.00	\$20,941.30

Construction Start/Completion Schedule Construction Estimate/Obligations/Expenditures

Construction Start FY	Ph I Appr Ph II Appr	Construction		Agency	PL	Acres	Project	Construction			
		Start Date	Compl Date					Estimate	Obligations	Expenditures	
FY2016	24-Jan-2013 A 14-May-2015 A	01-Feb-2016	*	EPA	22	118	Bayou Dupont Sediment Delivery-Marsh Creation 3	\$12,339,259.00	\$12,660,808.00	\$1,317.00	
FY2016	10-Jan-2001 A	01-Apr-2016	*	15-Feb-2018	NMFS	10	256	Rockefeller Refuge Gulf Shoreline Stabilization	\$25,941,244.00	\$25,565,032.00	\$7,930.52
FY2016	10-Jan-2001 A 22-Jan-2016 *	05-Dec-2016	*	31-May-2017	EPA	10	0	Hydrologic Restoration & Vegetative Planting in the Lac des Allemands Swamp	\$1,715,768.00	\$0.00	\$27,758.01
FY Total						374		\$39,996,271.00	\$38,225,840.00	\$37,005.53	

Construction Start/Completion Schedule Construction Estimate/Obligations/Expenditures

Construction Start FY	Ph I Appr Ph II Appr	Construction		Agency	PL	Acres	Project	Construction		
		Start Date	Compl Date					Estimate	Obligations	Expenditures
FY2017	20-Jan-2010 A 24-Jan-2013 A	01-Aug-2016 *	31-Oct-2017	FWS	19	452	Lost Lake Marsh Creation and Hydrologic Restoration	\$28,414,381.00	\$77,170.23	\$1,425.66
FY2017	16-Jan-2002 A 15-Feb-2007 A	01-Dec-2016 *	01-Feb-2017 *	NRCS	11	45	Grand Lake Shoreline Protection	\$5,578,845.00	\$5,795,722.00	\$19,242.06
FY2017	18-Oct-2006 A 20-Jan-2017 *	30-Jun-2017	10-Jul-2018	COE	16	888	Southwest LA Gulf Shoreline Nourish &Protect TRANSFER	\$0.00	\$0.00	\$0.00
FY2017	21-Jan-2009 A 22-Jan-2017 *	01-Sep-2017	01-Jul-2018	NRCS	18	233	Central Terrebonne Freshwater Enhancement TRANSFER	\$0.00	\$0.00	\$0.00
FY Total						1,618		\$33,993,226.00	\$5,872,892.23	\$20,667.72

Construction Start/Completion Schedule Construction Estimate/Obligations/Expenditures

Construction Start FY	Ph I Appr Ph II Appr	Construction		Agency	PL	Acres	Project	Construction		
		Start Date	Compl Date					Estimate	Obligations	Expenditures
FY2018	19-Jan-2012 A 12-Jan-2017 A	01-Oct-2017	01-Oct-2018	FWS	21	432	Turtle Bay Marsh Creation	\$24,558,643.00	\$0.00	\$0.00
FY2018	20-Jan-2010 A 22-Jan-2014 *	01-Jul-2018	01-Aug-2019	NRCS	19	279	Freshwater Bayou Marsh Creation	\$0.00	\$0.00	\$0.00
FY2018	20-Jan-2010 A 21-Jan-2018	01-Sep-2018	01-Sep-2019	NRCS	19	715	LaBranche East Marsh Creation	\$0.00	\$0.00	\$0.00
FY2018	19-Jan-2012 A 21-Jan-2018	01-Sep-2018	01-Sep-2019	NRCS	21	731	LaBranche Central Marsh Creation	\$0.00	\$0.00	\$0.00
FY Total						2,157		\$24,558,643.00	\$0.00	\$0.00

Construction Start/Completion Schedule Construction Estimate/Obligations/Expenditures

Construction Start FY	Ph I Appr Ph II Appr	Construction		Agency	PL	Acres	Project	Construction		
		Start Date	Compl Date					Estimate	Obligations	Expenditures
FY2020	21-Jan-2016 A 01-Jan-2019	01-Nov-2019	01-Nov-2020	NRCS	25	251	Barataria Bay Rim Marsh Creation	\$0.00	\$0.00	\$0.00
FY Total						251		\$0.00	\$0.00	\$0.00

Construction Start/Completion Schedule Construction Estimate/Obligations/Expenditures

Construction Start FY	Ph I Appr Ph II Appr	Construction		Agency	PL	Acres	Project	Construction		
		Start Date	Compl Date					Estimate	Obligations	Expenditures
Grand Total						6,697		\$218,677,011.00	\$152,179,163.49	\$68,675,180.67

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

PROJECT STATUS SUMMARY REPORT

04 May 2017

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

Reports enclosed:

Project Summary by Priority List

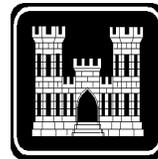
Project Summary by Basin

Project Summary Estimates

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
U.S. Army Corps of Engineers
New Orleans District
P.O. Box 60267
New Orleans, LA 70160-0267



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

PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Actual Obligations/ Expenditures
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Lead Agency: EPA, 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	\$191,807	\$191,807	100.0	\$143,855 \$143,855
	Status:	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					\$191,807	\$191,807	100.0	\$143,855 \$143,855
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- 1 Project(s)
- 1 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: ENVIRONMENTAL PROTECTION AGENCY (EPA)

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Approved	Funded	%	
Total							\$191,807	\$191,807	100.0	\$143,855 \$143,855

- 1 Project(s)
- 1 Cost Sharing Agreements Executed
- 1 Construction Started
- 1 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 - Lead Agency: DEPT. OF THE INTERIOR (USGS)

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

Lead Agency: USGS, 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	\$114,607,082	100.0	\$69,034,246 \$65,794,766
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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	Approved	Funded	%	
Total Priority List		0.1					\$114,607,082	\$114,607,082	100.0	\$69,034,246 \$65,794,766
1 Project(s) 1 Cost Sharing Agreements Executed 1 Construction Started 0 Construction Completed 0 Project(s) Deferred/Deauthorized										
Total							\$114,607,082	\$114,607,082	100.0	\$69,034,246 \$65,794,766
1 Project(s) 1 Cost Sharing Agreements Executed 1 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 - Lead Agency: DEPT. OF THE INTERIOR (USGS)

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Approved	Funded	%	
Lead Agency: USGS, U.S. Geological Survey										
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	\$666,704
	Status:	On July 10, 2009 USGS approved the backlog of previously approved (by P&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).								
		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).								
Total Priority List 0.2							\$1,500,000	\$1,500,000	100.0	\$666,704

- 1 Project(s)
- 1 Cost Sharing Agreements Executed
- 1 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	Approved	Funded	%	
Total							\$1,500,000	\$1,500,000	100.0	\$666,704 \$666,704

- 1 Project(s)
- 1 Cost Sharing Agreements Executed
- 1 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 - Lead Agency: DEPT. OF THE INTERIOR (USGS)

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Approved	Funded	%	
Lead Agency: USGS, U.S. Geological Survey										
Priority List 0.3										
Storm Recovery Assessment Fund	COAST	COAST		21-Aug-2007 A	18-Oct-2006 A		\$569,586	\$569,586	100.0	\$426,056 \$426,056
	Status:	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 \$426,056

- 1 Project(s)
- 1 Cost Sharing Agreements Executed
- 1 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	Approved	Funded	%	
Total							\$569,586	\$569,586	100.0	\$426,056 \$426,056

- 1 Project(s)
- 1 Cost Sharing Agreements Executed
- 1 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 - Lead Agency: DEPT. OF THE INTERIOR (USGS)

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

Lead Agency: USGS, U.S. Geological Survey

Priority List 0.4

Construction Program	COAST	COAST	0	19-Oct-2011	A		\$1,243,694	\$1,243,694	100.0	\$716,935
Technical Support										\$226,656
Services Fund	Status:									
Total Priority List			0.4	0			\$1,243,694	\$1,243,694	100.0	\$716,935 \$226,656

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

Total			0				\$1,243,694	\$1,243,694	100.0	\$716,935 \$226,656
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- 1 Project(s)
- 1 Cost Sharing Agreements Executed
- 0 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 - Lead Agency: DEPT. OF THE ARMY (COE)

Actual

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Obligations/ Expenditures
				CSA	Const Start	Const End	Approved	Funded	%	

Lead Agency: COE, 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	\$1,167,832	\$1,167,832	100.0	\$1,158,382
	<p>Status: 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.</p>									
Bayou Labranche Wetland Creation	PONT	STCHA	203	17-Apr-1993 A	06-Jan-1994 A	07-Apr-1994 A	\$3,717,914	\$3,717,914	100.0	\$3,717,914
	<p>Status: 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.</p>									

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

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

Actual

Obligations/
Expenditures

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			
				CSA	Const Start	Const End	Approved	Funded	%	
Lake Salvador Shoreline Protection at Jean Lafitte NHP&P	BARA	JEFF		29-Oct-1996 A	01-Jun-1995 A	21-Mar-1996 A	\$60,375	\$60,375	100.0	\$60,375 \$60,375
<p>Status: 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	\$2,047,479	\$2,047,479	100.0	\$2,013,208 \$2,013,210
<p>Status: 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)

Actual

Obligations/
Expenditures

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			
				CSA	Const Start	Const End	Approved	Funded	%	

West Bay Sediment Diversion	DELTA	PLAQ	9,831	29-Aug-2002 A	10-Sep-2003 A	28-Nov-2003 A	\$50,863,503	\$50,863,503	100.0	\$44,135,558 \$44,031,348
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Status: 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 acoustic 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.

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 beneficially 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.

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.

Total Priority List			1	10,544			\$57,857,103	\$57,857,103	100.0	\$51,085,438 \$50,981,230
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- 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: ENVIRONMENTAL PROTECTION AGENCY (EPA)

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/Expenditures
				CSA	Const Start	Const End	Approved	Funded	%	
Isles Dernieres Restoration East Island	TERRE	TERRE	9	17-Apr-1993 A	16-Jan-1998 A	15-Jun-1999 A	\$8,762,416	\$8,762,416	100.0	\$8,664,422
<p>Status: 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.</p> <p>Construction start was January 16, 1998. Hydraulic dredging was completed September 1998. Vegetation planting was completed June 1999.</p>										
<hr/>										
Total Priority List		1	9				\$8,762,416	\$8,762,416	100.0	\$8,664,422

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

Priority List 1

Bayou Sauvage National Wildlife Refuge Hydro Restoration, Phase 1	PONT	ORL	1,550	17-Apr-1993 A	01-Jun-1995 A	30-May-1996 A	\$1,680,193	\$1,680,193	100.0	\$1,601,663
<p>Status: Construction was completed in May 1996. The Operation and Maintenance Plan was approved in October 2004. The FWS is the lead O&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	\$2,129,205	\$1,184,669	55.6	\$1,145,809
<p>Status: 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>										

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	Approved	Funded	%	
Cameron Prairie National Wildlife Refuge Shoreline Protection	MERM	CAMER	247	17-Apr-1993 A	19-May-1994 A	09-Aug-1994 A	\$1,227,123	\$1,227,123	100.0	\$1,061,657 \$1,061,657
	Status:	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&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&M inspection reported that the rock dike is in good condition.								
		Two small sections of lower rock allowing water exchange were noted during the March 2012 O&M inspection, but there was no need of maintenance at that time. Those low areas were noted in previous inspections.								
Sabine National Wildlife Refuge Erosion Protection	CA/SB	CAMER	5,542	17-Apr-1993 A	24-Oct-1994 A	01-Mar-1995 A	\$1,602,656	\$1,602,656	100.0	\$1,309,987 \$1,309,987
	Status:	The project was closed March 2015. No maintenance has been needed within the project's 20-year life and no future maintenance will be performed with CWPPRA funds. The end of the project's 20-year CWPPRA life was March 2015. The CWPPRA Task Force on in May 2014, upon the recommendation of project sponsors, approved project close out upon reaching its 20-year life.								
Total Priority List		1	8,204				\$6,639,177	\$5,694,641	85.8	\$5,119,116 \$4,928,549

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

Priority List 1

Fourchon Hydrologic Restoration DEAUTHORIZED	TERRE	LAFOU					\$7,703	\$7,703	100.0	\$7,703 \$7,703
	Status:	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.								

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	Approved	Funded	%	
Lower Bayou LaCache Hydrologic Restoration DEAUTHORIZED	TERRE	TERRE		17-Apr-1993 A			\$99,625	\$99,625	100.0	\$99,625 \$99,625
Status: 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			\$107,328	\$107,328	100.0	\$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 1

GIWW to Clovelly Hydrologic Restoration	BARA	LAFOU	175	17-Apr-1993 A	21-Apr-1997 A	31-Oct-2000 A	\$12,896,358	\$12,783,171	99.1	\$10,463,555 \$10,425,023
Status: 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		\$92,147	\$92,147	100.0	\$92,147 \$92,147
Status: Sub-project of the Vegetative Plantings project. Complete and 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	Approved	Funded	%	
Vegetative Plantings - Falgout Canal Planting Demo COMPLETE	TERRE	TERRE	0	17-Apr-1993 A	30-Aug-1996 A	30-Dec-1996 A	\$206,523	\$206,523	100.0	\$206,523 \$206,523
	Status:	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 COMPLETE	TERRE	TERRE	0	17-Apr-1993 A	15-Mar-1995 A	30-Jul-1996 A	\$300,492	\$300,492	100.0	\$300,492 \$300,492
	Status:	Sub-project of the Vegetative Plantings project. Complete.								
Vegetative Plantings - West Hackberry Planting Demo COMPLETE	CA/SB	CAMER	0	17-Apr-1993 A	15-Apr-1993 A	30-Mar-1994 A	\$256,251	\$256,251	100.0	\$256,251 \$256,251
	Status:	Sub-project of the Vegetative Plantings project. Complete.								
Total Priority List			1	175			\$13,751,771	\$13,638,584	99.2	\$11,318,968 \$11,280,436

- 5 Project(s)
- 5 Cost Sharing Agreements Executed
- 5 Construction Started
- 4 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	Approved	Funded	%	
Total			18,932				\$87,117,796	\$86,060,073	98.8	\$76,295,272 \$75,961,964

- 17 Project(s)
- 16 Cost Sharing Agreements Executed
- 15 Construction Started
- 14 Construction Completed
- 3 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

***** SCHEDULES ***** ESTIMATES *****

PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Obligations/ Expenditures
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Lead Agency: COE, CORPS OF ENGINEERS

Priority List 2

Clear Marais Bank Protection	CA/SB	CALCA	1,067	29-Apr-1996 A	29-Aug-1996 A	03-Mar-1997 A	\$3,267,476	\$3,267,476	100.0	\$2,970,880 \$2,956,678
	Status:	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.								
		Complete.								
West Belle Pass Headland Restoration	TERRE	LAFOU	474	27-Dec-1996 A	10-Feb-1998 A	15-Aug-1998 A	\$6,826,754	\$6,826,754	100.0	\$6,654,966 \$6,654,966
	Status:	Inspection of the TE-23 project was held on April 28, 2016. Attendees included Glen Curole and Benjamin Hartman of CPRA and Susan Hennington and Kaitlyn Carriere of USACE-MVN. Constructed features inspected included the vinyl bulkhead Closure #1, the rock shoreline protection and rock closures #4 & 5 along Bayou Lafourche and Belle Pass. Interior marsh areas were viewed from the project area perimeter; closures #2 & 3 were not included in the 2016 inspection due to their boat inaccessibility. Photographs were taken and copies are available upon request. Project is functioning as designed & meeting project goals. The 2016 OM&M report has recently been completed and will be available for review at the CWPPRA LaCoast.gov website.								

Total Priority List	2		1,541				\$10,094,230	\$10,094,230	100.0	\$9,625,846 \$9,611,644
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- 2 Project(s)
- 2 Cost Sharing Agreements Executed
- 2 Construction Started
- 2 Construction Completed
- 0 Project(s) Deferred/Deauthorized

Priority List 2

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	Approved	Funded	%	
Isles Dernieres Restoration Trinity Island	TERRE	TERRE	109	17-Apr-1993 A	27-Jan-1998 A	15-Jun-1999 A	\$10,774,974	\$10,774,974	100.0	\$10,799,102 \$10,799,102
<p>Status: 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				\$10,774,974	\$10,774,974	100.0	\$10,799,102 \$10,799,102

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

Priority List 2

Bayou Sauvage National Wildlife Refuge Hydro Restoration, Phase 2	PONT	ORL	1,280	30-Jun-1994 A	15-Apr-1996 A	28-May-1997 A	\$1,692,552	\$1,692,552	100.0	\$1,513,635 \$1,453,429
<p>Status: 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.</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	Approved	Funded	%	
Total Priority List		2	1,280				\$1,692,552	\$1,692,552	100.0	\$1,513,635 \$1,453,429

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

Priority List 2

Atchafalaya Sediment Delivery	ATCH	STMRY	2,232	01-Aug-1994 A	25-Jan-1998 A	21-Mar-1998 A	\$2,455,669	\$2,455,669	100.0	\$2,152,324 \$2,126,378
Status: Annual O&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.										
Big Island Mining	ATCH	STMRY	1,560	01-Aug-1994 A	25-Jan-1998 A	08-Oct-1998 A	\$7,003,102	\$7,003,102	100.0	\$6,716,661 \$6,716,661
Status: Project cost increase was approved by the Task Force at the January 16, 1998 meeting. Construction project complete. First costs accounting underway.										
Point Au Fer Canal Plugs	TERRE	TERRE	375	01-Jan-1994 A	01-Oct-1995 A	08-May-1997 A	\$5,514,145	\$5,514,145	100.0	\$3,260,148 \$3,253,072
Status: Project / Gulf of Mexico shoreline surveys are underway to assist with maintenance recommendations to conduct a rock lift along low areas of PH 2 & 3 and the possible extension of the ends back into the shoreline. This construction activity would likely occur before the Fall of 20112.										

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	Approved	Funded	%	
Total Priority List		2	4,167				\$14,972,916	\$14,972,916	100.0	\$12,129,133 \$12,096,111
3 Project(s) 3 Cost Sharing Agreements Executed 3 Construction Started 3 Construction Completed 0 Project(s) Deferred/Deauthorized										

Priority List 2

Brown Lake Hydrologic Restoration DEAUTHORIZED	CA/SB	CAMER		28-Mar-1994 A			\$1,097,828	\$1,097,828	100.0	\$1,097,828 \$1,097,828
Status: 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	\$4,536,000	\$4,536,000	100.0	\$4,011,040 \$3,975,900
Status: 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	\$6,036,741	\$6,036,741	100.0	\$4,994,664 \$4,971,678
Status: 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)

Actual

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Approved	Funded	%	
Freshwater Bayou Wetland Protection	MERM	VERMI	1,593	17-Aug-1994 A	29-Aug-1994 A	15-Aug-1998 A	\$6,059,651	\$6,047,554	99.8	\$3,563,468 \$3,506,642
	Status:	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.								
		Project construction is complete. Maintenance contract underway to repair rock dike.								
Fritchie Marsh Restoration	PONT	STTAM	1,040	21-Feb-1995 A	01-Nov-2000 A	01-Mar-2001 A	\$2,201,674	\$2,201,674	100.0	\$1,863,617 \$1,850,956
	Status:	O&M plan executed January 29, 2003.								
Highway 384 Hydrologic Restoration	CA/SB	CAMER	150	13-Oct-1994 A	01-Oct-1999 A	07-Jan-2000 A	\$1,586,227	\$1,586,227	100.0	\$1,373,941 \$1,355,470
	Status:	Construction start slipped from November 1997 to July 1999 because of landright issues. All landright agreements signed. Construction complete January 7, 2000.								
		O&M plan executed. Maintenance contract complete. Minor damage from Hurricane Lili to be repaired. Contract in preparation.								
Jonathan Davis Wetland Restoration	BARA	JEFF	510	05-Jan-1995 A	22-Jun-1998 A	12-Jan-2012 A	\$28,896,380	\$28,896,380	100.0	\$22,778,259 \$22,677,903
	Status:	Construction has begun to repair vandalism to the concrete walls. Work is anticipated to be completed by October 2012.								
Vermilion Bay/Boston Canal Shore Protection	TECHE	VERMI	378	24-Mar-1994 A	13-Sep-1994 A	30-Nov-1995 A	\$897,109	\$897,109	100.0	\$897,109 \$897,109
	Status:	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	Approved	Funded	%	
	Total Priority List	2	5,993				\$51,311,611	\$51,299,514	100.0	\$40,579,924 \$40,333,487
	8	Project(s)								
	8	Cost Sharing Agreements Executed								
	7	Construction Started								
	7	Construction Completed								
	1	Project(s) Deferred/Deauthorized								
Total			13,090				\$88,846,283	\$88,834,186	100.0	\$74,647,640 \$74,293,773
	15	Project(s)								
	15	Cost Sharing Agreements Executed								
	14	Construction Started								
	14	Construction Completed								
	1	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

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	Approved	Funded	%	

Lead Agency: COE, CORPS OF ENGINEERS

Priority List 3

Channel Armor Gap Crevasse	DELTA	PLAQ	936	13-Jan-1997 A	22-Sep-1997 A	02-Nov-1997 A	\$884,270	\$884,270	100.0	\$759,263 \$759,263
Status:	Cost increase was due to additional project management costs, by both Federal and Local Sponsor.									
	Surveys identified a pipeline in the crevasse area which would be negatively impacted by the project. US Fish & 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.									
	Construction complete.									
MRGO Disposal Area Marsh Protection COMPLETE	PONT	STBER	755	17-Jan-1997 A	25-Jan-1999 A	29-Jan-1999 A	\$318,445	\$318,445	100.0	\$318,445 \$318,445
Status:	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.									
	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.									
Pass-a-Loutre Crevasse DEAUTHORIZED	DELTA	PLAQ					\$119,835	\$119,835	100.0	\$119,835 \$119,835
Status:	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.									
	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.									

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

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

Actual

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Approved	Funded	%	
Total Priority List		3	1,691				\$1,322,550	\$1,322,550	100.0	\$1,197,543 \$1,197,543

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

Priority List 3

Red Mud Demo DEAUTHORIZED	PONT	STJON		03-Nov-1994 A			\$520,129	\$520,129	100.0	\$520,129 \$520,129
<p>Status: 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.</p> <p>The Task Force approved the deauthorization of the project on August 7, 2001. Escrowed funds will be returned to Kaiser Aluminum and Chemical Corp.</p>										
Whiskey Island Restoration COMPLETE	TERRE	TERRE	1,239	06-Apr-1995 A	13-Feb-1998 A	15-Jun-2000 A	\$7,043,188	\$7,043,188	100.0	\$7,043,188 \$7,043,188
<p>Status: At the January 16, 1998 meeting, the Task Force approved additional funds to cover the increased construction cost on lowest bid received.</p> <p>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.</p>										

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

PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Actual Obligations/ Expenditures
				***** SCHEDULES *****			***** ESTIMATES *****			
		Total Priority List	3	1,239			\$7,563,317	\$7,563,317	100.0	\$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

Priority List 3

Sabine Refuge Structure Replacement (Hog Island)	CA/SB	CAMER	953	25-Oct-1996 A	01-Nov-1999 A	10-Sep-2003 A	\$6,177,735	\$5,900,565	95.5	\$5,603,371 \$5,563,412
<p>Status: Construction began the week of November 1, 1999 and was 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. 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 the Hog Island Gully and West Cove structure sites. All structures, except for one bay of the Hog Island Gully structure, were fully operational until late October 2004. The Monitoring Plan was approved on June 17, 1999. The Service will be responsible for all structure operations and minor maintenance and the State CPRA will be responsible for the larger maintenance items. Hurricane Rita in October 2005 overtopped the structures and damaged the electric motors, guard rails and other equipment. Some FEMA funds were received by the State for limited repair of Hurricane Rita damage. Other funds from the Fish and Wildlife Service were used for structure repair and upgrade. The electrical systems of all structures and the structure gates of the Hog Island and West Cove structures were modified from one to "two-stem" systems to provide for greater stability. The structures are now operating well with only occasional minor operational problems. The project is currently in the operation and maintenance phase; its 20-year life ends in September 2023.</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	Approved	Funded	%	
Total Priority List		3	953				\$6,177,735	\$5,900,565	95.5	\$5,603,371 \$5,563,412

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

Priority List 3

Bayou Perot/Bayou Rigolettes Marsh Restoration DEAUTHORIZED	BARA	JEFF		03-Mar-1995 A			\$20,963	\$20,963	100.0	\$20,963 \$20,963
	Status:	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.								
		Deauthorized.								
East Timbalier Island Sediment Restoration, Phase 1	TERRE	LAFOU	1,913	01-Feb-1995 A	01-May-1999 A	01-May-2001 A	\$3,621,544	\$3,621,544	100.0	\$3,695,120 \$3,695,120
	Status:	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.								
Lake Chapeau Sediment Input and Hydrologic Restoration	TERRE	TERRE	509	01-Mar-1995 A	14-Sep-1998 A	18-May-1999 A	\$6,847,812	\$6,841,968	99.9	\$5,809,766 \$5,747,435
	Status:	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.								

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	Approved	Funded	%	
Lake Salvador Shore Protection Demo COMPLETE	BARA	STCHA	0	01-Mar-1995 A	02-Jul-1997 A	30-Jun-1998 A	\$2,801,782	\$2,801,782	100.0	\$2,801,782 \$2,801,782
<p>Status: Phase 1 was completed September 1997. Phase 2 is shoreline protection between Bayou desAllemnands 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&M funds, summer of 2002.</p>										
Total Priority List		3	2,422				\$13,292,101	\$13,286,257	100.0	\$12,327,631 \$12,265,300

- 4 Project(s)
- 4 Cost Sharing Agreements Executed
- 3 Construction Started
- 3 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	\$7,593,752	\$7,352,678	96.8	\$6,755,802 \$6,689,248
<p>Status: 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&E. Both will help cost share the project. The revised CSA is complete.</p> <p>Construction project is complete. O&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	\$11,895,673	\$5,149,166	43.3	\$2,605,220 \$2,507,787
<p>Status: The first three contracts for maintenance work are complete. The project provides for maintenance on an as-needed basis.</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	Approved	Funded	%	
Cote Blanche Hydrologic Restoration	TECHE	STMRY	2,223	01-Jul-1996 A	25-Mar-1998 A	15-Dec-1998 A	\$10,093,909	\$10,036,640	99.4	\$8,381,594 \$8,381,594
	Status:	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.								
		O&M plan executed. Maintenance contract complete.								
Southwest Shore White Lake Demo DEAUTHORIZED	MERM	VERMI		11-Jan-1995 A	30-Apr-1996 A		\$103,468	\$103,468	100.0	\$103,468 \$103,468
	Status:	Complete. Project deauthorized.								
Violet Freshwater Distribution DEAUTHORIZED	PONT	STBER		13-Oct-1994 A			\$128,627	\$128,627	100.0	\$128,627 \$128,627
	Status:	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 DEAUTHORIZED	BARA	PLAQ		05-Jan-1995 A			\$5,370,516	\$4,269,295	79.5	\$1,168,631 \$1,168,631
	Status:	CPRA has withdrawn support for continuing this project. Project began Deauthorization in Fall 2014 Task Force meeting.								
White Ditch Outfall Management DEAUTHORIZED	BRET	PLAQ		13-Oct-1994 A			\$32,862	\$32,862	100.0	\$32,862 \$32,862
	Status:	LA DNR concurred with NRCS to deauthorize the project. Project deauthorized at the January 16, 1998 Task Force meeting.								
		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	Approved	Funded	%	
	Total Priority List	3	5,122				\$35,218,807	\$27,072,736	76.9	\$19,176,204 \$19,012,217
	7	Project(s)								
	7	Cost Sharing Agreements Executed								
	4	Construction Started								
	3	Construction Completed								
	4	Project(s) Deferred/Deauthorized								
Total			11,427				\$63,574,511	\$55,145,426	86.7	\$45,868,066 \$45,601,790
	17	Project(s)								
	16	Cost Sharing Agreements Executed								
	11	Construction Started								
	10	Construction Completed								
	7	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

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

Lead Agency: COE, CORPS OF ENGINEERS

Priority List 4

Beneficial Use of Hopper Dredge Material Demo DEAUTHORIZED	DELTA	PLAQ		30-Jun-1997 A			\$58,310	\$58,310	100.0	\$58,310 \$58,310
	Status:	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.								

Project deauthorized October 4, 2000.

Grand Bay Crevasse DEAUTHORIZED	BRET	PLAQ					\$65,747	\$65,747	100.0	\$65,747 \$65,747
	Status:	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.								

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.

Total Priority List	4						\$124,057	\$124,057	100.0	\$124,057 \$124,057
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- 2 Project(s)
- 1 Cost Sharing Agreements Executed
- 0 Construction Started
- 0 Construction Completed
- 2 Project(s) Deferred/Deauthorized

Priority List 4

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	Approved	Funded	%	
Compost Demo DEAUTHORIZED	CA/SB	CAMER		22-Jul-1996 A			\$255,391	\$255,391	100.0	\$255,391 \$255,391
<p>Status: 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					\$255,391	\$255,391	100.0	\$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 4

East Timbalier Island Sediment Restoration, Phase 2	TERRE	LAFOU	215	08-Jun-1995 A	01-May-1999 A	15-Jan-2000 A	\$7,600,150	\$7,600,150	100.0	\$7,548,066 \$7,548,066
<p>Status: 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					\$39,025	\$39,025	100.0	\$39,025 \$39,025
<p>Status: 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	Approved	Funded	%	
Total Priority List		4	215				\$7,639,176	\$7,639,176	100.0	\$7,587,091 \$7,587,091
2 Project(s)										
1 Cost Sharing Agreements Executed										
1 Construction Started										
1 Construction Completed										
1 Project(s) Deferred/Deauthorized										
Priority List 4										
Barataria Bay Waterway West Side Shoreline Protection	BARA	JEFF	232	23-Jun-1997 A	01-Jun-2000 A	01-Nov-2000 A	\$3,369,006	\$3,367,515	100.0	\$2,821,826 \$2,813,916
Status: 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 Lours Ridge Hydrologic Restoration DEAUTHORIZED	BARA	LAFOU		23-Jun-1997 A			\$371,232	\$371,232	100.0	\$371,232 \$371,232
Status: 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			\$115,775	\$115,775	100.0	\$115,775 \$115,775
Status: 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	\$2,289,090	\$2,289,090	100.0	\$1,904,692 \$1,884,557
Status: 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	Approved	Funded	%	
Plowed Terraces Demo COMPLETE	CA/SB	CAMER	0	22-Oct-1998 A	30-Apr-1999 A	31-Aug-2000 A	\$324,970	\$324,970	100.0	\$324,970 \$324,970
Status: 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.										
Total Priority List		4	1,435				\$6,470,074	\$6,468,583	100.0	\$5,538,495 \$5,510,451
5 Project(s) 5 Cost Sharing Agreements Executed 3 Construction Started 3 Construction Completed 2 Project(s) Deferred/Deauthorized										
Total			1,650				\$14,488,697	\$14,487,206	100.0	\$13,505,034 \$13,476,990
10 Project(s) 8 Cost Sharing Agreements Executed 4 Construction Started 4 Construction Completed 6 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

***** SCHEDULES *****

***** ESTIMATES *****

PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Obligations/ Expenditures
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Lead Agency: COE, CORPS OF ENGINEERS

Priority List 5

Bayou Chevee Shoreline Protection	PONT	ORL	75	01-Feb-2001 A	25-Aug-2001 A	17-Dec-2001 A	\$2,589,403	\$2,589,403	100.0	\$2,318,441 \$2,317,688
Status: 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.										
Total Priority List			5	75			\$2,589,403	\$2,589,403	100.0	\$2,318,441 \$2,317,688

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

Priority List 5

Bayou Lafourche Siphon DEAUTHORIZED	TERRE	IBERV		19-Feb-1997 A			\$1,500,000	\$1,500,000	100.0	\$1,500,000 \$1,500,000
Status: Project was deauthorized by the Task Force on October 25, 2007.										
Total Priority List			5				\$1,500,000	\$1,500,000	100.0	\$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: DEPT. OF THE INTERIOR (FWS)

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Approved	Funded	%	
Priority List 5										
Grand Bayou Hydrologic Restoration DEAUTHORIZED	TERRE	LAFOU		28-May-2004 A			\$1,452,357	\$1,452,357	100.0	\$1,452,357 \$1,452,357
	Status:	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.								
Total Priority List 5							\$1,452,357	\$1,452,357	100.0	\$1,452,357 \$1,452,357

- 1 Project(s)
- 1 Cost Sharing Agreements Executed
- 0 Construction Started
- 0 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	\$886,030	\$886,030	100.0	\$751,392 \$751,392
	Status:	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			\$481,803	\$481,803	100.0	\$481,803 \$481,803
	Status:	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	Approved	Funded	%	
Total Priority List		5	441				\$1,367,833	\$1,367,833	100.0	\$1,233,194 \$1,233,194
2 Project(s) 2 Cost Sharing Agreements Executed 1 Construction Started 1 Construction Completed 1 Project(s) Deferred/Deauthorized										
Priority List 5										
Freshwater Bayou Bank Stabilization	MERM	VERMI	511	01-Jul-1997 A	15-Feb-1998 A	15-Jun-1998 A	\$8,913,366	\$5,533,088	62.1	\$2,649,056 \$2,633,621
Status: The local cost share is being paid by Acadian Gas Company. Contract was awarded January 14, 1998. Construction is complete.										
Naomi Outfall Management	BARA	JEFF	633	12-May-1999 A	01-Jun-2002 A	15-Jul-2002 A	\$2,286,064	\$2,255,260	98.7	\$1,994,123 \$1,967,521
Status: This project was combined with the BBWW "Dupre Cut" East project for planning and design; construction will be separate. 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. O&M plan in draft.										
Raccoon Island Breakwaters Demo	TERRE	TERRE	0	03-Sep-1996 A	21-Apr-1997 A	31-Jul-1997 A	\$1,751,046	\$1,751,046	100.0	\$1,751,046 \$1,751,046
Status: 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	Approved	Funded	%	
Sweet Lake/Willow Lake Hydrologic Restoration	CA/SB	CAMER	247	23-Jun-1997 A	01-Nov-1999 A	02-Oct-2002 A	\$3,929,152	\$3,929,152	100.0	\$3,460,352 \$3,435,411
Status: The rock bank protection feature of the project is complete. 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.										
Total Priority List		5	1,391				\$16,879,628	\$13,468,546	79.8	\$9,854,577 \$9,787,599
4 Project(s) 4 Cost Sharing Agreements Executed 4 Construction Started 4 Construction Completed 0 Project(s) Deferred/Deauthorized										
Total			1,907				\$23,789,220	\$20,378,138	85.7	\$16,358,568 \$16,290,838
9 Project(s) 9 Cost Sharing Agreements Executed 6 Construction Started 6 Construction Completed 3 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	CSA	Const Start	Const End	Approved	Funded	%	Actual Obligations/ Expenditures	
***** SCHEDULES *****											
***** ESTIMATES *****											
Lead Agency: EPA, REGION 6											
Priority List 5.1											
Mississippi River Reintroduction into Bayou Lafourche DEAUTHORIZED	TERRE	IBERV		23-Jul-2003 A			\$7,452,191	\$7,452,191	100.0	\$7,452,191 \$7,452,191	
	Status:	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	\$7,452,191	\$7,452,191	100.0	\$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

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	Approved	Funded	%	
Total							\$7,452,191	\$7,452,191	100.0	\$7,452,191 \$7,452,191

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

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

Actual

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Obligations/ Expenditures
				CSA	Const Start	Const End	Approved	Funded	%	

Lead Agency: COE, CORPS OF ENGINEERS

Priority List 6

Flexible Dustpan Demo at Head of Passes Demo COMPLETE	DELTA	PLAQ	0	31-May-2002 A	03-Jun-2002 A	21-Jun-2002 A	\$1,904,646	\$1,904,646	100.0	\$1,890,321 \$1,890,321
<p>Status: CSA executed May 31, 2002. Construction completed June 21, 2002.</p> <p>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".</p> <p>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.</p>										
Marsh Creation E of the Atchafalaya Rvr-Avoca Island DEAUTHORIZED	TERRE	STMRY					\$66,869	\$66,869	100.0	\$66,869 \$66,869
<p>Status: 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.</p> <p>Project deauthorized July 23, 1998.</p>										
Marsh Island Hydrologic Restoration	TECHE	IBERI	408	01-Feb-2001 A	25-Jul-2001 A	12-Dec-2001 A	\$5,143,323	\$5,143,323	100.0	\$4,441,660 \$4,441,648
<p>Status: 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.</p> <p>Revised design of closures from earthen to rock because soil borings indicate highly organic material in borrow area.</p>										

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

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

Actual

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Approved	Funded	%	
Total Priority List		6	408				\$7,114,838	\$7,114,838	100.0	\$6,398,849 \$6,398,837

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

Priority List 6

Bayou Boeuf Pump Station DEAUTHORIZED	TERRE	STMAR					\$3,452	\$3,452	100.0	\$3,452 \$3,452
Status:		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.								
Total Priority List		6					\$3,452	\$3,452	100.0	\$3,452 \$3,452

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

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	Approved	Funded	%	
Lake Boudreaux Freshwater Introduction INACTIVE	TERRE	TERRE	266	22-Oct-1998 A	01-Jun-2013 *	01-Oct-2014 *	\$25,766,765	\$20,048,152	77.8	\$3,777,236 \$3,649,152
<p>Status: 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	\$806,220	\$806,220	100.0	\$806,220 \$806,220
<p>Status: 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				\$26,572,985	\$20,854,372	78.5	\$4,583,456 \$4,455,372

- 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 COMMERCE (NMFS)

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Approved	Funded	%	
Black Bayou Hydrologic Restoration	CA/SB	CAMER	3,594	28-May-1998 A	01-Jul-2001 A	03-Nov-2003 A	\$12,698,222	\$12,423,864	97.8	\$6,158,635 \$6,021,642
	Status:	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	\$4,728,319	\$4,728,319	100.0	\$3,158,194 \$3,116,004
	Status:	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	\$1,653,792	\$1,653,792	100.0	\$1,383,852 \$1,383,852
	Status:	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.								
Total Priority List		6	7,979				\$19,080,333	\$18,805,975	98.6	\$10,700,682 \$10,521,499

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

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	\$5,224,477	\$5,224,477	100.0	\$4,837,019 \$4,774,945
	Status:	This project was combined with the Naomi Outfall Management project for planning and design; construction was separate.								
		Project construction complete.								
		O&M plan signed October 2, 2002.								

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report - Lead Agency: DEPT. OF AGRICULTURE (NRCS)

Actual

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Approved	Funded	%	
Cheniere au Tigre Sediment Trapping DEMO	TECHE	VERMI	0	20-Jul-1999 A	01-Sep-2001 A	02-Nov-2001 A	\$624,999	\$624,999	100.0	\$596,781 \$596,781
	Status:	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.								
Oaks/Avery Canal Hydrologic Restoration	TECHE	VERMI	160	22-Oct-1998 A	15-Apr-1999 A	11-Oct-2002 A	\$2,925,216	\$2,925,216	100.0	\$2,550,537 \$2,545,537
	Status:	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	\$17,628,814	\$17,628,814	100.0	\$13,191,402 \$13,091,575
	Status:	Project construction was completed on August 24, 2011.								
Total Priority List			6				\$26,403,506	\$26,403,506	100.0	\$21,175,739 \$21,008,837

- 4 Project(s)
- 4 Cost Sharing Agreements Executed
- 4 Construction Started
- 4 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	Approved	Funded	%	
Total			9,705				\$79,175,115	\$73,182,144	92.4	\$42,862,177 \$42,387,997

- 13 Project(s)
- 11 Cost Sharing Agreements Executed
- 10 Construction Started
- 10 Construction Completed
- 2 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 COMMERCE (NMFS)

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Approved	Funded	%	
Lead Agency: NMFS, NATIONAL MARINE FISHERIES SERVICE										
Priority List 7										
Grand Terre Vegetative Plantings	BARA	JEFF	127	23-Dec-1998 A	01-May-2001 A	01-Jul-2001 A	\$346,578	\$346,578	100.0	\$346,578 \$346,578
	Status:	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	\$2,390,984	\$2,390,984	100.0	\$2,333,561 \$2,333,561
	Status:	An O&M inspection is planned for May 2011.								
<hr/>										
Total Priority List			7	569			\$2,737,562	\$2,737,562	100.0	\$2,680,139 \$2,680,139

- 2 Project(s)
- 2 Cost Sharing Agreements Executed
- 2 Construction Started
- 2 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	\$27,852,111	\$27,852,111	100.0	\$26,530,614 \$26,421,923
	Status:									
Thin Mat Floating Marsh Enhancement Demo COMPLETE	TERRE	TERRE	0	16-Oct-1998 A	15-Jun-1999 A	10-May-2000 A	\$538,101	\$538,101	100.0	\$538,101 \$538,101
	Status:	Construction complete. Monitoring ongoing.								

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	Approved	Funded	%	
	Total Priority List	7	1,304				\$28,390,212	\$28,390,212	100.0	\$27,068,715 \$26,960,024
	2	Project(s)								
	2	Cost Sharing Agreements Executed								
	2	Construction Started								
	2	Construction Completed								
	0	Project(s) Deferred/Deauthorized								
Total			1,873				\$31,127,774	\$31,127,774	100.0	\$29,748,854 \$29,640,163
	4	Project(s)								
	4	Cost Sharing Agreements Executed								
	4	Construction Started								
	4	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 - Lead Agency: DEPT. OF THE ARMY (COE)

Actual

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

Lead Agency: COE, CORPS OF ENGINEERS

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	\$3,422,433	\$3,422,433	100.0	\$3,422,433 \$3,422,433
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Status: 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. Cycle 2 is currently scheduled to be constructed in 2005. Cycle 3 would be constructed in 2006.

Sabine Refuge Marsh Creation, Cycle 2	CA/SB	CAMER	261	17-Feb-2005 A	28-Apr-2009 A		\$14,351,767	\$14,351,768	100.0	\$11,100,543 \$11,098,875
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Status: Currently this project is complete but are waiting on the O&M Manual to be completed by the Corps before this pipeline can be used.

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

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

Actual

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Approved	Funded	%	
Sabine Refuge Marsh Creation, Cycle 3	CA/SB	CAMER	187	28-Mar-2005 A	25-Oct-2006 A	30-Sep-2010 A	\$3,038,248	\$2,973,179	97.9	\$2,777,129 \$2,777,129
	Status:	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.								
Total Priority List		8	662				\$20,812,448	\$20,747,380	99.7	\$17,300,105 \$17,298,437

- 3 Project(s)
- 3 Cost Sharing Agreements Executed
- 3 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 THE INTERIOR (FWS)

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/Expenditures
				CSA	Const Start	Const End	Approved	Funded	%	
Sabine Refuge Marsh Creation, Cycles 4 & 5	CA/SB	CAMER	331	06-May-2014 A	01-Aug-2014 *	07-Jul-2015 A	\$10,783,079	\$10,217,612	94.8	\$5,909,036 \$5,828,858
Status: Cycle 4 was completed on 1/15/2015 with 230 acres of marsh platform being constructed with material pumped from the Calcasieu River Ship Channel through CWPPRA's permanent pipeline. Cycle 5 was completed on 7/7/2015 with approximately 232 acres of marsh platform being constructed with material pumped from the ship channel. This material was also pumped through CWPPRA's permanent pipeline. In addition to Cycles 4 & 5 being constructed, CWPPRA had the opportunity to work with the Port of Lake Charles and the USACE in constructing low level containment dikes to help contain the approximately 1 million Cyds of material the Port paid to be placed in an open water site on Sabin Refuge just south of Cycles 1-5 (Unit 1A-North). This created approximately 240 acres of marsh platform and was completed on 11/21/2014. CWPPRA also funded the Corps to place approximately 1 million Cyds of material to be place and contained with low level earthen dikes in Unit 1A-South. This created approximately 171 acres of marsh platform and nourished the surrounding marsh which was completed on 6/15/2015. The overflow of material from the two areas in Unit 1A is unknown, but it is believed to have created 300-400 acres of mudflats that will hopefully become vegetated in the near future.										
Total Priority List		8	331				\$10,783,079	\$10,217,612	94.8	\$5,909,036 \$5,828,858

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

Priority List 8

Bayou Bienvenue Pump Station Diversion DEAUTHORIZED	PONT	STBER		01-Jun-2000 A			\$212,153	\$212,153	100.0	\$212,153 \$212,153
Status: 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.										

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.

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	Approved	Funded	%	
Hopedale Hydro Restoration	PONT	STBER	134	11-Jan-2000 A	10-Jan-2004 A	15-Jan-2005 A	\$2,281,287	\$2,281,287	100.0	\$1,956,368 \$1,949,394
Status: 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.										
Total Priority List		8	134				\$2,493,439	\$2,493,439	100.0	\$2,168,521 \$2,161,546

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

Priority List 8

Humble Canal Hydrologic Restoration	MERM	CAMER	378	21-Mar-2000 A	01-Jul-2002 A	01-Mar-2003 A	\$1,574,926	\$1,574,926	100.0	\$1,188,540 \$1,177,231
Status: Construction complete March 2003.										
Lake Portage Land Bridge	TECHE	VERMI	24	07-Apr-2000 A	15-Feb-2003 A	15-May-2004 A	\$1,181,129	\$1,181,129	100.0	\$1,115,562 \$1,112,057
Status: Project construction was completed on May 15, 2004. Monitoring Plan was finalized on July 19, 2004										

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	Approved	Funded	%	
Upper Oak River Freshwater Siphon DEAUTHORIZED	BRET	PLAQ					\$56,476	\$56,476	100.0	\$56,476 \$56,476
Status: 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.										
<hr/>										
Total Priority List		8	402				\$2,812,531	\$2,812,531	100.0	\$2,360,578 \$2,345,764
3 Project(s) 2 Cost Sharing Agreements Executed 2 Construction Started 2 Construction Completed 1 Project(s) Deferred/Deauthorized										
<hr/>										
Total			1,529				\$36,901,498	\$36,270,962	98.3	\$27,738,239 \$27,634,605
9 Project(s) 8 Cost Sharing Agreements Executed 6 Construction Started 6 Construction Completed 2 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

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

Actual

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Approved	Funded	%	
Lead Agency: COE, CORPS OF ENGINEERS										
Priority List 9										
Freshwater Bayou Bank Stabilization - Belle Isle Canal to Lock INACTIVE	TECHE	VERMI	241				\$1,101,738	\$1,101,738	100.0	\$1,101,738 \$1,101,738
	Status:	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.								
Opportunistic Use of the Bonnet Carre Spillway DEAUTHORIZED	PONT	STCHA					\$83,932	\$83,932	100.0	\$83,932 \$83,932
	Status:	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 & Nutrients Demo DEAUTHORIZED	COAST	VARY					\$83,556	\$83,556	100.0	\$83,556 \$83,556
	Status:	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	278				\$534,057	\$534,057	100.0	\$534,057 \$534,057
	Status:	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.								

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

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

Actual

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Approved	Funded	%	
Total Priority List		9	519				\$1,803,283	\$1,803,283	100.0	\$1,803,283 \$1,803,283

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

Priority List 9

LA Highway 1 Marsh Creation DEAUTHORIZED	BARA	LAFOU		05-Oct-2000 A			\$250,257	\$250,257	100.0	\$250,257 \$250,257
	Status:	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	\$10,730,085	\$10,609,976	98.9	\$10,213,368 \$10,192,472
	Status:	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	\$15,280,979	\$15,215,838	99.6	\$15,151,708 \$15,149,853
	Status:	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	Approved	Funded	%	
Total Priority List		9	375				\$26,261,321	\$26,076,071	99.3	\$25,615,334 \$25,592,582

- 3 Project(s)
- 3 Cost Sharing Agreements Executed
- 2 Construction Started
- 2 Construction Completed
- 1 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	Approved	Funded	%	
Freshwater Introduction South of Highway 82	MERM	CAMER	296	12-Sep-2000 A	01-Sep-2005 A	13-Dec-2006 A	\$6,342,505	\$5,304,970	83.6	\$5,072,581 \$5,072,179

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	Approved	Funded	%	
<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 COMPLETE	TERRE	TERRE	0	06-Dec-2000 A	25-Apr-2003 A	01-Sep-2003 A	\$1,732,498	\$1,732,498	100.0	\$1,732,498 \$1,732,498
Status:		Construction was completed 9/1/2003.								
Total Priority List		9	296				\$8,075,003	\$7,037,468	87.2	\$6,805,079 \$6,804,677

- 2 Project(s)
- 2 Cost Sharing Agreements Executed
- 2 Construction Started
- 2 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	Approved	Funded	%	
Castille Pass Channel Sediment Delivery DEAUTHORIZED	ATCH	STMRY		29-Sep-2000 A			\$1,717,883	\$1,717,883	100.0	\$1,717,883 \$1,717,883
	Status:	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.								
Chandeleur Islands Marsh Restoration	PONT	STBER	220	10-Sep-2000 A	01-Jun-2001 A	31-Jul-2001 A	\$839,927	\$839,927	100.0	\$839,927 \$839,927
	Status:	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	335	21-Sep-2000 A			\$2,211,739	\$2,211,739	100.0	\$2,211,739 \$2,211,739
	Status:	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	\$3,792,936	\$2,175,357	57.4	\$2,119,533 \$2,095,613
	Status:	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 Prot DEAUTHORIZED	PONT	STCHA		21-Sep-2000 A			\$306,836	\$306,836	100.0	\$306,836 \$306,836
	Status:	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.								

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	Approved	Funded	%	
Total Priority List		9	722				\$8,869,321	\$7,251,742	81.8	\$7,195,918 \$7,171,998

- 5 Project(s)
- 5 Cost Sharing Agreements Executed
- 2 Construction Started
- 2 Construction Completed
- 2 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	31-Dec-2016 *	\$46,231,597	\$37,240,699	80.6	\$34,956,240 \$10,319,410
	Status:	Construction Units 7&8 are under construction with completion scheduled for December 2016.								
Black Bayou Culverts Hydrologic Restoration	CA/SB	CAMER	540	25-Jul-2000 A	25-May-2005 A	26-Jan-2010 A	\$16,899,059	\$16,178,688	95.7	\$15,581,379 \$14,778,163
	Status:	Project received funding to design the repairs in 2013. Design has been completed and work was advertised for construction in Summer 2014. Construction is anticipated to begin in December 2014 pending contracting decision and award.								
Little Pecan Bayou Hydrologic Restoration DEAUTHORIZED	MERM	CAMER		25-Jul-2000 A			\$1,303,713	\$1,303,713	100.0	\$1,303,713 \$1,303,713
	Status:	Project was deauthorized at Spring 2012 Task Force meeting for the following reasons:								
		<ul style="list-style-type: none"> •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. •Within the current project scope, the CPRA has concerns over public vandalism. 								

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report - Lead Agency: DEPT. OF AGRICULTURE (NRCS)

Actual

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Approved	Funded	%	
Perry Ridge West Bank Stabilization	CA/SB	CAMER	83	25-Jul-2000 A	01-Nov-2001 A	31-Jul-2002 A	\$2,204,709	\$2,160,906	98.0	\$1,770,890 \$1,757,795
	Status:	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	\$4,901,784	\$3,431,160	70.0	\$3,349,965 \$3,340,914
	Status:	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	1,089				\$71,540,862	\$60,315,165	84.3	\$56,962,187 \$31,499,996

- 5 Project(s)
- 5 Cost Sharing Agreements Executed
- 4 Construction Started
- 3 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	Approved	Funded	%	
Total			3,001				\$116,549,790	\$102,483,730	87.9	\$98,381,801 \$72,872,535

- 19 Project(s)
- 15 Cost Sharing Agreements Executed
- 10 Construction Started
- 9 Construction Completed
- 6 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

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

Actual

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

Lead Agency: COE, CORPS OF ENGINEERS

Priority List 10

Benneys Bay Diversion DEAUTHORIZED	DELTA	PLAQ					\$978,100	\$978,100	100.0	\$978,100 \$978,100
	Status:	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 TRANSFER	BARA	JEFF	8,891				\$2,543,325	\$2,543,325	100.0	\$2,543,325 \$2,543,325
	Status:	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					\$1,178,640	\$1,178,640	100.0	\$1,178,640 \$1,178,640
	Status:	95% design review anticipated July 25, 2007.								

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

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

Actual

Obligations/
Expenditures

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			
				CSA	Const Start	Const End	Approved	Funded	%	
Total Priority List		10	8,891				\$4,700,066	\$4,700,066	100.0	\$4,700,066 \$4,700,066

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

Priority List 10

Hydrologic Restoration & Vegetative Planting in the Lac des Allemands	BARA	STJAM	0	08-Oct-2001 A	05-Dec-2016 *	31-May-2017	\$7,886,704	\$5,220,448	66.2	\$2,031,825 \$1,467,262
	Status:	After extensive field work/surveys and modeling efforts in 2014 and 2015, the Project Management Team completed the Engineering & Design Plans. A 30% design meeting was held on July 23, 2015, followed by the 95% design meeting on October 28, 2015. The BA 34-2 project was presented to the Tech Committee at the December 10, 2015 meeting. On January 22, 2016, the CWPPRA Task Force approved by electronic vote the Technical Committee's recommendation to approve the BA 34-2 project for Phase II funding. A new Cooperative Agreement is currently being put into place for Phase II project construction. Construction is estimated to start in December 2016.								
Lake Borgne Shoreline Protection	PONT	STBER	165	02-Oct-2001 A	01-Aug-2007 A	12-Apr-2010 A	\$27,520,808	\$27,265,513	99.1	\$20,479,891 \$20,346,825
	Status:	Construction grant has expired and final Phase 1 activities in the process of being closed-out.								

Total Priority List		10	165				\$35,407,512	\$32,485,961	91.7	\$22,511,716 \$21,814,087
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- 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	Approved	Funded	%	
Priority List 10										
Delta Management at Fort St. Philip	BRET	PLAQ	267	16-May-2001 A	19-Jun-2006 A	14-Dec-2006 A	\$2,739,727	\$2,300,079	84.0	\$1,822,873 \$1,782,171
Status:	This project was completed in 2006 and monitoring activities are ongoing. No maintenance has been conducted.									
East Sabine Lake Hydrologic Restoration	CA/SB	CAMER	225	17-Jul-2001 A	01-Dec-2004 A	11-Aug-2009 A	\$6,049,990	\$4,944,870	81.7	\$4,788,928 \$4,715,159
Status:	A joint FWS- NRCS-DNR cost-share agreement was completed on July 17, 2001. FTN completed hydrodynamic modeling for the proposed water control structures at Right Prong, Greens, Three and Willow Bayous. 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 effect in reducing project area salinities. Therefore Phase 2 of the project that involved structures on the above bayous were removed from the project. The first portion of Construction Unit 1 was completed in October 2006. The following project features were 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 The proposed 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 based on hydrodynamic modeling results. 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. 50,000 linear feet of additional earthen terraces were constructed in January 2008. The Cameron Parish Drainage District No. 7 replaced the Section 16 rock weir in 2015. The project will be in it's current operation and maintenance phase until the end of its 20-year life in 2029.									

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	Approved	Funded	%	
Grand-White Lake Landbridge Restoration	MERM	CAMER	213	24-Jul-2001 A	10-Jul-2003 A	01-Oct-2004 A	\$8,584,334	\$4,814,626	56.1	\$3,895,061 \$3,841,318
	Status: 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.									
North Lake Mechant Landbridge Restoration	TERRE	TERRE	604	16-May-2001 A	01-Apr-2003 A	16-Dec-2009 A	\$36,734,873	\$35,197,570	95.8	\$34,347,491 \$34,346,162
	Status: Construction of this project has been completed. This project is now in the Operation and Maintenance Phase.									

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	Approved	Funded	%	
Terrebonne Bay Shore Protection Demo COMPLETE	COAST	TERRE	0	24-Jul-2001 A	25-Aug-2007 A	19-Dec-2007 A	\$2,747,094	\$2,747,094	100.0	\$2,612,393 \$2,607,770
Status: This demonstration project is in its last year. We will start the close out process soon.										
Total Priority List		10	1,309				\$56,856,018	\$50,004,239	87.9	\$47,466,747 \$47,292,580

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

Priority List 10

Rockefeller Refuge Gulf Shoreline Stabilization	MERM	CAMER	256	27-Sep-2001 A	01-Apr-2016 *	15-Feb-2018	\$34,330,522	\$33,337,316	97.1	\$27,382,231 \$1,784,258
Status: 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,										
Total Priority List		10	256				\$34,330,522	\$33,337,316	97.1	\$27,382,231 \$1,784,258

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

Priority List 10

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report - Lead Agency: DEPT. OF AGRICULTURE (NRCS)

Actual

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Approved	Funded	%	
GIWW Bank Restoration of Critical Areas in Terrebonne	TERRE	TERRE	64	16-May-2001 A	02-May-2013 A	01-Feb-2014 *	\$13,022,246	\$11,258,135	86.5	\$9,340,910 \$9,339,750
Status: 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.										
Total Priority List		10	64				\$13,022,246	\$11,258,135	86.5	\$9,340,910 \$9,339,750

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

Total			10,685				\$144,316,363	\$131,785,716	91.3	\$111,401,670 \$84,930,741
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- 12 Project(s)
- 9 Cost Sharing Agreements Executed
- 7 Construction Started
- 6 Construction Completed
- 2 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	CSA	Const Start	Const End	Approved	Funded	%	Actual Obligations/ Expenditures
Lead Agency: EPA, FISH & WILDLIFE SERVICE										
Priority List 11										
River Reintroduction into Maurepas Swamp TRANSFER	PONT	STJON	5,438	04-Apr-2002 A			\$6,554,124	\$6,554,124	100.0	\$6,554,124 \$6,554,124
	Status:	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	195	17-Mar-2003 A			\$2,298,822	\$2,298,822	100.0	\$2,298,822 \$2,298,822
	Status:	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.								
<hr/>										
Total Priority List		11	5,633				\$8,852,946	\$8,852,946	100.0	\$8,852,946 \$8,852,946

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

Priority List 11

Dedicated Dredging on the Barataria Basin Landbridge	BARA	JEFF	605	03-Apr-2002 A	11-Sep-2008 A	15-Apr-2010 A	\$16,286,153	\$15,886,313	97.5	\$15,772,316 \$15,734,495
	Status:	The project was completed in 2010 and monitoring activities are ongoing.								

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	Approved	Funded	%	
South Grand Chenier Hydrologic Restoration	MERM	CAMER	414	03-Apr-2002 A	01-Jun-2015 A	01-Mar-2016 *	\$22,623,346	\$22,282,940	98.5	\$20,942,899 \$2,174,141
	Status:	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. A project scope change to remove the freshwater introduction feature and change the name to "South Grand Chenier Marsh Creation", was approved in December 2012. Landrights were finalized in 2012 and construction approval was again received in January 2014. Revised Plans and specifications were completed in April 2015. Permit modifications were received in June 2015. The revised construction date is October-November 2016.								
West Lake Boudreaux Shoreline Protection & Marsh Creation	TERRE	TERRE	277	03-Apr-2002 A	24-Jul-2007 A	04-Apr-2011 A	\$19,449,961	\$17,708,668	91.0	\$15,996,870 \$15,994,946
	Status:	Annual inspection was completed on this project on 4/2016. All project features seem to be in good working condition with the exception of some damage to several signs.								
Total Priority List		11	1,296				\$58,359,460	\$55,877,921	95.7	\$52,712,085 \$33,903,583

- 3 Project(s)
- 3 Cost Sharing Agreements Executed
- 3 Construction Started
- 2 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	Approved	Funded	%	
Little Lake Shoreline Protection/Dedicated Dredging near Round Lake	BARA	LAFOU	713	06-Aug-2002 A	04-Aug-2005 A	30-Mar-2007 A	\$29,516,673	\$23,260,839	78.8	\$21,924,152 \$21,877,167
	Status:	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	\$40,710,723	\$40,128,726	98.6	\$37,607,177 \$37,571,465
	Status:	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.								
Pelican Island and Pass La Mer to Chaland Pass BBI	BARA	PLAQ	334	06-Aug-2002 A	25-Mar-2006 A	28-Nov-2012 A	\$71,170,649	\$70,306,991	98.8	\$69,330,481 \$69,262,047
	Status:	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				\$141,398,046	\$133,696,557	94.6	\$128,861,810 \$128,710,679

- 3 Project(s)
- 3 Cost Sharing Agreements Executed
- 3 Construction Started
- 3 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	Approved	Funded	%	
Barataria Basin Landbridge Shoreline Protection, Ph 4	BARA	JEFF	256	09-May-2002 A	27-Apr-2005 A	26-Apr-2006 A	\$17,709,217	\$13,186,411	74.5	\$7,032,197 \$6,577,211
	Status:	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	\$68,040,614	\$39,075,082	57.4	\$24,948,901 \$24,847,546
	Status:	In the Year 12 (2013-2014) Trapping Season, 388,464 nutria tails were collected. Over the life of the project, an average of 336,677 nutria tails have been collected per year. Over that same period, the estimate of coastwide nutria damage has been reduced from 82,080 acres to 4,181 acres.								
Grand Lake Shoreline Protection	MERM	CAMER	45	20-Sep-2011 A	01-Dec-2016 *	01-Feb-2017 *	\$10,055,616	\$7,075,050	70.4	\$6,776,844 \$999,601
	Status:	Construction contract awarded. Complete construction by July 2017.								
Raccoon Island Shoreline Protection/Marsh Creation	TERRE	TERRE	71	23-Apr-2002 A	13-Dec-2005 A	01-Mar-2013 *	\$23,163,392	\$22,497,353	97.1	\$19,524,175 \$17,605,238
	Status:	Phase A construction began on 12/12/2005 Phase A construction ended on 9/16/2007 Phase B construction began on 9/27/2012 Phase B construction ended on 4/23/2103								
Total Priority List			11				\$118,968,839	\$81,833,896	68.8	\$58,282,117 \$50,029,596

- 4 Project(s)
- 4 Cost Sharing Agreements Executed
- 3 Construction Started
- 2 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	Approved	Funded	%	
Total			23,574				\$327,579,291	\$280,261,320	85.6	\$248,708,959 \$221,496,805

- 12 Project(s)
- 12 Cost Sharing Agreements Executed
- 9 Construction Started
- 7 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 - Lead Agency: DEPT. OF AGRICULTURE (NRCS)

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Approved	Funded	%	
Lead Agency: NRCS, NATURAL RESOURCES CONSERVATION SERVICE										
Priority List 11.1										
Holly Beach Sand Management	CA/SB	CALCA	330	09-May-2002 A	01-Aug-2002 A	31-Mar-2003 A	\$14,130,233	\$14,130,233	100.0	\$13,994,787
	Status:	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.								
<hr/>										
	Total Priority List	11.1	330				\$14,130,233	\$14,130,233	100.0	\$13,994,787

- 1 Project(s)
- 1 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 AGRICULTURE (NRCS)

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Approved	Funded	%	
Total			330				\$14,130,233	\$14,130,233	100.0	\$13,994,787 \$13,994,787

- 1 Project(s)
- 1 Cost Sharing Agreements Executed
- 1 Construction Started
- 1 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

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

Actual

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Approved	Funded	%	
Lead Agency: COE, CORPS OF ENGINEERS										
Priority List 12										
Avoca Island Diversion DEAUTHORIZED	TERRE	STMRY					\$1,736,137	\$1,736,137	100.0	\$1,736,137 \$1,736,137
	Status:	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					\$1,089,193	\$1,089,193	100.0	\$1,089,193 \$1,089,193
	Status:	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					\$354,791	\$354,791	100.0	\$354,791 \$354,791
	Status:	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	\$14,466,981	\$10,563,558	73.0	\$10,476,989 \$10,475,399
	Status:	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)

Actual

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Approved	Funded	%	
Total Priority List		12	844				\$17,647,101	\$13,743,678	77.9	\$13,657,109 \$13,655,519

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

Priority List 12

Bayou Dupont Sediment Delivery System	BARA	PLAQ	326	21-Mar-2004 A	04-Feb-2009 A	03-Jun-2010 A	\$27,702,941	\$27,178,387	98.1	\$23,281,303 \$23,113,288
Status:		Additional post-primary construction activities will not be pursued. Sponsors will be proceeding with construction grant close-out activities.								

Total Priority List		12	326				\$27,702,941	\$27,178,387	98.1	\$23,281,303 \$23,113,288
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- 1 Project(s)
- 1 Cost Sharing Agreements Executed
- 1 Construction Started
- 1 Construction Completed
- 0 Project(s) Deferred/Deauthorized

Priority List 12

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report - Lead Agency: DEPT. OF AGRICULTURE (NRCS)

Actual

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Approved	Funded	%	
Freshwater Floating Marsh Creation Demo COMPLETE	COAST	COAST	0	12-Jun-2003 A	01-Jul-2004 A	01-Jun-2006 A	\$1,068,602	\$1,068,602	100.0	\$1,068,602 \$1,068,602
<p>Status: 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				\$1,068,602	\$1,068,602	100.0	\$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

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	Approved	Funded	%	
Total			1,170				\$46,418,643	\$41,990,666	90.5	\$38,007,014 \$37,837,409

- 6 Project(s)
- 3 Cost Sharing Agreements Executed
- 3 Construction Started
- 3 Construction Completed
- 3 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

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

Actual

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Obligations/ Expenditures
				CSA	Const Start	Const End	Approved	Funded	%	
Lead Agency: COE, CORPS OF ENGINEERS										
Priority List 13										
Shoreline Protection Foundation Improvements Demo	COAST	COAST	0	24-Mar-2005 A	01-Nov-2005 A	29-Aug-2006 A	\$707,839	\$707,839	100.0	\$707,839 \$707,839
	Status:	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					\$310,152	\$310,152	100.0	\$310,152 \$310,152
	Status:	The MR-14 Spanish Pass Diversion project was deauthorized per CWPPRA Task Force decision on 4 June 2013.								
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Total Priority List		13	0				\$1,017,991	\$1,017,991	100.0	\$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 13

Whiskey Island Back Barrier Marsh Creation	TERRE	TERRE	272	29-Sep-2004 A	11-Feb-2009 A	18-Jun-2010 A	\$30,414,086	\$30,164,311	99.2	\$25,934,819 \$25,844,780
	Status:	After further assessment of project vegetation, sponsors intend to pursue an additional vegetation planting event.								

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	Approved	Funded	%	
Total Priority List		13	272				\$30,414,086	\$30,164,311	99.2	\$25,934,819 \$25,844,780

- 1 Project(s)
- 1 Cost Sharing Agreements Executed
- 1 Construction Started
- 1 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	\$14,558,123	\$14,410,203	99.0	\$14,024,196 \$13,999,875
Status:		Surveys of the marsh creation areas were completed in 2014. Site inspections were conducted in 2014 and 2015. An analysis of the surveys will be completed in 2016.								

Total Priority List		13	436				\$14,558,123	\$14,410,203	99.0	\$14,024,196 \$13,999,875
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- 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			\$1,855,824	\$1,855,824	100.0	\$1,855,824 \$1,855,824
Status:		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.								

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	Approved	Funded	%	
Total Priority List		13					\$1,855,824	\$1,855,824	100.0	\$1,855,824 \$1,855,824
1 Project(s) 1 Cost Sharing Agreements Executed 0 Construction Started 0 Construction Completed 1 Project(s) Deferred/Deauthorized										
Total			708				\$47,846,025	\$47,448,330	99.2	\$42,832,830 \$42,718,470
5 Project(s) 4 Cost Sharing Agreements Executed 3 Construction Started 3 Construction Completed 2 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 COMMERCE (NMFS)

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Approved	Funded	%	
Lead Agency: NMFS, NATIONAL MARINE FISHERIES SERVICE										
Priority List 14										
Riverine Sand Mining/Scofield Island Restoration DEAUTHORIZED	BARA	PLAQ		04-Oct-2005 A			\$2,935,025	\$2,935,025	100.0	\$2,935,025 \$2,935,025
	Status:	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							\$2,935,025	\$2,935,025	100.0	\$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 14

East Marsh Island Marsh Creation	TECHE	IBERI	169	04-Oct-2006 A	15-Feb-2010 A	22-Jul-2011 A	\$17,765,813	\$17,291,809	97.3	\$15,522,339 \$15,489,968
	Status:	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	\$19,853,124	91.7	\$17,095,363 \$16,946,148
	Status:	Project was completed on June 6, 2012.								
White Ditch Resurrection and Outfall Management DEAUTHORIZED	BRET	PLAQ		11-Aug-2005 A			\$1,020,420	\$1,020,420	100.0	\$1,020,420 \$1,020,420
	Status:	Project team has agreed to move to deauthorization due to issues regarding location & operation of siphon.								

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	Approved	Funded	%	
	Total Priority List	14	275				\$40,425,806	\$38,165,352	94.4	\$33,638,122 \$33,456,537
	3	Project(s)								
	3	Cost Sharing Agreements Executed								
	2	Construction Started								
	2	Construction Completed								
	1	Project(s) Deferred/Deauthorized								
Total			275				\$43,360,831	\$41,100,377	94.8	\$36,573,147 \$36,391,561
	4	Project(s)								
	4	Cost Sharing Agreements Executed								
	2	Construction Started								
	2	Construction Completed								
	2	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	CSA	Const Start	Const End	Approved	Funded	%	Actual Obligations/ Expenditures
***** SCHEDULES *****										
***** ESTIMATES *****										
Lead Agency: EPA, FISH & WILDLIFE SERVICE										
Priority List 15										
Bayou Lamoque Freshwater Diversion TRANSFER	BRET	PLAQ	620				\$9,510	\$9,510	100.0	\$9,510 \$9,510
Status: CORRECTION: The project was TRANSFERRED to the state by the CWPPRA Task Force on October 25, 2007.										
Venice Ponds Marsh Creation and Crevasses INACTIVE	DELTA	PLAQ	318		19-Jun-2009 A		\$634,027	\$634,027	100.0	\$634,027 \$634,027
Status: 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	938				\$643,537	\$643,537	100.0	\$643,537 \$643,537

- 2 Project(s)
- 1 Cost Sharing Agreements Executed
- 0 Construction Started
- 0 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	19-May-2015 A	\$38,541,252	\$38,089,316	98.8	\$23,424,166 \$23,403,609
Status: The project was completed in 2015. Monitoring activities are ongoing.										

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	Approved	Funded	%	
Total Priority List		15	447				\$38,541,252	\$38,089,316	98.8	\$23,424,166 \$23,403,609

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

Priority List 15

South Pecan Island Freshwater Introduction DEAUTHORIZED	MERM	VERMI		21-Sep-2006 A			\$779,422	\$779,422	100.0	\$779,422 \$779,422
	Status:	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					\$779,422	\$779,422	100.0	\$779,422 \$779,422
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- 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: DEPT. OF COMMERCE (NMFS)

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Approved	Funded	%	
Total			1,385				\$39,964,210	\$39,512,274	98.9	\$24,847,124 \$24,826,567

- 4 Project(s)
- 3 Cost Sharing Agreements Executed
- 1 Construction Started
- 1 Construction Completed
- 1 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

***** SCHEDULES ***** ESTIMATES *****

PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Obligations/ Expenditures
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Lead Agency: COE, CORPS OF ENGINEERS

Priority List 16

Southwest LA Gulf Shoreline Nourish &Protect TRANSFER	MERM	CAMER	888		30-Jun-2017	10-Jul-2018	\$10,657	\$10,657	100.0	\$10,657 \$10,657
	Status:	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.								

Total Priority List	16	888					\$10,657	\$10,657	100.0	\$10,657 \$10,657
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- 1 Project(s)
- 0 Cost Sharing Agreements Executed
- 0 Construction Started
- 0 Construction Completed
- 0 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	\$618,979	\$618,979	100.0	\$618,979 \$618,979
	Status:	A draft final report was received and reviewed, with minimal comments. Subsequently, a final report was completed.								

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	Approved	Funded	%	
Total Priority List		16	0				\$618,979	\$618,979	100.0	\$618,979 \$618,979

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

Priority List 16

Madison Bay Marsh Creation and Terracing INACTIVE	TERRE	TERRE	334	31-May-2007 A	01-Dec-2015 *	01-Jul-2017	\$1,731,039	\$1,731,039	100.0	\$1,731,039 \$1,731,039
Status: 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	\$41,998,365	99.4	\$25,774,206 \$25,724,047
Status: Readjusted description and changed construction completion date based on plantings date to fit with O&M plan.										
Total Priority List		16	639				\$43,981,456	\$43,729,404	99.4	\$27,505,245 \$27,455,087

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

Priority List 16

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	Approved	Funded	%	
Alligator Bend Marsh Restoration and Shoreline Protection (Inactive)	PONT	ORL	181	11-Jun-2008 A			\$1,364,230	\$1,364,230	100.0	\$1,364,230
	Status:	Project has been placed on Inactive list until CWPPRA is reauthorized, receives further funding, or another program is found that can provided construction funding.								
Total Priority List		16	181				\$1,364,230	\$1,364,230	100.0	\$1,364,230

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

Total			1,708				\$45,975,322	\$45,723,270	99.5	\$29,499,111 \$29,448,953
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- 5 Project(s)
- 4 Cost Sharing Agreements Executed
- 2 Construction Started
- 2 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 - Lead Agency: ENVIRONMENTAL PROTECTION AGENCY (EPA)

PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Actual Obligations/ Expenditures	
***** SCHEDULES *****											
***** ESTIMATES *****											
Lead Agency: EPA, FISH & WILDLIFE SERVICE											
Priority List 17											
Bohemia Mississippi River Reintroduction DEAUTHORIZED	BRET	PLAQ		16-Jul-2008 A			\$502,592	\$502,592	100.0	\$502,592 \$502,592	
	Status:	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	\$502,592	\$502,592	100.0	\$502,592 \$502,592

- 1 Project(s)
- 1 Cost Sharing Agreements Executed
- 0 Construction Started
- 0 Construction Completed
- 1 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 *	\$32,663,173	\$32,295,816	98.9	\$31,497,449 \$20,818,199
	Status:	Currently this project is under construction with most of the lake shoreline restoration nearly completed on the southern shoreline. The western shoreline restoration feature is currently underway. There is one marsh creation cell that is nearly completed. A larger dredge will be arriving soon and marsh creation will accelerate.								

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	Approved	Funded	%	
Total Priority List		17	409				\$32,663,173	\$32,295,816	98.9	\$31,497,449 \$20,818,199
1 Project(s) 1 Cost Sharing Agreements Executed 0 Construction Started 0 Construction Completed 0 Project(s) Deferred/Deauthorized										
Priority List 17										
Bayou Dupont Ridge Creation & Marsh Restoration	BARA	JEFF	186	17-Jul-2008 A	21-Apr-2014 *	30-Sep-2015 *	\$38,985,192	\$38,222,873	98.0	\$36,675,330 \$33,917,045
Status:		Major construction activities are complete. The marsh platform and ridge have been constructed and the containment dikes have been gapped. Ridge plantings are currently being planned.								
Bio-Engineered Oyster Reef DEMO	MERM	MULTI	0		02-Aug-2011 A	17-Feb-2014 A	\$2,244,785	\$2,244,785	100.0	\$2,072,759 \$2,061,275
Status:		Project construction was completed in early February 2012. Biological and structural monitoring are underway.								
Total Priority List		17	186				\$41,229,977	\$40,467,658	98.2	\$38,748,089 \$35,978,320

- 2 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: DEPT. OF AGRICULTURE (NRCS)

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Approved	Funded	%	
Sediment Containment System for Marsh Creation Demo	COAST	COAST	0	28-Jan-2008 A	08-Jan-2013 A	11-Sep-2013 A	\$970,726	\$970,726	100.0	\$883,702 \$883,702
	Status:	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 DEAUTHORIZED	BARA	PLAQ		24-Jan-2008 A			\$1,620,740	\$1,620,740	100.0	\$617,876 \$617,876
	Status:	The Lake Hermitage Marsh Creation Project(BA-42)received supplemental funding and was able to expand their project area into the BA-47 footprint and cover most of what was intended to be built under this project. Therefore, the BA-47 will move to deauthorization and all remaining funds from Phase I will be returned to the CWPPRA program.								
Total Priority List		17	0				\$2,591,466	\$2,591,466	100.0	\$1,501,577 \$1,501,577

- 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: DEPT. OF AGRICULTURE (NRCS)

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Approved	Funded	%	
Total			595				\$76,987,208	\$75,857,532	98.5	\$72,249,708 \$58,800,689

- 6 Project(s)
- 5 Cost Sharing Agreements Executed
- 2 Construction Started
- 2 Construction Completed
- 2 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	CSA	Const Start	Const End	Approved	Funded	%	Actual Obligations/ Expenditures
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Lead Agency: EPA, NATIONAL MARINE FISHERIES SERVICE

Priority List 18

Bertrandville Siphon DEAUTHORIZED	BRET	PLAQ		15-Jun-2011 A			\$554,376	\$554,376	100.0	\$554,376 \$554,376	
Status: Project delays due to considerations of State Master Plan consistency and pursuit of landowner support.											
Total Priority List							18	\$554,376	\$554,376	100.0	\$554,376 \$554,376

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

Priority List 18

Grand Liard Marsh and Ridge Restoration	BARA	PLAQ	370		01-Jul-2014 A	01-Oct-2015 A	\$42,579,616	\$42,138,670	99.0	\$38,383,585 \$31,978,871		
Status:												
Total Priority List							18	370	\$42,579,616	\$42,138,670	99.0	\$38,383,585 \$31,978,871

- 1 Project(s)
- 0 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 AGRICULTURE (NRCS)

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Approved	Funded	%	
Priority List 18										
Cameron-Creole Freshwater Introduction	CA/SB	CAMER	242	04-May-2009 A	04-Apr-2012 A	01-Jul-2016 *	\$2,761,501	\$2,604,603	94.3	\$1,944,220 \$1,825,899
	Status:	Milestones shown above are for the vegetative component of the project only. Federal Sponsor does not have access to change the information relative to the structural components. Scheduled Dates: Phase II approval January 2018; Contracting April 2018; Construction Start September 2018								
Central Terrebonne Freshwater Enhancement TRANSFER	TERRE	TERRE	233	04-May-2009 A	01-Sep-2017	01-Jul-2018	\$2,326,289	\$2,326,289	100.0	\$1,883,179 \$1,255,246
	Status:	Project features are being incorporated into the Restore Act Project: Bayou Dularge Ridge, Marsh, and Hydrologic Restoration.								

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	Approved	Funded	%	
Non-Rock Alternatives to Shoreline Protection Demo	COAST	COAST	0	04-May-2009 A	27-May-2013 *	24-Apr-2017 *	\$6,472,800	\$6,472,800	100.0	\$5,968,963 \$4,380,291
Status: 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	Approved	Funded	%	
Total			845				\$54,694,582	\$54,096,738	98.9	\$48,734,324 \$39,994,683

- 5 Project(s)
- 4 Cost Sharing Agreements Executed
- 2 Construction Started
- 1 Construction Completed
- 1 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	Approved	Funded	%	

Lead Agency: FWS, FISH & WILDLIFE SERVICE

Priority List 19

Lost Lake Marsh Creation and Hydrologic Restoration	TERRE	TERRE	452	22-Apr-2010 A	01-Aug-2016 *	31-Oct-2017	\$35,125,857	\$31,531,382	89.8	\$1,364,844 \$1,289,099
Status: A construction contract has been awarded to Weeks Marine. Construction is estimated to begin in January 2017.										
Total Priority List		19	452				\$35,125,857	\$31,531,382	89.8	\$1,364,844 \$1,289,099

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

Priority List 19

Chenier Ronquille Barrier Island Restoration DEAUTHORIZED	BARA	PLAQ		18-Aug-2010 A			\$1,042,540	\$1,042,540	100.0	\$1,042,540 \$1,042,540
Status: Project was deauthorized as a CWPPRA project as it was successfully included as a Phase III Early Restoration Project for the Deepwater Horizon Oil Spill.										

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	Approved	Funded	%	
Total Priority List		19					\$1,042,540	\$1,042,540	100.0	\$1,042,540 \$1,042,540

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

Priority List 19

Freshwater Bayou Marsh Creation	MERM	VERMI	279	01-Apr-2010 A	01-Jul-2018	01-Aug-2019	\$2,425,997	\$2,425,997	100.0	\$2,142,502 \$1,298,081
Status: Milestones shown above are not correct. Federal Sponsor does not have access to change the information.										
Scheduled Dates: 30% Review May 2016 95% Review August 2016 Contracting April 2017 Construction Start September 2017										
LaBranche East Marsh Creation	PONT	STCHA	715	01-Apr-2010 A	01-Sep-2018	01-Sep-2019	\$2,571,273	\$2,571,273	100.0	\$2,288,068 \$2,234,062
Status: Milestones shown above are not correct. Federal Sponsor does not have access to change the information.										
Scheduled Dates: 30% Review May 2016 95% Review August 2016 Contracting April 2017 Construction Start September 2017										

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	Approved	Funded	%	
	Total Priority List	19	994				\$4,997,270	\$4,997,270	100.0	\$4,430,570 \$3,532,143
	2 Project(s)									
	2 Cost Sharing Agreements Executed									
	0 Construction Started									
	0 Construction Completed									
	0 Project(s) Deferred/Deauthorized									
Total			1,446				\$41,165,667	\$37,571,192	91.3	\$6,837,954 \$5,863,783
	4 Project(s)									
	4 Cost Sharing Agreements Executed									
	0 Construction Started									
	0 Construction Completed									
	1 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	Approved	Funded	%	
Lead Agency: FWS, FISH & WILDLIFE SERVICE										
Priority List 20										
Bayou Bonfouca Marsh Creation	PONT	S TTAM	478	14-Mar-2011 A	05-Sep-2016 A	18-Jul-2017	\$28,253,969	\$27,648,895	97.9	\$1,666,350 \$1,555,909
	Status:	The construction of the earthen containment dikes have been completed including the containment dikes built for the marsh ponds. Dewatering structures have also been installed along the exterior containment dikes and the marsh pond containment dikes. Concrete articulating mats have been installed across the lakeside containment dike along marsh creation site 1. Settlement plates have also been installed within the marsh creation sites. A 30'' hydraulic dredge is scheduled to be on site in the first week of March, at which time dredging should begin.								
Cameron-Creole Watershed Grand Bayou Marsh Creation	CA/SB	CAMER	476	24-Oct-2011 A			\$28,707,688	\$28,122,302	98.0	\$1,005,693 \$899,880
	Status:	95% Design completed in 2013. Phase 2 funds requested in Dec. 2013 was not awarded. Requesting Phase 2 Construction funds on 12/11/2014.								
Terrebonne Bay Marsh Creation-Nourishment DEAUTHORIZED	TERRE	TERRE					\$2,901,750	\$2,901,750	100.0	\$778,895 \$778,895
	Status:	This project has been put on hold and no work is currently being done on the project.								
Total Priority List			20	954			\$59,863,407	\$58,672,947	98.0	\$3,450,938 \$3,234,685

- 3 Project(s)
- 2 Cost Sharing Agreements Executed
- 1 Construction Started
- 0 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	Approved	Funded	%	
Coastwide Vegetative Planting	COAST	COAST	779	20-Sep-2011 A	27-Jul-2012 A	01-Jun-2013 *	\$12,689,725	\$10,816,073	85.2	\$9,688,649
	Status:	Since June 2016 update: Decade Area (Terrebonne Par) completed. South Bayou Decade (Terrebonne Par), Gentilly Unit (Orleans Par); and West Little Lake # 2 (Lafourche Par) awarded.								\$2,992,420
Kelso Bayou Marsh Creation TRANSFER	CA/SB	CAMER	274	20-Sep-2011 A	01-Sep-2014 *	01-Sep-2018	\$2,360,609	\$2,360,609	100.0	\$2,012,183
	Status:	Milestones shown above are not correct. Federal Sponsor does not have access to change the information.								\$1,218,781
Total Priority List				20	1,053		\$15,050,334	\$13,176,682	87.6	\$11,700,832
										\$4,211,201

Scheduled Dates:
 30% Review May 2016
 95% Review August 2016
 Contracting April 2017
 Construction Start September 2017

- 2 Project(s)
- 2 Cost Sharing Agreements Executed
- 1 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	Approved	Funded	%	
Total			2,007				\$74,913,741	\$71,849,629	95.9	\$15,151,771 \$7,445,886

- 5 Project(s)
- 4 Cost Sharing Agreements Executed
- 2 Construction Started
- 0 Construction Completed
- 1 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	Approved	Funded	%	

Lead Agency: FWS, FISH & WILDLIFE SERVICE

Priority List 21

Turtle Bay Marsh Creation	BARA	JEFF	432	10-May-2012 A	01-Oct-2017	01-Oct-2018	\$33,664,671	\$32,607,095	96.9	\$943,095 \$905,444	
Status: A 95% design review meeting was held in October 2016. A request for Phase 2 construction funds will take place in December 2016.											
Total Priority List			21	432				\$33,664,671	\$32,607,095	96.9	\$943,095 \$905,444

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

Priority List 21

Coles Bayou Marsh Restoration	TECHE	VERMI	340				\$25,635,641	\$24,169,491	94.3	\$21,377,604 \$1,783,466
Status: Project is on course for a phase 2 (construction) request in December 2015.										
Oyster Bayou Marsh Restoration	CA/SB	CAMER	433	05-Feb-2013 A	01-Sep-2015 *	15-Oct-2016 *	\$31,236,742	\$30,722,420	98.4	\$28,307,434 \$1,852,343
Status: NMFS intends to seek Phase 2 authorization in December 2014.										

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	Approved	Funded	%	
Total Priority List		21	773				\$56,872,383	\$54,891,911	96.5	\$49,685,038 \$3,635,809

- 2 Project(s)
- 1 Cost Sharing Agreements Executed
- 0 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-2018	01-Sep-2019	\$3,885,298	\$3,885,298	100.0	\$3,633,801 \$1,590,004
Status: Milestones shown above are not correct. Federal Sponsor does not have access to change the information.										
Scheduled Dates: 30% Review May 2016 95% Review August 2016 Contracting April 2017 Construction Start September 2017										

Total Priority List		21	731				\$3,885,298	\$3,885,298	100.0	\$3,633,801 \$1,590,004
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- 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 AGRICULTURE (NRCS)

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Approved	Funded	%	
Total			1,936				\$94,422,352	\$91,384,304	96.8	\$54,261,935 \$6,131,257

- 4 Project(s)
- 3 Cost Sharing Agreements Executed
- 0 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 - Lead Agency: ENVIRONMENTAL PROTECTION AGENCY (EPA)

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

Lead Agency: EPA, FISH & WILDLIFE SERVICE

Priority List 22

Bayou Dupont Sediment Delivery-Marsh Creation 3	BARA	PLAQ	118	23-Aug-2013 A	01-Feb-2016 *		\$18,119,679	\$17,638,184	97.3	\$15,735,074 \$589,160
Status: Phase 2 was approved at the May 14, 2015 Task Force meeting based on a reduced scope to fit available CWPPRA funding. Phase 2 grant was awarded on December 7, 2015.										

	Total Priority List	22	118				\$18,119,679	\$17,638,184	97.3	\$15,735,074 \$589,160
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- 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	314	31-Oct-2013 A			\$2,308,599	\$2,308,599	100.0	\$1,384,270 \$1,141,029
Status: Phase II Funding will be requested at the December 2016 Technical Committee Meeting.										

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	Approved	Funded	%	
Total Priority List		22	314				\$2,308,599	\$2,308,599	100.0	\$1,384,270 \$1,141,029

- 1 Project(s)
- 1 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	326				\$38,499,572	\$37,503,664	97.4	\$2,972,073 \$2,076,101
		Status:								
Total Priority List		22	326				\$38,499,572	\$37,503,664	97.4	\$2,972,073 \$2,076,101

- 1 Project(s)
- 0 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	11-Oct-2013 A		21-Jan-2018	\$3,216,194	\$3,216,194	100.0	\$2,589,666 \$375,450
		Status:	Project E&D has begun. Magnetometer surveys took place from November 2013 to August 2014. Final mag survey report scheduled to be delivered to project team in November 2014. Geotechnical Investigation permit is being sent to Corps of Engineers in December 2014. Current response time for permits is average of 6-9 months. Design is anticipated to begin in June 2015.							

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	Approved	Funded	%	
	Total Priority List	22	401				\$3,216,194	\$3,216,194	100.0	\$2,589,666 \$375,450
	1 Project(s)									
	1 Cost Sharing Agreements Executed									
	0 Construction Started									
	0 Construction Completed									
	0 Project(s) Deferred/Deauthorized									
Total			1,159				\$62,144,044	\$60,666,641	97.6	\$22,681,083 \$4,181,739
	4 Project(s)									
	3 Cost Sharing Agreements Executed									
	0 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 - Lead Agency: ENVIRONMENTAL PROTECTION AGENCY (EPA)

PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Actual Obligations/ Expenditures
Lead Agency: EPA, FISH & WILDLIFE SERVICE										
Priority List 23										
Caminada Headlands Back Barrier Marsh Creation	BARA		165				\$3,354,935	\$3,354,935	100.0	\$3,019,442 \$577,645
		Status:								
Total Priority List		23	165				\$3,354,935	\$3,354,935	100.0	\$3,019,442 \$577,645

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

Priority List 23										
Bayou Grande Cheniere Marsh & Ridge Restoration	BARA		237	23-Jan-2015 A			\$2,742,302	\$2,742,302	100.0	\$165,176 \$35,265
		Status: Phase II Approval will be requested at the December 2016 Technical Committee Meeting & subsequent January 2017 Task Force Meeting.								

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	Approved	Funded	%	
Total Priority List		23	237				\$2,742,302	\$2,742,302	100.0	\$165,176 \$35,265

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

Priority List 23

Island Road Marsh Creation & Nourishment	TERRE		312	01-Jul-2014 *			\$3,721,447	\$3,721,447	100.0	\$3,377,428 \$306,360
Status:										

Total Priority List		23	312				\$3,721,447	\$3,721,447	100.0	\$3,377,428 \$306,360
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- 1 Project(s)
- 0 Cost Sharing Agreements Executed
- 0 Construction Started
- 0 Construction Completed
- 0 Project(s) Deferred/Deauthorized

Priority List 23

South Grand Chenier Marsh Creation – Baker Tract	MERM	CAMER	393	30-Jun-2015 *	30-Nov-2017	30-Nov-2018	\$2,653,242	\$2,653,242	100.0	\$1,788,091 \$221,756
Status:		Project design is on hold due to difficulty in obtaining landrights.								

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	Approved	Funded	%	
	Total Priority List	23	393				\$2,653,242	\$2,653,242	100.0	\$1,788,091 \$221,756
	1 Project(s)									
	0 Cost Sharing Agreements Executed									
	0 Construction Started									
	0 Construction Completed									
	0 Project(s) Deferred/Deauthorized									
Total			1,107				\$12,471,926	\$12,471,926	100.0	\$8,350,137 \$1,141,026
	4 Project(s)									
	1 Cost Sharing Agreements Executed									
	0 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 - Lead Agency: ENVIRONMENTAL PROTECTION AGENCY (EPA)

PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Actual Obligations/ Expenditures
***** SCHEDULES *****										
***** ESTIMATES *****										
Lead Agency: EPA, FISH & WILDLIFE SERVICE										
Priority List 24										
Shell Beach South Marsh Creation	PONT	STBER	344	22-Jul-2015 A		30-Sep-2019	\$3,176,569	\$3,176,569	100.0	\$846,983 \$57,975
	Status: TF Approved Phase 1 on 1/22/15.									
	Grant awarded to the CPRA for Phase 1 on 7/22/15.									
	MOA between EPA/USACE signed by Colonel Hansen on 9/25/15.									
	Phase 1 Kickoff meeting held at USACE offices on 10/20/15.									

	Total Priority List	24	344				\$3,176,569	\$3,176,569	100.0	\$846,983 \$57,975

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

Priority List 24										
New Orleans Landbridge Shoreline & Marsh Creation	PONT	ORL	167				\$1,942,143	\$1,942,143	100.0	\$156,912 \$11,165
	Status:									

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	Approved	Funded	%	
Total Priority List		24	167				\$1,942,143	\$1,942,143	100.0	\$156,912 \$11,165

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

Priority List 24

No Name Bayou Marsh Creation & Nourishment	CA/SB	CAMER	497				\$2,724,524	\$2,724,524	100.0	\$2,454,070 \$163,383
Status:		Approved for Phase I Engineering and Design in January 2015								
West Fourchon Marsh Creation & Marsh Nourishment	TERRE	LAFOU	304				\$3,201,929	\$3,201,929	100.0	\$2,881,735 \$9,332
Status:										
Total Priority List		24	801				\$5,926,453	\$5,926,453	100.0	\$5,335,805 \$172,715

- 2 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	Approved	Funded	%	
Total			1,312				\$11,045,165	\$11,045,165	100.0	\$6,339,700 \$241,855

- 4 Project(s)
- 1 Cost Sharing Agreements Executed
- 0 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

Project Status Summary Report - Lead Agency: (EPA)

Actual

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

Lead Agency: EPA, NATIONAL MARINE FISHERIES SERVICE

Priority List 25

Caminada Headlands Back Barrier Marsh Creation II	BARA	LAFOU	207				\$3,034,310	\$3,034,310	100.0	\$0
	Status:									\$0
Total Priority List			25	207			\$3,034,310	\$3,034,310	100.0	\$0

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

Priority List 25

East Leeville Marsh Creation and Nourishment	BARA	LAFOU	322				\$4,026,090	\$4,026,090	100.0	\$0
	Status:									\$0
Frichie Marsh Creation and Terracing	PONT	STTAM	290				\$3,033,294	\$3,033,294	100.0	\$0
	Status:									\$0
Oyster Lake Marsh Creation and Nourishment	CA/SB	CAMER	438				\$3,608,939	\$3,608,939	100.0	\$0
	Status:									\$0

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	Approved	Funded	%	
Shoreline Protection, Preservation, and Restoration Panel (DEMO)	COAST	COAST					\$2,215,514	\$2,215,514	100.0	\$0
	Status:									\$0
Total Priority List		25	1,050				\$12,883,837	\$12,883,837	100.0	\$0

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

Priority List 25

Barataria Bay Rim Marsh Creation	BARA	JEFF	251	25-Jul-2017 A	01-Nov-2019	01-Nov-2020	\$2,693,708	\$2,693,708	100.0	\$2,012,834
	Status:									\$49
Total Priority List		25	251				\$2,693,708	\$2,693,708	100.0	\$2,012,834

- 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 AGRICULTURE (NRCS)

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			Actual Obligations/ Expenditures
				CSA	Const Start	Const End	Approved	Funded	%	
Total			1,508				\$18,611,855	\$18,611,855	100.0	\$2,012,834 \$49

- 6 Project(s)
- 1 Cost Sharing Agreements Executed
- 0 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

PROJECT	BASIN	PARISH	ACRES	***** SCHEDULES *****			***** ESTIMATES *****			
				CSA	Const Start	Const End	Approved	Funded	%	
Lead Agency: NMFS, FISH & WILDLIFE SERVICE										
Priority List 26										
Bayou LaLoutre Ridge and Marsh Creation	PT/BR	STBER	187				\$3,236,952	\$3,236,952	100.0	\$0
	Status:									
Salvinia Weevil Propagation Facility	COAST	COAST	26				\$3,802,748	\$934,567	24.6	\$0
	Status:									
St. Catherine Island Marsh Creation & Shoreline Protection	PONT	STTAM	214				\$2,389,308	\$2,389,308	100.0	\$0
	Status:									
Total Priority List			26	427			\$9,429,008	\$6,560,827	69.6	\$0

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

Priority List 26										
Bayou DeCade Ridge and Marsh Creation	TERRE	TERRE	378				\$3,282,292	\$3,282,292	100.0	\$0
	Status:									

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	Approved	Funded	%	
Total Priority List		26	378				\$3,282,292	\$3,282,292	100.0	\$0 \$0
1 Project(s) 0 Cost Sharing Agreements Executed 0 Construction Started 0 Construction Completed 0 Project(s) Deferred/Deauthorized										
Total			805				\$12,711,300	\$9,843,119	77.4	\$0 \$0
4 Project(s) 0 Cost Sharing Agreements Executed 0 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

Project Status Summary Report - Total All Priority Lists

PROJECT	ACRES	***** ESTIMATES *****			Obligations	Expenditures	
		Baseline	Current	%			
SUMMARY	Total All Projects	115,669	\$1,835,893,802	\$1,718,884,286	93.6	\$1,286,329,728	\$1,088,317,144

214 Project(s)

174 Cost Sharing Agreements Executed

17 Construction Started

106 Construction Completed

60 Project(s) Deauthorized/Transfer/Inactive

Total Available Funds

Federal Funds \$1,403,263,124

Non/Federal Funds \$252,341,229

Total Funds \$1,655,604,353

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
Basin: Atchafalaya									
Priority List: 2	2	3,792	2	2	2	0	\$9,458,771	\$9,458,771	\$8,843,039
Priority List: 9	1		1	0	0	1	\$1,717,883	\$1,717,883	\$1,717,883
Basin Total	3	3,792	3	2	2	1	\$11,176,653	\$11,176,653	\$10,560,921

Project Status Summary Report by Basin

	No. of Projects	Acres	CSA Executed	Under Const.	Completed	Projects Deauth.	Baseline Estimate	Current Estimate	Expenditures To Date
Basin: Barataria									
Priority List:	1	3	620	3	3	0	\$14,124,565	\$14,011,378	\$11,643,780
Priority List:	2	1	510	1	1	0	\$28,896,380	\$28,896,380	\$22,677,903
Priority List:	3	3	0	3	1	2	\$8,193,261	\$7,092,040	\$3,991,376
Priority List:	4	2	232	2	1	1	\$3,740,239	\$3,738,748	\$3,185,149
Priority List:	5	2	633	2	1	1	\$2,767,867	\$2,737,063	\$2,449,324
Priority List:	6	1	217	1	1	0	\$5,224,477	\$5,224,477	\$4,774,945
Priority List:	7	2	1,431	2	2	0	\$28,198,689	\$28,198,689	\$26,768,501
Priority List:	9	3	599	3	1	1	\$48,693,594	\$39,702,696	\$12,781,407
Priority List:	10	2	8,891	1	0	0	\$10,430,029	\$7,763,773	\$4,010,587
Priority List:	11	5	2,171	5	5	0	\$175,393,415	\$162,769,280	\$151,022,386
Priority List:	12	1	326	1	1	0	\$27,702,941	\$27,178,387	\$23,113,288
Priority List:	14	2	106	2	1	1	\$24,574,599	\$22,788,149	\$19,881,173
Priority List:	15	1	447	1	1	0	\$38,541,252	\$38,089,316	\$23,403,609
Priority List:	17	2	186	2	0	0	\$40,605,932	\$39,843,613	\$34,534,921
Priority List:	18	1	370	0	1	0	\$42,579,616	\$42,138,670	\$31,978,871
Priority List:	19	1		1	0	1	\$1,042,540	\$1,042,540	\$1,042,540
Priority List:	21	1	432	1	0	0	\$33,664,671	\$32,607,095	\$905,444
Priority List:	22	2	432	2	0	0	\$20,428,278	\$19,946,783	\$1,730,189
Priority List:	23	2	402	1	0	0	\$6,097,237	\$6,097,237	\$612,911
Priority List:	25	3	780	1	0	0	\$9,754,108	\$9,754,108	\$49
Basin Total	40	18,785	35	20	19	8	\$570,653,689	\$539,620,421	\$380,508,351

Project Status Summary Report by Basin

	No. of Projects	Acres	CSA Executed	Under Const.	Completed	Projects Deauth.	Baseline Estimate	Current Estimate	Expenditures To Date	
Basin: Breton Sound										
Priority List:	2	1	802	1	1	1	0	\$4,536,000	\$4,536,000	\$3,975,900
Priority List:	3	1		1	0	0	1	\$32,862	\$32,862	\$32,862
Priority List:	4	1		0	0	0	1	\$65,747	\$65,747	\$65,747
Priority List:	8	1		0	0	0	1	\$56,476	\$56,476	\$56,476
Priority List:	10	2	267	1	1	1	1	\$3,918,368	\$3,478,720	\$2,960,811
Priority List:	14	1		1	0	0	1	\$1,020,420	\$1,020,420	\$1,020,420
Priority List:	15	1	620	0	0	0	0	\$9,510	\$9,510	\$9,510
Priority List:	17	2	409	2	0	0	1	\$33,165,765	\$32,798,408	\$21,320,791
Priority List:	18	1		1	0	0	1	\$554,376	\$554,376	\$554,376
Basin Total	11	2,098	7	2	2	7	\$43,359,524	\$42,552,519	\$29,996,893	

Project Status Summary Report by Basin

	No. of Projects	Acres	CSA Executed	Under Const.	Completed	Projects Deauth.	Baseline Estimate	Current Estimate	Expenditures To Date
Basin: Calcasieu/Sabine									
Priority List: 1	3	6,407	3	3	3	0	\$3,988,112	\$3,043,576	\$2,703,237
Priority List: 2	4	2,737	4	3	3	1	\$11,988,273	\$11,988,273	\$10,381,655
Priority List: 3	2	3,555	2	2	2	0	\$18,073,408	\$11,049,731	\$8,071,199
Priority List: 4	3	1,203	3	2	2	1	\$2,869,451	\$2,869,451	\$2,464,918
Priority List: 5	1	247	1	1	1	0	\$3,929,152	\$3,929,152	\$3,435,411
Priority List: 6	1	3,594	1	1	1	0	\$12,698,222	\$12,423,864	\$6,021,642
Priority List: 8	4	993	4	3	3	0	\$31,595,527	\$30,964,992	\$23,127,295
Priority List: 9	2	623	2	2	2	0	\$19,103,768	\$18,339,593	\$16,535,958
Priority List: 10	1	225	1	1	1	0	\$6,049,990	\$4,944,870	\$4,715,159
Priority List: 11.1	1	330	1	1	1	0	\$14,130,233	\$14,130,233	\$13,994,787
Priority List: 18	1	242	1	1	0	0	\$2,761,501	\$2,604,603	\$1,825,899
Priority List: 20	2	750	2	0	0	0	\$31,068,297	\$30,482,911	\$2,118,661
Priority List: 21	1	433	1	0	0	0	\$31,236,742	\$30,722,420	\$1,852,343
Priority List: 22	1	326	0	0	0	0	\$38,499,572	\$37,503,664	\$2,076,101
Priority List: 24	1	497	0	0	0	0	\$2,724,524	\$2,724,524	\$163,383
Priority List: 25	1	438	0	0	0	0	\$3,608,939	\$3,608,939	\$0
Basin Total	29	22,600	26	20	19	2	\$234,325,710	\$221,330,795	\$99,487,651

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
Basin: Coastal Basins										
Priority List:	Cons Plan	1		1	1	1	0	\$191,807	\$191,807	\$143,855
Priority List:	0.1	1		1	1	0	0	\$114,607,082	\$114,607,082	\$65,794,766
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	\$1,243,694	\$1,243,694	\$226,656
Priority List:	6	1	0	1	1	1	0	\$806,220	\$806,220	\$806,220
Priority List:	9	1		0	0	0	1	\$83,556	\$83,556	\$83,556
Priority List:	10	1	0	1	1	1	0	\$2,747,094	\$2,747,094	\$2,607,770
Priority List:	11	1	14,963	1	1	1	0	\$68,040,614	\$39,075,082	\$24,847,546
Priority List:	12	1	0	1	1	1	0	\$1,068,602	\$1,068,602	\$1,068,602
Priority List:	13	1	0	1	1	1	0	\$707,839	\$707,839	\$707,839
Priority List:	16	1	0	1	1	1	0	\$618,979	\$618,979	\$618,979
Priority List:	17	1	0	1	1	1	0	\$970,726	\$970,726	\$883,702
Priority List:	18	1	0	1	0	0	0	\$6,472,800	\$6,472,800	\$4,380,291
Priority List:	20	1	779	1	1	0	0	\$12,689,725	\$10,816,073	\$2,992,420
Priority List:	25	1		0	0	0	0	\$2,215,514	\$2,215,514	\$0
Priority List:	26	1	26	0	0	0	0	\$3,802,748	\$934,567	\$0
Basin Total		17	15,768	14	12	8	1	\$218,336,586	\$184,629,221	\$106,254,963

Project Status Summary Report by Basin

	No. of Projects	Acres	CSA Executed	Under Const.	Completed	Projects Deauth.	Baseline Estimate	Current Estimate	Expenditures To Date	
Basin: Miss. River Delta										
Priority List:	1	1	9,831	1	1	1	0	\$50,863,503	\$50,863,503	\$44,031,348
Priority List:	3	2	936	1	1	1	1	\$1,004,105	\$1,004,105	\$879,098
Priority List:	4	1		1	0	0	1	\$58,310	\$58,310	\$58,310
Priority List:	6	2	2,386	2	2	2	0	\$6,632,965	\$6,632,965	\$5,006,325
Priority List:	10	1		0	0	0	1	\$978,100	\$978,100	\$978,100
Priority List:	12	1		0	0	0	1	\$354,791	\$354,791	\$354,791
Priority List:	13	1		0	0	0	1	\$310,152	\$310,152	\$310,152
Priority List:	15	1	318	1	0	0	0	\$634,027	\$634,027	\$634,027
Basin Total	10	13,471	6	4	4	5	\$60,835,953	\$60,835,953	\$52,252,151	

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
Basin: Mermentau									
Priority List: 1	2	247	2	2	1	1	\$1,319,270	\$1,319,270	\$1,153,804
Priority List: 2	1	1,593	1	1	1	0	\$6,059,651	\$6,047,554	\$3,506,642
Priority List: 3	1		1	1	0	1	\$103,468	\$103,468	\$103,468
Priority List: 5	1	511	1	1	1	0	\$8,913,366	\$5,533,088	\$2,633,621
Priority List: 7	1	442	1	1	1	0	\$2,390,984	\$2,390,984	\$2,333,561
Priority List: 8	1	378	1	1	1	0	\$1,574,926	\$1,574,926	\$1,177,231
Priority List: 9	2	296	2	1	1	1	\$7,646,218	\$6,608,683	\$6,375,892
Priority List: 10	2	469	2	1	1	0	\$42,914,856	\$38,151,942	\$5,625,576
Priority List: 11	2	459	2	1	0	0	\$32,678,962	\$29,357,990	\$3,173,742
Priority List: 12	1	844	1	1	1	0	\$14,466,981	\$10,563,558	\$10,475,399
Priority List: 15	1		1	0	0	1	\$779,422	\$779,422	\$779,422
Priority List: 16	1	888	0	0	0	0	\$10,657	\$10,657	\$10,657
Priority List: 17	1	0	0	1	1	0	\$2,244,785	\$2,244,785	\$2,061,275
Priority List: 19	1	279	1	0	0	0	\$2,425,997	\$2,425,997	\$1,298,081
Priority List: 23	1	393	0	0	0	0	\$2,653,242	\$2,653,242	\$221,756
Basin Total	19	6,799	16	12	9	4	\$126,182,786	\$109,765,567	\$40,930,127

Project Status Summary Report by Basin

	No. of Projects	Acres	CSA Executed	Under Const.	Completed	Projects Deauth.	Baseline Estimate	Current Estimate	Expenditures To Date	
Basin: Pontchartrain										
Priority List:	1	2	1,753	2	2	2	0	\$5,398,108	\$5,398,108	\$5,137,820
Priority List:	2	2	2,320	2	2	2	0	\$3,894,225	\$3,894,225	\$3,304,386
Priority List:	3	3	755	3	1	1	2	\$967,201	\$967,201	\$967,201
Priority List:	4	1		0	0	0	1	\$39,025	\$39,025	\$39,025
Priority List:	5	1	75	1	1	1	0	\$2,589,403	\$2,589,403	\$2,317,688
Priority List:	8	2	134	2	1	1	1	\$2,493,439	\$2,493,439	\$2,161,546
Priority List:	9	3	220	2	1	1	2	\$1,230,695	\$1,230,695	\$1,230,695
Priority List:	10	1	165	1	1	1	0	\$27,520,808	\$27,265,513	\$20,346,825
Priority List:	11	1	5,438	1	0	0	0	\$6,554,124	\$6,554,124	\$6,554,124
Priority List:	12	1		0	0	0	1	\$1,089,193	\$1,089,193	\$1,089,193
Priority List:	13	1	436	1	1	1	0	\$14,558,123	\$14,410,203	\$13,999,875
Priority List:	16	1	181	1	0	0	0	\$1,364,230	\$1,364,230	\$1,364,230
Priority List:	19	1	715	1	0	0	0	\$2,571,273	\$2,571,273	\$2,234,062
Priority List:	20	1	478	1	1	0	0	\$28,253,969	\$27,648,895	\$1,555,909
Priority List:	21	1	731	1	0	0	0	\$3,885,298	\$3,885,298	\$1,590,004
Priority List:	24	2	511	1	0	0	0	\$5,118,712	\$5,118,712	\$69,140
Priority List:	25	1	290	0	0	0	0	\$3,033,294	\$3,033,294	\$0
Priority List:	26	1	214	0	0	0	0	\$2,389,308	\$2,389,308	\$0
Basin Total	26	14,416	20	11	10	7	\$112,950,429	\$111,942,140	\$63,961,723	
Basin: Lake Pont. & Breton										
Priority List:	26	1	187	0	0	0	0	\$3,236,952	\$3,236,952	\$0
Basin Total	1	187	0	0	0	0	\$3,236,952	\$3,236,952	\$0	

Project Status Summary Report by Basin

	No. of Projects	Acres	CSA Executed	Under Const.	Completed	Projects Deauth.	Baseline Estimate	Current Estimate	Expenditures To Date
Basin: Teche / Vermilion									
Priority List:	1	65	1	1	1	0	\$2,047,479	\$2,047,479	\$2,013,210
Priority List:	2	378	1	1	1	0	\$897,109	\$897,109	\$897,109
Priority List:	3	2,223	1	1	1	0	\$10,093,909	\$10,036,640	\$8,381,594
Priority List:	5	441	1	1	1	0	\$886,030	\$886,030	\$751,392
Priority List:	6	2,567	4	4	4	0	\$10,347,331	\$10,347,331	\$8,967,818
Priority List:	8	24	1	1	1	0	\$1,181,129	\$1,181,129	\$1,112,057
Priority List:	9	686	1	1	1	0	\$5,428,731	\$3,811,152	\$3,731,408
Priority List:	13		1	0	0	1	\$1,855,824	\$1,855,824	\$1,855,824
Priority List:	14	169	1	1	1	0	\$17,765,813	\$17,291,809	\$15,489,968
Priority List:	21	340	0	0	0	0	\$25,635,641	\$24,169,491	\$1,783,466
Basin Total	15	6,893	12	11	11	1	\$76,138,995	\$72,523,993	\$44,983,845

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	
Basin: Terrebonne										
Priority List:	1	5	9	4	3	3	2	\$9,376,759	\$9,376,759	\$9,278,765
Priority List:	2	3	958	3	3	3	0	\$23,115,874	\$23,115,874	\$20,707,140
Priority List:	3	4	3,958	4	4	4	0	\$25,106,295	\$24,859,377	\$23,174,991
Priority List:	4	2	215	2	1	1	1	\$7,715,925	\$7,715,925	\$7,663,841
Priority List:	5	3	0	3	1	1	2	\$4,703,403	\$4,703,403	\$4,703,403
Priority List:	5.1	1		1	0	0	1	\$7,452,191	\$7,452,191	\$7,452,191
Priority List:	6	4	941	2	1	1	2	\$43,465,900	\$37,747,287	\$16,811,047
Priority List:	7	1	0	1	1	1	0	\$538,101	\$538,101	\$538,101
Priority List:	9	4	577	4	4	4	0	\$32,645,346	\$30,989,472	\$30,415,736
Priority List:	10	2	668	2	2	1	0	\$49,757,119	\$46,455,705	\$43,685,912
Priority List:	11	3	543	3	2	1	0	\$44,912,175	\$42,504,843	\$35,899,006
Priority List:	12	1		0	0	0	1	\$1,736,137	\$1,736,137	\$1,736,137
Priority List:	13	1	272	1	1	1	0	\$30,414,086	\$30,164,311	\$25,844,780
Priority List:	16	2	639	2	1	1	0	\$43,981,456	\$43,729,404	\$27,455,087
Priority List:	18	1	233	1	0	0	0	\$2,326,289	\$2,326,289	\$1,255,246
Priority List:	19	1	452	1	0	0	0	\$35,125,857	\$31,531,382	\$1,289,099
Priority List:	20	1		0	0	0	1	\$2,901,750	\$2,901,750	\$778,895
Priority List:	22	1	401	1	0	0	0	\$3,216,194	\$3,216,194	\$375,450
Priority List:	23	1	312	0	0	0	0	\$3,721,447	\$3,721,447	\$306,360
Priority List:	24	1	304	0	0	0	0	\$3,201,929	\$3,201,929	\$9,332
Priority List:	26	1	378	0	0	0	0	\$3,282,292	\$3,282,292	\$0
Basin Total	43	10,860	35	24	22	10	\$378,696,525	\$361,270,072	\$259,380,518	
Total All Basins	214	115,669	174	118	1E ±0	46	\$1,835,893,802	\$1,718,884,286	\$1,088,317,144	

CWPPRA Priority List Estimates

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			Type	Total	Engineering	Real Estate	Construction	Monitoring	O & M	Contingency
Priority List	0	Total	Approved Amt	191,807.00	191,807.00	0.00	0.00	0.00	0.00	0.00
			Funded Amt	191,807.00	191,807.00	0.00	0.00	0.00	0.00	0.00
Priority List	0.1	Total	Approved Amt	114,607,082.00	0.00	0.00	0.00	114,607,082.00	0.00	0.00
			Funded Amt	114,607,082.00	0.00	0.00	0.00	114,607,082.00	0.00	0.00
Priority List	0.2	Total	Approved Amt	1,500,000.00	0.00	0.00	0.00	1,500,000.00	0.00	0.00
			Funded Amt	1,500,000.00	0.00	0.00	0.00	1,500,000.00	0.00	0.00
Priority List	0.3	Total	Approved Amt	569,585.92	0.00	0.00	0.00	0.00	569,585.92	0.00
			Funded Amt	569,585.92	0.00	0.00	0.00	0.00	569,585.92	0.00
Priority List	0.4	Total	Approved Amt	1,243,694.00	1,243,694.00	0.00	0.00	0.00	0.00	0.00
			Funded Amt	1,243,694.00	1,243,694.00	0.00	0.00	0.00	0.00	0.00
Priority List	1	Total	Approved Amt	87,117,795.81	3,964,516.66	1,224,777.18	25,916,415.97	4,636,008.31	51,376,077.69	0.00
			Funded Amt	86,060,072.81	3,964,516.66	1,224,777.18	25,916,415.97	4,636,008.31	50,318,354.69	0.00
Priority List	2	Total	Approved Amt	88,846,282.65	6,085,079.25	680,028.71	53,018,618.04	7,774,731.10	21,287,825.55	0.00
			Funded Amt	88,834,185.65	6,082,897.89	680,028.71	53,020,799.40	7,803,106.10	21,247,353.55	0.00
Priority List	3	Total	Approved Amt	63,574,510.54	4,577,636.92	252,556.37	27,334,974.35	6,826,684.90	24,582,658.00	0.00
			Funded Amt	55,145,425.54	4,577,636.92	252,556.37	26,889,929.35	5,381,629.90	18,043,673.00	0.00
Priority List	4	Total	Approved Amt	14,488,697.23	1,874,591.96	224,438.57	10,233,178.28	626,747.95	1,529,740.47	0.00
			Funded Amt	14,487,206.23	1,874,591.96	224,438.57	10,233,178.28	626,747.95	1,528,249.47	0.00

CWPPRA Priority List Estimates

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			Type	Total	Engineering	Real Estate	Construction	Monitoring	O & M	Contingency
Priority List	5	Total	Approved Amt	23,789,219.56	4,637,807.60	162,120.25	8,916,757.54	1,715,555.79	8,356,978.38	0.00
			Funded Amt	20,378,137.56	4,637,807.60	162,120.25	8,916,757.54	1,684,751.79	4,976,700.38	0.00
Priority List	5.1	Total	Approved Amt	7,452,190.98	7,355,189.24	40,595.10	0.00	56,406.64	0.00	0.00
			Funded Amt	7,452,190.98	7,355,189.24	40,595.10	0.00	56,406.64	0.00	0.00
Priority List	6	Total	Approved Amt	79,175,114.64	7,409,228.28	891,137.60	41,509,244.93	5,553,800.83	20,816,729.00	2,994,974.00
			Funded Amt	73,182,143.64	7,409,228.28	891,137.60	41,509,244.93	4,727,944.83	15,649,614.00	2,994,974.00
Priority List	7	Total	Approved Amt	31,127,774.02	1,782,965.66	87,162.93	26,678,166.92	851,337.21	1,728,141.30	0.00
			Funded Amt	31,127,774.02	1,782,965.66	87,162.93	26,678,166.92	851,337.21	1,728,141.30	0.00
Priority List	8	Total	Approved Amt	36,901,498.07	2,458,869.18	913,528.98	25,649,206.81	2,201,090.85	4,432,923.25	1,245,879.00
			Funded Amt	36,270,962.37	2,458,869.48	913,528.98	25,649,206.81	1,729,464.85	4,274,013.25	1,245,879.00
Priority List	9	Total	Approved Amt	116,549,790.42	14,826,389.30	651,074.50	73,148,555.36	2,498,890.55	25,424,880.71	0.00
			Funded Amt	102,483,729.71	15,297,248.30	651,074.50	72,683,081.36	1,528,917.55	12,323,408.00	0.00
Priority List	10	Total	Approved Amt	144,316,363.13	16,865,178.49	868,278.54	96,081,290.28	3,802,086.82	21,192,718.00	5,506,811.00
			Funded Amt	131,785,716.13	16,865,178.49	868,278.54	97,538,613.28	1,581,368.82	10,882,788.00	4,049,489.00
Priority List	11	Total	Approved Amt	327,579,291.02	25,169,315.95	3,003,687.99	192,391,605.35	6,141,089.73	97,247,573.00	3,626,019.00
			Funded Amt	280,261,320.02	25,169,315.95	3,003,687.99	192,391,605.35	3,541,496.73	52,529,195.00	3,626,019.00
Priority List	11.1	Total	Approved Amt	14,130,232.86	531,498.25	13,142.53	12,964,592.08	281,000.00	340,000.00	0.00
			Funded Amt	14,130,232.86	531,498.25	13,142.53	12,964,592.08	281,000.00	340,000.00	0.00

CWPPRA Priority List Estimates

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			Type	Total	Engineering	Real Estate	Construction	Monitoring	O & M	Contingency
Priority List	12	Total	Approved Amt	46,418,643.49	5,971,677.67	314,398.23	29,791,525.59	869,866.03	4,590,963.97	4,880,212.00
			Funded Amt	41,990,666.49	5,971,677.67	314,398.23	29,791,525.59	836,122.03	196,730.97	4,880,212.00
Priority List	13	Total	Approved Amt	47,846,024.61	6,082,859.83	220,861.64	37,055,204.18	481,001.96	925,124.00	3,080,973.00
			Funded Amt	47,448,329.61	6,082,859.83	220,861.64	40,136,177.18	332,888.96	675,542.00	0.00
Priority List	14	Total	Approved Amt	43,360,831.33	7,080,766.40	116,545.28	26,599,343.65	369,974.00	6,329,034.00	2,865,168.00
			Funded Amt	41,100,377.33	7,080,766.40	116,545.28	29,464,511.65	120,111.00	4,318,443.00	0.00
Priority List	15	Total	Approved Amt	39,964,210.11	2,716,706.26	92,160.85	31,770,208.00	501,094.00	187,994.00	4,696,047.00
			Funded Amt	39,512,274.11	2,716,706.26	92,160.85	31,770,208.00	213,606.00	23,546.00	4,696,047.00
Priority List	16	Total	Approved Amt	45,975,322.23	6,787,786.93	127,174.79	29,058,957.88	134,541.00	2,798,525.63	7,068,336.00
			Funded Amt	45,723,270.20	6,787,786.93	127,174.79	29,058,957.88	97,407.00	2,583,607.63	7,068,335.97
Priority List	17	Total	Approved Amt	76,987,208.12	8,151,909.10	474,652.91	62,392,178.11	1,094,077.00	1,210,198.00	3,664,193.00
			Funded Amt	75,857,532.12	8,151,909.10	474,652.91	66,056,371.11	509,813.00	664,786.00	0.00
Priority List	18	Total	Approved Amt	54,694,582.23	8,671,286.15	1,960,984.13	36,610,533.49	1,075,023.29	1,748,347.00	4,628,408.17
			Funded Amt	54,096,738.23	8,671,286.15	1,960,984.13	36,610,533.49	813,337.29	1,412,189.00	4,628,408.17
Priority List	19	Total	Approved Amt	41,165,667.43	8,396,465.32	365,463.11	28,414,381.00	783,478.00	3,205,880.00	0.00
			Funded Amt	37,571,192.43	8,396,465.32	365,463.11	28,414,381.00	195,993.00	198,890.00	0.00
Priority List	20	Total	Approved Amt	74,913,741.00	9,905,954.00	498,032.00	41,660,096.00	1,944,782.00	11,444,926.00	9,459,951.00
			Funded Amt	71,849,629.00	9,905,953.00	498,032.00	41,660,096.00	900,065.00	9,425,532.00	9,459,951.00

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			Type	Total	Engineering	Real Estate	Construction	Monitoring	O & M	Contingency
Priority List	21	Total	Approved Amt	94,422,352.00	13,425,171.00	450,776.00	63,214,327.00	2,379,167.00	2,064,565.00	12,888,346.00
			Funded Amt	91,384,304.00	13,425,171.00	450,776.00	63,214,327.00	830,218.00	575,466.00	12,888,346.00
Priority List	22	Total	Approved Amt	62,144,044.00	12,957,073.00	2,649,893.00	38,139,254.00	1,123,218.00	2,306,687.00	4,967,919.00
			Funded Amt	60,666,641.00	12,957,073.00	2,649,893.00	38,139,254.00	183,334.00	1,769,168.00	4,967,919.00
Priority List	23	Total	Approved Amt	12,471,926.00	11,159,746.00	1,312,180.00	0.00	0.00	0.00	0.00
			Funded Amt	12,471,926.00	11,159,746.00	1,312,180.00	0.00	0.00	0.00	0.00
Priority List	24	Total	Approved Amt	11,045,165.00	10,257,022.00	788,143.00	0.00	0.00	0.00	0.00
			Funded Amt	11,045,165.00	10,257,022.00	788,143.00	0.00	0.00	0.00	0.00
Priority List	25	Total	Approved Amt	18,611,855.00	15,399,337.00	1,510,468.00	936,542.00	172,140.00	373,545.00	219,823.00
			Funded Amt	18,611,855.00	15,399,337.00	1,510,468.00	936,542.00	172,140.00	373,545.00	219,823.00
Priority List	26	Total	Approved Amt	12,711,300.00	8,586,644.00	582,946.00	142,583.00	912,430.00	2,451,051.00	35,646.00
			Funded Amt	9,843,119.00	8,586,644.00	582,946.00	142,583.00	216,836.00	278,464.00	35,646.00
Grand Total			Approved Amt	1,835,893,802.40	234,524,172.40	20,477,208.19	1,019,627,739.81	170,913,304.96	318,522,671.87	71,828,705.17
			Funded Amt	1,718,884,285.96	234,992,849.34	20,477,208.19	1,029,787,059.17	155,959,133.96	216,906,986.16	60,761,049.14