

## Appendix A

### Inter-local Agreement

#### COASTAL BEND MITIGATION ACTION PLAN INTERLOCAL COOPERATION AGREEMENT

**WHEREAS**, the Coastal Bend Council of Governments, on behalf of the Corpus Christi Bay Coalition, applied for a Pre-Disaster Mitigation Program grant from the State of Texas Division of Emergency Management to prepare the Coastal Bend Mitigation Action Plan; and

**WHEREAS**, an approved Mitigation Action Plan is needed to make a local jurisdiction eligible for the Post-Disaster Hazard Mitigation Grant Program (HMGP) funding; and

**WHEREAS**, an approved Mitigation Action Plan may makes local jurisdictions eligible for the Pre-Disaster Mitigation (PDM) Program, if funding becomes available in the future; and

**WHEREAS**, a Mitigation Action Plan will provide guidance to Participating Jurisdictions, but does not require a specific financial commitment by the Participating Jurisdictions.

This Coastal Bend Mitigation Action Plan Inter-local Cooperation Agreement (“Agreement”) is made and entered into by the Coastal Bend Council of Governments and the counties and municipalities listed on Exhibit A, which is attached to and incorporated into this Agreement.

#### 1. Purpose of Agreement.

a. The purpose of this Agreement is develop the Coastal Bend Mitigation Action Plan ("Plan") that will be used by the Participating Jurisdictions.

(1) The Plan will be developed under the requirements and guidelines issued by the State of Texas Division of Emergency Management (DEM), and the Federal Emergency Management Agency (FEMA).

(2) Once completed the Plan will be presented to the State Hazard Mitigation Officer for review and to FEMA for approval under the provisions of the Disaster Mitigation Act of 2000 (DMA 2000).

b. This Agreement outlines the responsibilities and commitments of the Participating Jurisdictions, which are needed to create the Plan.

c. This Agreement structures the coordination between the representatives of the Participating Jurisdictions who will develop the Plan.

d. This Agreement pertains solely to the development of the Plan.

## **2. Period of Agreement**

a. This Agreement becomes effective as to each Participating Jurisdiction when approved and executed by that Participating Jurisdiction.

b. This Agreement remains in effect for one year for each Participating Jurisdiction, but the Agreement is automatically renewed and will continue in full force and effect and will remain binding on each Participating Jurisdiction unless the governing body of the Participating Jurisdiction withdraws from this Agreement under Section 6 of this Agreement.

c. Withdrawal from this Agreement by any Participating Jurisdiction does not affect the continued operation of this Agreement between and among the remaining Participating Jurisdictions and this Agreement shall continue in force and remain binding on the remaining Participating Jurisdictions.

d. Under the provisions of DMA 2000, a Plan, which has been approved by FEMA, must be reviewed, revised, if appropriate, and resubmitted for a new approval within five years in order for a Participating Jurisdiction to remain eligible for post-disaster HMGP funding.

e. It is the intent of the Participating Jurisdictions to review, revise, and resubmit the Plan as needed to remain eligible for post-disaster HMGP funding.

## **3. General Provisions**

a. The Participating Jurisdictions, individually and collectively, agree to provide the necessary resources to meet its obligations, performance requirements, and to accomplish the following tasks:

### **(1) Joint Responsibilities.**

(a) Each Participating Jurisdiction shall designate a Hazard Mitigation Coordinator to serve as the jurisdiction's point of contact for this .

(b) Each Participating Jurisdiction shall make personnel available to the for data collection activities, reviewing and evaluating results of analyses, developing and evaluating mitigation strategies, accepting public comment, reviewing plan documents, attending planning meetings, and other tasks that may arise.

(c) Each Participating Jurisdiction must ensure that they have provided their share of the 25% match, required for the Pre-Disaster Mitigation Program grant, through in-kind contributions.

(2) Responsibilities of the individual participating jurisdictions. In order to obtain Federal plan approval their Mitigation Action Plan includes:

(a) Each Participating Jurisdiction must document that the individual jurisdiction has actively participated in the planning process that created the Mitigation Action Plan.

(b) Each Participating Jurisdiction must document that the individual jurisdiction formally adopted the Mitigation Action Plan.

b. Responsibilities of the Coastal Bend Council of Governments.

(1) Coastal Bend Council of Governments shall manage the Pre-Disaster Mitigation Program grant and designate the Local Officer.

(2) Coastal Bend Council of Governments shall provide fiscal oversight of the grant funds, including submitting timely financial reports, remitting accounts payable, providing quarterly financial reports, and quarterly progress reports to the DEM Officer.

(3) Coastal Bend Council of Governments shall coordinate meetings of the Steering Committee, other general and subcommittee meetings, and public meetings

(4) Coastal Bend Council of Governments shall maintain a Website to share information and status with Participating Jurisdictions and the general public.

(5) Coastal Bend Council of Governments shall provide training and technical assistance to Participating Jurisdictions, as needed.

(6) Coastal Bend Council of Governments shall provide staff support to maintain documentation, prepare informational materials, and draft the Plan.

(7) Coastal Bend Council of Governments shall obtain technical support, in consultation with the other Steering Committee.

(8) Coastal Bend Council of Governments is not responsible for preparation and submittal of individual "Annex P" to the Emergency Operations Plans for other Participating Jurisdictions.

(9) Coastal Bend Council of Governments is not responsible for formulation of jurisdiction-specific mitigation action strategies for other Participating Jurisdictions.

(10) Coastal Bend Council of Governments is not responsible for final acceptance or rejection of the Plan, with respect to an individual Participating Jurisdiction, if the Participating Jurisdiction fails to provide the

required information or meets its obligations under subsections a and c of this section.

c. Responsibilities of Hazard Mitigation Coordinators:

(1) The Hazard Mitigation Coordinators shall document the match provided by their jurisdiction in a format that is consistent with FEMA requirements and submit the required documentation in a timely manner to the Local Officer.

(2) The Hazard Mitigation Coordinators shall serve as the point of contact for their jurisdiction.

(3) The Hazard Mitigation Coordinators shall serve on the Steering Committee and participating in Steering Committee meetings.

(4) The Hazard Mitigation Coordinators shall coordinate the implementation of the Plan within their jurisdiction.

d. Outcome Measures of Success. The success of this initiative will be measured by the ability of the Participating Jurisdictions to:

(1) Establish a coordinated and effective effort for disaster mitigation planning and implementation in the tri-county region

(2) Implement a comprehensive Coastal Bend Mitigation Action Plan to reduce the losses from disasters for the residents of the tri-county region over the long term.

(3) Obtain Federal approval of plan and qualify for HMGP funding for disasters declared after November 1, 2010, and any Pre-Disaster Mitigation Grant Program funding, which may become available in the future.

#### **4. Allocation of Costs.**

a. Each Participating Jurisdiction is responsible for covering expenses it incurs and their share of costs associated with the performance of the terms and responsibilities, except for those direct expenses provided for in the Pre-Disaster Mitigation Program grant.

b. All expenses incurred by a Participating Jurisdiction must be documented as in-kind contributions to the and submitted to the Local Officer, and will be used to meet the 25% match required for the grant.

c. A Participating Jurisdiction is not obligated to pay or reimburse any expense incurred by any other Participating Jurisdiction under this Agreement.

#### **5. Amendment of Agreement.**

- a. This Agreement may be amended at any time.
- b. Any amendment to this Agreement must be in writing and agreed to by the governing bodies of all Participating Jurisdictions.
- c. No officer or employee of any of the Participating Jurisdictions has authority to waive or otherwise modify the limitations in this Agreement, without the express action of the governing body of the Participating Jurisdiction.

## **6. Withdrawal.**

- a. A Participating Jurisdiction may withdraw from this Agreement upon thirty (30) days written notice to the Local Officer, transmitting a copy of the action of the Participating Jurisdiction's governing body.
- b. If the withdrawal is due to material or significant breach of any of the provisions of this Agreement, a Participating Jurisdiction may withdraw immediately upon delivery of written notice to the Local Officer.

**7. Damages.** It is expressly understood and agreed that nonperformance of this Agreement may not give rise to any claim for costs or damages by any Participating Jurisdiction.

**8. Participation Notice.** Each Participating Jurisdiction shall notify the Local Officer of its participation in this Agreement by furnishing an executed original of the attached Participation Notice.

**9. Administrative Services.** The Coastal Bend Council of Governments agrees to provide administrative services necessary to coordinate this Agreement, including timely notifying Participating Jurisdictions of new participants and withdrawals, and providing Participating Jurisdictions with a current list of contact information for each Participating Jurisdiction.

**10. Federal and State Participation.** Federal and state entities may participate in this Agreement, to the extent of any limitations of their authority, by furnishing an executed original of the attached Participation Notice to the Local Officer.

**11. Not for Benefit of Third Parties.** This Agreement and all activities under this Agreement are solely for the benefit of the Participating Jurisdictions and not the benefit of any third Parties.

**12. Exercise of Police Power.** This Agreement and all activities under this Agreement are undertaken solely as an exercise of the police power of the Participating Jurisdictions, exercised for the health, safety, and welfare of the public generally, and not for the benefit of any particular person or persons, and the Participating Jurisdictions do not have nor be deemed to have any duty to any particular person or persons.

**13. Immunity Not Waived.** Nothing in this Agreement is intended, nor may it be deemed, to waive any governmental, official, or other immunity or defense of any of the

Participating Jurisdictions or their officers, employees, representatives, and agents as a result of the execution of this Agreement and the performance of the covenants contained in this Agreement.

**14. No Liability of Participating Jurisdictions to Other Participating Jurisdictions.**

One Participating Jurisdiction may not be responsible and may not be civilly liable to another Participating Jurisdiction for any act or omission under this agreement. Each Participating Jurisdiction waives all claims against the other Participating Jurisdictions for compensation for any loss, damage, personal injury, or death occurring as a consequence of the performance of this Agreement.

**15. Captions.** Captions to provisions of this Agreement are for convenience and shall not be considered in the interpretation of the provisions.

**16. Expending Funds.**

a. Each Participating Jurisdiction which performs services or furnishes aid under this Agreement must do so with funds available from current revenues of the Participating Jurisdiction.

b. No Participating Jurisdiction shall have any liability for the failure to expend funds to provide aid under this Agreement.

**17. Inter-local Cooperation Act.** The Participating Jurisdictions agree that activities under this Agreement are “governmental functions and services” and that the Participating Jurisdictions are “local governments” as that term is defined in this Agreement and in the Inter-local Cooperation Act.

**18. Entirety.** This Agreement contains all commitments and Agreements of the Participating Jurisdictions with respect to the mutual aid to be rendered under this Agreement during or in connection with a disaster. No other oral or written commitments of the Participating Jurisdictions with respect to mutual aid under this Agreement shall have any force or effect if not contained in this Agreement, except as provided in Section 6 above.

**19. Severability.** If a provision contained in this Agreement is held invalid for any reason, the invalidity does not affect other provisions of the Agreement that can be given effect without the invalid provision, and to this end the provisions of this Agreement are severable.

**20. Validity and Enforceability.** If any current or future legal limitations affect the validity or enforceability of a provision of this Agreement, then the legal limitations are made a part of this Agreement and shall operate to amend this Agreement to the minimum extent necessary to bring this Agreement into conformity with the requirements of the limitations, and so modified, this Agreement shall continue in full force and effect.

**21. Warranty.** The Agreement has been officially authorized by the governing body of each Participating Jurisdiction to and each signatory to this Agreement guarantees and warrants that the signatory has full authority to execute this Agreement and to legally bind the respective Participating Jurisdiction to this Agreement.

**22. Governing Law and Venue.**

- a. This Agreement shall be governed by the laws of the State of Texas.
- b. Venue for an action arising under this Agreement shall be in accordance with the Texas Rules of Civil Procedure.

## Appendix B.

### Meetings

All meetings were open to the public. The agendas were posted in the courthouse and each Hazard Mitigation Contact (HMC) was notified prior to each meeting. Each EMC in turn was tasked with seeking input from their community (ies).

#### List of Meetings

Date	Location	Meeting Type
Feb 25, 2010	Corpus Christi	Initial Planning Meeting
May 25, 2010	Corpus Christi	Second Planning Meeting
Aug 5, 2010	Corpus Christi	Third Planning Meeting
Sept 30, 2010	Corpus Christi	Fourth Planning Meeting
Jan 25, 2011	Corpus Christi	Update Meeting
Oct 26, 2011	Corpus Christi	Timeline Realignment
Apr 10, 2012	Corpus Christi	Draft Review Meeting
Jun 06, 2012	Corpus Christi	Final Review Meeting

#### **Coastal Bend Mitigation Action Plan Initial Planning Meeting Feb 25, 2010 Meeting Summary**

An initial planning meeting was held with participating jurisdictions and the public to collect hazards and vulnerability data. A review and evaluation of mitigations, including those previously identified, those not previously identified and future actions was discussed. Reviewed and updated the schedule, cost share requirements, goals and objectives. Complete first quarter timesheets.

#### **Coastal Bend Mitigation Action Plan Second Planning Meeting May 25, 2010 Meeting Summary**

During the second planning meeting, updates were discussed along with discussion of number of future actions to be added to CBMAP revision. Jurisdictions requiring any help were asked to contact the Coastal Bend COG POC. Complete time sheets for second quarter.

#### **Coastal Bend Mitigation Action Plan Third Planning Meeting Aug 5, 2010 Meeting Summary**



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During the third planning meeting, continued to receive a few new mitigation actions from participating jurisdictions. Conducted hands on workshops with numerous jurisdictions working on new actions for CBMAP revision. Give out status of Mitigation Evaluation Assignments and Timesheets.

**Coastal Bend Mitigation Action Plan  
Fourth Planning Meeting  
Sept 30, 2010  
Meeting Summary**

During the fourth planning meeting, conducted in house training to those who had not been able to attend all of the meetings on how to complete time sheets and reviewed mitigation actions that had been submitted by some of the jurisdictions and returned for more information. Complete third quarter time sheets.

**Coastal Bend Mitigation Action Plan  
Update Meeting  
Jan 25, 2011  
Meeting Summary**

During update meeting, it was discussed that an extension of plan was required to complete the revision of the current CBMAP. Request sent to the state and request granted on Mar 10, 2011 to extend to Dec 9, 2011.

**Coastal Bend Mitigation Action Plan  
Timeline Realignment Meeting  
Oct 26, 2011  
Meeting Summary**

Meeting was conducted to discuss realignment of timeline. Second extension was requested and approved with timeline of August 8, 2012. Review and approve mitigation actions for the plan.

**Coastal Bend Mitigation Action Plan  
Draft Review Meeting  
April 10, 2012**

Meeting was conducted to inform participating jurisdictions and the public of their need for review of the final draft. Instructions were given for posting Public Notifications for public review and comments on the draft. Participants were given a timeline for the review process.

**Coastal Bend Mitigation Action Plan  
Final Review Meeting  
June 6, 2012**

Meeting was conducted to review and discuss public comments. One public comment was presented. The comment was a positive response which required no action. The meeting was open for other comments/action. Participants were informed the draft plan would be submitted to the state.

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## Appendix C. Evaluation/Prioritization Criteria

### Mitigation Action Prioritization Criteria

	Name:	<b>SCORE</b>
	Jurisdiction:	
	<b>BENEFITS</b>	
	Rank the severity of potential losses this is intended to prevent or reduce. Low Severity=1 Somewhat Low=2 Medium=3 Somewhat High=4 High=5	
	Rank the urgency of this (how likely there are to be losses in near future). Low Urgency=1 Medium Urgency=2 High Urgency=3	
	Rank the % of population in hazard area this will benefit. Very Few=0 Some=1 Many=2 Most=3	
	Rank the completeness of this solution in terms of its anticipated effect: Marginal Impact=1 Significant Impact=2 Total Solution=3	
	Rank the life expectancy of this solution: Short term=1 Medium Term=2 Long term=3 Very Long Term=4	
	How many mitigation objectives does this address? None=0 One=1 Two or more=2	
	Does this protect an essential emergency facility? Yes=1 No=0	
	Does this address a 'special need'? Yes=1 No=0	
	Does this protect an economic, cultural, or environmental resource? Yes=1 No=0	

	Does this solution reflect state and federal priorities? Yes=1 No=0	
	TOTAL BENEFIT POINTS:	
	COSTS	
	Will this solution be supported by the community? Active Support=1 No objections=2 Minor objections=3 Major objections=4	
	Will this solution be politically acceptable? Active Support=1 Acceptable=2 Mild resistance=3 Strong resistance=4	
	What is the degree of regulatory review of this? None=1 Low=2 Medium=3 High=4	
	Rank the overall complexity of the : Straightforward=1 Somewhat involved=2 Highly Complex=3	
	How long will this take to complete? <1 year (1) 1-2 years (2) >2 years (3) Perpetual (4)	
	Rank the cost of the : Very Low=1 Low=2 Medium=3 High=4 Very High=5	
	TOTAL COST POINTS:	
	BENEFIT/COST: (Line 11/Line 18; valid range is >0 to <=4.0)	
	PRIORITY: Benefit/cost: <=1.0:Low >1.0<2.0:Medium >=2.0:High	

## Appendix D. Mitigation Descriptions

Index by Number  
**INDEX BY NUMBER**

**Regionals**

RG-02	IMPLEMENT HAZCOLLECT SYSTEM
RG-03	HOST COOP WORKSHOP
RG-04	OUTREACH FOR NWR AWARENESS
RG-06	EXTREME HEAT DATA DEFICIENCY
RG-07	FLOOD PLAIN MANAGEMENT TRAINING
RG-08	PUBLIC DROUGHT EDUCATION
RG-09	DATA DEFICIENCY

**Aransas County**

AR-02	ARANSAS COUNTY DRAINAGE MASTER PLAN
AR-03	LIVE OAK PENINSULA MASTER DRAINAGE PLAN
AR-04	LIVE OAK PENINSULA SHORELINE STABILIZATION STRATEGIC PLAN
AR-05	INTERGRADED STORM WATER MANAGEMENT PLAN
AR-06	GENERATOR for FULTON HARBOR SEWER LIFT STATION
AR-07	GENERATOR for FULTON TOWN HALL
AR-08	GENERATOR for FULTON ELEMENTARY
AR-09	GENERATOR for COUNTY ROAD and BRIDGE FUELING FACILITY
AR-10	GENERATOR for ARANSAS COUNTY COURTHOUSE
AR-11	ARANSAS COUNTY EOC
AR-12	GENERATOR for CHAPARRAL SEWER LIFT STATION
AR-13	GENERATOR for AUSTIN STREET SEWER LIFT STATION
AR-14	GENERATOR for GAGON STREET SEWER LIFT STATION
AR-15	RETROFIT 3 EXISTING PUBLIC BUILDINGS FOR COOLING SHELTERS
AR-16	RETROFIT 2 EXISTING PUBLIC BUILDINGS FOR COOLING SHELTERS
AR-17	RETROFIT 3 EXISTING PUBLIC BUILDINGS FOR COOLING SHELTERS
AR-18	IMPLEMENT FLOOD PLAIN ORDINANCE
AR-19	IMPLEMENT FLOOD PLAIN ORDINANCE
AR-20	IMPLEMENT REVISED FLOOD PLAIN ORDER

**Bee County**

BE-03	SILVER CREEK BRIDGE
BE-04	C.R. 628 BOX CULVERT
BE-05	EMERGENCY WARNING SYSTEM
BE-06	POESTA and MEDIO CREEK DRAINAGE
BE-07	RETROFIT 3 EXISTING PUBLIC BUILDINGS FOR COOLING SHELTERS
BE-08	RETROFIT 3 EXISTING PUBLIC BUILDINGS FOR COOLING SHELTERS

**Jim Wells County**

JW-02	PORTABLE ELECTRONIC ROAD SIGNS
JW-04	ROADSIDE TRAVELER'S ASSISTANCE
JW-06	PORTABLE ELECTRONIC ROAD SIGNS
JW-08	REVERSE 911
JW-09	EMERGENCY GENERATOR for PUBLIC WATER SUPPLY
JW-10	EMERGENCY GENERATOR for PUBLIC WATER SUPPLY
JW-13	UPGRADE CITY WATER LINE
JW-14	LAKE CORPUS CHRISTI PIPELINE IMPROVEMENTS
JW-15	EMERGENCY GENERATOR FOR ALICE CITY HALL / EOC
JW-17	OUTDOOR WARNING SYSTEM for CITY of ORANGE GROVE
JW-18	REVERSE 911 SYSTEM
JW-19	RETROFIT 3 EXISTING PUBLIC BUILDINGS FOR COOLING SHELTERS
JW-20	RETROFIT 3 EXISTING PUBLIC BUILDINGS FOR COOLING SHELTERS
JW-21	RETROFIT 2 EXISTING PUBLIC BUILDINGS FOR COOLING SHELTERS
JW-22	RETROFIT EXISTING PUBLIC BUILDING FOR COOLING SHELTERS
JW-23	IMPLEMENT FLOOD PLAIN ORDINANCE

### **Kleberg County**

KL-01	INTERLOCAL AGREEMENT for 911 SERVICES
KL-02	PUBLIC FACILITIES for RETROFIT
KL-03	ROADSIDE TRAVELER'S ASSISTANCE
KL-05	DISASTER RESISTANT UNIVERSITY WORKSHOP
KL-07	OUTDOOR WARNING SYSTEM
KL-09	UPGRADE for WASTE WATER TREATMENT
KL-10	EMERGENCY GENERATOR for PUBLIC WATER SUPPLY
KL-11	SHORELINE STABILIZATION at RIVIERA PARK
KL-12	SAND BAGGING MACHINE
KL-13	FLOODING COUNTY ROADS, PCT 1 and 3
KL-14	TRANSFER SWITCH for PORTABLE GENERATOR at KINGSVILLE CITY HALL / EOC
KL-15	RETROFIT 3 EXISTING PUBLIC BUILDINGS FOR COOLING SHELTERS
KL-16	RETROFIT 3 EXISTING PUBLIC BUILDINGS FOR COOLING SHELTERS
KL-17	IMPLEMENT FLOOD PLAIN ORDINANCE
KL-18	IMPLEMENT REVISED FLOOD PLAIN ORDER

### **Live Oak County**

LO-10	OUTDOOR WARNING SIRENS
LO-12	ENHANCE OUTDOOR WARNING SYSTEM
LO-15	RETROFIT 3 EXISTING PUBLIC BUILDINGS FOR COOLING SHELTERS
LO-16	RETROFIT 3 EXISTING PUBLIC BUILDINGS FOR COOLING SHELTERS
LO-17	RETROFIT 3 EXISTING PUBLIC BUILDINGS FOR COOLING SHELTERS
LO-18	IMPLEMENT FLOOD PLAIN ORDINANCE
LO-19	IMPLEMENT FLOOD PLAIN ORDINANCE
LO-20	IMPLEMENT REVISED FLOOD PLAIN ORDER

### **Nueces County**

NU-07	IMPLEMENT an EMERGENCY WARNING SYSTEM
NU-08	OUTDOOR WARNING SIRENS
NU-09	EMERGENCY GENERATORS for WASTE WATER LIFT STATIONS
NU-11	CORRETO CREEK STORM WATER CONTROL ENHANCEMENT
NU-18	MAJOR OUTFALL UPGRADE PHASE 1
NU-19	MAJOR OUTFALL UPGRADE PHASE 2

NU-20	MAJOR DRAINAGE CHANNEL IMPROVEMENTS
NU-21	OBTAIN DRAINAGE RIGHT of WAYS
NU-22	FLOOD CONTROL PUMPS at POWER ST. PUMP STATION
NU-23	FLOOD MAP MODERNIZATION PROGRAM / CTP COMMUNITY
NU-24	ENHANCE COMMUNITY RATING SYSTEM (CRS) RATING
NU-26	EMERGENCY GENERATORS for OSO WASTE WATER TREATMENT FACILITY
NU-27	FLOOD PROOF LIFT STATIONS at OSO WASTE WATER TREATMENT FACILITY
NU-33	ELEVATE POWER TRANSFER SWITCH at POLICE DEPARTMENT HEAD QUARTERS
NU-34	UNINTERRUPTABLE POWER SUPPLY SYSTEM for EOC
NU-35	EVALUATE PARTICIPATION in the NFIP COMMUNITY RATING SYSTEM
NU-36	REPLACE TRAFFIC SIGNALS
NU-37	PURCHASE SATELLITE TELEPHONES
NU-40	INCORPORATED MITIGATION into PUBLIC OUTREACH
NU-41	ONGOING BULKHEAD MAINTENANCE and REPAIR
NU-43	STORM SHUTTER FOR EOC
NU-44	ADOPT INTERNATIONAL BUILDING CODES
NU-45	ELECTRICAL SYSTEM ENHANCEMENTS
NU-46	GAS SYSTEM ENHANCEMENTS
NU-49	PREVENT EROSION of SUNFISH ISLAND
NU-50	PREVENT EROSION of COLE PARK
NU-51	COMMUNITY WILDFIRE RISK ASSESSMENT
NU-52	COMMUNITY WILDFIRE PROTECTION PLAN
NU-54	HURRICANE SHUTTERS for COUNTY FACILITIES
NU-55	REPETITIVE FLOOD BUYOUT on NUECES RIVER
NU-56	EMERGENCY GENERATOR for COUNTY COURTHOUSE
NU-57	EMERGENCY GENERATOR for COUNTY EOC
NU-59	UPGRADE FUEL STORAGE CAPACITY for COUNTY PUBLIC WORKS YARD
NU-60	GEOGRAPHICAL INFORMATION SYSTEM (GIS) ENHANCEMENT
NU-61	SOCIAL VULNERABILITY STUDY
NU-62	SPECIAL NEEDS PUBLIC EDUCATION and OUTREACH
NU-63	EMERGENCY GENERATORS for LIFT STATIONS
NU-65	ROAD ELEVATION and UPGRADE
NU-66	DEBRIS REMOVAL and DRAINAGE ENHANCEMENTS
NU-67	RETROFIT 3 EXISTING PUBLIC BUILDINGS FOR COOLING SHELTERS
NU-68	RETROFIT EXISTING PUBLIC BUILDING FOR COOLING SHELTERS
NU-69	RETROFIT 3 EXISTING PUBLIC BUILDINGS FOR COOLING SHELTERS
NU-70	RETROFIT EXISTING PUBLIC BUILDING FOR COOLING SHELTERS
NU-71	IMPLEMENT FLOOD PLAIN ORDINANCE
NU-72	IMPLEMENT FLOOD PLAIN ORDINANCE
NU-73	IMPLEMENT FLOOD PLAIN ORDINANCE
NU-74	IMPLEMENT FLOOD PLAIN ORDINANCE
NU-75	IMPLEMENT FLOOD PLAIN ORDINANCE
NU-76	IMPLEMENT REVISED FLOOD PLAIN ORDER

### **San Patricio County**

SP-02	FLOOD PROOF REPETITIVE LOSS HOMES
SP-03	COMPLETE BUYOUT PROGRAM in PEACEFUL VALLEY, SAN PATRICIO RIVER
SP-04	OUTDOOR WARNING SIRENS
SP-05	IMPLEMENT DRAINAGE RIGHT of WAYS on AVENUE A

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SP-06	IMPLEMENT DRAINAGE RIGHT of WAYS on CALIFORNIA STREET
SP-13	DEVELOP DRAINAGE MASTER PLAN
SP-15	GENERATOR for TAFT FIRE DEPARTMENT
SP-16	GENERATOR for TAFT CITY HALL / POLICE STATION
SP-17	GENERATOR for MATHIS POLICE STATION
SP-18	COMMUNITY WILDFIRE PROTECTION PLAN
SP-19	GENERATOR for SINTON POLICE DEPARTMENT
SP-20	GENERATOR for MATHIS CITY HALL
SP-21	GENERATOR for GREGORY FIRE DEPARTMENT
SP-22	GENERATOR for SINTON CITY HALL / FIRE DEPARTMENT / EMS BUILDING
SP-23	OUTDOOR WARNING SIREN
SP-24	GENERATOR for GREGORY CITY HALL / POLICE DEPARTMENT
SP-26	OUTDOOR WARNING SIREN
SP-25	GENERATOR for ODEM FIRE DEPARTMENT
SP-27	GENERATOR for ODEM CITY HALL
SP-28	OUTDOOR WARNING SIREN
SP-29	ELEVATE ROAD / CONSTRUCT BRIDGE in CITY of SAN PATRICIO At NOPAL STREET and C.R. 60B
SP-30	INSTALL SEA GATES / RAIL GATES / MAINTENANCE PLAN
SP-31	BACK-UP GENERATOR for CITY of ARANSAS PASS PUBLIC WORKS DEPARTMENT
SP-32	PUBLIC INFORMATION OUTREACH for CITY of ARANSAS PASS
SP-33	EMERGENCY POWER GENERATION
SP-34	COMMUNICATIONS/FIBER OPTIC LINE
SP-35	IMPLEMENT AN EXTREME HEAT PUBLIC EDUCATION PROGRAM
SP-36	IMPLEMENT AN EXTREME HEAT PUBLIC EDUCATION PROGRAM
SP-37	IMPLEMENT AN EXTREME HEAT PUBLIC EDUCATION PROGRAM
SP-38	CONSTRUCT PUBLIC COOLING SHELTER TO PROTECT THE MOST VULNERABLE CITIZENS DURING EXTREME HEAT EVENTS
SP-39	CONSTRUCT PUBLIC COOLING SHELTER TO PROTECT THE MOST VULNERABLE CITIZENS DURING EXTREME HEAT EVENTS
SP-40	CONSTRUCT PUBLIC COOLING SHELTER TO PROTECT THE MOST VULNERABLE CITIZENS DURING EXTREME HEAT EVENTS
SP-41	IMPLEMENT FLOOD PLAIN ORDINANCE
SP-42	IMPLEMENT FLOOD PLAIN ORDINANCE
SP-43	IMPLEMENT FLOOD PLAIN ORDINANCE
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SP-44	IMPLEMENT FLOOD PLAIN ORDINANCE
SP-45	IMPLEMENT FLOOD PLAIN ORDINANCE
SP-46	IMPLEMENT FLOOD PLAIN ORDINANCE
SP-47	IMPLEMENT FLOOD PLAIN ORDINANCE
SP-48	IMPLEMENT FLOOD PLAIN ORDINANCE
SP-49	IMPLEMENT FLOOD PLAIN ORDINANCE
SP-50	IMPLEMENT FLOOD PLAIN ORDINANCE
SP-51	IMPLEMENT REVISED FLOOD PLAIN ORDER
SP-52	RETROFIT EXISTING PUBLIC BUILDING FOR COOLING SHELTER
SP-53	IMPLEMENT FLOOD PLAIN ORDINANCE
SP-54	IMPLEMENT FLOOD PLAIN ORDINANCE



## Completed Mitigation Descriptions

Index by Number

### **INDEX BY NUMBER**

\*The plan has only seen limited incorporation into other plan mechanisms. Local governments have not at this time incorporated the plan into other planning mechanisms.

#### **Regionals**

RG-01 COMPLETE, Flood Awareness Workshop  
RG-05 COMPLETE, Implement Regional Incident Management System

#### **Aransas County**

AR-01 COMPLETE, Emergency Notification System

#### **Bee County**

BE-01 COMPLETE, Ellis Road Box Culvert  
BE-02 COMPLETE, Jones Road Low Water Crossing

#### **Jim Wells County**

JW-07 COMPLETE, Emergency Generator for Water Treatment Facility  
JW-13 REPLACE and UPGRADE CITY WATER LINES

#### **Kleberg County**

KL-06 COMPLETE, Portable Electronic Road Signs  
KL-08 COMPLETE, Emergency Generator for Waste Water Treatment

#### **Live Oak County**

LO-01 COMPLETE, Qualify as Storm Ready Community  
LO-02 COMPLETE, NWR Receivers for Essential Facilities  
LO-03 COMPLETE, Public Outreach for New NWR Transmitters  
LO-04 COMPLETE, GIS Survey Between Three Rivers and Lake Corpus Christi  
LO-05 COMPLETE, Enhanced Coordination with Private Electric Utilities  
LO-07 COMPLETE, Repetitive Loss Court Order  
LO-08 COMPLETE, Complete Buyout Program  
LO-09 COMPLETE, Emergency Generator for Marbach Water Supply  
LO-11 COMPLETE, Emergency Generator for Public Water Supply  
LO-13 COMPLETE, Pumping Stations at Levee Valves  
LO-14 COMPLETE, Emergency Generator for Public Water Supply

#### **Nueces County**

NU-01 COMPLETE, Legislative Remedy to Address Flooding in Colonias  
NU-02 COMPLETE, Rehabilitation of Emergency Evacuation Accesses Roads  
NU-03 COMPLETE, Emergency Generator for EOC  
NU-04 COMPLETE, VHF Antennas at Nueces County Courthouse  
NU-05 COMPLETE, Pintas Creek Solid Waste Removal  
NU-06 COMPLETE, Pre-positioned Debris Management Contract  
NU-10 DELETED,  
NU-15 COMPLETE, Repairs to Corpus Christi Seawall  
NU-16 COMPLETE, Pre-positioned Debris Management Contract  
NU-30 COMPLETE, Update Water Department Emergency Operations Plans

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NU-31	COMPLETE, Police Dept. Storage Area Network for Data Redundancy
NU-32	COMPLETE, Backup Tape Libraries for Data Redundancy
NU-38	DELETED,
NU-39	DELETED, Study Feasibility of Extending Requirements for Buried Utilities
NU-42	DELETED, Storm Shutters for Emergency Operation Center
NU-47	DELETED, Emergency Generator for Water Treatment Facility
NU-48	COMPLETE, Upper Oso Creek Flood Protection Study

**San Patricio County**

SP-01	COMPLETE, Emergency Notification System
SP-07	COMPLETE, Whitney Lake Wetlands Project
SP-08	COMPLETE, Backup for 9-1-1 Service
SP-09	COMPLETE, Backup Emergency Communications Equipment
SP-10	COMPLETE, Emergency Generator for Alternate EOC
SP-11	COMPLETE, Adopt 2003 International Building Code
SP-12	COMPLETE, Emergency Generator for Water Storage Facility on County Road 72
SP-14	COMPLETE, Survey Public Facilities for Retrofit

**Cross-Reference by Hazard**

<b>Jurisdiction</b>	<b>Coastal Erosion</b>	<b>Drought (Water Supply)</b>	<b>Extreme Heat</b>	<b>Flood</b>	<b>Hurricane</b>	<b>Tornado</b>	<b>Wildfire</b>
Aransas Co. (unincorporated)	AR-04		AR-15, 16	AR-02, 05	AR-09, 10, 11		
Town of Fulton	AR-04			AR-03,05	AR-06, 07, 08	AR-06, 07, 08	
City of Rockport	AR-04		AR-17	AR-03, 05	AR-12, 13, 14		
Bee Co. (unincorporated)			BE-07	BE-03, 04		BE-05	
City of Beeville			BE-08	BE-06		BE-05	
Jim Wells Co. (unincorporated)			JW-19	JW-11	JW-02, 04, 08, 18	JW-17	
City of Alice		JW-13,14	JW-20	JW-01, 11	JW-6, 8, 15		
City of Orange Grove			JW-21		JW-09	JW-17	
City of Premont			JW-22		JW-10		
Kleberg Co. (unincorporated)	KL-11		KL-15	KL-13	KL-01, 02, 03		
City of Kingsville			KL-16	KL-09, 12	KL-01, 05, 10, 14	KL-07	
Live Oak Co. (unincorporated)			LO-15	LO-20			
City of George West			LO-16	LO-18		LO-10	
			LO-17	LO-19			

City of Three Rivers						LO-12	
Nueces Co. Agua Dulce, Driscoll			NU-67, 68, 70	NU-55, 65, 66, 71, 74, 76	NU-54, 56, 57, 60, 61, 62, 63		NU-51,52
City of Bishop			NU-69	NU-11, 72	NU-07, 09	NU-08	
City of Corpus Christi	NU-49,50			NU-19, 20, 21, 22, 23, 24, 27, 73	NU-26, 33, 34, 54		
City of Port Aransas	NU-41			NU-35	NU-36, 37 40		
City of Robstown				NU-75	NU-43, 44, 45, 46		
San Patricio Co. Gregory, Ingleside on the Bay, Lake City, Lakeside, Mathis, Odem, San Patricio, Sinton, Taft			SP-35, 36, 37, 38, 39, 40, 52	SP-02, 03, 29, 42, 44, 45, 46, 47, 48, 49, 50, 51	SP-15, 16, 17, 19, 20, 21, 22, 24, 25, 27	SP-23, 26, 28	SP-18
City of Aransas Pass				SP-41	SP-30, 31, 32		
City of Ingleside				SP-05, 06, 43		SP-04	
City of Portland				SP-13	SP-33,34		
CBCOG Regional		RG-07		RG-07	RG-02, 03, 04		

**Number:** RG-02

**Name:** Implement Hazcollect System

**Participating Jurisdiction(s):** Aransas County, Bee County, Jim Wells County, Kleberg County, Live Oak County, Nueces County, San Patricio County, City of Agua Dulce, City of Alice, City of Aransas Pass, City of Beeville, City of Bishop, City of Corpus Christi, City of Driscoll, City of Fulton, City of George West, City of Gregory, City of Ingleside, City of Ingleside On The Bay, City of Kingsville, City of Lake City, City of Lakeside, City of Mathis, City of Odem, City of Orange Grove, City of Port Aransas, City of Portland, City of Premont, City of Robstown, City of Rockport, City of Sinton, City of Taft, and City of Three Rivers

**Objective(s):** Objective 1.1 related to improving the delivery and effectiveness of warnings.

**Hazard(s):** Hurricane, dam failure, flood, tornado and wildfire.

**Priority:** Medium

**Description/Background:** Implement 'All Hazards' NOAA Weather Radio (NWR) procedures for dissemination of emergency messages to the public, originating with local jurisdictions.

The National Weather Service (NWS) will implement a new, centralized point of collection for emergency messages broadcast over NWS systems. HazCollect will provide an information technology interface between state and local systems, and the NWS Advanced Weather Interactive Processing System (AWIPS). HazCollect will provide a fast, reliable way to inject messages into the Emergency Alert System (EAS) and NOAA Weather Radio.

**Lead/Participating Agencies:** Corpus Christi Weather Forecast Office with Aransas County OEM, Bee County OEM, Jim Wells County OEM, Kleberg County OEM, Live Oak County OEM, Nueces County OEM, and San Patricio County OEM

**Cost/Funding:** This is expected to be a no- to low-cost activity, limited to planning meetings and/or training funded from current budgets.

**Schedule:** Est. complete 12 months

**Number:** RG-03

**Name:** Host/participate in COOP Workshop

**Participating Jurisdiction(s):** Aransas County, Bee County, Jim Wells County, Kleberg County, Live Oak County, Nueces County, San Patricio County, City of Agua Dulce, City of Alice, City of Aransas Pass, City of Beeville, City of Bishop, City of Corpus Christi, City of Driscoll, City of Fulton, City of George West, City of Gregory, City of Ingleside, City of Ingleside On The Bay, City of Kingsville, City of Lake City, City of Lakeside, City of Mathis, City of Odem, City of Orange Grove, City of Port Aransas, City of Portland, City of Premont, City of Robstown, City of Rockport, City of Sinton, City of Taft, and City of Three Rivers

**Objective(s):** Objective 2.3 related to minimizing disruption of government services; Objective 3.3 related to development and use of operations continuity strategies by the public and private sector.

**Hazard(s):** Hurricane, dam failure, flood, tornado and wildfire.

**Priority:** Medium

**Description/Background:** Host a training workshop on Continuity of Operations (COOP) for local government representatives.

Course description: G250.11 Workshop: Continuity of Operations (COOP) This 1-day module is designed to increase awareness and understanding of the need for continuity of operations plans for state and local government offices. Recent events have demonstrated that government buildings and offices can be closed for extended periods of time due to natural or manmade events. These closures negatively affect service delivery to the general public. The workshop focuses on identifying state and local government tasks that must continue should an incident affect the staff or location where the tasks are performed. The workshop introduces the benefits of public-private cooperation in COOP planning. This introduction to COOP planning also will help participants determine appropriate backup measures so that essential service delivery can continue.

**Lead/Participating Agencies:** Regional Disaster District with Aransas County OEM, Bee County OEM, Jim Wells County OEM, Kleberg County OEM, Live Oak County OEM, Nueces County OEM, and San Patricio County OEM

**Cost/Funding:** Low cost may be associated with providing an instructor and printed materials, funded from state or federal training budgets.

**Schedule:** Est. complete 24months. The actual workshop is a one-day event. Follow on implementation activities 24 months.

**Number:** RG-04

**Name:** Outreach for NWR Awareness

**Participating Jurisdiction(s):** Aransas County, Bee County, Jim Wells County, Kleberg County, Live Oak County, Nueces County, San Patricio County, City of Agua Dulce, City of Alice, City of Aransas Pass, City of Beeville, City of Bishop, City of Corpus Christi, City of Driscoll, City of Fulton, City of George West, City of Gregory, City of Ingleside, City of Ingleside On The Bay, City of Kingsville, City of Lake City, City of Lakeside, City of Mathis, City of Odem, City of Orange Grove, City of Port Aransas, City of Portland, City of Premont, City of Robstown, City of Rockport, City of Sinton, City of Taft, and City of Three Rivers

**Objective(s):** Objective 1.1 related to improving delivery of warnings.

**Hazard(s):** Hurricane, dam failure, flood, tornado and wildfire.

**Priority:** Medium

**Description/Background:** Promote public awareness and use of NOAA Weather Radio (NWR) to receive 'All Hazards' warnings by distributing NWR literature, posting information on jurisdiction Web sites, hosting special events, and taking advantage of other opportunities as they arise.

The National Weather Service provides weather-related hazards warnings to citizens, both through feeds to commercial media via the Emergency Alert System (EAS), and directly into homes, businesses, schools and other locations through NOAA Weather Radio (NWR). Through the efforts of the Emergency Management programs in both Kleberg and Live Oak counties, broadcast coverage has recently been completed for the Coastal Bend region through installation of transmitters near the communities of Riviera and Three Rivers. These transmitters will also enhance reception of the NWR signals in Jim Wells and Bee counties.

**Lead/Participating Agencies:** Corpus Christi Weather Forecast Office, Aransas County OEM, Bee County OEM, Jim Wells County OEM, Kleberg County OEM, Live Oak County OEM, Nueces County OEM, and San Patricio County OEM

**Cost/Funding:** This activity is expected to be no to low-cost, funded from current budgets.

**Schedule:** Ongoing.

**Number:** RG-06

**Name:** Extreme Heat Data Deficiency

**Participating Jurisdiction(s):** Aransas County, Bee County, Jim Wells County, Kleberg County, Live Oak County, Nueces County, San Patricio County, City of Agua Dulce, City of Alice, City of Aransas Pass, City of Beeville, City of Bishop, City of Corpus Christi, City of Driscoll, City of Fulton, City of George West, City of Gregory, City of Ingleside, City of Ingleside On The Bay, City of Kingsville, City of Lake City, City of Lakeside, City of Mathis, City of Odem, City of Orange Grove, City of Port Aransas, City of Portland, City of Premont, City of Robstown, City of Rockport, City of Sinton, City of Taft, and City of Three Rivers

**Objective(s):** Objective 1.6 Reduce life- or health-threatening impacts on individuals with special physical care requirements *Objective 3.1* Increase home- and business-owner investment in available mitigation measures for private property.

**Hazard(s):** Extreme Heat

**Priority:** Low

**Description/Background:** The data is not available for Extreme Heat Event profile or past history. The data is in migration on the NOAA NCDC data base and not available at this time. This deficiency will be corrected by the next update.

**Lead/Participating Agencies:** Corpus Christi Weather Forecast Office, Aransas County OEM, Bee County OEM, Jim Wells County OEM, Kleberg County OEM, Live Oak County OEM, Nueces County OEM, and San Patricio County OEM, City of Agua Dulce, City of Alice, City of Aransas Pass, City of Beeville, City of Bishop, City of Corpus Christi, City of Driscoll, City of Fulton, City of George West, City of Gregory, City of Ingleside, City of Ingleside On The Bay, City of Kingsville, City of Lake City, City of Lakeside, City of Mathis, City of Odem, City of Orange Grove, City of Port Aransas, City of Portland, City of Premont, City of Robstown, City of Rockport, City of Sinton, City of Taft, City of Three Rivers

**Cost/Funding:** This activity is expected to be no to low-cost, funded from current budgets.

**Schedule:** Est. complete 3 Months



**Number:** RG-07

**Name:** Flood Plain Management Training

**Participating Jurisdiction(s):** Aransas County, Bee County, Jim Wells County, Kleberg County, Live Oak County, Nueces County, San Patricio County, City of Agua Dulce, City of Alice, City of Aransas Pass, City of Beeville, City of Bishop, City of Corpus Christi, City of Driscoll, City of Fulton, City of George West, City of Gregory, City of Ingleside, City of Ingleside On The Bay, City of Kingsville, City of Lake City, City of Lakeside, City of Mathis, City of Odem, City of Orange Grove, City of Port Aransas, City of Portland, City of Premont, City of Robstown, City of Rockport, City of Sinton, City of Taft, and City of Three Rivers

**Objective(s):** *Objective 3.4* Utilize available mitigation measures to prevent or reduce economic losses from natural hazards. *Objective 3.5* Reduce vulnerability of existing development by participating in buy-out or flood-proofing opportunities *Objective 3.6* Reduce vulnerability of future development by utilizing available planning and structural standards.

**Hazard(s):** Flooding

**Priority:** Low

**Description/Background:** The data is not available for Extreme Heat Event profile or past history. The data is in migration on the NOAA NCDC data base and not available at this time. This deficiency will be corrected by the next update.

**Lead/Participating Agencies:** Corpus Christi Weather Forecast Office, Aransas County OEM, Bee County OEM, Jim Wells County OEM, Kleberg County OEM, Live Oak County OEM, Nueces County OEM, and San Patricio County OEM, City of Agua Dulce, City of Alice, City of Aransas Pass, City of Beeville, City of Bishop, City of Corpus Christi, City of Driscoll, City of Fulton, City of George West, City of Gregory, City of Ingleside, City of Ingleside On The Bay, City of Kingsville, City of Lake City, City of Lakeside, City of Mathis, City of Odem, City of Orange Grove, City of Port Aransas, City of Portland, City of Premont, City of Robstown, City of Rockport, City of Sinton, City of Taft, City of Three Rivers

**Cost/Funding:** \$12,000. General revenue, EMPG, SHSP, PDM.

**Schedule:** Est. complete 24 Months

**Number:** RG-08

**Name:** Public Drought Education

**Participating Jurisdiction(s):** Aransas County, Bee County, Jim Wells County, Kleberg County, Live Oak County, Nueces County, San Patricio County, City of Agua Dulce, City of Alice, City of Aransas Pass, City of Beeville, City of Bishop, City of Corpus Christi, City of Driscoll, City of Fulton, City of George West, City of Gregory, City of Ingleside, City of Ingleside On The Bay, City of Kingsville, City of Lake City, City of Lakeside, City of Mathis, City of Odem, City of Orange Grove, City of Port Aransas, City of Portland, City of Premont, City of Robstown, City of Rockport, City of Sinton, City of Taft, and City of Three Rivers

**Objective(s):** Objective 1.6 Reduce life- or health-threatening impacts on individuals with special physical care requirements *Objective 1.7* Reduce secondary impacts to health and safety from cascading effects.

**Hazard(s):** Drought

**Priority:** Low

**Description/Background:** The data is not available for Extreme Heat Event profile or past history. The data is in migration on the NOAA NCDC data base and not available at this time. This deficiency will be corrected by the next update.

**Lead/Participating Agencies:** Corpus Christi Weather Forecast Office, Aransas County OEM, Bee County OEM, Jim Wells County OEM, Kleberg County OEM, Live Oak County OEM, Nueces County OEM, and San Patricio County OEM, City of Agua Dulce, City of Alice, City of Aransas Pass, City of Beeville, City of Bishop, City of Corpus Christi, City of Driscoll, City of Fulton, City of George West, City of Gregory, City of Ingleside, City of Ingleside On The Bay, City of Kingsville, City of Lake City, City of Lakeside, City of Mathis, City of Odem, City of Orange Grove, City of Port Aransas, City of Portland, City of Premont, City of Robstown, City of Rockport, City of Sinton, City of Taft, City of Three Rivers

**Cost/Funding:** \$12,000. General revenue, EMPG, SHSP, PDM.

**Schedule:** Est. complete 24 Months

**Number:** RG-09

**Mitigation Action Title:** Data Deficiency

**Participating Jurisdiction(s):** Aransas County, Bee County, Jim Wells County, Kleberg County, Live Oak County, Nueces County, San Patricio County, City of Agua Dulce, City of Alice, City of Aransas Pass, City of Beeville, City of Bishop, City of Corpus Christi, City of Driscoll, City of Fulton, City of George West, City of Gregory, City of Ingleside, City of Ingleside On The Bay, City of Kingsville, City of Lake City, City of Lakeside, City of Mathis, City of Odem, City of Orange Grove, City of Port Aransas, City of Portland, City of Premont, City of Robstown, City of Rockport, City of Sinton, City of Taft, and City of Three Rivers

**Objective(s):** Objective 1.6 Reduce life- or health-threatening impacts on individuals with special physical care requirements *Objective 1.7* Reduce secondary impacts to health and safety from cascading effects.

**Hazard(s):** Hurricane, coastal erosion, drought, extreme heat, flood, dam failure, flood, tornado, hail, and wildfire.

**Priority:** High

**Description/Background:** The data is currently not available for profile or past history. The current data has been collected by counties or region and is not specific to each jurisdiction. Data corrected to reflect specific hazard to each jurisdiction in the plan. Maps will be enhanced with jurisdiction locations and political boundaries and other layers to demonstrate hazard areas. This deficiency will be corrected by the next 5-yr plan update.

**Lead/Participating Agencies:** Corpus and Christi Weather Forecast Office, Aransas County OEM, Bee County OEM, Jim Wells County OEM, Kleberg County OEM, Live Oak County OEM, Nueces County OEM, and San Patricio County OEM, City of Agua Dulce, City of Alice, City of Aransas Pass, City of Beeville, City of Bishop, City of Corpus Christi, City of Driscoll, City of Fulton, City of George West, City of Gregory, City of Ingleside, City of Ingleside On The Bay, City of Kingsville, City of Lake City, City of Lakeside, City of Mathis, City of Odem, City of Orange Grove, City of Port Aransas, City of Portland, City of Premont, City of Robstown, City of Rockport, City of Sinton, City of Taft, City of Three Rivers

**Cost/Funding:** \$12,000. General revenue, EMPG, SHSP, PDM, HMGP.

**Schedule:** Est. complete 24 Months

**Number:** NU-51

**Name:** Community Wildfire Risk Assessment

**Participating Jurisdiction(s):** Nueces County OEM, Emergency Service District (ESD) 1, 2, 3, 4, 5, Corpus Christi Fire Department, and Corpus Christi Naval Air Station Fire and Emergency Services

**Objective(s):** 1.3 Utilize available mitigation measures to prevent or reduce life-threatening impacts of natural hazards.

**Hazard(s):** Wildfire.

**Priority:** High

**Description/Background:** Conduct a Community Wildfire Risk Assessment for Nueces County to evaluate public safety and property vulnerabilities and to examine fire response resources. Develop a Community Wildfire Protection Plan in cooperation with the local fire departments to Create and implement defensible area around structures and non combustible construction ordinances.

The County is geographically diverse and has a substantial urban/rural interface with heavy fuel loads making portions of the county highly susceptible to potentially catastrophic wildfires. Additionally, the County experiences drought or near drought conditions almost annually and is placed under numerous red flag condition warnings by the National Weather Service. The 2008 wildfire season was very challenging for fire departments throughout the region. There were numerous very large wildfires in Nueces County with the potential to cause millions of dollars in property losses and had a great potential for loss of life. The Laureles Fire in the Laureles Division of the King Ranch threatened thousands of homes on the south side of Corpus Christi and required Texas Military Forces support with UH-60 helicopters conducting water drops under the direction of the Texas Forest Services and the then Governor's Division of Emergency Management. Several additional large fires threatened residents living on North Padre Island near the National Seashore. The light dry fuels and high winds created extremely dangerous firefighting conditions.

**Lead/Participating Agencies:** Nueces County OEM, Emergency Service District (ESD) 1, 2, 3, 4, 5, Corpus Christi Fire Department, and Corpus Christi Naval Air Station Fire and Emergency Services

**Cost/Funding:** \$ 5,000 / Texas Forest Service Hurricane Ike County-Wide Protection Plan Grant.

**Schedule:** 12 months

**Number:** NU-52

**Name:** Community Wildfire Protection Plan

**Participating Jurisdiction(s):** Nueces County OEM, Emergency Service District (ESD) 1, 2, 3, 4, 5, Corpus Christi Fire Department, and Corpus Christi Naval Air Station Fire and Emergency Services

**Objective(s):** 1.3 Utilize available mitigation measures to prevent or reduce life-threatening impacts of natural hazards.

**Hazard(s):** Wildfire.

**Priority:** High

**Description/Background:** Develop a Community Wildfire Protection Plan in cooperation with the local fire departments to Create and implement defensible space around structures and non combustible construction ordinances.

The County is geographically diverse and has a substantial urban/rural interface with heavy fuel loads making portions of the county highly susceptible to potentially catastrophic wildfires. Additionally, the County experiences drought or near drought conditions almost annually and is placed under numerous red flag condition warnings by the National Weather Service.

The 2008 wildfire season was very challenging for fire departments throughout the region. There were numerous very large wildfires in Nueces County with the potential to cause millions of dollars in property losses and had a great potential for loss of life. The Laureles Fire in the Laureles Division of the King Ranch threatened thousands of homes on the south side of Corpus Christi and required Texas Military Forces support with UH-60 helicopters conducting water drops under the direction of the Texas Forest Services and the then Governor's Division of Emergency Management. Several additional large fires threatened residents living on North Padre Island near the National Seashore. The light dry fuels and high winds created extremely dangerous firefighting conditions.

**Lead/Participating Agencies:** Nueces County OEM, Emergency Service District (ESD) 1, 2, 3, 4, 5, Corpus Christi Fire Department, and Corpus Christi Naval Air Station Fire and Emergency Services

**Cost/Funding:** \$ 5,000 / Texas Forest Service Hurricane Ike County-Wide Protection Plan Grant.

**Schedule:** Est. 6 months from approved funding

**Number:** NU-54

**Name:** Nueces County Hurricane Shutters

**Participating Jurisdiction(s):** Nueces County

**Objective(s):** 4.1 Protect public investment in community-owned facilities and infrastructure through appropriate structural, non-structural, and financial methods.

**Hazard(s):** Hurricane, tornado, and severe thunderstorm.

**Priority:** High

**Description/Background:** Purchase and install hurricane shutters for county-owned buildings as identified and maintained by the public works department. Many of these buildings have large glass windows making the facilities vulnerable to wind-born debris under hurricane conditions. The buildings have diverse glass windows, which would be vulnerable to wind-borne debris under hurricane conditions.

**Lead/Participating Agencies:** Nueces County Public Works Department and the Nueces County Commissioners Court.

**Cost/Funding:** \$375,000 / Hazard Mitigation Grant Program

**Schedule:** Once funding is secure, this is expected to take approximately 6 months to complete.

**Number:** NU-55

**Name:** Repetitive Flood Buyouts

**Participating Jurisdiction(s):** Nueces County, Precinct 1

**Objective(s):** 3.5, Reduce vulnerability of existing development by participating in buy-out or flood-proofing opportunities.

**Hazard(s):** Flood, Dam Failure

**Priority:** Medium

**Description/Background:** Residential flood buyout along Nueces River to reduce repetitive losses and potential loss of life attributed to a major flood event or dam failure. Residential development along the river in the unincorporated areas is a patchwork of substandard homes and development well below recommended base elevation for the 100 year floodplain. Most of the property owners are not insured and have had numerous repetitive losses. Additionally, this will leverage existing partnerships with an interest in maintaining a clean, safe and reliable water supply for the City of Corpus Christi as part of the Nueces River Watershed Protection Plan. The Nueces River Authority, City of Corpus Christi, Texas Commission on Environmental Quality and Coastal Bend Bays and Estuaries Foundation support continued buyouts along the river to maintain open green space and to aid in removing environmentally undesirable structures responsible for runoff pollutants and raw sewage discharges. This program will be multi year and will leverage multiple funding sources and partners. There are currently 66 eligible properties in Nueces County for the Repetitive Flood Claims Grant. Approximately 15 residential properties are located within the unincorporated areas of the county and would be the first targeted for participation. Additional properties will be targeted as part of the less restrictive Hazard Mitigation Grant Program. The City of Corpus Christi failed to meet state water quality standards in November 2009 attributed to high levels of pollutants caused by runoff from heavy rain. As part of the necessary corrective actions, the City partnered to develop the Nueces River Watershed Protection Plan. This will support the established mission and goals set forth in the plan to create environmentally friendly open space.

**Lead/Participating Agencies:** Nueces County Emergency Management, Grants Department, and Precinct 1

**Cost/Funding:** \$ 1,000,000.00. PDM, HMGP, EMPG, general revenue fund.

**Schedule:** 24 months



**Number:** NU-56

**Name:** Emergency Generators for Courthouse

**Participating Jurisdiction(s):** Nueces County

**Objective(s):** 2.3 Minimize disruptions to governmental, educational, and other institutions providing services to the public.

**Hazard(s):** Hurricane, flood, tornado, severe thunderstorm and wildfire.

**Priority:** High

**Description/Background:** Purchase and install Generator to power entire. The Emergency Operations Center and other valuable resources needed to maintain continuity of government are located in the Courthouse including the entire information technology system maintaining critical records and email.

The Nueces County Courthouse needs to operate during and after a disaster to ensure continuity of government. Nueces County Courthouse has limited emergency generation power for emergency lighting, one elevator and some limited information technology systems.

**Lead/Participating Agencies:** Nueces County Public Works and the Nueces County Commissioners Court.

**Cost/Funding:** \$1,500,000 / HMGP, SHSP, general revenue fund.

**Schedule:** Est. 24 months

**Number:** NU-57

**Name:** Purchase and install emergency generator and switch for Nueces County Emergency Operations Center (EOC).

**Participating Jurisdiction(s):** Nueces County

**Objective(s):** 2.3 Minimize disruptions to governmental, educational, and other institutions providing services to the public.

**Hazard(s):** Hurricane, flood, tornado, severe thunderstorm and wildfire.

**Priority:** High

**Description/Background:** Purchase and install emergency generator and switch for Nueces County Emergency Operations Center (EOC). Nueces County operates an EOC during emergencies. The emergency generator and a switch allow for continuous operations in the event of a loss of power to the courthouse. The switch gear allows for the center to disconnect from the building's main power system and switch to this emergency generator. The Nueces County is relocating the EOC from the sheriff office location to the county courthouse building. This will provide the county with a sustainable EOC for all-hazards response. Currently the county does not have a sustainable EOC, if an incident is to occur the sheriff conference room is turned into an EOC. The design is poor with limited space and phones must be installed each activation for operation.

**Lead/Participating Agencies:** Nueces County Office of Emergency Management

**Cost/Funding:** \$ 75,000 / PDM, HMGP, EMPG Grants

**Schedule:** Est. 24 months

**Number:** NU-60

**Name:** Geographical Information System (GIS) Enhancement

**Participating Jurisdiction(s):** Nueces County

**Objective(s):** 2.2 Minimize disruption to and enhance rapid restoration of essential transportation infrastructure.

**Hazard(s):** Hurricane, dam failure, extreme heat, flood, hailstorm, coastal erosion , tornado, severe thunderstorm and wildfire.

**Priority:** MEDIUM

**Description/Background:** Upgrade geographical information system strategies and technology to provide accurate and timely information to internal and external stakeholders during emergencies. This will aid in response and recovery efforts by providing enhanced situational awareness and critical data necessary for damage assessments and cost recovery estimates. Enhancements should include a comprehensive data management strategy, standardized software tools and an enterprise geo-database. In Nueces County, GIS is a relatively new technology that several Departments have begun using in recent years. For example, the County Clerk's Department uses a product called MapInfo to produce jurisdictional boundary maps. The Public Works Department will be developing a roadway and facility infrastructure asset management system using ESRI Arc-GIS products and the 911 Coordinator uses MapInfo to track rural address locations. Additionally, the Office of Emergency Management will also be collecting disparate data sources for purposes of planning for special needs evacuation and damage assessment but does not have the required software to alter or properly manipulate data without outside assistance. In order to centralize enterprise data, the County will perform a comprehensive study to determine where data is currently located and who maintains the data. Then the data will be cataloged and implemented into a single enterprise location and made available as appropriate to GIS applications targeted for internal and external stakeholders. This study and implementation would be performed by subject matter experts via a professional services contract. The cost is \$100,000. The GIS platform would include 20 additional copies of ESRI Arc-GIS software; 10 copies of ESRI map publisher extension; and a web server running Arc-IMS to render GIS maps, analytical tools and dashboard rollup reports via an internet browser. Estimated initial software cost is \$50,000. Ideally, the shared platform would provide a single location to store the production geo-database along with metadata to help end users to qualify the data. This multi-user geo-database is essential in that internal users would know where to get the correct information and avoid the need to create duplicate data to generate a graphic or report. In times of emergency, the data would be available in a more timely fashion without the need to bring in an expert to spend time researching and collecting data. This increased collaboration and information sharing is essential during an emergency and is more efficient during day-to-day operations. The geo-database requires an enterprise server running an RDBMS (relational database management system) along with ESRI Arc-SDE technology. Estimated initial hardware and software cost is \$40,000.

**Lead/Participating Agencies:** Nueces County Public Works Department and the Nueces County Commissioners Court.

**Cost/Funding:** \$ 190,000 / Hazard Mitigation Grant Program

**Schedule:** Est. 12 months from funding

**Number:** NU-61

**Name:** Social Vulnerability Study Mitigation Action

**Participating Jurisdiction(s):** Nueces County

**Objective(s):** 1.6 Reduce life- or health-threatening impacts on individuals with special physical care requirements

**Hazard(s):** Hurricane, dam failure, flood, tornado, severe thunderstorm and wildfire

**Priority:** High

**Description/Background:** Conduct a comprehensive social vulnerability study for Nueces County to identify persons with disabilities, functional and access needs populations for use in emergency/response management planning to enhance emergency response during a disaster. Special emphasis will be given for individuals living in rural subdivision and colonias including the undocumented. This study is to be conducted in cooperation with Texas A&M University Corpus Christi. All hazards planning are difficult to achieve when there is incomplete demographic information available for the targeted population. Similar studies have been conducted in other geographically vulnerable areas such as the Lower Rio Grande Valley with great success. Having a clear understanding of the population will allow for better coordination and planning for hurricane evacuations to include proper request of outside resources.

**Lead/Participating Agencies:** Nueces County Office of Emergency Management

**Cost/Funding:** TAMU / NOAA: Assessing Community Resilience within the Coastal Bend Region of Texas grant (TAMU Administered)

**Schedule:** Est 18 months

**Number:** NU-62

**Name:** Special Needs Public Education and Outreach

**Participating Jurisdiction(s):** Nueces County

**Objective(s):** 1.4 Reduce obstacles to timely and safe evacuation of hazard areas.

**Hazard(s):** Hurricane, dam failure, flood, tornado, severe thunderstorm and wildfire

**Priority:** Medium

**Description/Background:** Create and provide public education and outreach program to special needs populations within Nueces County based on data collected from the social vulnerability study. With a clearer understanding of the target population, a much more focused public education program can be developed to reach the individual needs of specific vulnerable populations. Materials are to be produced in a minimum of both English and Spanish. Nueces County is at risk of being directly impacted by a tropical storm or hurricane every year. Recent studies have shown that South Texas is the most socially vulnerable population to natural disasters in the entire country due to risk factors such as obesity and diabetes. The preparedness campaign should reflect this information and be focused based on the specific needs of population that actually resides within Nueces County.

**Lead/Participating Agencies:** Nueces County Office of Emergency Management

**Cost/Funding:** \$ 10,000 / County Budget and NOAA: Assessing Community Resilience within the Coastal Bend Region of Texas grant (TAMU Administered)

**Schedule:** Est 12 months

**Number:** NU-67

**Name:** Retrofit 3 Existing Public Buildings for Cooling Shelters

**Participating Jurisdiction(s):** Nueces County

**Objective 1.6** Reduce life- or health-threatening impacts on individuals with special physical care requirements.

**Hazard(s):** Extreme heat.

**Priority:** Medium

**Description/Background:** This project will retrofit 3 existing public buildings to provide cooling shelters to protect their most vulnerable citizens from extreme heat events.

**Lead/Participating Agencies:** Nueces County OEM and Commissioners Court.

**Cost/Funding:** \$125,000/SHSP, PDM, HMA grants

**Schedule:** 12 months from funding

**Number:** NU-76

**Name:** Implement Revised Flood Plain Order

**Participating Jurisdiction(s):** Nueces County

**Objective(s):** Objective 3.5 Reduce vulnerability of existing development by participating in buy-out or flood-proofing opportunities. Objective 3.6 Reduce vulnerability of future development by utilizing available planning and structural standards.

**Hazards:** Flood

**Priority:** Medium

**Description/Background:** Revise and implement existing county order to require a 2' elevation above the current freeboard requirement. This action will help to reduce the flooding impact on development in all flood prone areas including minimal flood prone areas. The Nueces County Flood Damage Prevention Order is enforced to comply with the requirements of the NFIP and to minimize the threat to life and property resulting from flooding.

**Lead/Participating Agencies:** Nueces County Floodplain Administrator in coordination with the Nueces County Public Works Office and Nueces County Commissioners Court.

**Cost/Funding:** This activity is expected to be no to low-cost, funded from current budgets.

**Schedule:** 6 months