

## IX. HAZARD MITIGATION PROJECTS AND INITIATIVES

The mitigation initiatives that have been developed have their basis in the community guiding principles on hazard mitigation. The initiatives are intended to actively reduce a community's vulnerability to hazards. This has been justified through the vulnerability assessment section of the strategy. Finally, mitigation initiatives accurately reflect the community's needs. The Working Group assigned to develop the Strategy should continue to assure that local needs are incorporated in the mitigation initiatives. These steps help develop projects that has their basis in the community's overall vision of hazard mitigation, or directly address its vulnerability to hazards.

Most governments conduct mitigation activities on an ongoing basis by implementing projects that simply make good sense. However, documenting and itemizing the amount of money a community spends each year on these activities will identify where mitigation funds are being spent. Some federal grant programs require local governments to secure matching funds. In the future, program funds spent on mitigation in the community may count as a local match. Therefore, it is recommended that local governments keep a record of ongoing mitigation activities. In addition, procedures developed to monitor and coordinate these expenditures will help towards expediting recovery from future natural disasters.

The Capital Improvements Element from the local government Comprehensive Plan includes a list of prioritized work projects. This list can serve as a model for prioritizing mitigation projects and programs for funding. Mitigation projects that are listed in the Capital Improvements Element of the local Comprehensive Plan will receive additional points toward approval in the competitive grant process.

Numerous funding programs are available to facilitate the process of identifying and implementing mitigation initiatives such as the Community Development Block Grants (CDBG), the Emergency Management Preparedness and Assistance Program (EMPA), the Hazard Mitigation Grant Program (HMGP), and the Flood Mitigation Assistance Program (FMAP). Additional information regarding grant funding sources for mitigation activities is included in Chapter XIII (Funding Sources).

Listed below is the ranked and prioritized list of mitigation initiatives. The project list also appears a second time in unranked order. The initiatives have been nominated by the County and municipal representatives on the Working Group and prioritized by the Group using the adopted criteria. An average score was developed from the group scoring. Vulnerability analysis has been performed by the staff to the Working Group using the approved criteria.

During this scoring process, evaluators were asked to assign up to 6 points for the category of "documentation of project costs". This number combined with the population served and the 15 total categories helped to evaluate the benefits of each project in relation to its cost. This consideration of the "documentation of project costs" as well as the up to 6 points assigned for population figures establishes an simplified cost to benefit value as scored by members of the working group. The scores for all sections (as seen in Appendix B) from the evaluation process were averaged to come up with a final score. Scored projects were then grouped into priority order for implementation.

Levy County understands the value of cost to benefit analysis. The Working Group understands that FEMA employs a formal cost-benefit computer module to determine project funding. As Levy County LMS projects move forward to the application phase, cost-benefit analysis will be performed if required by the funding agency. For the purposes of ranking mitigation projects, FEMA cost benefit analysis is not necessary at the local level.

The list should be used to guide local government mitigation activity on an ongoing basis and can function as a road map after a disaster. Upon notice of funds award in a post disaster situation, the working group will meet to vote on the projects and evaluate them based on needs as well as based upon costs to benefits in order to maximize available allocated monies. The projects included on this list are justified based on a community’s vulnerability assessment, and are supported by guiding principles and existing policies and ordinances.

From the beginning of the 2009 rewrite process, the working group determined the previous Project List was deemed outdated. The working group decided to reintroduce a new Project List for the five year planning cycle. Many projects were completed or deemed no longer a priority for the County or the municipality who nominated them in 2000 and 2005. Due to this, the decision to strike the entire project list and start anew was made by the working group. Mark Johnson directed staff to accept all new projects from each and all municipality and branch of county government. Below is a explanation for each project and why it was rejected. The group decided that all previously existing projects, that were still relevant but not addressed or mitigated were allowed to be resubmitted to be included on the current project list LMS rewrite.

<b>Projects Submitted from 1999-2004</b>				
<b>Exclusion Explanation</b>				
<b>Project Number</b>	<b>Jurisdiction</b>	<b>Year Submitted</b>	<b>Project Name</b>	<b>Reason For exclusion</b>
LEVY0409	Inglis	2004	Generators for fire station and town hall	Project Complete
LEVY0410	Inglis	2004	Housing facility for Fire Dept. Vehicles	Project Complete
LEVY0401	Yankeetown	2004	Implementation of watershed management plan	Project Modified and Resubmitted
LEVY0408	Cedar Key Water Sewer District	2004	Portable Generator for Wastewater System	Project Modified and Resubmitted
LEVY0001	Yankeetown	2000	Relocation of emergency operations and preparedness ctr.	Project Modified and Resubmitted
LEVY0003	Cedar Key	2000	Mobile generators	Project Modified and Resubmitted
LEVY0402	Yankeetown	2004	New portable Water System/Pre Construction	Project Modified and Resubmitted
LEVY0006	Levy County	2000	Stormwater master plan	No Longer A Priority
LEVY0004	Yankeetown	2000	Stormwater management plan	Project Modified and Resubmitted
LEVY0005	Yankeetown	2000	Implement stormwater plan	Project Modified and Resubmitted
LEVY0403	Yankeetown	2004	Update town Wide Potable Water Distribution	Project Modified and Resubmitted
LEVY0009	Levy County	2000	NFIP flood zone map study	Project Completed

Projects Submitted from 1999-2004				
Exclusion Explanation				
LEVY0010	Cedar Key Water Sewer District	2000	Underground utilities	No Longer A Priority
LEVY0013	Cedar Key	2000	Shutter down	Project Modified and Resubmitted
LEVY0407	Chiefland	2004	Shutters for Police Dept	
LEVY0404	Levy County Forestry	2004	Southern Pine Beetle Removal	No Longer A Priority
LEVY0411	Levy Co EM	2004	Manatee Water Utilities Generator shutters and fencing	No Longer A Priority
LEVY0406	Chiefland	2004	Shutters for City Hall	Project Completed
LEVY0011	Fanning Springs	2000	Well relocation	No Longer A Priority
LEVY0412	Levy Co EM	2004	University Oaks Utilities Generator shutters and fencing	No Longer A Priority
LEVY0008	Fanning springs	2000	US 19 stormwater project	Project Modified and Resubmitted
LEVY0014	Fanning Springs	2000	Shutters/retrofit City Hall	
LEVY0027	Inglis	2000	Runnels Road improvement	Project Completed
LEVY0012	Otter Creek	2000	Flooding at SW 3rd Avenue	No Longer A Priority
LEVY0018	Bronson	2000	Stormwater management	Project Modified and Resubmitted
LEVY0016	Otter Creek	2000	Generator for water system	No Longer A Priority
LEVY0022	Bronson	2000	Shutter procurement	No Longer A Priority
LEVY0017	Williston	2000	Portable generator for lift station	Project Modified and Resubmitted
LEVY0025	Williston	2000	Flooding at NW 4th Street	Project Modified and Resubmitted
LEVY0023	Bronson	2000	Stormwater Plan implementation	Project Modified and Resubmitted
LEVY0026	Otter Creek	2000	FEMA ord. And NFIP participation	No Longer A Priority

Below is the current Project List as designated by the 2010 Working Group. Table XII-1 is all projects submitted. Table XII-2 is the project list by rank with scores. All projects on both the ranked and unranked lists are intended to mitigate existing and known hazards (both natural and technical) to the jurisdiction who nominated the project. In many cases, each initiative (project) mitigates hazards beyond the jurisdictional boundary of the nominating party and in all cases, mitigated multiple hazards in one way or another.

Table XII-2 ranks submitted mitigation strategy projects into mitigation actions to be taken in the order of greatest importance to the county and its municipalities. These are the specific mitigation actions to be taken should funding become available unless re-prioritized during the course of an event.

Project Number	Jurisdiction	Year Submitted	Score	Project Description
FS01	City of Fanning Springs	2009	61.71	City of Fanning Springs Phase I and II Generator Installation
FS02	City of Fanning Springs	2009	41.43	City of Fanning Springs Sewer Project
FS03	City of Fanning Springs	2009	46	City of Fanning Springs Expansion of Fire Department Facility
FS04	City of Fanning Springs	2009	23.14	City of Fanning Springs US 19 Storm Water Project
YT01	Town of Yankeetown	2009	61.57	Inglis-Yankeetown Potable Water Interconnect
YT02	Town of Yankeetown	2009	51.16	Yankeetown Volunteer Fire Rescue VHF Communication
YT03	Town of Yankeetown	2009	59.71	Establish Back-Up Emergency Operations and Preparedness Center
YT04	Town of Yankeetown	2009	64	Yankeetown- Implement Stormwater Management Plan
YT05	Town of Yankeetown	2009	62.25	Yankeetown- Develop Stormwater Management Plan
YT06	Town of Yankeetown	2009	60.5	Yankeetown- Waste Water Feasibility Study
WL01	City of Williston	2009	65.43	Generator for Hospital Lift Station
WL02	City of Williston	2009	64.28	Generator for Williston Elementary School
WL03	City of Williston	2009	65.25	Generator for Fire and Police Station with 24 Hour dispatch
WL04	City of Williston	2009	38.25	Drainage Improvements to NW 4 <sup>th</sup> Street
BR01	Town of Bronson	2009	57.71	3 phase Generator for Town hall and Fire Station
BR02	Town of Bronson	2009	60.57	Emergency Generator for Sewer Lift Stations
BR03	Town of Bronson	2009	37.43	Storm Drainage on Oak Street
CH01	City of Chiefland	2009	77.5	Generator for Chiefland City Hall
CH02	City of Chiefland	2009	75.75	Emergency Stand-by Generator for Chiefland Fire Department
CH03	City of Chiefland	2009	65	Storm Shutters for Police and Building Departments
CH04	City of Chiefland	2009	71.25	Emergency Operations Center Equipment
IG01	Town of Inglis	2009	46.62	Purchase and Install 12K Generator at Inglis Town Hall
IG02	Town of Inglis	2009	67.25	Enlarge Culverts, Widen Bridge and Provide Safety Bumpers at Palm Street
IG03	Town of Inglis	2009	54.25	Pave Critical Evacuation Route of Gladys Street from hammock Road to
IG04	Town of Inglis	2009	65.75	Town of Inglis Sewer System Feasibility Study
IG05	Town of Inglis	2009	61.75	Construct Addition to Fire Station for Central Command Headquarters Levy
LC01	Levy County	2009	68.5	County- 800 MHZ Cedar Key
LC02	Levy County	2009	63.25	Levy County- 800 MHZ Williston
LC03	Levy County	2009	54.87	Levy County- CR 335 Road Way Improvement
LC04	Levy County	2009	56.56	Mitigation Public Outreach
CK01	Cedar Key	2010	61.5	Portable Generator for Lift Stations
CK02	Cedar Key	2009	47.25	Portable Generator for Community Center
CK03	Cedar Key	2009	50	Hardening for Roof, Doors and Windows at Community Center
CK04	Cedar Key	2009	42.75	Water Well Filtration System for Community Center

**Table IX-2  
Project List By Rank Submitted for 2010**

Project Number	Jurisdiction	Score	Rank	Description
CH01	City of Chiefland	77.5	1	Generator for Chiefland City Hall
CH02	City of Chiefland	75.75	2	Emergency Stand-by Generator for Chiefland Fire Department
CH04	City of Chiefland	71.25	3	Emergency Operations Center Equipment
LC01	Levy County	68.5	4	Levy County- 800 MHZ Cedar Key
IG02	Town of Inglis	67.25	5	Enlarge Culverts, Widen Bridge and Provide Safety Bumpers at palm Street
IG04	Town of Inglis	65.75	6	Town of Inglis Sewer System Feasibility Study
WL01	City of Williston	65.43	7	Generator for Hospital Lift Station
WL03	City of Williston	65.25	8	Generator for Fire and Police Station with 24 Hour dispatch
CH03	City of Chiefland	65	9	Storm Shutters for Police and Building Departments
WL02	City of Williston	64.28	10	Generator for Williston Elementary School
YT04	Town of Yankeetown	64	11	Yankeetown- Implement Stormwater Management Plan
LC02	Levy County	63.25	12	Levy County- 800 MHZ Williston
YT05	Town of Yankeetown	62.25	13	Yankeetown- Develop Stormwater Management Plan
IG05	Town of Inglis	61.75	14	Construct Addition to Fire Station
FS01	City of Fanning Springs	61.71	15	City of Fanning Springs Phase I and II Generator Installation
YT01	Town of Yankeetown	61.57	16	Inglis-Yankeetown potable Water Interconnect
LC04	Levy County	61.5	17	Mitigation, Public Outreach
BR02	Town of Bronson	60.57	18	Emergency Generator for Sewer Lift Stations
YT06	Town of Yankeetown	60.5	19	Yankeetown- Waste Water Feasibility Study
YT03	Town of Yankeetown	59.71	20	Establish Back-Up Emergency Operations and preparedness Center
BR01	Town of Bronson	57.71	21	3 phase Generator for Town hall and Fire Station
CK01	Cedar Key	56.5	22	Portable Generator for Lift Stations
LC03	Levy County	54.87	23	Levy County- CR 335 Road Way Improvement
IG03	Town of Inglis	54.25	24	Pave Critical Evacuation Route of Gladys Street from hammock Road to U.S. 19
YT02	Town of Yankeetown	51.16	25	Yankeetown Volunteer Fire Rescue VHF Communication
CK03	Cedar Key	50	26	Hardening for Roof, Doors and Windows at Community Center
CK02	Cedar Key	47.25	27	Portable Generator for Community Center
IG01	Town of Inglis	46.62	28	Purchase and Install 12K Generator at Inglis Town Hall
FS03	City of Fanning Springs	46	29	City of Fanning Springs Expansion of Fire Department Facility
CK04	Cedar Key	42.75	30	Water Well Filtration System for Community Center
FS02	City of Fanning Springs	41.43	31	City of Fanning Springs Sewer Project
WL04	City of Williston	38.25	32	Drainage Improvements to NW 4 <sup>th</sup> Street
BR03	Town of Bronson	37.43	33	Storm Drainage on Oak Street
FS04	City of Fanning Springs	23.14	34	City of Fanning Springs US 19 Storm Water Project

**Table IX-3. Hazards Related to Each Project**

Project Number	Jurisdiction	Project Description	Tropical Cyclone	Floods	Wild fire	Sink holes	Coastal Erosion	Drought/ Extreme Heat	Tornadoes	Severe Winter Storm/ Freeze	Dam Failure
FS01	City of Fanning Springs	Phase I and II Generator Installation	X	X	X				X	X	X
FS02	City of Fanning Springs	Sewer Project	X	X		X					X
FS03	City of Fanning Springs	Expansion of Fire Department Facility									
FS04	City of Fanning Springs	19 Storm Water Project	X	X		X					X
YT01	Town of Yankeetown	Inglis-Yankeetown Potable Water Interconnect	X	X		X					X
YT02	Town of Yankeetown	Volunteer Fire Rescue VHF Communication	X	X	X			X	X	X	X
YT03	Town of Yankeetown	Establish Back-Up Emergency Operations and Preparedness Center	X	X	X			X	X	X	X
YT04	Town of Yankeetown	Implement Stormwater Management Plan	X	X		X					X
YT05	Town of Yankeetown	Develop Stormwater Management Plan	X	X		X					X
YT06	Town of Yankeetown	Waste Water Feasibility Study	X	X		X					X
WL01	City of Williston	Generator for Hospital Lift Station	X	X	X				X	X	X
WL02	City of Williston	Generator for Williston Elementary School	X	X	X				X	X	X
WL03	City of Williston	Generator for Fire and Police Station with 24 Hour dispatch	X	X	X				X	X	X
WL04	City of Williston	Drainage Improvements to NW 4 <sup>th</sup> Street	X	X		X					X
BR01	Town of Bronson	3 phase Generator for Town hall and Fire Station	X	X	X				X	X	X
BR02	Town of Bronson	Emergency Generator for Sewer Lift Stations	X	X	X				X	X	X
BR03	Town of Bronson	Storm Drainage on Oak Street	X	X		X					X
CH01	City of Chiefland	Generator for City Hall	X	X	X				X	X	X
CH02	City of Chiefland	Emergency Stand-by Generator for Fire Department	X	X	X				X	X	X
CH03	City of Chiefland	Storm Shutters for Police and Building	X						X		

**Local Mitigation Strategy**

**Levy County**

Project Number	Jurisdiction	Project Description	Tropical Cyclone	Floods	Wild fire	Sink holes	Coastal Erosion	Drought/Extreme Heat	Tornadoes	Severe Winter Storm/Freeze	Dam Failure
		Departments									
CH04	City of Chiefland	Emergency Operations Center Equipment	X	X	X			X	X	X	X
IG01	Town of Inglis	Purchase and Install 12K Generator at Town Hall	X	X	X				X	X	X
IG02	Town of Inglis	Enlarge Culverts, Widen Bridge and Provide Safety Bumpers at Palm Street	X	X		X					X
IG03	Town of Inglis	Pave Critical Evacuation Route of Gladys Street from hammock Road to	X	X	X				X		X
IG04	Town of Inglis	Sewer System Feasibility Study	X	X		X					X
IG05	Town of Inglis	Construct Addition to Fire Station for Central Command Headquarters	X	X	X			X	X	X	X
LC01	Levy County	Levy County- 800 MHZ Cedar Key	X	X	X			X	X	X	X
LC02	Levy County	Levy County- 800 MHZ Williston	X	X	X			X	X	X	X
LC03	Levy County	Levy County- CR 335 Road Way Improvement	X	X	X				X		X
LC04	Levy County	Mitigation Public Outreach	X	X	X	X	X	X	X	X	X
CK01	Cedar Key	Portable Generator for Lift Stations	X	X	X				X	X	X
CK02	Cedar Key	Portable Generator for Community Center	X	X	X				X	X	X
CK03	Cedar Key	Hardening for Roof, Doors and Windows at Community Center	X						X		
CK04	Cedar Key	Water Well Filtration System for Community Center	X	X		X					X