



GRADDify your community...plan today, progress tomorrow

**GREEN RIVER AREA DEVELOPMENT DISTRICT
HAZARD MITIGATION COUNCIL**

Friday
July 30, 2010
2:00 p.m.

GRADD Office Building
3860 US Highway 60 West
Owensboro, Kentucky

A-G-E-N-D-A

- I. **CALL TO ORDER** Hon. Larry B. Whitaker
Chairman

- II. **OLD BUSINESS**
 - A. Approval of Minutes (May 3, 2010, meeting) Hon. Larry B. Whitaker

- III. **NEW BUSINESS**
 - A. Review of the Plan Status and Submission Timeline Misty Sampson
Local Government Analyst
 - B. Hazard Mitigation Mapping Presentation Lance Talmadge
GIS/GPS Specialist
 - C. Overview of the June East Subcommittee Meeting Mr. Charlie Shields
East Subcommittee Chairman
 - D. Overview of the June West Subcommittee Meeting Mr. Jeffrey D. Kelley
West Subcommittee Chairman
 - E. Work Session: Revisions to the Risk Assessment, Mitigation
Strategy, and the Plan Maintenance Procedures
 - F. Kentucky State Hazard Mitigation Plan Update Pete Conrad
Infrastructure Planner
 - G. Questions/Comments

IV. ADJOURNMENT

Bill Markwell, *Chairman* Mary Pate, *Vice Chairperson* Jody Jenkins, *Secretary* Bill Parrish, *Treasurer* Jiten Shah, *Executive Director*

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GRADD Hazard Mitigation Council

July 30, 2010

Timeline

Plan Update Timeline

- **Throughout the plan update process, GRADD staff members have focused on data collection and close coordination with all cities and counties.**
- **Since the start of the process, staff members have worked on revising and rewriting all sections of the plan. Particular emphasis has been placed upon incorporation of current data and data collected from the local levels.**
- **GRADD staff members have been working closely with cities and counties to collect the Local Data Request Questionnaires. The questionnaires include valuable information on priority mitigation projects for jurisdictions, which contribute to the creation of each jurisdiction's mitigation strategy.**
- **The local mitigation strategy is a crucial component of the plan update process, as it allows jurisdictions to update (and sometimes create) their listing of priority mitigation projects. FEMA also refers to this listing when they review proposals for grant funding through their mitigation programs.**

Plan Update Timeline

- **During the May full Council meeting, there were several plan components pinpointed for further review in the Subcommittee meetings. GRADD staff worked on preparing those elements and other sections for the June East and West Subcommittee meetings. (The content and outcomes of the Subcommittee meetings will be reviewed during the work session.)**
- **GRADD GIS staff commenced hazard mapping efforts, which will be incorporated into various sections of the plan.**
- **By the end of May, GRADD staff posted the first draft of a plan section (Section 3.4, the Mitigation Strategy) on the Hazard Mitigation page on the GRADD website for public review and comment.**
- **In June, the East and West Subcommittees met and approved many plan revisions/additions.**
- **GRADD staff continued to coordinate with cities and counties in the development of local mitigation strategies. In addition, they continued revising all sections of the plan in preparation for posting on the Hazard Mitigation page on the GRADD website.**

Plan Update Timeline

- **In early July, a revised draft of Section 3.4, the Mitigation Strategy, was posted on the Hazard Mitigation page on the GRADD website. First drafts of the Executive Summary, Section 3.1 (Prerequisites), Section 3.2 (The Planning Process), and Section 3.5 (Plan Maintenance Procedures) were also posted on the page.**
- **In compliance with the Pre-Disaster Mitigation grant program funding the plan update process, GRADD staff prepared and submitted a quarterly report covering the work completed from April 1, 2010, through June 30, 2010.**
- **GRADD staff members continue to:**
 - **Incorporate local data into all plan sections;**
 - **Coordinate with cities and counties in the development of local mitigation strategies; and**
 - **Develop Section 3.3, the Risk Assessment, which includes the bulk of the hazard event data and hazard mapping.**

Plan Update Time

- **In August 2010, GRADD staff members plan to:**
 - **Finalize an initial draft of Section 3.3, the Risk Assessment, and post on the Hazard Mitigation page on the GRADD website;**
 - **Complete the collection of information from all cities and counties for the creation of local mitigation strategies;**
 - **Coordinate with communities to collect Hazard Risk Levels and updates to the Capability Assessment;**
 - **Complete all hazard mapping;**
 - **Compile all sections of the GRADD Hazard Mitigation Plan update and post on the Hazard Mitigation page for public review and comment; and**
 - **Submit the draft of the GRADD Hazard Mitigation Plan update for an initial state-level review**

***An outline of the review process will be provided at the end of the work session.**

GRADD Hazard Mitigation Council

July 30, 2010

Work Session

Risk Assessment: Hazard Risk Index

The East and West Subcommittees considered needed revisions to the Hazard Risk Index used to analyze the level of risk for each hazard type in the plan. The Subcommittees approved new language inserted in the “Impact” portion, which will consider the costs of damages as a component of the overall impact determination.

Impact – The severity of the impact of a hazard is assessed based upon the following scale:

Catastrophic	The possibility of multiple deaths and injuries
	More than 50 percent of the property damage or destroyed
	Shutdown of facilities for possibly 30 days or more
	Possibility of relocation of critical facilities
	Costs of damages exceed the capabilities of city, county, and state resources, prompting a Presidential Disaster Declaration

Hazard Risk Index

Critical

The possibility of multiple injuries

More than 25 percent of property damage or destroyed

Shutdown of facilities for a week or more

Possibility of relocation of critical facilities

Costs of damages exceed the capabilities of city and/or county resources, prompting the declaration of a State of Emergency

Limited

Only minor injuries

More than 10 percent of property damaged or destroyed

Shutdown of facilities for more than one day

Costs of damages can be addressed with city and/or county resources and possible assistance from the state

Hazard Risk Index

Minor

Few injuries

Minor property damage

Minimal disruption to quality of life

Temporary shutdown of facilities

Costs of damages can be addressed with city and/or county resources

The East and West Subcommittees also addressed the “Location” portion to include consideration of individual jurisdictions, rather than the GRADD area as a whole.

Location – Analysis of location is based on the extent of the **jurisdiction** affected by the particular hazard according to the following scale

Hazard Risk Index

Large More than 50 percent of the **jurisdiction** affected

Moderate 10 – 50 percent of the **jurisdiction** affected

Low Less than 10 percent of the **jurisdiction** affected

***For the Location section, **jurisdiction** replaces “GRADD area” in each instance.**

Risk Assessment: GRADD Hazard Profile Worksheet and Hazard Risk Levels

The East and West Subcommittees considered the GRADD Hazard Profile Worksheet, taking particular note of the Hazard Risk Levels assigned to the two new hazards – Dam Failure/Levees and Landslides. They approved the following:

GRADD Region Hazard Profile Worksheet					
Hazard	Magnitude	Frequency	Location	Impact	Hazard Risk Index Rating
Dam Failure	Low Hazard Dam	Low	Small	Limited	3
	Moderate Hazard Dam	Low	Moderate	Critical	
	High Hazard Dam	Low	Large	Catastrophic	
Landslides	Severe	Moderate	Moderate	Critical	3

***3 – Low Risk**

Mitigation Strategy

The East and West Subcommittees reviewed the Goals, Objectives, and Actions outlined in Section 3.4, the Mitigation Strategy. During the May full Council meeting, participants recommended that the Subcommittees consider an additional action to build upon this existing action:

Action 2.1.2 Develop land use planning for all jurisdictions

The full Council recommended acknowledgement of comprehensive planning. The Subcommittees approved the following action:

Action 2.1.8 Urge communities to update comprehensive plans per the guidelines and regulations set forth in KRS Chapter 100.00

Mitigation Strategy

During the May full Council meeting, participants recommended that the Subcommittees consider a new action to build upon the following action:

Action 2.1.3 Encourage participation in the National Flood Insurance Program

The Subcommittees proposed and approved the following action, which addresses communities that are already participants in the NFIP:

Action 2.1.9 Promote continued National Flood Insurance Program affiliation and compliance for current participating communities

Mitigation Strategy

The full Council agreed on the need to revise the current timetable for mitigation projects included in Section 3.4, the Mitigation Strategy. The East and West Subcommittees considered the following timetables:

Short Term	< 1 year
Medium Term	1 – 5 years
Long Term	6 – 7 years
Short Term	0 – 2 years
Medium Term	3 – 10 years
Long Term	11 – 20 years
Short Term	0 – 2 years
Medium Term	3 – 6 years
Long Term	7 – 10 years

Mitigation Strategy

Through their discussions, the Subcommittees proposed and discussed additional timetables, but in the end, they decided to eliminate the “Medium Term.” Many agreed that it can be difficult to predict how long a project over 2 years might last. They expressed concern that a “Medium Term” might unnecessarily complicate the consideration of projects. In the end, they agreed upon the following timetable:

Short Term	0 – 2 years
Long Term	3 – 10 years

Mitigation Strategy

The East and West Subcommittees considered the regional projects to include in the GRADD Mitigation Strategy. Many of the projects included are the same as the strategy from the original plan, as reviewed during the May full Council meeting. The Subcommittees did, however, agree to expand upon the GIS data collection project to stress the need for all city, county, and regional GIS departments to work together on data collection efforts.

The language of the proposed GIS data collection project is included on the next slide. A full copy of the GRADD Mitigation Strategy is among the meeting materials.

Mitigation Strategy

Local Hazard Mitigation Strategy -- Local Mitigation Projects										
Jurisdiction / Project Scope	Responsible Party	Funding Source	Estimated Timetable	Project Type			Implementation			Overall Priority
Green River Area Development District			Short Term (0 - 2 years)	Structural	Nonstructural	Regulatory	Effect on Risk	Ease of Implementation	Cost / Benefit	11-15
			Long Term (3 - 10 years)							6-10
Project Scope							1 (Low/Difficult) to 5 (High/Easy)			1-5 Low
Priority Mitigation Projects										
Continue with the collection of Geographic Information System (GIS) data for critical and essential facilities and coordinate with all cities, counties, and regional agencies with GIS departments to expand the availability of data for critical and essential facilities, basic infrastructure, and utilities	GRADD GIS Staff	Section 3.4.3	Long Term		X		3	4	4	11 -- High

Plan Maintenance Procedures

The East and West Subcommittees discussed and agreed upon the following revisions to Section 3.5, the Plan Maintenance Procedures:

Plan Maintenance Procedures			
	From the Original Plan	Implementation Problems	Changes
1	The GRADD Hazard Mitigation Council will meet twice every calendar year (in April and October).	The GRADD Hazard Mitigation Council did not meet twice a year.	The GRADD Hazard Mitigation Council will meet twice a year, in April and October, as long as there is enough Council business to develop a substantive agenda. Meeting cancellation will be at the discretion of Hazard Mitigation Council officers. If a Council meeting is cancelled, GRADD staff will issue a memo outlining the reason for the meeting cancellation, along with any additional information that cannot wait until the next meeting. At a minimum, the Council must meet at least once a year.

Plan Maintenance Procedures

	From the Original Plan	Implementation Problems	Changes
2	<p>The October meeting will involve an evaluation of the plan, which will result in a report for presentation at the November GRADD Board of Directors meeting.</p>	<p>This annual plan evaluation and report presentation never occurred.</p>	<p>At least once a year, an evaluation of the status of the GRADD Hazard Mitigation Plan will be posted on the Hazard Mitigation Page on the GRADD website. The evaluation will include information on recent hazard events, the usage of the plan, the Council's activities, and hazard mitigation projects in progress or completed.</p>
3	<p>County EM Directors will conduct quarterly county meetings to assess the strategies in the plan and how they are working at the county level. The information and input gathered will be presented at the subsequent full Council meeting.</p>	<p>These quarterly meetings (with a specific focus on the GRADD Hazard Mitigation Plan) did not occur.</p>	<p>County EM Directors will monitor hazard events and the pursuit and implementation of mitigation projects throughout their respective counties. They will work directly with communities in the county to complete a quarterly report form that will be submitted to GRADD staff. If necessary, EM Directors will conduct countywide meetings to discuss needed changes to the Mitigation Strategy and other sections of the GRADD Hazard Mitigation Plan. EM Directors will have an opportunity to present any information and/or experiences at full Council meetings.</p>

Plan Maintenance Procedures

	From the Original Plan	Implementation Problems	Changes
4	The designated "Responsible Party" for each project listed in the Mitigation Strategy will report on implementation progress and difficulties.	The "responsible party" designees did not formally report on project implementation; however, they were occasionally contacted for information on implementation status.	During efforts to evaluate the plan, and the Mitigation Strategy section in particular, the Council, county EM Directors, and GRADD staff will rely on input from those designated as a "responsible party" to provide feedback on implementation successes and difficulties.
5	The GRADD Hazard Mitigation Council will accept recommendations from the Subcommittees regarding needed changes to the Risk Assessment section.	The Subcommittees did not formally meet after the plan development process and did not start to meet again until the plan update process commenced.	The GRADD Hazard Mitigation Council will rely on recommendations from county EM Directors and GRADD staff to determine whether or not changes to the Risk Assessment section are necessary.
6	Approximately 3 1/2 years after the adoption of the plan, the Chairman will lead a work session during the October meeting to start the plan update process. The work session will focus on information compiled from all previous meetings.	The work session with the full Council never occurred. GRADD staff met with EM Directors in October of 2009 to start discussing the plan update process. A Kickoff Meeting for the full Council occurred in November of 2009.	Officers of the GRADD Hazard Mitigation Council and county EM Directors will meet with GRADD staff approximately 3 1/2 years after FEMA approval to develop a strategy for the plan update process. They will review information compiled from the quarterly reports and the annual plan evaluations.

Plan Maintenance Procedures

	From the Original Plan	Implementation Problems	Changes
7	During the first full Council meeting following FEMA approval of the Plan, Council members will evaluate the planning process.	A formal review of the planning process for the original plan was never conducted.	Following FEMA approval of the GRADD Hazard Mitigation Plan update, a special meeting of the GRADD Hazard Mitigation Council will be conducted to review the components of the approval and to critique the planning process leading up to the approval.
8	The Council will regularly review the Goals, Objectives, and Actions to ensure their effectiveness and proper implementation.	Although the Subcommittees and Council reviewed the Goals, Objectives, and Actions during the plan update process, they did not do so at any point prior to the plan update meetings.	At every GRADD Hazard Mitigation Council meeting, the Goals, Objectives, and Actions, as outlined in the Mitigation Strategy, will be included as an agenda item to offer participants an opportunity to address their continued relevance and to propose any necessary revisions based on local experiences.
9	Council meetings will address mitigation actions taken and not taken and their effects upon hazards, communities, and the region.	Council meetings conducted after formal FEMA approval of the plan addressed possible methods for tracking completed mitigation projects; however, the meetings did not address specific and/or completed actions.	At every GRADD Hazard Mitigation Council meeting, participants will have the opportunity to share their experiences in pursuing and implementing mitigation projects. Whenever appropriate, GRADD staff members will seek guest speakers from state agencies to address the questions and challenges of the Council.

Plan Maintenance Procedures

	From the Original Plan	Implementation Problems	Changes
10	Following a federal disaster declaration, the Council will review the plan and specific mitigation actions.	The Council did not meet to review the plan following disaster declarations.	Following a federal disaster declaration for the state, GRADD staff members will meet with the county EM Directors to address the Mitigation Strategy for each community to ensure that all project priorities are sufficiently listed. Any findings, along with general discussion of the plan, will be presented during the next scheduled GRADD Hazard Mitigation Council meeting.

Plan Maintenance Procedures

As part of the Plan Maintenance Procedures, the East and West Subcommittees discussed an annual evaluation process. They approved a proposed evaluation form, which is included among the meeting materials.

The East and West Subcommittees recommend a quarterly reporting process to gather information on hazard events, damages, and declared emergencies. County EM Directors will be responsible for completing the report and will confer with each city to collect the appropriate data from the local level before submitting a final product for GRADD staff review. The report will assist with future updates to the plan and will facilitate the completion of the annual evaluation for the plan. GRADD staff prepared an example quarterly report form and distributed it to County EM Directors. A copy of the form is among the meeting materials.

Plan Update Review Phase

- **GRADD staff will submit the first draft of the GRADD Hazard Mitigation Plan update to the state for review in late August or early September.**
- **The state review process could take two months. The state will likely propose recommended revisions before sending the plan update to FEMA for review.**
- **The plan update must be submitted to FEMA for review no later than November 19, 2010. This submission date should ensure FEMA review and any proposed revisions are completed in time for an approval prior to the January 2011 plan expiration.**
- **FEMA will issue an “approval pending adoption.” At this time, all GRADD communities must pass resolutions adopting the plan update. GRADD staff will work with all jurisdictions to devise a strategy for plan adoption starting in November 2010.**

Kentucky State Hazard Mitigation Plan

Update Status

State Hazard Mitigation Plan Update

- **The University of Louisville Center for Hazards Research and Policy Development, in coordination with Kentucky Emergency Management and the State Hazard Mitigation Office, started the State Hazard Mitigation Plan update process in August 2009.**
- **Three stakeholder meetings were conducted in Frankfort, starting in January 2010.**
- **The update process allowed improved integration of regional plans and input from other agencies.**
- **The Risk Assessment section includes updated data for all 13 hazards profiled.**
- **To assess vulnerability, the plan uses a methodology utilizing an “Exposure Score” and a “Risk Score” to compute an overall “Hazard Vulnerability Score.”**
- **The scores were determined, in part, through the use of census block data.**
- **The plan update also includes revisions to the Mitigation Strategy and Plan Maintenance Procedures sections.**

State Hazard Mitigation Plan Update

- **A draft of the State Hazard Mitigation Plan Update was submitted for FEMA review in late May.**
- **To date, FEMA has not issued any feedback regarding their initial review, but the UofL Center for Hazard Research and Policy Development anticipates receiving something soon. It is likely they will need to make minor revisions before receiving full FEMA approval.**
- **The current State Hazard Mitigation Plan expires in October 2010, and the update will need full FEMA approval by that time.**
- **State Hazard Mitigation Plans must undergo the update process every 3 years.**

CHAMPS

Commonwealth Hazard Assessment and Mitigation Planning System

- **The state received a 2008 Pre-Disaster Mitigation (PDM) program grant to pursue this initiative. The endeavor combines the update of the State Hazard Mitigation Plan with the creation of a comprehensive planning system.**
- **The stated purpose of CHAMPS is:**

Integrating technologies and methods intended to maximize stakeholder input, local collaboration, standardized planning models/risk assessment, create accountable mitigation tracking, and coordination with local planning activities and plan maintenance responsibilities

- **The state partnered with Stantec, a national consulting firm, to create the online planning system. The system is currently in the final, testing stages, but it is not yet available for use.**

CHAMPS

- **CHAMPS will integrate all levels of mitigation planning throughout the state.**
- **Through CHAMPS, regional hazard mitigation plans (including the GRADD Hazard Mitigation Plan) will be uploaded and updated on a regular basis. This will allow for regular plan maintenance and “real time” reporting of hazard events (location and consequences).**
- **CHAMPS will offer a direct link between the mitigation plan and mitigation actions. Entities will be able to submit proposed mitigation projects through the system at any time (effectively replacing the current Letter of Intent process).**
- **All testing of CHAMPS should be complete by the end of 2010. The current schedule projects that CHAMPS will be fully operational for the public by the first quarter of 2011.**
- **ADD staff will receive training on using the system, but a schedule for that training has not been determined.**

GRADD Hazard Risk Levels

Location	Earthquake	Flood	Tornado	Severe Thunderstorm	Severe Winter Storm	Excessive Heat / Drought	Subsidence	Dam / Levee Failure	Landslides
Daviess County	1	1	1	1	2	2	2		
Owensboro	1	1	1	1	2	2	3		
Whitesville	2	3	1	1	2	2	3		
Hancock County	3	1	1	1	2	2	3		
Hawesville	3	1	1	1	2	2	3		
Lewisport	3	1	1	1	2	2	3		
Henderson County	1	1	1	1	2	2	1		
Corydon	2	2	1	1	2	2	3		
Henderson	1	1	1	1	2	2	1		
Robards	2	3	1	1	2	2	3		
McLean County	2	1	1	1	2	2	3		
Calhoun	2	1	1	1	2	2	3		
Island	2	1	1	1	2	2	3		
Livermore	2	1	1	1	2	2	2		
Sacramento	2	2	1	1	2	2	3		
Ohio County	3	1	1	1	2	2	1		
Beaver Dam	2	1	1	1	2	2	3		
Centertown	3	3	1	1	2	2	2		
Fordsville	3	1	1	1	2	2	3		
Hartford	2	1	1	1	2	2	3		
McHenry	3	1	1	1	2	2	3		
Rockport	3	1	1	1	2	2	1		
Union County	1	1	1	1	2	2	1		
Morganfield	1	2	1	1	2	2	2		
Sturgis	1	1	1	1	2	2	1		
Uniontown	1	1	1	1	2	2	2		
Waverly	1	3	1	1	2	2	1		
Webster County	1	1	1	1	2	2	1		
Clay	1	1	1	1	2	2	1		
Dixon	1	2	1	1	2	2	3		
Providence	1	2	1	1	2	2	1		
Sebree	1	1	1	1	2	2	2		
Slaughters	1	1	1	1	2	2	3		
Wheatcroft	1	1	1	1	2	2	1		

High Risk

Moderate Risk

Low Risk

GRADD Region Hazard Profile Worksheet

Hazard	Magnitude	Frequency	Location	Impact	Hazard Risk Index Rating
Flooding	1 -25 Year Event	High	Large	Limited	1
	26 - 100 Year Event	Moderate	Large	Critical	
	> 100 Year Event	Low	Large	Catastrophic	
Tornadoes	F0	Very High	Small	Limited	1
	F1	High	Small	Limited	
	F2	Moderate	Moderate	Critical	
	F3	Moderate	Moderate	Catastrophic	
	F4	Low	Large	Catastrophic	
F5	Very Low	Large	Catastrophic		
Severe Thunderstorms	Severe	Very High	Moderate	Critical	1
Severe Winter Storms	Severe	High	Large	Critical	2
Excessive Heat / Drought	Mild	Moderate	Large	Limited	2
	Moderate	Moderate	Large	Critical	
	Severe	Low	Large	Catastrophic	
Earthquakes	VI	Moderate	Large	Limited	1
	VII	Low	Large	Critical	
	VIII	Low	Large	Catastrophic	
Subsidence	Low	Low	Small	Limited	2
Dam Failure	Low Hazard Dam	Low	Small	Limited	3
	Moderate Hazard Dam	Low	Moderate	Critical	
	High Hazard Dam	Low	Large	Catastrophic	
Landslides	Severe	Moderate	Moderate	Critical	3

GRADD Capability Assessment: Existing Authorities, Policies Programs, and Resources

Jurisdiction	Floodplain Management Ordinance	Building Codes	Zoning Regulations	Americorps Homeland Security	Cert Team	Economic Development Department	Regional Development Agency
Daviess County	X	X	X	X	X	X	X
City of Owensboro	X	X	X	X	X	X	X
City of Whitesville							X
Hancock County			X	X	X	X	X
City of Hawesville	X	X	X				X
City of Lewisport	X	X	X				X
Henderson County	X	X	X	X	X	X	X
City of Corydon		X					X
City of Henderson	X	X	X			X	X
City of Robards							X
McLean County	X	X	X			X	X
City of Calhoun	X		X				X
City of Island							X
City of Livermore	X	X					X
City of Sacramento							X
Ohio County	X			X	X	X	X
City of Beaver Dam	X	X	X		X	X	X
City of Centertown	X				X		X
City of Fordsville					X		X
City of Hartford	X	X	X		X	X	X
City of McHenry	X				X		X
City of Rockport					X		X
Union County	X	X	X			X	X
City of Morganfield	X	X	X				X
City of Sturgis	X			X			X
City of Uniontown	X	X					X
City of Waverly							X
Webster County		X			X	X	X
City of Clay	X	X					X
City of Dixon							X
City of Providence	X	X	X	X	X		X
City of Sebree	X						X
City of Slaughters	X						X
City of Wheatcroft							X

*Each jurisdiction maintains responsibility for developing, enacting, and enforcing the programs and regulations listed above.

Local Hazard Mitigation Strategy -- Local Mitigation Projects

Jurisdiction / Project Scope	Responsible Party	Funding Source	Estimated Timetable	Project Type			Implementation			Overall Priority
Green River Area Development District			Short Term (0 - 2 years) Long Term (3 - 10 years)	Structural	Nonstructural	Regulatory	Effect on Risk	Ease of Implementation	Cost / Benefit	11-15 High 6-10 Med 1-5 Low
Project Scope							1 (Low/Difficult) to 5 (High/Easy)			
Completed Projects from the Original GRADD Hazard Mitigation Plan										
Develop Geographic Information System (GIS) data on critical and essential facilities (ONGOING)	GRADD GIS Staff	Section 3.4.3	Long Term		X		3	4	4	11 -- High
Facilitate future meetings with the GRADD Hazard Mitigation Council (ONGOING)	GRADD Planning Staff	Section 3.4.3	Long Term		X		2	5	3	10 -- Med
Create and maintain a Hazard Mitigation page on the GRADD Website (ONGOING)	GRADD Technical Support Staff	Section 3.4.3	Long Term		X		2	4	3	9 -- Med
Priority Mitigation Projects										
Develop a detailed and interactive priority ranking system for hazard mitigation projects in the region	GRADD Planning Staff	Section 3.4.3	Long Term		X		3	3	5	11 -- High

Local Hazard Mitigation Strategy -- Local Mitigation Projects

Jurisdiction / Project Scope	Responsible Party	Funding Source	Estimated Timetable	Project Type			Implementation			Overall Priority
Green River Area Development District			Short Term (0 - 2 years) Long Term (3 - 10 years)	Structural	Nonstructural	Regulatory	Effect on Risk	Ease of Implementation	Cost / Benefit	11-15 High 6-10 Med 1-5 Low
Project Scope							1 (Low/Difficult) to 5 (High/Easy)			
Continue with the collection of Geographic Information System (GIS) data for critical and essential facilities and coordinate with all cities, counties, and regional agencies with GIS departments to expand the availability of data for critical and essential facilities, basic infrastructure, and utilities	GRADD GIS Staff	Section 3.4.3	Long Term		X		3	4	4	11 -- High
Coordinate efforts with the Kentucky Geological Survey to pursue a seismic mapping project for every county in the region	GRADD Planning Staff	Section 3.4.3	Long Term		X		4	3	3	10 -- Med
Continue to update the Hazard Mitigation page on the GRADD website	GRADD Planning Staff	Section 3.4.3	Long Term		X		2	4	3	9 -- Med

Local Hazard Mitigation Strategy -- Local Mitigation Projects

Jurisdiction / Project Scope	Responsible Party	Funding Source	Estimated Timetable	Project Type			Implementation			Overall Priority
Green River Area Development District			Short Term (0 - 2 years) Long Term (3 - 10 years)	Structural	Nonstructural	Regulatory	Effect on Risk	Ease of Implementation	Cost / Benefit	11-15 High 6-10 Med 1-5 Low
Project Scope							1 (Low/Difficult) to 5 (High/Easy)			
Create floodplain maps for communities that do not have existing Q3 floodplain data from FEMA	GRADD GIS Staff	Section 3.4.3	Long Term		X		3	3	3	9 -- Med
Facilitate future GRADD Hazard Mitigation Council meetings and continue the pursuit of funding opportunities for mitigation planning projects	GRADD Planning Staff	Section 3.4.3	Long Term		X		2	4	3	9 -- Med
Create a natural hazard event tracking system for the region to maintain awareness of the types of events that pose the greatest risks to the region	GRADD Planning Staff	Section 3.4.3	Long Term		X		2	4	3	9 -- Med
Encourage all jurisdictions to participate in the National Flood Insurance Program	GRADD Planning Staff	Section 3.4.3	Long Term		X		1	3	3	7 -- Med

GRADD HAZARD MITIGATION PLAN – ANNUAL EVALUATION

GRADD Staff Evaluator: Title:	Evaluation Period:
GRADD Hazard Mitigation Plan FEMA Approval Date:	GRADD Hazard Mitigation Council Meeting Dates:
HOW MANY TIMES DID THE GRADD HAZARD MITIGATION COUNCIL MEET DURING THE EVALUATION PERIOD? IF A REGULAR MEETING WAS CANCELLED, WHAT WAS THE REASON?	
WHICH TOPICS WERE DISCUSSED DURING THE COUNCIL MEETINGS? WERE THERE ANY RECOMMENDATIONS FOR PLAN CHANGES?	
ARE THE GOALS, OBJECTIVES, AND ACTIONS LISTED IN THE MITIGATION STRATEGY STILL RELEVANT TO THE PLAN AND ITS OVERALL UTILITY FOR THE REGION? HOW WAS THIS DETERMINATION MADE? IF CHANGES ARE NECESSARY, WHAT ARE THEY?	
WERE THERE ANY MITIGATION PROJECTS SUCCESSFULLY IMPLEMENTED DURING THE EVALUATION PERIOD? IF SO, LIST THE PROJECT TYPE AND THE COMMUNITY INVOLVED.	
ARE THERE ANY MITIGATION PROJECTS CURRENTLY IN PROGRESS? IF SO, LIST THE PROJECT TYPE AND THE COMMUNITY INVOLVED.	
WAS THERE A PRESIDENTIAL DISASTER DECLARATION FOR KENTUCKY DURING THE EVALUATION PERIOD? IF SO, WERE ANY GRADD COUNTIES AFFECTED?	
DATE REVIEWED BY THE GRADD HAZARD MITIGATION COUNCIL	DATE POSTED ON THE GRADD WEBSITE
Date:	Date:

GRADD Hazard Mitigation Plan

Quarterly Report

County:

Reporting Period*: January – March April – June July – September
October – December

Year:

Prepared By:

Natural Hazards

Hazard Type Experienced During the Reporting Period	Location(s) and Damages

Emergency Declarations

Date	Hazard Type	Location(s)	Additional Information / Declaration Type

*Please note that quarterly reports are due to GRADD staff on the 15th of the month following the end of a reporting period. Consequently, reports are due on April 15, July 15, October 15, and January 15.

Mitigation Strategies – Completed Projects

Entity	Project	Funding Source	Is the project included in the GRADD Hazard Mitigation Plan?

Mitigation Strategies – Projects in Progress

Entity	Project	Funding Status	Is this project included in the GRADD Hazard Mitigation Plan? What is the current status of the project?

Hazard Mitigation Planning Obstacles

What are some of the obstacles your county faces when addressing and responding to natural hazard events?

GRADD Hazard Mitigation Plan – Changes and Updates

Are you aware of any changes or updates that need to be made to the GRADD Hazard Mitigation Plan? This could involve the addition of a new natural hazard types; the incorporation of new data; and/or the inclusion of new projects for individual jurisdictions.

Additional Information / Documentation

Please attach additional pages and/or documentation if necessary. Provide a list of any additional documentation below.

Submission Date _____

Preparer's Signature _____