

REQUEST FOR BOARD ACTION

HENDERSON COUNTY BOARD OF COMMISSIONERS

MEETING DATE: June 1, 2015

SUBJECT: Hazard Mitigation Plan Approval

PRESENTER: Rocky Hyder

ATTACHMENTS: Yes

- 1. Resolution**
- 2. Action Items**

SUMMARY OF REQUEST:

The South Mountains Regional Hazard Mitigation Plan has been developed in cooperation with Henderson, Polk, Rutherford and Transylvania Counties along with the municipalities within the region. The planning team has surveyed the community electronically and held two public meetings to solicit input for the plan. The plan has been reviewed and approved by North Carolina Emergency Management and the Federal Emergency Management Agency for compliance with the North Carolina Emergency Management Act and the Robert T. Stafford Disaster Relief and Emergency Assistance Act. An approved Hazard Mitigation Plan is required in order to receive state and federal disaster assistance.

BOARD ACTION REQUESTED:

Consider the attached resolution formally adopting the South Mountains Regional Hazard Mitigation Plan.

Suggested Motion:

I move the Board approve the resolution to adopt the South Mountains Regional Hazard Mitigation Plan.

HENDERSON COUNTY BOARD OF COMMISSIONERS

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THOMAS THOMPSON
Chairman
CHARLIE MESSER
Vice-Chairman

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GRADY HAWKINS
WILLIAM LAPSLEY

RESOLUTION TO ADOPT THE SOUTH MOUNTAINS REGIONAL HAZARD MITIGATION PLAN

- WHEREAS, Henderson County is vulnerable to an array of natural hazards that can cause loss of life and damages to public and private property; and
- WHEREAS, the Henderson County desires to seek ways to mitigate situations that may aggravate such circumstances; and
- WHEREAS, the development and implementation of a hazard mitigation plan can result in actions that reduce the long-term risk to life and property from natural hazards; and
- WHEREAS, it is the intent of the Henderson County Board of Commissioners to protect its citizens and property from the effects of natural hazards by preparing and maintaining a local hazard mitigation plan; and
- WHEREAS, it is also the intent of the Henderson County Board of Commissioners to fulfill its obligation under North Carolina General Statutes, Chapter 166A: North Carolina Emergency Management Act and Section 322: Mitigation Planning, of the Robert T. Stafford Disaster Relief and Emergency Assistance Act to remain eligible to receive state and federal assistance in the event of a declared disaster affecting the County; and
- WHEREAS, Henderson County in coordination with Flat Rock, Fletcher, Hendersonville, Laurel Park, Mills River, Polk County, Columbus, Saluda, Tryon, Rutherford County, Bostic, Chimney Rock Village, Ellenboro, Forest City, Lake Lure, Ruth, Rutherfordton, Spindale, Transylvania County, Brevard and Rosman has prepared a multi-jurisdictional hazard mitigation plan with input from the appropriate local and state officials;
- WHEREAS, the North Carolina Division of Emergency Management and the Federal Emergency Management Agency have reviewed the South Mountains Regional Hazard Mitigation Plan for legislative compliance and has approved the plan pending the completion of local adoption procedures;
- NOW, THEREFORE, BE IT RESOLVED that the Henderson County Board of Commissioners hereby:
1. Adopts the South Mountains Regional Hazard Mitigation Plan; and
 2. Agrees to take such other official action as may be reasonably necessary to carry out the proposed actions of the Plan.

Adopted this the 1st day of June, 2015.

THOMAS THOMPSON, CHAIRMAN
HENDERSON COUNTY BOARD OF COMMISSIONERS

ATTEST:

TERESA L. WILSON, CLERK TO THE BOARD

Henderson County Mitigation Action Plan

Henderson County Existing Mitigation Actions

Action #	Description	Hazard(s) Addressed	Relative Priority	Funding Sources	Estimated Cost	Responsible Party	Target Completion Date	2014 Action Implementation Status
Prevention								
P-1	Develop a County Stormwater Management Plan.	FL	Moderate	General Revenue		Engineering Department	Completed	Adopted Stormwater Ordinance 9-1-2010
P-2	Incorporate into the County Zoning and Subdivision Ordinances construction standards for privately owned bridges.	All	Moderate	General Revenue		Engineering Department	Completed	Private Bridge Standards are included in Land Development Code 200A-105F.
P-3	Monitor water and sewer lines in the floodplain through GIS processes.	FL	High	General Revenue		GIS	Completed	A GIS layer has been developed that includes water and sewer lines.
P-4	Install stream gauges on major waterways throughout the County to collect data on stream water height and velocity (this will also assist in mitigating erosion hazards).	FL/ER	Moderate	General Revenue and Grants		County EMA	2019	Stream gauges have been installed on all major streams in Henderson County through private donations and the NC FIMAN project. However, more stream gauges would increase the size of the network and improve monitoring so this action is still in progress
P-5	Implement scaling as a method of preventative maintenance to reduce the amount of loose debris that could lead to landslides during high precipitation events or seismic events.	LS	Moderate	General Revenue and Grants		NC Department of Transportation	2018	NCDOT has implemented scaling in some problem areas in the Hickory Nut Gorge area. However, this could be implemented in additional areas
P-6	Develop a dam/levee structural database with the County GIS system with the assistance of the North Carolina Dam Safety Program.	D	High	General Revenue		GIS Department/ County EMA	Completed	Henderson County has developed a dam/levee structural database with the assistance of the NC Department of Environment and Natural Resources, Dam Safety Division.

Henderson County Existing Mitigation Actions

Action #	Description	Hazard(s) Addressed	Relative Priority	Funding Sources	Estimated Cost	Responsible Party	Target Completion Date	2014 Action Implementation Status
P-7	Develop a stand-by acquisition grant application that lists properties with a high potential for damage or destruction due to a dam/levee failure.	D	Low	General Revenue and Grants		County EMA	2019	Properties have been identified through the GIS layer development. No funding has been awarded for acquisition, so this will remain an action going forward.
P-8	Develop a stand-by acquisition grant application that lists properties located in multi-hazard areas specifically those properties located near US HWY 74 and NC HWY 9 (Bat Cave) which are prone not only to flash flooding but also to severe landslides .	FL/LS	Low	General Revenue and Grants		County EMA	2019	Properties have been identified; landowners are unwilling to sell at this time. Will continue to pursue this action as possible
Property Protection								
PP-1	Incorporate development and construction standards into the Zoning and Subdivision Ordinances to further regulate construction in areas prone to landslides.	LS/FL	High	General Revenue		Planning Dept	2018	NCDENR made presentation to Board of Commissioners. Incorporating standards still needs to be achieved.
PP-2	Circulate an assessment survey to determine what methods or devices County agencies have in place for securing equipment and furniture during earthquake events.	EQ	Low	General Revenue		IT Dept	2018	More expensive equipment has been located to reduce damage from an earthquake. Some smaller and less expensive equipment remains unsecured.
PP-3	Establish policy to assure all computer equipment and furniture is secured in a manner to avoid toppling during an earthquake.	EQ	Low	General Revenue		Information Technology	Completed	IT policy in place to ensure computer equipment is secured to a desk or rack mounted.

Henderson County Existing Mitigation Actions

Action #	Description	Hazard(s) Addressed	Relative Priority	Funding Sources	Estimated Cost	Responsible Party	Target Completion Date	2014 Action Implementation Status
PP-4	Incorporate GIS modeling to show areas of the County prone to more serious damage during earthquake conditions.	EQ	High	General Revenue and Grants		GIS Department	Completed	HAZUS run completed during the 2014 Hazard Mitigation Regional Planning Update.
Natural Resource Protection								
NRP-1	Develop a plan, which will include annual monitoring of sediment transport and erosion, to address the long – term issue of river and stream erosion in the County.	ER	High	General Revenue and Grants		Engineering Department	Completed	Completed; This was accomplished by adding erosion division in October 2007.
NRP-2	Support State enforcement of sedimentation and erosion control regulations.	ER	High	General Revenue and Grants		Engineering Department	Completed	This has been accomplished and will continue to maintain and support.
NRP-3	Coordinate efforts with the U.S. Forestry Service to enforce banning burns.	WF	High	General Revenue		County EMA	Completed	USFS is notified when burning bans are in place and during red flag burning days. This will be continued going forward.
NRP-4	Encourage development and enlargement of buffers and green areas.	WF	High	General Revenue		Planning Dept	Completed	Land Development Code addresses buffers and green areas.

Henderson County Existing Mitigation Actions

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Emergency Services								
ES-1	Establish two – way radio communication for key personnel (i.e. County Manager, Emergency Services providers, Shelter Teams, etc.).	All	High	General Revenue and Grants		County EMA	Completed	New communications system will be installed by September 2014
ES-2	Include 311 systems, pre-scripted messaging in communications system.	All	Moderate	General Revenue and Grants		County EMA	Completed	3-1-1 is not available to Henderson County through AT&T. We have implemented a reverse 9-1-1 mass notification system so this action is complete.
ES-3	Establish auxiliary power systems via portable generators for all primary County buildings and schools. Make certain to include the wiring closets to accommodate technology routing.	All	High	General Revenue and Grants		Engineering Dept	2019	Several county facilities have been upgraded to include emergency power. Installation of transfer switches will continue as the budget allows.
ES-4	Assure adequate training for emergency personnel to respond to HAZMAT events is on-going.	HM	Moderate	General Revenue		County EMA	Completed	Hazardous Materials training is provided on an annual basis through Blue Ridge Community College
ES-5	Incorporate procedures for handling hazardous materials into GIS modeling.	HM	High	General Revenue		GIS Department	Completed	CAMEO, Aloha and other plume modeling products are available and in use.
ES-6	Reaffirm plans with emergency service agencies and providers for isolation and evacuation during HAZMAT events.	HM	Moderate	General Revenue and Grants		County EMA	2015, Annually review and update	Hazardous Materials plans for fixed facilities have been updated to include evacuation routes. However, these plans will need to be re-evaluated annually.
Structural Projects								
SP-1								

Henderson County Existing Mitigation Actions

Action #	Description	Hazard(s) Addressed	Relative Priority	Funding Sources	Estimated Cost	Responsible Party	Target Completion Date	2014 Action Implementation Status
Public Education and Awareness								
PEA-1	Hold a County sponsored hazard mitigation seminar for the county residents, including information on preparedness for all hazards significant to Henderson County.	All	Low	General Revenue		County EMA	Completed	Preparedness information included as a regular article in county monthly newsletter. Preparedness Fair held October 2013 at Jackson Park.
PEA-2	Educate contractors about principles for quality redevelopment and safe housing development through written materials or a County sponsored workshop.	All	Low	General Revenue		Planning Department	2019	Contractors have been educated to some degree, but more outreach is needed and the program needs to be re-evaluated. This action will be carried out going forward.
PEA-3	Provide new home and property buyers with information on quality redevelopment and safe housing development. The information is probably most efficiently dispersed at the County and local administration buildings.	All	Low	General Revenue		Planning Department	2018	The county has developed a brochure to provide information on safe housing development. However, further means of outreach need to be integrated.
PEA-4	Manually disperse and have a website posting which provides information about the Henderson County Multi-Jurisdictional Hazard Mitigation Plan and relevant mitigation measures the public can take. In addition, provide a response/reply section where residents can comment on the effectiveness of the current plan and where they can make suggestions for future revisions on then plan.	All	High	General Revenue		County EMA	2015, Annually review and update materials	County EMA website has links to preparedness and mitigation measures along with link to the current Hazard Mitigation Plan. This information will need to be reviewed and updated on an annual basis.
FL = Flood DR = Drought ES = Expansive Soils HU = Hurricane T = Tornado WF= Wildfire S/I = Snow/Ice ET = Extreme Temperatures EQ = Earthquake LS = Landslide L = Lightning ER = Erosion HM = HAZMAT D = Dams/Levees County EMA = Henderson County Emergency Management								