

Section 7: Mitigation Action Plans

The *Mitigation Action Plan* section includes a *Mitigation Action Plan* (MAP) for each participating jurisdiction, plus a separate MAP for the Unifour Region as a whole. As stated in Section 6, each County and participating jurisdiction has its own MAP that reflects the needs and concerns of that jurisdiction. The MAP represents an unambiguous and functional plan for action and is considered to be the most essential outcome of the mitigation planning process.

The participating jurisdictions are listed below in the order that the MAPs are included in this section.

- **Unifour Regional Actions**

- **Alexander County**

- Town of Taylorsville

- **Burke County**

- Town of Connelly Springs
- Town of Drexel
- Town of Glen Alpine
- Town of Hildebran
- City of Morganton
- Town of Rutherford College
- Town of Valdese

- **Caldwell County**

- Town of Cahah's Mountain
- Village of Cedar Rock
- Town of Gamewell
- Town of Granite Falls
- Town of Hudson
- City of Lenoir
- Town of Rhodhiss
- Town of Sawmills

- **Catawba County**

- Town of Brookford
- Town of Catawba
- City of Claremont
- City of Conover
- City of Hickory
- Town of Long View
- Town of Maiden
- City of Newton

Mitigation Action Plan—Alexander County

2014 Mitigation Actions

Mitigation Action 1	Conduct outreach to the public regarding Alexander County’s Community Alert System to educate them on how to obtain information both pre- and post- disaster event.
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Category:	Education and Awareness Programs
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Alexander County Emergency Services Department
Estimated Cost:	Minimal (staff time only)
Potential Funding Sources:	Alexander County General Fund
Implementation Schedule:	1-2 years
Priority (High, Moderate, Low):	High

Mitigation Action 2	Improve information sharing with Duke Energy regarding its operational procedures for the movement of water through its hydro-electric systems on the Catawba River. This can be achieved by meeting formally at least once a year, when significant weather events are anticipated and when upgrades or improvements to the system are scheduled.
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Category:	Education and Awareness Programs
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Alexander County Emergency Services Department
Estimated Cost:	Minimal (staff time only)
Potential Funding Sources:	Alexander County General Fund
Implementation Schedule:	Ongoing
Priority (High, Moderate, Low):	High

Mitigation Action 3	Establish a protocol for monitoring the tail race areas below the Catawba River dams during high water events to ensure security of the area and limiting public access.
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Category:	Local Plans and Regulations; Education and Awareness Programs
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Alexander County Emergency Services Department; Sheriff’s Office
Estimated Cost:	Minimal (staff time only)
Potential Funding Sources:	Alexander County General Fund
Implementation Schedule:	Ongoing
Priority (High, Moderate, Low):	High

Mitigation Action 4	Install generator transfer switch connections during the construction of new public facilities (schools, fire stations, County buildings, etc.).
Category:	Structure and Infrastructure Projects
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Alexander County Finance Department; Alexander County Emergency Services Department
Estimated Cost:	To be determined
Potential Funding Sources:	Alexander County General Fund; Department of Homeland Security – Emergency Management Performance Grants (EMPG), Hazard Mitigation Grant Program (HMGP), Pre-Disaster Mitigation (PDM) program
Implementation Schedule:	Ongoing
Priority (High, Moderate, Low):	High

Mitigation Action 5	Integration of a cooperative hazard mitigation program into new development, commercial districts, infrastructure, and land use planning.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Alexander County Emergency Services Department; Alexander County Planning Department
Estimated Cost:	Minimal (staff time only)
Potential Funding Sources:	Alexander County General Fund
Implementation Schedule:	3-5 years
Priority (High, Moderate, Low):	High

Mitigation Action 6	Promote a standard hookup for emergency generators such that any portable generator can be simply connected to it for supply of power to vital circuits in homes and/or public buildings. Priority locations are nursing homes, schools, and government buildings.
Category:	Other
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Alexander County Emergency Services Department; American Red Cross
Estimated Cost:	To be determined
Potential Funding Sources:	Department of Homeland Security – Emergency Management Performance Grants (EMPG), Hazard Mitigation Grant Program (HMGP), Pre-Disaster Mitigation (PDM) program.
Implementation Schedule:	1-2 years
Priority (High, Moderate, Low):	Moderate to High

Mitigation Action 7	To establish, where feasible, additional emergency response forces, by at least 10%, that are trained, equipped and prepared to respond to a variety of emergency and disaster situations. This concept is concurred by Alexander County and the Town of Taylorsville.
Category:	Other
Hazard(s) Addressed:	Flood; Hurricane and Tropical Storm; Thunderstorm, Lightning and Hail; Tornado; Wildfire; Drought; Winter Weather
Lead Agency/Department Responsible:	Alexander County Manager and Commissioners
Estimated Cost:	Minimal (staff time only)
Potential Funding Sources:	Alexander County General Fund
Implementation Schedule:	3-5 years
Priority (High, Moderate, Low):	Low

Mitigation Action 8	Retrofit or relocate residential structures in 100-year floodplain. Recent count of structures inside the 100-year floodplain indicates that flooding could occur of such magnitude to cause a significant impact on citizens. This action will depend upon state and federal assistance through the “buy-out” program for floodplains and flood-prone areas. Zero tolerance for persons building in floodplain or flood-prone areas will be incorporated.
Category:	Structure and Infrastructure Projects
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Alexander County Planning Department; Alexander County Emergency Services Department
Estimated Cost:	To be determined during the feasibility phase
Potential Funding Sources:	Alexander County; State of North Carolina; Federal Government
Implementation Schedule:	5-10 years
Priority (High, Moderate, Low):	Moderate

Mitigation Action 9	Retrofit critical facilities to reduce collapsing materials. Funding is the most important issue for this action. Public education and awareness must be accomplished prior to implementations.
Category:	Structure and Infrastructure Projects
Hazard(s) Addressed:	Multiple Hazards
Lead Agency/Department Responsible:	Alexander County Building Inspection Department; Alexander County Emergency Services Department
Estimated Cost:	To be determined during the feasibility phase
Potential Funding Sources:	Alexander County and Hazard Mitigation Grant monies
Implementation Schedule:	5-10 years
Priority (High, Moderate, Low):	Low

Status of Previously Adopted Mitigation Actions

Mitigation Action 1	To establish, where feasible, additional emergency response forces, by at least 10%, that are trained, equipped and prepared to respond to a variety of emergency and disaster situations. This concept is concurred by Alexander County and the Town of Taylorsville.
Category:	Emergency Services
Hazard(s) Addressed:	Floods; Hurricanes and Tropical Storms; Severe Thunderstorms and Tornadoes; Wildfire; Drought; Winter Storms
Lead Agency/Department Responsible:	Alexander County Manager and Commissioners
Estimated Cost:	Minimal (staff time only)
Potential Funding Sources:	Alexander County General Fund
Implementation Schedule:	3-5 years
Priority (High, Moderate, Low):	Low
2014 Status:	Ongoing. Additional funding has been secured for Rescue. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 7 above.)

Mitigation Action 2	Integration of a cooperative hazard mitigation program into new development, commercial districts, infrastructure, and land use planning.
Category:	Property Protection; Prevention
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Alexander County Emergency Services Department; Alexander County Planning Department
Estimated Cost:	Minimal (staff time only)
Potential Funding Sources:	Alexander County General Fund
Implementation Schedule:	3-5 years
Priority (High, Moderate, Low):	High
2014 Status:	No changes or updates have been made to local ordinances or zoning regulations since the last plan update. Changes and updates are anticipated when funding and staff time allow. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 5 above.)

Mitigation Action 3	Retrofit or relocate residential structures in 100-year floodplain. Recent count of structures inside the 100-year floodplain indicates that flooding could occur of such magnitude to cause a significant impact on citizens. This action will depend upon state and federal assistance through the “buy-out” program for floodplains and flood-prone areas. Zero tolerance for persons building in floodplain or flood-prone areas will be incorporated.
Category:	Property Protection
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Alexander County Planning Department; Alexander County Emergency Services Department
Estimated Cost:	To be determined during the feasibility phase
Potential Funding Sources:	Alexander County; State of North Carolina; Federal Government
Implementation Schedule:	5-10 years
Priority (High, Moderate, Low):	Moderate
2014 Status:	To date only one structure has sustained damage and no funds were available for buyout. We continually monitor this. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 8 above.)

Mitigation Action 4	Retrofit critical facilities to reduce collapsing materials. Funding is the most important issue for this action. Public education and awareness must be accomplished prior to implementations.
Category:	Property Protection
Hazard(s) Addressed:	Multiple Hazards
Lead Agency/Department Responsible:	Alexander County Building Inspection Department; Alexander County Emergency Services Department
Estimated Cost:	To be determined during the feasibility phase
Potential Funding Sources:	Alexander County and Hazard Mitigation Grant monies
Implementation Schedule:	5-10 years
Priority (High, Moderate, Low):	Low
2014 Status:	The new Alexander County Law Enforcement/Detention Center has been completed. Progressing with plans to renovate the old Law Enforcement Center. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 9 above.)

Mitigation Action 5	Audible and visual warning devices to be installed by Duke Energy at Oxford Dam for warnings when flood gate(s) are opened to warn boaters, other users of the waterway, and residents in an attempt to save lives when flood gate(s) are opened.
Category:	Emergency Services
Hazard(s) Addressed:	Dam Failure
Lead Agency/Department Responsible:	Alexander County Emergency Services Department
Estimated Cost:	To be determined during the feasibility phase
Potential Funding Sources:	Duke Energy
Implementation Schedule:	3-5 years
Priority (High, Moderate, Low):	High
2014 Status:	Duke Energy sirens sound each time gates are opened or power production begins. This has proven to be sufficient notice of rising water levels just below the dam.

Mitigation Action Plan—Town of Brookford

2014 Mitigation Actions

Mitigation Action 1		Develop a debris management plan.
Category:	Local Plans and Regulations	
Hazard(s) Addressed:	Flood; Hurricane and Tropical Storm; Thunderstorm, Lightning, and Hail; Wildfire; Winter Weather	
Lead Agency/Department Responsible:	Town of Brookford Administration Department	
Estimated Cost:	Low	
Potential Funding Sources:	Local	
Implementation Schedule:	1-2 years	
Priority (High, Moderate, Low):	Moderate	

Mitigation Action 2		Develop a post-disaster reconstruction plan to facilitate decision-making following a hazard event.
Category:	Local Plans and Regulations	
Hazard(s) Addressed:	Flood; Hurricane and Tropical Storm; Thunderstorm, Lightning, and Hail; Tornado; Wildfire; Drought; Winter Weather; Erosion; Dam/Levee Failure; Earthquake; Sinkhole; Landslide	
Lead Agency/Department Responsible:	Town of Brookford Administration Department; Town of Brookford Police Department; Town of Brookford Public Works Department	
Estimated Cost:	Low	
Potential Funding Sources:	Local	
Implementation Schedule:	2-4 years	
Priority (High, Moderate, Low):	Moderate	

Mitigation Action 3		Implement moderate to major repairs to stormwater drains.
Category:	Structure and Infrastructure Projects	
Hazard(s) Addressed:	Flood	
Lead Agency/Department Responsible:	Town of Brookford Public Works Department	
Estimated Cost:	Moderate to High	
Potential Funding Sources:	Local	
Implementation Schedule:	1-2 years	
Priority (High, Moderate, Low):	High	

Mitigation Action 4	Identify and strengthen facilities to function as public shelters.
Category:	Structure and Infrastructure Projects
Hazard(s) Addressed:	Flood; Hurricane and Tropical Storm; Thunderstorm, Lightning, and Hail; Tornado; Wildfire; Drought; Winter Weather; Erosion; Dam/Levee Failure; Earthquake; Sinkhole; Landslide
Lead Agency/Department Responsible:	Town of Brookford Administration Department
Estimated Cost:	To be determined
Potential Funding Sources:	Grants; local
Implementation Schedule:	2-4 years
Priority (High, Moderate, Low):	Low

Mitigation Action 5	Continue routinely pruning and clearing limbs on the Town's rights of way.
Category:	Prevention
Hazard(s) Addressed:	Hurricane and Tropical Storm; Thunderstorm, Lightning, and Hail; Tornado; Winter Weather
Lead Agency/Department Responsible:	Town of Brookford Public Works Department
Estimated Cost:	Moderate
Potential Funding Sources:	Local
Implementation Schedule:	5 years
Priority (High, Moderate, Low):	Moderate

Mitigation Action 6	In coordination with the Catawba County Emergency Services Department, conduct outreach to the public regarding the County's Community Alert System to educate them about how to obtain information both pre- and post-event and about mitigation strategies.
Category:	Education and Awareness Programs
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Town of Brookford; Catawba County Emergency Services Department
Estimated Cost:	Staff time
Potential Funding Sources:	General Fund
Implementation Schedule:	1-2 years
Priority (High, Moderate, Low):	High

Status of Previously Adopted Mitigation Actions

Mitigation Action 1	Maintain continued compliance with the National Flood Insurance Program (NFIP).
Category:	Prevention
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Town of Brookford Administration Department
Estimated Cost:	Low
Potential Funding Sources:	Local
Implementation Schedule:	2-4 years
Priority (High, Moderate, Low):	High
2014 Status:	The Town adopted a Flood Damage Prevention Ordinance based on the model provided by the State of North Carolina. The Town Manager will plan to attend training with regard to floodplain management. There are no inspectors within the Town, other than those that inspect through the County.

Mitigation Action 2	Develop mutual aid agreement with other jurisdictions to augment local inspection personnel after major disasters.
Category:	Emergency Services
Hazard(s) Addressed:	Flood; Hurricane and Tropical Storm; Thunderstorm, Lightning, and Hail; Tornado; Wildfire; Drought; Winter Weather; Erosion; Dam/Levee Failure; Earthquake; Sinkhole; Landslide
Lead Agency/Department Responsible:	Town of Brookford Administration Department
Estimated Cost:	Low
Potential Funding Sources:	Local
Implementation Schedule:	2-4 years
Priority (High, Moderate, Low):	Moderate
2014 Status:	Completed. The Town has signed a mutual aid agreement with the City of Hickory and works closely with Catawba County.

Mitigation Action 3	Prepare a Local Evacuation Plan to ensure the safety of Town residents in advance of anticipated hazard events, particularly wildfires and flooding.
Category:	Emergency Services
Hazard(s) Addressed:	Wildfire; Flood
Lead Agency/Department Responsible:	Town of Brookford Police Department
Estimated Cost:	Low
Potential Funding Sources:	Local
Implementation Schedule:	2-4 years
Priority (High, Moderate, Low):	Moderate
2014 Status:	Completed. The Town of Brookford Police Department has worked closely with local municipalities, Catawba County, the Town's chemical plant, and Town residents to prepare an evacuation plan.

Mitigation Action 4	Enhance local citizens' disaster preparedness through continuous outreach and education efforts in coordination with Catawba County, the American Red Cross, and other support organizations.
Category:	Preparedness
Hazard(s) Addressed:	Flood; Hurricane and Tropical Storm; Thunderstorm, Lightning, and Hail; Tornado; Wildfire; Drought; Winter Weather; Erosion; Dam/Levee Failure; Earthquake; Sinkhole; Landslide
Lead Agency/Department Responsible:	Town of Brookford Administration Department; Town of Brookford Police Department
Estimated Cost:	Low
Potential Funding Sources:	Local
Implementation Schedule:	2-4 years
Priority (High, Moderate, Low):	High
2014 Status:	Completed. Town citizens have been continuously updated on the evacuation plans and the use of the Community Building as a safe house in the case of extreme situations.

Mitigation Action 5	Continue routine inspections of the Town's storm drain system.
Category:	Prevention
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Town of Brookford Public Works Department
Estimated Cost:	Low
Potential Funding Sources:	Local
Implementation Schedule:	Continuous implementation (as needed)
Priority (High, Moderate, Low):	Moderate
2014 Status:	The Town of Brookford Public Works Department does this as an ongoing preventative action. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 3 above.)

Mitigation Action 6	Continue routinely pruning and clearing limbs on the Town's rights of way.
Category:	Prevention
Hazard(s) Addressed:	Hurricane and Tropical Storm; Thunderstorm, Lightning, and Hail; Tornado; Winter Weather
Lead Agency/Department Responsible:	Town of Brookford Public Works Department
Estimated Cost:	Moderate
Potential Funding Sources:	Local
Implementation Schedule:	Continuous implementation (as needed)
Priority (High, Moderate, Low):	Moderate
2014 Status:	The Town of Brookford Public Works Department does this as an ongoing preventative action. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 5 above.)

Mitigation Action Plan—Burke County

2014 Mitigation Actions

Mitigation Action 1	Review/update Flood Damage Prevention Ordinance.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Burke County Planning & Development Department; Burke County Building Inspections Department; Burke County Emergency Services Department
Estimated Cost:	N/A
Potential Funding Sources:	Local
Implementation Schedule:	Revision 2014/2015
Priority (High, Moderate, Low):	Moderate

Mitigation Action 2	Revise/update regulatory floodplain maps of any known flood areas.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Burke County Planning & Development Department; Burke County Land Records/GIS Department
Estimated Cost:	N/A
Potential Funding Sources:	Local; state; federal
Implementation Schedule:	Ongoing
Priority (High, Moderate, Low):	Moderate

Mitigation Action 3	Adopt zoning and subdivision regulations in floodplain, steep slope, and wildfire hazard areas.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Burke County Planning & Development Department; Burke County Emergency Services Department; Burke County Building Inspections Department
Estimated Cost:	N/A
Potential Funding Sources:	Local
Implementation Schedule:	Review Yearly
Priority (High, Moderate, Low):	High

Mitigation Action 4		Update Comprehensive Land Use Plan.	
Category:	Local Plans and Regulations		
Hazard(s) Addressed:	All Hazards		
Lead Agency/Department Responsible:	Burke County Planning & Development Department		
Estimated Cost:	N/A		
Potential Funding Sources:	Local		
Implementation Schedule:	2014/2015		
Priority (High, Moderate, Low):	High		

Mitigation Action 5		Step up centralized coordinated permitting process, including effective filing/permitting system to ensure compliance with floodplain regulations.	
Category:	Local Plans and Regulations		
Hazard(s) Addressed:	Flood		
Lead Agency/Department Responsible:	Burke County Emergency Services Department; Burke County Planning & Development Department; Burke County Building Inspections Department; Burke County Environmental Health Department		
Estimated Cost:	N/A		
Potential Funding Sources:	Local		
Implementation Schedule:	2014/2015		
Priority (High, Moderate, Low):	Moderate		

Mitigation Action 6		Upgrade and maintain Early Warning System.	
Category:	Local Plans and Regulations		
Hazard(s) Addressed:	All Hazards		
Lead Agency/Department Responsible:	Burke County Emergency Services Department		
Estimated Cost:	N/A		
Potential Funding Sources:	Local; state; federal; private (Duke Energy)		
Implementation Schedule:	Continuous monitoring and testing		
Priority (High, Moderate, Low):	High		

Mitigation Action 7	Establish a program for evaluating and improving critical services (roads, bridges, water, sewer, electricity, etc.) and critical facilities (fire, rescue, medical, etc.) to reduce risk to natural hazards.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Burke County Emergency Services Department; Burke County Planning & Development Department; North Carolina Department of Transportation (NCDOT)
Estimated Cost:	N/A
Potential Funding Sources:	Local; state; federal
Implementation Schedule:	Ongoing review
Priority (High, Moderate, Low):	Moderate

Mitigation Action 8	Prepare countywide stormwater management plan covering the Catawba River basin.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Burke County Planning & Development Department
Estimated Cost:	N/A
Potential Funding Sources:	Local; state
Implementation Schedule:	Revise in 2015
Priority (High, Moderate, Low):	Moderate

Mitigation Action 9	Prepare development plan for relocating public infrastructure out of hazardous areas.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Burke County Planning & Development Department; Burke County Building Inspections Department
Estimated Cost:	N/A
Potential Funding Sources:	Local
Implementation Schedule:	Ongoing Review
Priority (High, Moderate, Low):	Low

Mitigation Action 10	Improve Hazardous Warning and Response Plan, which outlines warning and evacuation procedures for critical facilities, instructions for getting persons out of flood-prone or isolated areas, and protocols for controlling vehicles on evacuation routes.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	All hazards
Lead Agency/Department Responsible:	Burke County Planning & Development Department; Burke County Emergency Services Department
Estimated Cost:	N/A
Potential Funding Sources:	Local, State, Federal
Implementation Schedule:	Continuous review
Priority (High, Moderate, Low):	High

Status of Previously Adopted Mitigation Actions

Mitigation Action 1	Review/update Flood Damage Prevention Ordinance.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Burke County Planning & Development Department; Burke County Building Inspections Department
Estimated Cost:	N/A
Potential Funding Sources:	Local
Implementation Schedule:	To be completed by 2007
Priority (High, Moderate, Low):	Moderate
2014 Status:	Completed in 2007 and reviewed annually. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 1 above.)

Mitigation Action 2	Adopt zoning and subdivision regulations in floodplain, steep slope, and wildfire areas.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Burke County Planning & Development Department
Estimated Cost:	N/A
Potential Funding Sources:	Local
Implementation Schedule:	To be reviewed annually
Priority (High, Moderate, Low):	High
2014 Status:	Completed and reviewed annually. Floodplain ordinance adopted. All development projects reviewed for floodplain compliance prior to issuance. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 3 above.)

Mitigation Action 3		Revise/update regulatory floodplain maps.
Category:	Local Plans and Regulations	
Hazard(s) Addressed:	Flood	
Lead Agency/Department Responsible:	Burke County Planning & Development Department; Burke County Land Records/GIS Department	
Estimated Cost:	N/A	
Potential Funding Sources:	Local; state; federal	
Implementation Schedule:	To be done on an ongoing basis	
Priority (High, Moderate, Low):	Moderate	
2014 Status:	The County adopts and utilizes current North Carolina Floodplain Mapping Program data. Updates coincide with state map updates. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 2 above.)	

Mitigation Action 4		Acquire federal funds to purchase destroyed or substantially damaged properties and relocate households.
Category:	Structure and Infrastructure Projects	
Hazard(s) Addressed:	All Hazards	
Lead Agency/Department Responsible:	Burke County Emergency Services Department; Burke County Planning & Development Department	
Estimated Cost:	N/A	
Potential Funding Sources:	State; federal	
Implementation Schedule:	Ongoing case-by-case basis	
Priority (High, Moderate, Low):	High	
2014 Status:	Ongoing on a case-by-case basis. In 2010, CDBG monies were used to repair 22 residential properties. No properties were purchased and no households were relocated.	

Mitigation Action 5		Complete Community Rating System (CRS) application. Ensure participation in the National Flood Insurance Program (NFIP).
Category:	Local Plans and Regulations	
Hazard(s) Addressed:	Flood	
Lead Agency/Department Responsible:	Burke County Emergency Services Department	
Estimated Cost:	N/A	
Potential Funding Sources:	Local	
Implementation Schedule:	Within five years	
Priority (High, Moderate, Low):	Moderate	
2014 Status:	Complete; requires continuous monitoring. All development applications reviewed for floodplain compliance prior to issuance. Floodplain areas identified on applicable zoning permits. Burke County does not intend to apply for CRS.	

Mitigation Action 6		Update 1993 Comprehensive Land Use Plan.
Category:	Local Plans and Regulations	
Hazard(s) Addressed:	All Hazards	
Lead Agency/Department Responsible:	Burke County Planning & Development Department	
Estimated Cost:	N/A	
Potential Funding Sources:	Local	
Implementation Schedule:	Annual Review	
Priority (High, Moderate, Low):	High	
2014 Status:	The Comprehensive Land Use Plan is reviewed and updated annually as needed. (Ongoing elements of this action are reflected in 2014 Mitigation Action 4 above.)	

Mitigation Action 7		Step up centralized, coordinated permitting process including effective filing/permitting system to ensure compliance with floodplain regulations.
Category:	Local Plans and Regulations	
Hazard(s) Addressed:	Flood	
Lead Agency/Department Responsible:	Burke County Building Inspections Department; Burke County Planning & Development Department; Burke County Emergency Services Department; Burke County Environmental Health Department	
Estimated Cost:	N/A	
Potential Funding Sources:	Local	
Implementation Schedule:	Within five years	
Priority (High, Moderate, Low):	High	
2014 Status:	Completed; updating in 2014/2015. (Ongoing elements of this action are reflected in 2014 Mitigation Action 5 above.)	

Mitigation Action 8		Develop a comprehensive Capital Improvement Plan for public facilities that steers capital projects out of hazardous areas.
Category:	Local Plans and Regulations	
Hazard(s) Addressed:	Flood	
Lead Agency/Department Responsible:	Burke County Management; all departments	
Estimated Cost:	N/A	
Potential Funding Sources:	Local	
Implementation Schedule:	Ongoing	
Priority (High, Moderate, Low):	High	
2014 Status:	Ongoing; continuous monitoring. No public facilities have been built since last plan update. All capital improvements made have been on facilities that are out of hazardous area.	

Mitigation Action 9		Maintain library on retrofitting techniques. Publicize through bulletins/newsletters.
Category:	Education and Awareness Programs	
Hazard(s) Addressed:	All Hazards	
Lead Agency/Department Responsible:	Burke County Building Inspections Department; Burke County Emergency Services Department; Burke County Planning & Development Department	
Estimated Cost:	N/A	
Potential Funding Sources:	Local; state	
Implementation Schedule:	Ongoing; continuous monitoring	
Priority (High, Moderate, Low):	Moderate	
2014 Status:	Ongoing. Floodplain manager maintains documentation related to suggested retrofitting techniques. There have been no activities related to the website, newsletter, etc. within the past 5 years.	

Mitigation Action 10		Continuation and expansion of E-911 Addressing Program to include all municipalities with goal to cover entire county with one system.
Category:	Local Plans and Regulations	
Hazard(s) Addressed:	All Hazards	
Lead Agency/Department Responsible:	Burke County Emergency Services Department; 911 Addressing; Burke County Land Records/GIS Department	
Estimated Cost:	N/A	
Potential Funding Sources:	Local	
Implementation Schedule:	Ongoing; requires continuous monitoring	
Priority (High, Moderate, Low):	High	
2014 Status:	Completed; requires continuous monitoring. Our addressing office along with the E-911 Center updates the addresses on a continuous basis when new residences and businesses are built. Before building permits are issued, a 911 address must be given for the new construction project.	

Mitigation Action 11		Drainage system management—prepare countywide storm water management plan covering the Catawba River basin.
Category:	Local Plans and Regulations	
Hazard(s) Addressed:	Flood	
Lead Agency/Department Responsible:	Burke County Planning & Development Department; West Piedmont Council of Governments (WPCOG)	
Estimated Cost:	N/A	
Potential Funding Sources:	Local; state	
Implementation Schedule:	To be updated in 2011	
Priority (High, Moderate, Low):	High	
2014 Status:	Updated in 2011.	

Mitigation Action 12	Upgrade and maintain Early Warning System.
Category:	
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Burke County Emergency Services Department
Estimated Cost:	N/A
Potential Funding Sources:	Local; state; federal; private (Duke Energy)
Implementation Schedule:	Ongoing
Priority (High, Moderate, Low):	High
2014 Status:	Ongoing; continuous monitoring. (Ongoing elements of this action are reflected in 2014 Mitigation Action 6 above.) Duke Energy maintains the early warning system for dam failures and potential hazards dealing with Lake James. Hyper-Reach is used for a reverse 911 system to notify residences of potential hazardous conditions. A local radio station is used for National Weather Service severe weather.

Mitigation Action 13	Acquisition of properties susceptible to flood damage and wildland fires.
Category:	Structure and Infrastructure Projects
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Burke County Planning & Development Department; Burke County Building Inspections Department; Burke County Emergency Services Department
Estimated Cost:	N/A
Potential Funding Sources:	Local; state; federal
Implementation Schedule:	Ongoing
Priority (High, Moderate, Low):	Moderate
2014 Status:	Under annual review. No property acquisitions were conducted within the past 5 years. No federal grant funds were applied for or received.

Mitigation Action 14	Capital Improvements Program—development plan for relocating public infrastructure out of hazards areas.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Burke County Planning & Development Department; Burke County Building Inspections Department
Estimated Cost:	N/A
Potential Funding Sources:	Local
Implementation Schedule:	Ongoing
Priority (High, Moderate, Low):	Low
2014 Status:	Ongoing; requires continuous monitoring. The only infrastructure Burke County has in hazardous areas is a Sewer Pump Station that is located in a floodplain area. It is not possible to relocate the pump station due to the terrain and the cost to relocate. Any new projects are reviewed for hazardous areas before construction begins. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 9 above.)

Mitigation Action Plan—Town of Cahaj’s Mountain

2014 Mitigation Actions

Mitigation Action 1	Establish and maintain a Temporary Disaster Debris Staging Area by selecting a suitable site and submitting to the North Carolina Department of Environment and Natural Resources (NCDENR) for approval for use during a natural disaster.
Category:	Structure and Infrastructure Projects
Hazard(s) Addressed:	Tornado; Winter Weather; Thunderstorm, Lightning, and Hail; Hurricane and Tropical Storm
Lead Agency/Department Responsible:	Caldwell County Emergency Management Department; Town of Cahaj’s Mountain
Estimated Cost:	To be determined
Potential Funding Sources:	Town of Cahaj’s Mountain General Fund
Implementation Schedule:	2019. Staff has identified an area adjacent to the Town’s Pump Station to be considered as a possible staging area.
Priority (High, Moderate, Low):	High

Mitigation Action 2	Incorporate hazard mitigation elements into the next update of the Town’s Land Use Plan.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Town of Cahaj’s Mountain
Estimated Cost:	Staff time plus consultant fees to be determined
Potential Funding Sources:	Town of Cahaj’s Mountain General Fund; grant funding
Implementation Schedule:	3-5 years
Priority (High, Moderate, Low):	Moderate

Mitigation Action 3	Work with Caldwell County Emergency Services to address potential wildfire issues.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Wildfire; Drought
Lead Agency/Department Responsible:	Caldwell County Emergency Management Department
Estimated Cost:	To be determined
Potential Funding Sources:	Town of Cahaj’s Mountain General Fund; possible grant funding
Implementation Schedule:	0-2 years
Priority (High, Moderate, Low):	Low

Mitigation Action 4	Establish procedure for sounding fire department siren for tornado warnings and flash floods.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood; Tornado; Thunderstorm
Lead Agency/Department Responsible:	North Catawba Fire/Rescue
Estimated Cost:	N/A
Potential Funding Sources:	N/A
Implementation Schedule:	1 year
Priority (High, Moderate, Low):	High

Mitigation Action 5	Identify all possible emergency shelter buildings.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Town of Cajah’s Mountain
Estimated Cost:	N/A
Potential Funding Sources:	N/A
Implementation Schedule:	1-2 years
Priority (High, Moderate, Low):	Low

Mitigation Action 6	Increase watershed and stormwater awareness.
Category:	Education and Awareness Programs
Hazard(s) Addressed:	Flood; Sinkhole; Erosion; Landslide
Lead Agency/Department Responsible:	Town of Cajah’s Mountain
Estimated Cost:	To be determined
Potential Funding Sources:	Town of Cajah’s Mountain General Fund
Implementation Schedule:	2-3 years
Priority (High, Moderate, Low):	Low

Mitigation Action 7	<p>In cooperation with the Caldwell County Planning and Development Department and the Caldwell County Building Inspections Department, make information regarding hazards and development regulations within floodplains available through the following:</p> <ol style="list-style-type: none"> a) Ensuring that the local library maintains information relating to flooding and flood protection. b) Provide a link on the Town’s website to FEMA resources addressing flooding and flood protection, sheltering, evacuation procedures, disaster preparedness, and post-disaster recovery.
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Category:	Education and Awareness Programs
Hazard(s) Addressed:	Flood; Winter Weather; Thunderstorm; Dam/Levee Failure; Tornado
Lead Agency/Department Responsible:	Town of Cajah’s Mountain
Estimated Cost:	N/A (covered by Caldwell County)
Potential Funding Sources:	Local-Maintain present activities under the funding available
Implementation Schedule:	2019
Priority (High, Moderate, Low):	High

Mitigation Action 8	<p>In coordination with Caldwell County, the Town of Cajah’s Mountain will continue to maintain all property acquired within the Special Flood Hazard Area (SFHA) as undisturbed open space in perpetuity. All parties will continue to pro-actively establish open space within the floodplain and floodway as grant funds become available to carry out this initiative.</p>
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Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood; Dam/Levee Failure; Wildfire
Lead Agency/Department Responsible:	Town of Cajah’s Mountain; Caldwell County Building Inspections Department; Caldwell County Planning and Development Department
Estimated Cost:	\$250,000+
Potential Funding Sources:	Grant fund resources; hazard mitigation of Lenoir EMS Base
Implementation Schedule:	2019
Priority (High, Moderate, Low):	Low

Mitigation Action 9	<p>In coordination with Caldwell County, the Town of Cajah’s Mountain will maintain a contract with a qualified post-disaster recovery service provider. This contract will include the provision of essential services and equipment, including generators, and will include documentation required for reimbursement from FEMA/NCER.</p>
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Category:	Local Plans and Regulations
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Town of Cajah’s Mountain; Caldwell County Emergency Management Department
Estimated Cost:	Unspecified
Potential Funding Sources:	Existing department and staff resources
Implementation Schedule:	1-5 years
Priority (High, Moderate, Low):	Moderate

Mitigation Action 10	In coordination with the Caldwell County Emergency Management Department, the Town of Cahah’s Mountain will assist with the monitoring of water resources. When necessary, the Town will cooperate with the County in instituting measures to conserve water resources according to the County’s Drought Management Plan.
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Category:	Local Plans and Regulations
Hazard(s) Addressed:	Drought; Wildfire
Lead Agency/Department Responsible:	Town of Cahah’s Mountain; Caldwell County Water Department
Estimated Cost:	\$1.5 million (covered by Caldwell County)
Potential Funding Sources:	Grants and tax-based funding
Implementation Schedule:	2016
Priority (High, Moderate, Low):	Low

Mitigation Action 11	Cooperate with Caldwell County in the implementation and enforcement of the County’s comprehensive stormwater management program.
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Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Town of Cahah’s Mountain; City of Lenoir Planning and Building Inspections Department; administrative staff of Caldwell County
Estimated Cost:	\$50,000 per year
Potential Funding Sources:	Existing department and staff resources
Implementation Schedule:	Annually through 2019
Priority (High, Moderate, Low):	Moderate

Status of Previously Adopted Mitigation Actions

Mitigation Action 1	<p>Maintain a map information service involving the following:</p> <ol style="list-style-type: none"> a) Provide information relating to Flood Insurance Rate Maps (FIRMs) to all inquirers, including provision of information on whether a given property is located within a flood hazard area. b) Provide information on the flood insurance purchase requirement. c) Maintain historical and current FIRMs. d) Advertise once annually in the local newspaper. e) Provide information to inquirers about local floodplain management requirements.
Category:	Natural Systems Protection
Hazard(s) Addressed:	Flood; Dam/Levee Failure
Lead Agency/Department Responsible:	Caldwell County Planning Department
Estimated Cost:	To be determined
Potential Funding Sources:	Town of Cahjah’s Mountain General Fund
Implementation Schedule:	1-5 years
Priority (High, Moderate, Low):	High
2014 Status:	Ongoing. Caldwell County Online GIS maps include updated flood hazard area overlays and Town staff are available to answer questions and make determinations. Current and previous FIRMs available for review at Town Hall.

Mitigation Action 2	<p>The Caldwell County Planning and Development Department and the Caldwell County Building Inspections Department will make information regarding hazards and development regulations within floodplains available through the following:</p> <ol style="list-style-type: none"> a) Ensuring that the local library maintains information relating to flooding and flood protection. b) Providing a link on their website to FEMA resources addressing flooding and flood protection. c) All participating jurisdictions, if a website is in place, will provide a link on their website to FEMA resources addressing flooding and flood protection, sheltering, evacuation procedures, disaster preparedness, and post-disaster recovery.
Category:	Natural Systems Protection; Education and Awareness Programs
Hazard(s) Addressed:	Flood; Winter Weather; Wildfire; Thunderstorms, Lightning, and Hail; Dam/Levee Failure; Tornado
Lead Agency/Department Responsible:	Caldwell County Planning and Development Department; Caldwell County Building Inspections Department
Estimated Cost:	To be determined
Potential Funding Sources:	General Fund
Implementation Schedule:	2-5 years
Priority (High, Moderate, Low):	High
2014 Status:	Ongoing. The Town of Cahjah’s Mountain has utilized its website to publicize FEMA resources for disaster preparedness.

Mitigation Action 3	Caldwell County and all participating jurisdictions will continue to maintain all property acquired within the Special Flood Hazard Area (SFHA) as undisturbed open space in perpetuity. All parties will continue to proactively establish open space within the floodplain and floodway as grant funds become available to carry out this initiative.
Category:	Natural Systems Protection
Hazard(s) Addressed:	Flood; Dam/Levee Failure; Wildfire
Lead Agency/Department Responsible:	Caldwell County Commissioners
Estimated Cost:	Unknown
Potential Funding Sources:	General Fund
Implementation Schedule:	1-5 years
Priority (High, Moderate, Low):	High
2014 Status:	Ongoing. The Town will participate in the county program to establish perpetual open space in Special Flood Hazard Areas as budget allows.

Mitigation Action 4	The Caldwell County Mitigation Advisory Committee, in conjunction with all municipal jurisdictions participating in the 2009 plan update, will work on the five-year implementation of this Hazard Mitigation Plan Update. At the end of the five-year period, the County will again update the plan.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Caldwell County Emergency Management Department
Estimated Cost:	To be determined
Potential Funding Sources:	General Fund
Implementation Schedule:	1-5 years
Priority (High, Moderate, Low):	High
2014 Status:	The Town of Cahah's Mountain has participated in the regionalization of the Caldwell County hazard mitigation plan and is now a participating jurisdiction in the Unifour Regional Hazard Mitigation Plan which has taken the place of the previously planned county-level 5-year plan update.

Mitigation Action 5	Caldwell County, as well as all participating jurisdictions, will continue to support the North Carolina Office of Dam Safety efforts to monitor and inspect all dams throughout the County, as well as the State of North Carolina. The County relies on this agency to ensure that all dam facilities, both public and private, are properly maintained and stable.
Category:	Structure and Infrastructure Projects
Hazard(s) Addressed:	Flood; Dam/Levee Failure
Lead Agency/Department Responsible:	Caldwell County Emergency Management Department
Estimated Cost:	To be determined
Potential Funding Sources:	General Fund
Implementation Schedule:	1-5 years
Priority (High, Moderate, Low):	High
2014 Status:	Ongoing. The Town will work in conjunction with County Emergency Management staff to remain informed about the safety status of local dams to be able to pass this information along to citizens.

Mitigation Action 6	Caldwell County Emergency Services will continue to coordinate with the Caldwell County Public Works Department, as well as all participating jurisdictions, regarding the monitoring of water resources statewide. When necessary, the County will institute measures to conserve water resources according to the County's Drought Management Plan.
Category:	Natural Systems Protection; Education and Awareness Programs
Hazard(s) Addressed:	Drought
Lead Agency/Department Responsible:	Caldwell County Water Department
Estimated Cost:	To be determined
Potential Funding Sources:	General Fund
Implementation Schedule:	1-5 years
Priority (High, Moderate, Low):	High
2014 Status:	Ongoing. The Town will notify citizens if the County's Drought Management Plan has to be implemented through its website, social media, and Town Hall informational sign.

Mitigation Action 7	Caldwell County, as well as all participating jurisdictions, will maintain a contract with a qualified post-disaster recovery service provider. This contract will include the provision of essential services and equipment, including generators, and will include documentation required for reimbursement from FEMA/NCEM.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Caldwell County Emergency Management Department
Estimated Cost:	N/A
Potential Funding Sources:	N/A
Implementation Schedule:	1-5 years
Priority (High, Moderate, Low):	Moderate
2014 Status:	Deleted. It is not feasible for the Town to complete this action.

Mitigation Action 8	Caldwell County will assist all communities within the County, including property owners in unincorporated areas, in applying for FEMA-sponsored mitigation grant assistance for the acquisition and/or elevation of substantially damaged structures following a natural disaster.
Category:	Structure and Infrastructure Projects
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Caldwell County Emergency Management Department
Estimated Cost:	To be determined
Potential Funding Sources:	General Fund; possible grant funding
Implementation Schedule:	1-5 years
Priority (High, Moderate, Low):	Moderate
2014 Status:	Ongoing. Town staff and contracted staff will be available to help citizens protect their property following a natural disaster.

Mitigation Action 9	Caldwell County Emergency Services will continue to work on the establishment of a comprehensive special needs registry. This effort will involve the cooperation of all participating jurisdictions.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Caldwell County Emergency Management Department
Estimated Cost:	To be determined
Potential Funding Sources:	General Fund; possible grant funding
Implementation Schedule:	1-5 years
Priority (High, Moderate, Low):	Moderate
2014 Status:	Deleted. The Town supports the establishment of a comprehensive Special Needs Registry but research has shown that a registry is best established at the county and/or state level. The Town will actively participate and encourage use of the registry in the future when it is established by the State of North Carolina or Caldwell County.

Mitigation Action 10	The City of Lenoir will continue to serve an administrative role in the implementation and enforcement of the County’s comprehensive stormwater management program. The stormwater regulations outlined within this program shall apply to Gamewell, Cahah’s Mountain, Lenoir, Hudson, Sawmills, and Granite Falls.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood; Dam/Levee Failure
Lead Agency/Department Responsible:	City of Lenoir Planning Department
Estimated Cost:	To be determined
Potential Funding Sources:	General Fund
Implementation Schedule:	1-5 years
Priority (High, Moderate, Low):	High
2014 Status:	Ongoing. The Town contracts with the City of Lenoir on a yearly basis for implementation and enforcement of the Stormwater regulations.

Mitigation Action Plan—Caldwell County

2014 Mitigation Actions

Mitigation Action 1	Maintain the required finished floor elevation certificate for all development within the Special Flood Hazard Area (SFHA) within both incorporated and unincorporated portions of the county. All elevation certificates should be submitted on an official FEMA elevation certificate. No certificate of occupancy shall be issued for any development within a defined SFHA without the submittal of the required elevation certificate.
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Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood; Dam/Levee Failure
Lead Agency/Department Responsible:	Caldwell County Building Inspections Department; Caldwell County Planning and Development Department
Estimated Cost:	\$50,000
Potential Funding Sources:	General Budget
Implementation Schedule:	Maintaining this function through the next five years
Priority (High, Moderate, Low):	Moderate

Mitigation Action 2	<p>Maintain a map information service involving the following:</p> <ul style="list-style-type: none"> a) Provide information relating to Flood Insurance Rate Maps (FIRMs) to all inquirers, including provision of information on whether a given property is located within a flood hazard area. b) Provide information regarding the flood insurance purchase requirement. c) Maintain historical and current FIRMs. d) Advertise once annually in the local newspaper. e) Provide information to inquirers about local floodplain management requirements.
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Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood; Dam/Levee Failure
Lead Agency/Department Responsible:	Caldwell County Planning and Development Department; administrative staff of all municipalities within the county
Estimated Cost:	\$85,000
Potential Funding Sources:	Tax-based funding
Implementation Schedule:	Maintain the current activities with access to NC Floodmaps
Priority (High, Moderate, Low):	Moderate

Mitigation Action 3	Caldwell County will annually mail a notice to all property owners whose land is located within a Special Flood Hazard Area (SFHA). The notice should clearly state that the recipient's property is susceptible to flooding and provide information pertinent to emergency evacuation and post-disaster recovery.
Category:	Education and Awareness Programs
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Caldwell County Planning and Development Department
Estimated Cost:	\$8,500
Potential Funding Sources:	Maintain present activities under the funding available
Implementation Schedule:	Ongoing
Priority (High, Moderate, Low):	High

Mitigation Action 4	<p>The Caldwell County Planning and Development Department and the Caldwell County Building Inspections Department will make information regarding hazards and development regulations within floodplains available through the following:</p> <ul style="list-style-type: none"> a) Ensuring that the local library maintains information relating to flooding and flood protection. b) Providing a link on their website to FEMA resources addressing flooding and flood protection. c) All participating jurisdictions, if a website is in place, will provide a link on their website to FEMA resources addressing flooding and flood protection, sheltering, evacuation procedures, disaster preparedness, and post-disaster recovery.
Category:	Education and Awareness Programs
Hazard(s) Addressed:	Flood; Winter Weather; Thunderstorm; Dam/Levee Failure; Tornado
Lead Agency/Department Responsible:	Caldwell County Building Inspections Department; administrative staff of all municipalities within the county
Estimated Cost:	\$1,200 per year
Potential Funding Sources:	Maintain present activities under the funding available
Implementation Schedule:	Ongoing
Priority (High, Moderate, Low):	High

Mitigation Action 5	<p>The Caldwell County Building Inspections Department will provide comprehensive services regarding planning and development activities within the defined Special Flood Hazard Area (SFHA) and issues relating to the construction of disaster resistant structures. These services will include:</p> <ul style="list-style-type: none"> a) Providing site specific flood and flood-related information on an as-needed basis. b) Maintaining a list of contractors with experience in floodproofing and retrofit techniques. c) Providing information on windproofing construction methods for new and renovated structures. d) Maintaining materials providing an overview of how to select a qualified contractor. e) Making site visits upon request to review occurrences of flooding, drainage problems, and sewer problems. If applicable, the inspector should provide one-on-one advice to the property owner. f) Providing advice and assistance regarding CRS activity 530. g) Advertising the availability of this service once annually within the local newspaper. h) Maintaining a log of all individuals assisted through this County service including all site visits.
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Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Caldwell County Building Inspections Department; Caldwell County Planning and Development Department
Estimated Cost:	Maintain present activities under the funding available
Potential Funding Sources:	Existing department and staff resources
Implementation Schedule:	Ongoing
Priority (High, Moderate, Low):	Moderate

Mitigation Action 6	<p>Caldwell County and its municipalities will continue to maintain all property acquired within the Special Flood Hazard Area (SFHA) as undisturbed open space in perpetuity. All parties will continue to pro-actively establish open space within the floodplain and floodway as grant funds become available to carry out this initiative.</p>
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Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood; Dam/Levee Failure; Wildfire
Lead Agency/Department Responsible:	Caldwell County Building Inspections Department; Caldwell County Planning and Development Department
Estimated Cost:	\$250,000+
Potential Funding Sources:	Grant fund resources; hazard mitigation of Lenoir EMS Base
Implementation Schedule:	2015
Priority (High, Moderate, Low):	Low

Mitigation Action 7	Caldwell County and its municipalities will continue to support the North Carolina Office of Dam Safety in its efforts to monitor and inspect all dams throughout the county. The County relies on this agency to ensure that all dam facilities, both public and private, are properly maintained and stable. The Caldwell County Emergency Management Department will form a registry that will identify dams and their locations including data collection from Emergency Operations Plans (EOPs).
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Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood; Dam/Levee Failure
Lead Agency/Department Responsible:	Caldwell County Emergency Management Department; North Carolina Department of Environment and Natural Resources (NCDENR) Dams Program
Estimated Cost:	\$2,500 per year
Potential Funding Sources:	Caldwell County Emergency Management Budget for registry
Implementation Schedule:	2014-2015 for data collection; registry complete by 2016
Priority (High, Moderate, Low):	High

Mitigation Action 8	The Caldwell County Emergency Management Department will continue to work closely with the American Red Cross on the management and operation (when necessary) of emergency shelter facilities within the county. Caldwell County will also contract with schools and faith-based organizations to get the capabilities up to at least 15% of the county's population. The County will operate only in a support role in dealing with individual shelter issues.
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Category:	Local Plans and Regulations
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	American Red Cross; Caldwell County Emergency Management Department
Estimated Cost:	\$200,000
Potential Funding Sources:	Grant funding and possible donations
Implementation Schedule:	2016
Priority (High, Moderate, Low):	High

Mitigation Action 9	The Caldwell County Emergency Management Department will continue to coordinate with the Caldwell County Water Department, as well as its municipalities, regarding the monitoring of water resources statewide. When necessary the County will institute measures to conserve water resources according to the County’s Drought Management Plan. This includes the placement of tanks and new (larger) water lines.
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Category:	Local Plans and Regulations
Hazard(s) Addressed:	Drought; Wildfire
Lead Agency/Department Responsible:	Caldwell County Water Department; administrative staff of all municipalities within the county
Estimated Cost:	\$1.5 million
Potential Funding Sources:	Grants and tax-based funding
Implementation Schedule:	2016
Priority (High, Moderate, Low):	Low

Mitigation Action 10	Implement and enforce the County’s comprehensive stormwater management program. The stormwater regulations outlined within this program shall apply to Gamewell, Cahah’s Mountain, Lenoir, Hudson, Sawmills, and Granite Falls.
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Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	City of Lenoir Planning and Building Inspections Department; administrative staff of Caldwell County; administrative staff of all municipalities within the county
Estimated Cost:	\$50,000 per year
Potential Funding Sources:	Existing department and staff resources
Implementation Schedule:	Ongoing
Priority (High, Moderate, Low):	Moderate

Mitigation Action 11	<p>The Caldwell County Emergency Management Department will provide supporting services to its municipalities in the following areas:</p> <ol style="list-style-type: none"> a) Wildfire awareness classes to be held each year to promote wildfire protection. b) Encouragement of citizens to embrace “Firewise” tactics as being a good way of protecting homes and lives from the wildfire hazard. c) Conducting an exercise that will incorporate the NIMS structure that involves a wildfire aspect. d) Support in promoting North Carolina Forest Service wildfire programs in schools and civic clubs (e.g., Life & Safety Festival).
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Category:	Education and Awareness Programs
Hazard(s) Addressed:	Wildfire
Lead Agency/Department Responsible:	North Carolina Forest Service; Caldwell County Emergency Management Department
Estimated Cost:	\$10,000
Potential Funding Sources:	Grant funding
Implementation Schedule:	2015
Priority (High, Moderate, Low):	High

Mitigation Action 12	<p>Implement an All Hazards Warning System to consist of the following:</p> <ol style="list-style-type: none"> a) Converting Fire Department sirens to All Hazard Alert System. b) Purchasing five (5) sirens to be placed at strategic locations where fire sirens are not located or cannot be heard.
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Category:	Other
Hazard(s) Addressed:	Tornado; Flash Flood
Lead Agency/Department Responsible:	Caldwell County Emergency Management Department; North Carolina Division of Emergency Management; Caldwell County Firefighters Association
Estimated Cost:	\$150,000
Potential Funding Sources:	Hazard mitigation grants
Implementation Schedule:	2016
Priority (High, Moderate, Low):	High

Mitigation Action 13	Caldwell County, as well as all participating jurisdictions, will maintain a contract with a qualified post-disaster recovery service provider. This contract will include the provision of essential services and equipment, including generators, and will include documentation required for reimbursement from FEMA/NCEM.
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Category:	Local Plans and Regulations
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Caldwell County Emergency Management Department; administrative staff of all participating jurisdictions
Estimated Cost:	Unspecified
Potential Funding Sources:	Existing department and staff resources
Implementation Schedule:	1-5 years
Priority (High, Moderate, Low):	Moderate

Mitigation Action 14	Caldwell County will assist all communities within the county, including property owners in unincorporated areas, in applying for FEMA-sponsored mitigation grant assistance for the acquisition and/or elevation of substantially damaged structures following a natural disaster.
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Category:	Local Plans and Regulations
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Caldwell County Emergency Management Department; elected boards of all participating jurisdictions
Estimated Cost:	Unspecified
Potential Funding Sources:	Existing department and staff resources
Implementation Schedule:	1-5 years
Priority (High, Moderate, Low):	Low

Status of Previously Adopted Mitigation Actions

Mitigation Action 1	Require a finished floor elevation certificate for all development within the Special Flood Hazard Area (SFHA) within both incorporated and unincorporated portions of the county. All elevation certificates should be submitted on an official FEMA elevation certificate. No certificate of occupancy shall be issued for any development within a defined SFHA without the submittal of the required elevation certificate.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood; Dam/Levee Failure
Lead Agency/Department Responsible:	Caldwell County Building Inspections Department; Caldwell County Planning and Development Department
Estimated Cost:	\$50,000
Potential Funding Sources:	Existing staff and administrative resources
Implementation Schedule:	1-5 years
Priority (High, Moderate, Low):	Moderate
2014 Status:	Ongoing. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 1 above.)

Mitigation Action 2	<p>Maintain a map information service involving the following:</p> <ul style="list-style-type: none"> a) Provide information relating to Flood Insurance Rate Maps (FIRMs) to all inquirers, including provision of information on whether a given property is located within a flood hazard area. b) Provide information regarding the flood insurance purchase requirement. c) Maintain historical and current FIRMs. d) Advertise once annually in the local newspaper. e) Provide information to inquirers about local floodplain management requirements.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood; Dam/Levee Failure
Lead Agency/Department Responsible:	Caldwell County Planning and Development Department; administrative staff of all participating jurisdictions within the county
Estimated Cost:	\$85,000
Potential Funding Sources:	Tax-based funding
Implementation Schedule:	1-5 years
Priority (High, Moderate, Low):	Moderate
2014 Status:	Ongoing. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 2 above.)

Mitigation Action 3	Caldwell County will annually mail a notice to all property owners whose land is located within a Special Flood Hazard Area (SFHA). The notice should clearly state that the recipient's property is susceptible to flooding and provide information pertinent to emergency evacuation and post-disaster recovery.
Category:	Education and Awareness Programs
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Caldwell County Planning and Development Department
Estimated Cost:	\$8,500
Potential Funding Sources:	Maintain present activities under the funding available
Implementation Schedule:	1-5 years
Priority (High, Moderate, Low):	High
2014 Status:	Ongoing. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 3 above.)

Mitigation Action 4	The Caldwell County Planning and Development Department will work with local real estate agencies to ensure that agents are informing clients when property for sale is located within a Special Flood Hazard Area (SFHA). Caldwell County will provide these agencies with brochures documenting the concerns relating to development located within flood-prone areas and ways that homeowners may make their homes more disaster resistant to strong winds, lightning, and heavy rains.
Category:	Education and Awareness Programs
Hazard(s) Addressed:	Flood; Winter Weather; Wildfire; Thunderstorm; Windstorm
Lead Agency/Department Responsible:	Caldwell County Planning and Development Department; Caldwell County Emergency Management Department
Estimated Cost:	Unspecified
Potential Funding Sources:	Existing department and staff resources
Implementation Schedule:	2-5 years
Priority (High, Moderate, Low):	High
2014 Status:	Completed.

Mitigation Action 5	<p>The Caldwell County Planning and Development Department and the Caldwell County Building Inspections Department will make information regarding hazards and development regulations within floodplains available through the following:</p> <ol style="list-style-type: none"> a) Ensuring that the local library maintains information relating to flooding and flood protection. b) Providing a link on their website to FEMA resources addressing flooding and flood protection. c) Each of the county’s municipalities, if a website is in place, will provide a link on their website to FEMA resources addressing flooding and flood protection, sheltering, evacuation procedures, disaster preparedness, and post-disaster recovery.
Category:	Education and Awareness Programs
Hazard(s) Addressed:	Flood; Winter Weather; Thunderstorm; Dam/Levee Failure; Tornado
Lead Agency/Department Responsible:	Caldwell County Building Inspections Department; administrative staff of all participating jurisdictions within the county
Estimated Cost:	\$1,200 per year
Potential Funding Sources:	Maintain present activities under the funding available
Implementation Schedule:	2-5 years
Priority (High, Moderate, Low):	High
2014 Status:	Ongoing. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 4 above.)

Mitigation Action 6	<p>The Caldwell County Building Inspections Department will provide comprehensive services regarding planning and development activities within the defined Special Flood Hazard Area (SFHA) and issues relating to the construction of disaster resistant structures. These services will include:</p> <ol style="list-style-type: none"> a) Providing site specific flood and flood-related information on an as-needed basis. b) Maintaining a list of contractors with experience in floodproofing and retrofit techniques. c) Providing information on windproofing construction methods for new and renovated structures. d) Maintaining materials providing an overview of how to select a qualified contractor. e) Making site visits upon request to review occurrences of flooding, drainage problems, and sewer problems. If applicable, the inspector should provide one-on-one advice to the property owner. f) Providing advice and assistance regarding CRS activity 530. g) Advertising the availability of this service once annually within the local newspaper. h) Maintaining a log of all individuals assisted through this County service including all site visits.
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Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Caldwell County Building Inspections Department; Caldwell County Planning and Development Department
Estimated Cost:	Maintain present activities under the funding available
Potential Funding Sources:	Existing department and staff resources
Implementation Schedule:	2-5 years
Priority (High, Moderate, Low):	High
2014 Status:	Ongoing. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 5 above.)

Mitigation Action 7	<p>Caldwell County and its municipalities will continue to maintain all property acquired within the Special Flood Hazard Area (SFHA) as undisturbed open space in perpetuity. All parties will continue to pro-actively establish open space within the floodplain and floodway as grant funds become available to carry out this initiative.</p>
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Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood; Dam/Levee Failure; Wildfire
Lead Agency/Department Responsible:	Caldwell County Building Inspections Department; Caldwell County Planning and Development Department
Estimated Cost:	\$250,000+
Potential Funding Sources:	Grant fund resources; hazard mitigation of Lenoir EMS Base
Implementation Schedule:	1-5 years
Priority (High, Moderate, Low):	High
2014 Status:	Ongoing. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 6 above.)

Mitigation Action 8	The Caldwell County Planning and Development Department will maintain a comprehensive Geographic Information System (GIS) with current Flood Insurance Rate Map (FIRM) panels in an effort to make this information readily available to County citizens. In addition to this digital data, bound copies of all historical and current FIRM panels will be maintained within the Caldwell County Planning and Development Department office.
Category:	Local Plans and Regulations; Education and Awareness Programs
Hazard(s) Addressed:	Flood; Dam/Levee Failure
Lead Agency/Department Responsible:	Caldwell County Planning and Development Department; Caldwell County Information Technology Department
Estimated Cost:	Unspecified
Potential Funding Sources:	Existing department and staff resources
Implementation Schedule:	1-5 years
Priority (High, Moderate, Low):	High
2014 Status:	Completed.

Mitigation Action 9	The Caldwell County Mitigation Advisory Committee, in conjunction with all municipal jurisdictions participating in the 2009 plan update, will work on the five-year implementation of this Hazard Mitigation Plan Update. At the end of the five-year period, the County will again update the plan.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Caldwell County Emergency Management Department
Estimated Cost:	To be determined
Potential Funding Sources:	General Fund
Implementation Schedule:	1-5 years
Priority (High, Moderate, Low):	High
2014 Status:	Caldwell County has participated in the regionalization of the Caldwell County hazard mitigation plan and is now a participating jurisdiction in the Unifour Regional Hazard Mitigation Plan. This process has taken the place of the previously planned county-level 5-year plan update.

Mitigation Action 10	Caldwell County, as well as all participating jurisdictions, will continue to support the North Carolina Office of Dam Safety's efforts to monitor and inspect all dams throughout the county, as well as the State of North Carolina. The County relies on this agency to ensure that all dam facilities, both public and private, are properly maintained and stable.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood; Dam/Levee Failure
Lead Agency/Department Responsible:	Caldwell County Emergency Management Department; administrative staff of all participating jurisdictions
Estimated Cost:	\$2,500 per year
Potential Funding Sources:	Caldwell County Emergency Management Budget for registry
Implementation Schedule:	1-5 years
Priority (High, Moderate, Low):	High
2014 Status:	Ongoing. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 7 above.)

Mitigation Action 11	Caldwell County will maintain participation in the Community Rating System (CRS) program. Additionally, Caldwell County will work with all participating jurisdictions, upon request, to secure inclusion in the CRS program. Currently, only unincorporated Caldwell County is a participant in the program.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flooding; Dam/Levee Failure
Lead Agency/Department Responsible:	Caldwell County Planning and Development Department; elected boards of all participating jurisdictions
Estimated Cost:	Unspecified
Potential Funding Sources:	Existing department and staff resources
Implementation Schedule:	3-5 years
Priority (High, Moderate, Low):	Moderate
2014 Status:	Completed.

Mitigation Action 12	The Caldwell County Emergency Management Department will continue to work closely with the American Red Cross on the management and, when necessary, operation of emergency shelter facilities within the county. The County will operate only in a support role in dealing with individual shelter issues.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	American Red Cross; Caldwell County Emergency Management Department
Estimated Cost:	\$200,000
Potential Funding Sources:	Grant funding and possible donations
Implementation Schedule:	2-5 years
Priority (High, Moderate, Low):	High
2014 Status:	Ongoing. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 8 above.)

Mitigation Action 13	Caldwell County will work with the American Red Cross, and will attempt to obtain funding for locating switches and generators at all emergency shelter locations.
Category:	Emergency Services
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Caldwell County Emergency Management Department; American Red Cross
Estimated Cost:	Unspecified
Potential Funding Sources:	Existing department and staff resources or grant funding
Implementation Schedule:	2-5 years
Priority (High, Moderate, Low):	High
2014 Status:	DPR controlled and no funding in the past two years. Looking for new ways to fund this project.

Mitigation Action 14	The Caldwell County Emergency Management Department will continue to coordinate with the Caldwell County Public Works Department, as well as all participating jurisdictions, regarding the monitoring of water resources statewide. When necessary the County will institute measures to conserve water resources according to the County's Drought Management Plan.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Drought
Lead Agency/Department Responsible:	Caldwell County Water Department; administrative staff of all participating jurisdictions
Estimated Cost:	Unspecified
Potential Funding Sources:	Existing department and staff resources
Implementation Schedule:	1-5 years
Priority (High, Moderate, Low):	Low
2014 Status:	Ongoing. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 9 above.)

Mitigation Action 15	Caldwell County, as well as all participating jurisdictions, will maintain a contract with a qualified post-disaster recovery service provider. This contract will include the provision of essential services and equipment, including generators, and will include documentation required for reimbursement from FEMA/NCEM.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Caldwell County Emergency Management Department; administrative staff of all participating jurisdictions
Estimated Cost:	Unspecified
Potential Funding Sources:	Existing department and staff resources
Implementation Schedule:	1-5 years
Priority (High, Moderate, Low):	Moderate
2014 Status:	Ongoing. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 13 above.)

Mitigation Action 16	Caldwell County will assist all communities within the county, including property owners in unincorporated areas, in applying for FEMA-sponsored mitigation grant assistance for the acquisition and/or elevation of substantially damaged structures following a natural disaster.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Caldwell County Emergency Management Department; elected boards of all participating jurisdictions
Estimated Cost:	Unspecified
Potential Funding Sources:	Existing department and staff resources
Implementation Schedule:	1-5 years
Priority (High, Moderate, Low):	Low
2014 Status:	Ongoing. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 14 above.)

Mitigation Action 17	The Caldwell County Emergency Management Department will continue to work on the establishment of a comprehensive special needs registry. This effort will involve the cooperation of all participating jurisdictions.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Caldwell County Emergency Management Department; administrative staff of all participating jurisdictions
Estimated Cost:	Unspecified
Potential Funding Sources:	Existing department and staff resources
Implementation Schedule:	1-5 years
Priority (High, Moderate, Low):	Low
2014 Status:	Deleted. This activity has fallen back into the hands of the North Carolina Department of Health and Human Services (NCDHHS). They have the legal obligation to maintain this type of registry.

Mitigation Action 18	The City of Lenoir will continue to serve an administrative role in the implementation and enforcement of the County’s comprehensive stormwater management program. The stormwater regulations outlined within this program shall apply to Gamewell, Cahah’s Mountain, Lenoir, Hudson, Sawmills, and Granite Falls.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	City of Lenoir Planning and Building Inspections Department; administrative staff of Caldwell County; administrative staff of all municipalities within the county
Estimated Cost:	Unspecified
Potential Funding Sources:	Existing department and staff resources
Implementation Schedule:	1-5 years
Priority (High, Moderate, Low):	High
2014 Status:	Ongoing. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 10 above.)

Mitigation Action 19	Caldwell County will consider the development and adoption of a slope control ordinance based on the findings outlined within this plan.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Landslide
Lead Agency/Department Responsible:	Caldwell County Planning and Development Department; Caldwell County Board of Commissioners
Estimated Cost:	Unspecified
Potential Funding Sources:	Existing department and staff resources
Implementation Schedule:	2-5 years
Priority (High, Moderate, Low):	Moderate
2014 Status:	The Caldwell County Planning Board holds the future of this purposed ordinance.

Mitigation Actions 20 and 21 were specific to the Town of Granite Falls, Town of Gamewell, and Town of Hudson and updates on those actions are included in those respective Mitigation Action Plans.

Mitigation Action 22	In an effort to incorporate discussions relating to the provision of electric service during or following natural hazard events, Caldwell County will consider inviting a staff member from each of the electric service providers operating in the county to attend and participate in all Local Emergency Planning Commission (LEPC) meetings.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood; Dam/Levee Failure; Winter Weather; Thunderstorm; Windstorm
Lead Agency/Department Responsible:	Caldwell County Emergency Management Department; Electric Service Providers
Estimated Cost:	Unspecified
Potential Funding Sources:	Existing department and staff resources
Implementation Schedule:	2-5 years
Priority (High, Moderate, Low):	Moderate
2014 Status:	Completed. Both Electrical Cooperatives have representation on the LEPC as of 2013.

Mitigation Actions 23 and 24 were specific to the Town of Rhodhiss and updates on those actions are included in that Mitigation Action Plan.

Mitigation Action Plan—Catawba County

2014 Mitigation Actions

Mitigation Action 1	Install generator transfer switch connections during the construction of new public facilities (schools, fire stations, County buildings, etc.).
Category:	Structure and Infrastructure Projects
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Catawba County Finance; Purchasing; and Emergency Services Departments
Estimated Cost:	To be determined
Potential Funding Sources:	General Fund; Department of Homeland Security – Emergency Management Performance Grants (EMPG), Hazard Mitigation Grant Program (HMGP), Pre-Disaster Mitigation (PDM) program.
Implementation Schedule:	Immediate
Priority (High, Moderate, Low):	High

Mitigation Action 2	Continue to evaluate County policies to reduce greenhouse gases. These policies may include additional lighting retrofitting, “green” purchasing goals, upgrading of equipment in buildings, acquisition/dedication of parkland, and timber management at existing parks.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Designed to address climate change and its long-term potential to increase the frequency and severity of natural hazards including Floods; Hurricanes and Tropical Storms; Severe Thunderstorms; Tornadoes; Wildfire; Drought; Winter Storms; and Dam/Levee Failure.
Lead Agency/Department Responsible:	County Manager’s Office
Estimated Cost:	Staff time
Potential Funding Sources:	General Fund
Implementation Schedule:	Immediate
Priority (High, Moderate, Low):	High

Mitigation Action 3	Prepare a one-page information sheet that incorporates the floodplain development permitting process for all departments. In addition, when permits are being reviewed where access to the site requires new driveway/road construction across a floodplain, require stream crossing plans with drainage calculations, culvert size, and installation details.
Category:	Local Plans and Regulations; Education and Awareness Programs
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Catawba County Building Inspections; Planning, Parks & Development; and Environmental Health Departments
Estimated Cost:	Staff time
Potential Funding Sources:	General Fund
Implementation Schedule:	1-2 years
Priority (High, Moderate, Low):	High

Mitigation Action 4	Update the County's Parks Master Plan to identify locations and funding sources for greenways in order to preserve sensitive land along river systems.
Category:	Natural Systems Protection
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Catawba County Planning, Parks & Development Department
Estimated Cost:	Staff time
Potential Funding Sources:	General Fund
Implementation Schedule:	1-2 years
Priority (High, Moderate, Low):	High

Mitigation Action 5	In coordination with the Carolina Thread Trail organization, begin acquiring land and construct an interconnected trail network along Lyle Creek.
Category:	Natural Systems Protection
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Catawba County Planning, Parks & Development Department
Estimated Cost:	To be determined
Potential Funding Sources:	Carolina Thread Trail; Parks and Recreation Trust Fund (PARTF); North Carolina State Trails Program; volunteers
Implementation Schedule:	1-2 years
Priority (High, Moderate, Low):	High

Mitigation Action 6	Conduct outreach to the public regarding the County’s Community Alert System to educate them about how to obtain information both pre- and post-event and about mitigation strategies such as proper tree-trimming techniques.
Category:	Education and Awareness Programs
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Catawba County Emergency Services Department
Estimated Cost:	Staff time
Potential Funding Sources:	General Fund
Implementation Schedule:	1-2 years
Priority (High, Moderate, Low):	High

Mitigation Action 7	Incorporate hazard mitigation elements into the development of new small area and corridor plans.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Catawba County Planning, Parks & Development Department
Estimated Cost:	Staff time
Potential Funding Sources:	General Fund
Implementation Schedule:	1-2 years
Priority (High, Moderate, Low):	High

Mitigation Action 8	Improve information sharing with Duke Energy regarding its operational procedures for the movement of water through its hydro-electric systems on the Catawba River. This can be achieved by meeting formally at least once a year, when significant weather events are anticipated, and when upgrades or improvements to the system are scheduled.
Category:	Education and Awareness Program
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Catawba County Emergency Services Department
Estimated Cost:	Staff time
Potential Funding Sources:	General Fund
Implementation Schedule:	Ongoing
Priority (High, Moderate, Low):	High

Mitigation Action 9	Establish a protocol for monitoring the tail race areas below the Catawba River dams during high water events to ensure security of the area and limiting public access.
Category:	Education and Awareness Program
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Catawba County Emergency Services and Sheriff's Departments
Estimated Cost:	Staff time
Potential Funding Sources:	General Fund
Implementation Schedule:	Ongoing
Priority (High, Moderate, Low):	High

Mitigation Action 10	Work with local land trusts to secure conservation easements on farmland to preserve sensitive land along river systems.
Category:	Natural Systems Protection
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Catawba County Planning, Parks & Development and Soil & Water Conservation Departments
Estimated Cost:	To be determined
Potential Funding Sources:	Farmland Preservation Trust Fund; other private funding sources
Implementation Schedule:	3-5 years
Priority (High, Moderate, Low):	Moderate

Mitigation Action 11	Identify locations of log jamming in priority watersheds which could jeopardize bridge abutments and water supply using new GIS aerial photography available in late 2014. Relay this information to appropriate agencies and develop action plans for abatement.
Category:	Structure and Infrastructure Projects
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Catawba County Emergency Services and Planning, Parks & Development Departments
Estimated Cost:	Staff time
Potential Funding Sources:	General Fund and Hazard Mitigation Grant Program (HMGP), Pre-Disaster Mitigation (PDM) program grants
Implementation Schedule:	Immediate
Priority (High, Moderate, Low):	Moderate

Mitigation Action 12	Evaluate the need for stronger building code requirements for structures constructed in the tail race areas below the Catawba River dams in order to prevent property damage downstream.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Catawba County Building Codes & Services Department
Estimated Cost:	Staff time
Potential Funding Sources:	General Fund
Implementation Schedule:	3-5 years
Priority (High, Moderate, Low):	Moderate

Mitigation Action 13	Propose the requirement for a stormwater master plan for new major subdivisions that addresses the treatment of stormwater for new roads and lots within the development.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Catawba County Utilities & Engineering Department
Estimated Cost:	Staff time
Potential Funding Sources:	General Fund
Implementation Schedule:	3-5 years
Priority (High, Moderate, Low):	Moderate

Status of Previously Adopted Mitigation Actions

Mitigation Action 1	Preserve large, intact forest land through the acquisition and/or dedication of park land through the County’s Unified Development Ordinance requirements. As part of the Parks Department forestry management program, non-native pine plantation stands in the park property will be selectively harvested to allow for the successional return of native forest vegetation. This action is aimed at reducing greenhouse gases through carbon sequestration and thereby also helping to reduce the potential of increased frequency and severity of natural hazards (particularly drought and wildfire, but many others identified in this Plan as well).
Category:	Natural Resource Protection
Hazard(s) Addressed:	Designed to address climate change and its long-term potential to increase the frequency and severity of natural hazards including Flood; Hurricane and Tropical Storm; Severe Thunderstorm; Tornado; Wildfire; Drought; Winter Storm; and Dam/Levee Failure.
Lead Agency/Department Responsible:	Catawba County Planning, Parks & Development Department
Estimated Cost:	Staff time to be determined
Potential Funding Sources:	General Fund
Implementation Schedule:	Ongoing
Priority (High, Moderate, Low):	High
2014 Status:	Ongoing. Catawba County acquired 580 acres of land on Lake Norman (referred to as the Mountain Creek tract) in late 2010. This tract of land consists of an old growth forest along with planted pines which will be preserved in perpetuity. As development occurs in the county, either on-site dedication of park land will be provided or a fee-in-lieu will be obtained to acquire additional preserved land. The Planning & Development Department, with the State, is in the process of coordinating the acquisition of 36 acres adjoining the Bunker Hill Covered Bridge in order to preserve additional acreage of an old growth forest. The Parks Department is evaluating non-native pine plantation stands at River Bend Park which may be harvested in the next two years. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 2 above.)

Mitigation Action 2	Conduct a carbon footprint analysis for the County’s facilities and evaluate current policies to identify ways to reduce greenhouse gases. Implement priority strategies identified in the study, which may include the production of biodiesel fuel at the County’s EcoComplex, renewable energy sources such as windmills, reduction of particulate matter and ozone through recommendations of the Early Action Compact, and the development of an energy plan which may include purchasing policies that address energy reduction strategies and contractor policies for equipment emissions.
Category:	Prevention
Hazard(s) Addressed:	Designed to address climate change and its long-term potential to increase the frequency and severity of natural hazards including Flood; Hurricane and Tropical Storm; Severe Thunderstorm; Tornado; Wildfire; Drought; Winter Storm; and Dam/Levee Failure.
Lead Agency/Department Responsible:	Multi-departmental through Green Initiatives Team, especially the Catawba County Public Health and Utilities & Engineering Departments
Estimated Cost:	Staff time with implementation to be determined
Potential Funding Sources:	General Fund and Energy Department grants
Implementation Schedule:	1-2 years
Priority (High, Moderate, Low):	High
2014 Status:	Ongoing. Catawba County has decreased its carbon footprint by 4.24% from calendar year 2010 through 2012. This has been achieved through light retrofitting in government buildings, replacing outdated air conditioners and other appliances with more energy efficient models, and designing newer buildings using resource efficient design techniques. To date, 63% of all County building space has been retrofitted with T-8 lighting or better. In addition, the County has a policy of purchasing recycled and other environmentally preferred products. In the 1st quarter of FY 2013, 36.25% of items purchased were “green.” In August 2011, the Catawba County-Appalachian State University Biodiesel Research Development and Production Facility was officially opened. Research at the facility includes the testing of biodiesel produced from feedstock crops grown around the Blackburn Landfill. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 2 above.)

Mitigation Action 3	Develop a farmland preservation plan which will identify tools and techniques to preserve sensitive farmland, and particularly those areas prone to flooding.
Category:	Prevention; Natural Resource Protection
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Catawba County Planning, Parks & Development Department; Cooperative Extension through the Agricultural Advisory Board
Estimated Cost:	To be determined
Potential Funding Sources:	Agricultural Development & Farmland Preservation (ADFP) trust fund grant; Catawba County General Fund
Implementation Schedule:	1-2 years
Priority (High, Moderate, Low):	High
2014 Status:	Completed. A Farm & Food Sustainability Plan was developed by a committee of over 20 partners which identified 66 action items to be implemented over the next 5+ years to help promote and sustain agriculture in the county. Action items included identifying conservation lands to be protected by local land trusts and advocating for bottomlands to be incorporated into the State's Ecosystem Enhancement Program.

Mitigation Action 4	Maintain continued compliance with the National Flood Insurance Program (NFIP) through implementation of the specific actions. This includes evaluating the Community Rating System (CRS) and identifying strategies that can be implemented to reduce flood potential and in turn allow for a reduction in flood insurance rates for citizens of the County. These strategies may include maintaining digital FEMA elevation certificates, training for plan reviewers and building inspectors, sponsoring a training workshop for surveyors, and pursuing Certified Floodplain Manager (CFM) certification for a staff person. Supplies of FEMA and NFIP materials will also be made available to the public in various locations throughout the county such as libraries and on the Catawba County website.
Category:	Prevention and Public Education/Awareness
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Catawba County Planning, Parks & Development and Emergency Services Departments
Estimated Cost:	To be determined
Potential Funding Sources:	General Fund and Grants
Implementation Schedule:	1-2 years
Priority (High, Moderate, Low):	High
2014 Status:	Completed. This action is considered complete as a mitigation action. Now that the practice is institutionalized within the Catawba County Planning, Parks and Development Department it is understood that compliance with the NFIP will continue and therefore this action has been deleted from the list of 2014 mitigation actions. Staff attended a 3-day workshop in 2012 on the CRS, which included an overview of the new CRS manual. After evaluating the program and the advantages to property owners, it was determined that there would be very little benefit weighed against the costs of implementing the CRS program. When the new CRS program manual is adopted, this may be re-evaluated again. The County has links to the NC Floodmaps website and information about floodplain development permits on its website.

Mitigation Action 5	Develop a countywide greenway master plan to provide an interconnected trail network which preserves sensitive land along river systems. These trails can become part of the Carolina Thread Trail, Duke Energy Relicensing facilities, and the Lake Norman Bicycle Route.
Category:	Natural Resource Protection
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Catawba County Planning, Parks & Development Department
Estimated Cost:	To be determined
Potential Funding Sources:	Carolina Thread Trail; Parks and Recreation Trust Fund (PARTF); Clean Water Management Trust Fund (CWMTF); other grant sources
Implementation Schedule:	1-2 years
Priority (High, Moderate, Low):	High
2014 Status:	Completed. Catawba County prepared and adopted its Carolina Thread Trail Master Plan which lays out a plan for an interconnected trail system of 126 miles within the county. Of the 126 miles, 56 miles (or 45%) is proposed along river corridors which will preserve sensitive floodplain areas through the acquisition of easements. The County also adopted the Lake Norman Bicycle Route Plan which also will help to protect sensitive corridor areas.

Mitigation Action 6	Provide education to citizens about tree-trimming techniques to reduce the potential for power outages due to downed tree limbs.
Category:	Public Education and Awareness
Hazard(s) Addressed:	Hurricane and Tropical Storm; Severe Thunderstorm; Tornado; Winter Weather
Lead Agency/Department Responsible:	Cooperative Extension through local power companies
Estimated Cost:	Staff time
Potential Funding Sources:	General Fund
Implementation Schedule:	1-3 years
Priority (High, Moderate, Low):	High
2014 Status:	Ongoing. Newspaper articles have been written regarding tree-trimming techniques and periodically about weather threats and how to be prepared. Cooperative Extension, through its NC State website, has information on emergency preparedness which includes information on chainsaw safety, how to take care of storm damaged trees, and hiring an arborist. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 6 above.)

Mitigation Action 7	Coordinate with the American Red Cross to install pre-wired connections (“Quick Connects”) to use portable generators at targeted critical public facilities and those designed to serve as shelters for disaster survivors. Evaluate other locations with existing wiring which can accommodate generators, for example, schools, churches, recreation centers.
Category:	Emergency Services
Hazard(s) Addressed:	Flood; Hurricane and Tropical Storm; Thunderstorm; Tornado; Wildfire; Drought; Winter Weather; Erosion; Dam/Levee Failure; Earthquake; Sinkhole; Landslide
Lead Agency/Department Responsible:	Catawba County Emergency Services Department; American Red Cross
Estimated Cost:	To be determined
Potential Funding Sources:	Department of Homeland Security – Emergency Management Performance Grants (EMPG), Hazard Mitigation Grant Program (HMGP), Pre-Disaster Mitigation (PDM) program.
Implementation Schedule:	Ongoing
Priority (High, Moderate, Low):	High
2014 Status:	Completed. Pre-wired connections were installed at two schools (Startown Elementary and Bandys High School) within the last three years using Department of Homeland Security grants. Staff has met with representatives of the County schools to establish a policy to have pre-wired connections installed during the construction of new facilities in order to be more cost effective. An inventory of activity sites and outreach to churches and other shelter facilities has been conducted.

Mitigation Action 8	Provide outreach education to property owners along flood-prone areas, such as Carpenters Cove, about floodplain regulations and evacuation plans. This includes direct mailings to owners of repetitive loss properties (as identified by FEMA) about available mitigation grant programs. Also provide education opportunities for school-age children, such as the American Red Cross “Masters of Disaster” education program.
Category:	Emergency Services; Public Education and Awareness
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Catawba County Emergency Services Department; American Red Cross; Catawba County Planning, Parks & Development Department
Estimated Cost:	Staff time
Potential Funding Sources:	General Fund
Implementation Schedule:	1-3 years
Priority (High, Moderate, Low):	High
2014 Status:	Completed. Staff has conducted door-to-door meetings with property owners in the Carpenters Cove area of Lake Lookout. Information shared with the owners included: emergency preparedness, the County’s Community Alert System, and flood insurance information. This information has also been shared with property owners below the Marshall Steam Station dam on Lake Norman. Countywide community and school programs have been conducted about the County’s Community Alert System and flood prevention/insurance issues. An owner in Carpenters Cove applied for a flood mitigation grant and has completed mitigation actions for his structures.

Mitigation Action 9	Promote a standard hook up for emergency generators such that any portable generator can be simply connected to it for supply of power to vital circuits in homes and/or public buildings. Priority locations are hospitals, nursing homes, schools, and government buildings.
Category:	Emergency Services
Hazard(s) Addressed:	Flood; Hurricane and Tropical Storm; Thunderstorm; Tornado; Wildfire; Drought; Winter Weather; Erosion; Dam/Levee Failure; Earthquake; Sinkhole; Landslide
Lead Agency/Department Responsible:	Catawba County Emergency Services Department; American Red Cross
Estimated Cost:	To be determined
Potential Funding Sources:	Department of Homeland Security – Emergency Management Performance Grants (EMPG), Hazard Mitigation Grant Program (HMGP), Pre-Disaster Mitigation (PDM) program.
Implementation Schedule:	1-2 years
Priority (High, Moderate, Low):	High-Moderate
2014 Status:	Completed. Staff has worked with the nursing homes in the county and conducted testing of generators at hospitals and schools.

Mitigation Action 10	Identify areas for emergency access to and from public properties, such as Bakers Mountain Park, Riverbend Park, and the Wildlife Club (off Lynn Mountain Road). These areas will be maintained for access by emergency personnel in the event of wildfires or other events. This includes working with key property owners adjoining the subject properties, developing cooperative agreements, and clearing/maintaining new or existing fire roads. Emphasis will be placed on securing access ways at each of these properties. Gating, ditching, signage, and fencing is necessary in high risk areas that are prone to vandalism that may result in forest fires. The first phase will be mapping of appropriate locations and training with EMS in the County's parks.
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Category:	Natural Resource Protection; Public Education/Awareness
Hazard(s) Addressed:	Wildfire
Lead Agency/Department Responsible:	Catawba County Emergency Services Department; Forest Service; Park Personnel
Estimated Cost:	To be determined
Potential Funding Sources:	Grants or community-service projects with organized groups
Implementation Schedule:	1-2 years
Priority (High, Moderate, Low):	Moderate
2014 Status:	Completed. Procedures are established for evacuation of the parks which includes alternative routes when appropriate. Also, natural breaks are established in the parks which would reduce the spread of wildfires to adjoining properties. Due to the recent flooding events in the county, a closure plan for River Bend Park has been implemented; whereby, portions of trails are closed depending upon the level of flooding and gates open at Oxford Dam.

Mitigation Action 11	Evaluate the Firewise communities program and its application to develop communities and homes which are designed, built, and maintained to withstand wildfires.
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Category:	Public Education and Awareness
Hazard(s) Addressed:	Wildfire
Lead Agency/Department Responsible:	Catawba County Emergency Services; Fire Department; and Planning, Parks & Development Departments
Estimated Cost:	To be determined
Potential Funding Sources:	To be determined
Implementation Schedule:	2-3 years
Priority (High, Moderate, Low):	Moderate
2014 Status:	Completed. The County Forest Service Agency provided information about the Firewise program during various events throughout the past several years. They have also shared information with various fire departments when speaking about fire prevention. The County's Community Wildfire Protection Plan addresses areas of concern which are monitored by the Forest Service.

Mitigation Action 12	Ensure that manufactured home parks have perimeter vegetative buffers to protect manufactured homes from high wind events.
Category:	Prevention
Hazard(s) Addressed:	Hurricane and Tropical Storm; Thunderstorm; Tornado
Lead Agency/Department Responsible:	Catawba County Planning, Parks & Development Department
Estimated Cost:	Requirement of ordinance
Potential Funding Sources:	Private
Implementation Schedule:	1-3 years
Priority (High, Moderate, Low):	Moderate
2014 Status:	Not completed. As a matter of policy, this requirement was deleted from the Unified Development Ordinance and therefore is no longer a viable mitigation action.

Mitigation Action 13	Continue the work of the established multi-jurisdictional Stormwater Committee to prioritize stormwater issues/projects within the area. This committee will meet regularly to develop action plans and establish priorities for addressing stormwater issues which would minimize the impacts of flooding throughout the County. Examples of efforts would include coordination of stormwater review of subdivisions, public education on clearing stormwater drains and culverts, a stormwater plan to address flooding episodes at Carpenters Cove, and sharing of information with the North Carolina Department of Transportation (NCDOT) regarding debris accumulation at bridge abutments, culverts, etc.
Category:	Prevention; Natural Resource Protection; Public Education and Awareness
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Multi-jurisdictional with staff of Catawba County Engineering and Planning Departments
Estimated Cost:	Staff time
Potential Funding Sources:	General Fund
Implementation Schedule:	1-2 years
Priority (High, Moderate, Low):	Moderate
2014 Status:	Completed. A working group of fire, law enforcement, emergency managers, and NCDOT meet quarterly to discuss issues of concern, which include debris removal at bridge abutments and culverts. Also Public Service Announcements are periodically run to encourage the clearing of private road/driveway culvert drains. The committee has been established to do the work and is up and running; therefore, this is no longer needed as a 2014 mitigation action.

Mitigation Action 14	Coordinate with Social Services to provide back-up power at family care, nursing, and adult care homes within the county.
Category:	Emergency Services
Hazard(s) Addressed:	Flood; Hurricane and Tropical Storm; Thunderstorm; Tornado; Wildfire; Drought; Winter Weather; Erosion; Dam/Levee Failure; Earthquake; Sinkhole; Landslide
Lead Agency/Department Responsible:	Catawba County Emergency Services; Social Services
Estimated Cost:	To be determined
Potential Funding Sources:	Department of Homeland Security – Emergency Management Performance Grants (EMPG), Hazard Mitigation Grant Program (HMGP), Pre-Disaster Mitigation (PDM) program.
Implementation Schedule:	2-3 years
Priority (High, Moderate, Low):	Moderate
2014 Status:	Completed. Meetings have been conducted with nursing home operators within the last year about the importance of having back-up power generators. Due to the costs of retrofitting, very few have installed generators. Outreach with family care and adult care home operators has been conducted to encourage them to have emergency preparedness plans in place; whereby, they move residents to other facilities that have generators or have not been impacted by a hazard occurrence.

Mitigation Action 15	Evaluate ordinances and policies to develop ways to address mitigation for drought events. This may include implementation of a Low Inflow Protocol along the Catawba River and encouraging drought resistant vegetation and LEED standards for new development.
Category:	Prevention
Hazard(s) Addressed:	Drought
Lead Agency/Department Responsible:	Catawba County Planning, Parks & Development Department
Estimated Cost:	Staff time
Potential Funding Sources:	General Fund
Implementation Schedule:	1-3 years
Priority (High, Moderate, Low):	Moderate
2014 Status:	Completed. The County’s Unified Development Ordinance (UDO) was amended to encourage the planting of drought tolerant plant materials as part of the landscaping requirements for new development. A Landscaping Manual is in the final stages of development which will include specific drought tolerant species for planting in the county. Also, the UDO encourages the use of sustainable maintenance systems for landscaping, such as rain barrels or cisterns. Catawba County adopted a policy whereby it will rebate 50% of fees related to plan review or express plan review for commercial buildings seeking LEED, Energy Star, and/or NC Healthy Built Homes certification. Catawba County is a signator to the Duke Energy Relicensing Agreements which established a Low Inflow Protocol (LIP) in managing the river system during times of drought.

Mitigation Action 16	Continue and expand the network of public-private partners, such as the Local Emergency Planning Committee (LEPC), to include other organizations like the Contingency Planning Association of the Carolinas (CPAC) to engage the business community in hazard mitigation activities.
Category:	Public Education and Awareness
Hazard(s) Addressed:	Flood; Hurricane and Tropical Storm; Thunderstorm; Tornado; Wildfire; Drought; Winter Weather; Erosion; Dam/Levee Failure; Earthquake; Sinkhole; Landslide
Lead Agency/Department Responsible:	Catawba County Emergency Services Department
Estimated Cost:	Staff time
Potential Funding Sources:	General Fund
Implementation Schedule:	Ongoing
Priority (High, Moderate, Low):	Moderate
2014 Status:	Completed. The LEPC meets semi-annually to discuss emergency preparedness. Recently, an environmental specialist has been added to the group to provide additional expertise for the group. The committee has been established to do the work and is up and running; therefore, this is no longer needed as a 2014 mitigation action.

Mitigation Action 17	Develop a landscape manual which encourages the use of native trees and vegetation which are storm and drought resistant. This manual will be available to the development community as a tool to meet the landscaping requirements of the Unified Development Ordinance. The general public will also be encouraged to use this manual when landscaping individual home sites.
Category:	Public Education and Awareness
Hazard(s) Addressed:	Hurricane and Tropical Storm; Thunderstorm; Tornado; Wildfire; Drought; Winter Weather
Lead Agency/Department Responsible:	Catawba County Planning, Parks & Development Department; Cooperative Extension
Estimated Cost:	Staff time
Potential Funding Sources:	General Fund
Implementation Schedule:	1-3 years
Priority (High, Moderate, Low):	Low
2014 Status:	Completed. Information about species of plants that grow well in the county has been obtained from various nurseries in the county. A list of the plants has been compiled and illustrations have been developed and incorporated into a user-friendly manual.

Mitigation Action 18	Provide outreach education to manufactured home park owners and residents on the need for developing an evacuation plan during imminent hazard threats.
Category:	Emergency Services; Public Education and Awareness
Hazard(s) Addressed:	Flood; Hurricane and Tropical Storm; Thunderstorm; Tornado; Wildfire; Drought; Winter Weather; Erosion; Dam/Levee Failure; Earthquake; Sinkhole; Landslide
Lead Agency/Department Responsible:	Catawba County Emergency Services Department
Estimated Cost:	Staff time
Potential Funding Sources:	General Fund
Implementation Schedule:	3-5 years
Priority (High, Moderate, Low):	Low
2014 Status:	Completed. Outreach has been conducted to manufactured home owners about emergency preparedness, such as participating in the County's Community Alert System. Information has been directly delivered to these owners and programs have also been conducted.

Mitigation Action Plan—Town of Catawba

2014 Mitigation Actions

Mitigation Action 1	Evaluate Town policies to reduce greenhouse gases. These policies may include additional lighting retrofitting, “green” purchasing goals, and upgrading of equipment in buildings.
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Category:	Local Plans and Regulations
Hazard(s) Addressed:	Designed to address climate change and its long-term potential to increase the frequency and severity of natural hazards including Floods, Hurricanes and Tropical Storms, Severe Thunderstorms and Tornadoes, Wildfires, Drought, Winter Storms, and Dam/Levee Failure.
Lead Agency/Department Responsible:	Town of Catawba Planning, Administration, and Public Works Departments
Estimated Cost:	Staff time/low
Potential Funding Sources:	Local
Implementation Schedule:	Ongoing
Priority (High, Moderate, Low):	High

Mitigation Action 2	If the Town Public Works Department can do this, keep infrastructure database updated when repairs are made and new facilities are installed.
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Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood; Severe Storms
Lead Agency/Department Responsible:	Town of Catawba Public Works Department
Estimated Cost:	Low
Potential Funding Sources:	Local
Implementation Schedule:	Short-range
Priority (High, Moderate, Low):	Low

Mitigation Action 3	Participate in local and regional public outreach programs regarding hazard potential in our area.
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Category:	Education and Awareness Programs
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Town of Catawba Planning, Administration, Police, Fire, and Public Works Departments
Estimated Cost:	Staff time/low
Potential Funding Sources:	Local
Implementation Schedule:	Short-range
Priority (High, Moderate, Low):	Moderate

Mitigation Action 4	Review Town of Catawba plans and ordinances for alignment and inclusivity regarding potential hazard mitigation measures.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood; Severe Storms
Lead Agency/Department Responsible:	Town of Catawba Planning and Administration Departments
Estimated Cost:	Low
Potential Funding Sources:	Local
Implementation Schedule:	Short-range
Priority (High, Moderate, Low):	High

Mitigation Action 5	Review flood data and designate flood-prone area for greenways in plans, if possible.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Town of Catawba Planning Department
Estimated Cost:	Low
Potential Funding Sources:	Local
Implementation Schedule:	Short-range
Priority (High, Moderate, Low):	Moderate

Mitigation Action 6	<p>Maintain continued compliance with the National Flood Insurance Program (NFIP) through implementation of the following specific actions:</p> <ol style="list-style-type: none"> a) Evaluate and consider the adoption of “higher standards” that are proven to reduce flood damage (including additional freeboard, setbacks, limitations on lower-level enclosure size, and the prohibition on use of fill). b) Develop a checklist for review of building/development permit plans and for inspection of development in floodplains (a model is available). c) Establish a goal to have each plan reviewer attend a related training periodically (for example, the North Carolina Association of Floodplain Managers Annual Conference or Fall Floodplain Institute). d) Encourage or require certain local staff positions to obtain and maintain Certified Floodplain Manager (CFM) certification. e) Maintain supplies of FEMA/NFIP materials to help property owners evaluate measures to reduce potential hazard damage. Make available in public buildings, local library, website, etc. and inform people who they can call to learn more information.
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Category:	Prevention
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Town of Catawba Planning Department
Estimated Cost:	N/A (staff time)
Potential Funding Sources:	N/A
Implementation Schedule:	Immediate and ongoing through 2015
Priority (High, Moderate, Low):	High

Mitigation Action 7	Develop a debris management plan.
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Category:	Emergency Services
Hazard(s) Addressed:	Flood; Hurricane and Tropical Storm, Severe Thunderstorm and Tornado; Wildfire; Winter Storm
Lead Agency/Department Responsible:	Town of Catawba Administration Department
Estimated Cost:	To be determined
Potential Funding Sources:	Department of Homeland Security – Emergency Management Performance Grants (EMPG), Hazard Mitigation Grant Program (HMGP), Pre-Disaster Mitigation (PDM) program; Economic Development Administration – Disaster Mitigation Planning and Technical Assistance.
Implementation Schedule:	Ongoing
Priority (High, Moderate, Low):	High

Mitigation Action 8	Draft a new stormwater drain map.
Category:	Prevention
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Town of Catawba Administration and Public Works Departments
Estimated Cost:	To be determined
Potential Funding Sources:	To be determined
Implementation Schedule:	Ongoing
Priority (High, Moderate, Low):	High

Mitigation Action 9	Provide hazard susceptibility checklist for homeowners to conduct their own inspections.
Category:	Public Education and Awareness
Hazard(s) Addressed:	Flood; Hurricane and Tropical Storm; Severe Thunderstorm; Tornado; Wildfire; Drought; Winter Storm; Erosion; Dam/Levee Failure; Earthquake; Sinkhole; Landslide
Lead Agency/Department Responsible:	Town of Catawba Administration Department
Estimated Cost:	To be determined
Potential Funding Sources:	Department of Homeland Security – Emergency Management Performance Grants (EMPG), Hazard Mitigation Grant Program (HMGP), Pre-Disaster Mitigation (PDM) program, Citizen Corps. Many FEMA and American Red Cross publications are available at no cost.
Implementation Schedule:	Ongoing
Priority (High, Moderate, Low):	Low

Status of Previously Adopted Mitigation Actions

Mitigation Action 1	<p>Maintain continued compliance with the National Flood Insurance Program (NFIP) through implementation of the following specific actions:</p> <ul style="list-style-type: none"> f) Evaluate and consider the adoption of “higher standards” that are proven to reduce flood damage (including additional freeboard, setbacks, limitations on lower-level enclosure size, and the prohibition on use of fill). g) Develop a checklist for review of building/development permit plans and for inspection of development in floodplains (a model is available). h) Establish a goal to have each plan reviewer and building inspector attend a related training periodically (for example, the North Carolina Association of Floodplain Managers Annual Conference or Fall Floodplain Institute). i) Encourage or require certain local staff positions to obtain and maintain Certified Floodplain Manager (CFM) certification. j) Maintain supplies of FEMA/NFIP materials to help property owners evaluate measures to reduce potential hazard damage. Make available in public buildings, local library, website, etc. and inform people who they can call to learn more information.
Category:	Prevention
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Town of Catawba Planning Department
Estimated Cost:	N/A (staff time)
Potential Funding Sources:	N/A
Implementation Schedule:	Immediate and ongoing through 2015
Priority (High, Moderate, Low):	High
2014 Status:	<p>Completed/ongoing. The Town adopted a Flood Damage Prevention Ordinance based off the model provided by the State that provides “higher standards” particularly in regards to freeboard.</p> <p>The Town Planner will plan to attend a training in regards to floodplain management if possible. There are no inspectors within the Town, other than those that inspect through the County.</p> <p>The Town has FEMA/NFIP information in Town Hall for pick up. The Town’s website will add a link that directs people to FEMA and State program sites.</p> <p>Ongoing elements of this action are reflected in the 2014 Mitigation Action 6 above.</p>

Mitigation Action 2		Develop a debris management plan.
Category:	Emergency Services	
Hazard(s) Addressed:	Flood; Hurricane and Tropical Storm, Severe Thunderstorm and Tornado; Wildfire; Winter Storm	
Lead Agency/Department Responsible:	Town of Catawba Administration Department	
Estimated Cost:	To be determined	
Potential Funding Sources:	Department of Homeland Security – Emergency Management Performance Grants (EMPG), Hazard Mitigation Grant Program (HMGP), Pre-Disaster Mitigation (PDM) program; Economic Development Administration – Disaster Mitigation Planning and Technical Assistance.	
Implementation Schedule:	July 2010	
Priority (High, Moderate, Low):	High	
2014 Status:	Ongoing. There is not a formal plan, but public works has an informal plan currently in place. They turn debris into mulch and pile it on a lot where they provide it to the public for free. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 7 above.)	

Mitigation Action 3		Establish pre-disaster debris management contracts.
Category:	Emergency Services	
Hazard(s) Addressed:	Flood, Hurricane and Tropical Storm, Severe Thunderstorm; Tornado; Wildfire; Winter Storm	
Lead Agency/Department Responsible:	Town of Catawba Administration, Police, Fire, and Public Works Department	
Estimated Cost:	N/A	
Potential Funding Sources:	N/A	
Implementation Schedule:	July 2010	
Priority (High, Moderate, Low):	High	
2014 Status:	Similar action ongoing (Mitigation Action 2 above). The Town's Public Works Department removes debris, and, in the case of a disaster, can take it to a landfill. The Town currently provides free mulch, made from the debris.	

Mitigation Action 4		Develop a post-disaster reconstruction plan to facilitate decision making following a hazard event.
Category:	Prevention	
Hazard(s) Addressed:	Flood; Hurricane and Tropical Storm; Severe Thunderstorm; Tornado; Wildfire; Drought; Winter Storm; Erosion; Dam/Levee Failure; Earthquake; Sinkhole; Landslide	
Lead Agency/Department Responsible:	Town of Catawba Administration, Police, and Fire Departments	
Estimated Cost:	To be determined	
Potential Funding Sources:	Department of Homeland Security – Emergency Management Performance Grants (EMPG), Hazard Mitigation Grant Program (HMGP), Pre-Disaster Mitigation (PDM) program; Economic Development Administration – Disaster Mitigation Planning and Technical Assistance.	
Implementation Schedule:	July 2010	
Priority (High, Moderate, Low):	High	
2014 Status:	Deferred. None in existence to the best of planning staff knowledge. Parties responsible (Administration, Police, and Fire) do not seem to have time to complete this given their current work load.	

Mitigation Action 5		Draft a new stormwater drain map.
Category:	Prevention	
Hazard(s) Addressed:	Flood	
Lead Agency/Department Responsible:	Town of Catawba Administration and Public Works Departments	
Estimated Cost:	To be determined	
Potential Funding Sources:	To be determined	
Implementation Schedule:	July 2010	
Priority (High, Moderate, Low):	High	
2014 Status:	Ongoing. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 8 above.)	

Mitigation Action 6		Routinely clean and repair stormwater drains.
Category:	Prevention	
Hazard(s) Addressed:	Flood	
Lead Agency/Department Responsible:	Town of Catawba Public Works Department	
Estimated Cost:	Staff time	
Potential Funding Sources:	To be determined	
Implementation Schedule:	N/A	
Priority (High, Moderate, Low):	High	
2014 Status:	Completed. This activity has been completed as a mitigation action and now the Town Public Works Department does this as an ongoing preventative action.	

Mitigation Action 7		Routinely prune trees and clear tree limbs hanging in right of way.
Category:	Emergency Services	
Hazard(s) Addressed:	Hurricane and Tropical Storm; Severe Thunderstorm; Tornado; Winter Storm	
Lead Agency/Department Responsible:	Relies upon private company (Asplundh) through Duke Energy	
Estimated Cost:	Staff time	
Potential Funding Sources:	To be determined	
Implementation Schedule:	N/A	
Priority (High, Moderate, Low):	High	
2014 Status:	Completed. This action has not been implemented directly by the Town due to lack of tree pruning equipment/apparatus. Instead, the Town relies upon a private company (Asplundh) through Duke Energy for pruning. With this in place, this action does not need to be carried over as an ongoing mitigation action to the list of 2014 actions.	

Mitigation Action 8		Identify and strengthen facilities to function as public shelters.
Category:	Prevention	
Hazard(s) Addressed:	Flood; Hurricane and Tropical Storm; Severe Thunderstorm; Tornado; Wildfire; Drought; Winter Storm; Erosion; Dam/Levee Failure; Earthquake; Sinkhole; Landslide	
Lead Agency/Department Responsible:	Town of Catawba Administration Department	
Estimated Cost:	To be determined	
Potential Funding Sources:	Department of Homeland Security – Emergency Management Performance Grants (EMPG), Hazard Mitigation Grant Program (HMGP), Pre-Disaster Mitigation (PDM) program.	
Implementation Schedule:	N/A	
Priority (High, Moderate, Low):	Low	
2014 Status:	Completed. The Town of Catawba Fire Department is a public shelter, and the Town of Catawba Rescue Building serves as a backup. (It has a generator on site.)	

Mitigation Action 9	Provide hazard susceptibility checklist for homeowners to conduct their own inspections.
Category:	Public Education and Awareness
Hazard(s) Addressed:	Flood; Hurricane and Tropical Storm; Severe Thunderstorm; Tornado; Wildfire; Drought; Winter Storm; Erosion; Dam/Levee Failure; Earthquake; Sinkhole; Landslide
Lead Agency/Department Responsible:	Town of Catawba Administration Department
Estimated Cost:	To be determined
Potential Funding Sources:	Department of Homeland Security – Emergency Management Performance Grants (EMPG), Hazard Mitigation Grant Program (HMGP), Pre-Disaster Mitigation (PDM) program, Citizen Corps. Many FEMA and American Red Cross publications are available at no cost.
Implementation Schedule:	July 2010
Priority (High, Moderate, Low):	Low
2014 Status:	Ongoing. The Town can continue to provide materials to citizens via the sources listed above. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 9 above.)

Mitigation Action Plan—Village of Cedar Rock

2014 Mitigation Actions

Mitigation Action 1	Maintain street rights of way and ditches to prevent damage to streets and property.
Category:	Structure and Infrastructural Projects
Hazard(s) Addressed:	Flood; Thunderstorm; Hurricane and Tropical Storm; Winter Weather
Lead Agency/Department Responsible:	Village of Cedar Rock Private Contractor
Estimated Cost:	\$100,000
Potential Funding Sources:	Power Bill
Implementation Schedule:	Yearly
Priority (High, Moderate, Low):	High

Mitigation Action 2	Update current land use plans to address floodplain development.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood; Severe Storms; Hurricane and Tropical Storm
Lead Agency/Department Responsible:	Village of Cedar Rock; Western Piedmont Council of Governments (WPCOG)
Estimated Cost:	<\$5,000
Potential Funding Sources:	General Fund
Implementation Schedule:	0-2 years
Priority (High, Moderate, Low):	Moderate

Mitigation Action 3	Work with Caldwell County Emergency Services to address potential wildfire issues.
Category:	Prevention
Hazard(s) Addressed:	Wildfire; Drought
Lead Agency/Department Responsible:	Caldwell County Emergency Services; Village of Cedar Rock Village Council
Estimated Cost:	<\$1,000
Potential Funding Sources:	Grants; General Fund
Implementation Schedule:	0-2 years
Priority (High, Moderate, Low):	Low

Mitigation Action 4	Monitor water resources and when necessary institute measures to conserve water through Drought Management Plan.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Drought
Lead Agency/Department Responsible:	Caldwell County Water Department
Estimated Cost:	\$1.5 million
Potential Funding Sources:	Grants and tax-based funding
Implementation Schedule:	Unspecified
Priority (High, Moderate, Low):	High

Mitigation Action 5	Support the North Carolina Office of Dam Safety; make sure dams are regularly inspected.
Category:	Structure and Infrastructure Projects
Hazard(s) Addressed:	Dam Failure; Flood
Lead Agency/Department Responsible:	North Carolina Department of the Environment and Natural Resources (NCDENR), Dam Program
Estimated Cost:	Unspecified
Potential Funding Sources:	Unspecified
Implementation Schedule:	2019
Priority (High, Moderate, Low):	High

Mitigation Action 6	In cooperation with the Caldwell County Planning and Development Department and the Caldwell County Building Inspections Department, make information regarding all hazards and development regulations within floodplains available through the following: <ul style="list-style-type: none"> a) Ensuring that the local library maintains information relating to multi-hazard risks and protection measures. b) Provide a link on the Village’s website to FEMA resources addressing flooding and flood protection, sheltering, evacuation procedures, disaster preparedness, post-disaster recovery, and mitigation techniques.
Category:	Education and Awareness Programs
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Village of Cedar Rock
Estimated Cost:	N/A (covered by Caldwell County)
Potential Funding Sources:	Maintain present activities under the funding available
Implementation Schedule:	Immediate through 2019
Priority (High, Moderate, Low):	High

Mitigation Action 7	In coordination with Caldwell County, the Village of Cedar Rock will continue to maintain all property acquired within the Special Flood Hazard Area (SFHA) as undisturbed open space in perpetuity. All parties will continue to pro-actively establish open space within the floodplain and floodway as grant funds become available to carry out this initiative.
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Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood; Dam/Levee Failure; Wildfire
Lead Agency/Department Responsible:	Village of Cedar Rock; Caldwell County Building Inspections Department; Caldwell County Planning and Development Department
Estimated Cost:	\$250,000+
Potential Funding Sources:	Grant fund resources; hazard mitigation of Lenoir EMS Base
Implementation Schedule:	2019
Priority (High, Moderate, Low):	Low

Mitigation Action 8	In coordination with Caldwell County, the Village of Cedar Rock will maintain a contract with a qualified post-disaster recovery service provider. This contract will include the provision of essential services and equipment, including generators, and will include documentation required for reimbursement from FEMA/NCEM.
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Category:	Local Plans and Regulations
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Village of Cedar Rock; Caldwell County Emergency Management Department
Estimated Cost:	Unspecified
Potential Funding Sources:	Existing department and staff resources
Implementation Schedule:	1-5 years
Priority (High, Moderate, Low):	Moderate

Mitigation Action 9	In coordination with the Caldwell County Emergency Management Department, the Village of Cedar Rock will assist with the monitoring of water resources. When necessary, the Town will cooperate with the County in instituting measures to conserve water resources according to the County's Drought Management Plan.
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Category:	Local Plans and Regulations
Hazard(s) Addressed:	Drought; Wildfire
Lead Agency/Department Responsible:	Village of Cedar Rock; Caldwell County Water Department
Estimated Cost:	\$1.5 million (covered by Caldwell County)
Potential Funding Sources:	Grants and tax-based funding
Implementation Schedule:	2016
Priority (High, Moderate, Low):	Low

Mitigation Action 10	Cooperate with Caldwell County in the implementation and enforcement of the County's comprehensive stormwater management program.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Village of Cedar Rock; City of Lenoir Planning and Building Inspections Department; administrative staff of Caldwell County
Estimated Cost:	\$50,000 per year
Potential Funding Sources:	Existing department and staff resources
Implementation Schedule:	2019
Priority (High, Moderate, Low):	Moderate

Mitigation Action 11	Install generator transfer switch connections during the construction of new public facilities (schools, fire stations, public buildings, etc.).
Category:	Structure and Infrastructure Projects
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Village of Cedar Rock; Caldwell County Planning and Development Department
Estimated Cost:	To be determined
Potential Funding Sources:	Local, State, Federal Hazard Mitigation Grant Program (HMGP)
Implementation Schedule:	2019
Priority (High, Moderate, Low):	High

Status of Previously Adopted Mitigation Actions

Mitigation Action 1	Caldwell County will assist all communities within the County, including property owners in unincorporated areas, in applying for FEMA-sponsored mitigation grant assistance for the acquisition and/or elevation of substantially damaged structures following a natural disaster.
Category:	Structure and Infrastructure Projects
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Caldwell County Building Inspections Department
Estimated Cost:	\$1,200
Potential Funding Sources:	Unspecified
Implementation Schedule:	Ongoing
Priority (High, Moderate, Low):	Moderate
2014 Status:	Completed.

Mitigation Action 2	Maintain a contract with a qualified post-disaster recovery service provider for essential services and equipment including generators and will include documentation required for reimbursement from FEMA/NCEM.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Village of Cedar Rock Village Council
Estimated Cost:	Unspecified
Potential Funding Sources:	Unspecified
Implementation Schedule:	6 months
Priority (High, Moderate, Low):	Medium
2014 Status:	Deleted. Not feasible for the Village to complete.

Mitigation Action 3	Monitor water resources and when necessary institute measures to conserve water through Drought Management Plan.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Drought
Lead Agency/Department Responsible:	Caldwell County Water Department
Estimated Cost:	\$1.5 million
Potential Funding Sources:	Grants and tax-based funding
Implementation Schedule:	Unspecified
Priority (High, Moderate, Low):	High
2014 Status:	Ongoing. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 4 above.)

Mitigation Action 4	Support the North Carolina Office of Dam Safety; make sure dams are regularly inspected.
Category:	Structure and Infrastructure Projects
Hazard(s) Addressed:	Dam Failure; Flood
Lead Agency/Department Responsible:	North Carolina Department of the Environment and Natural Resources (NCDENR), Dam Program
Estimated Cost:	Unspecified
Potential Funding Sources:	Unspecified
Implementation Schedule:	Ongoing
Priority (High, Moderate, Low):	High
2014 Status:	Ongoing. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 5 above.)

Mitigation Action 5	Continue to maintain all property acquired within the Special Flood Hazard Area (SFHA) as undisturbed open space in perpetuity. Continue to pro-actively establish open space within the floodplain.
Category:	Natural Systems Protection
Hazard(s) Addressed:	Flood; Dam Failure; Wildfire
Lead Agency/Department Responsible:	Caldwell County Planning Department
Estimated Cost:	\$250,000+
Potential Funding Sources:	Grant funds; hazard mitigation of Lenoir EMS Base
Implementation Schedule:	2015
Priority (High, Moderate, Low):	High
2014 Status:	Deleted. Not feasible for the Village to complete.

Mitigation Action 6	Caldwell County Planning and Building Inspections Departments will make information regarding hazards and development regulations within the floodplain available through the following: library, link on website to FEMA addressing flood protection, disaster preparedness, and post-disaster recovery.
Category:	Education and Awareness Programs
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Caldwell County Building Inspections Department
Estimated Cost:	\$1,200
Potential Funding Sources:	General Budget
Implementation Schedule:	Ongoing
Priority (High, Moderate, Low):	High
2014 Status:	Completed.

Mitigation Action 7	Maintain a map information service about Flood Insurance Rate Maps (FIRMs), advertise annually in the paper, and provide information to inquirers about local floodplain management requirements.
Category:	Education and Awareness Programs
Hazard(s) Addressed:	Flood; Dam Failure
Lead Agency/Department Responsible:	Caldwell County Planning Department
Estimated Cost:	\$85,000
Potential Funding Sources:	Tax-based funding
Implementation Schedule:	Ongoing
Priority (High, Moderate, Low):	High
2014 Status:	Completed.

Mitigation Action 8	Require flood elevation certificates for development within the Special Flood Hazard Area (SFHA).
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Caldwell County Building Inspections Department
Estimated Cost:	\$50,000
Potential Funding Sources:	General budget
Implementation Schedule:	Ongoing
Priority (High, Moderate, Low):	High
2014 Status:	Completed.

Mitigation Action Plan—City of Claremont

2014 Mitigation Actions

Mitigation Action 1	<p>Maintain continued compliance with the National Flood Insurance Program (NFIP) through implementation of the following specific actions:</p> <ol style="list-style-type: none"> a) Maintain digital FEMA elevation certificates for all construction in the floodplain. b) Establish a goal to have each plan reviewer attend a related training periodically. c) Encourage or require certain local staff positions to obtain and maintain Certified Floodplain Manager (CFM) certification. d) Send information about the flood hazard and promote the availability of flood insurance through regularly scheduled mailings (such as the dissemination of handouts with annual property tax notices, utility bills, etc.).
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Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	City of Claremont Planning and Zoning Department
Estimated Cost:	Low
Potential Funding Sources:	Local
Implementation Schedule:	Immediate and ongoing through 2015
Priority (High, Moderate, Low):	High

Mitigation Action 2	<p>Update Claremont Land Development Plan and Recreation Master Plan with current flood data and keep flood-prone areas designated for greenways.</p>
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Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	City of Claremont Planning and Zoning Department
Estimated Cost:	Low
Potential Funding Sources:	Local
Implementation Schedule:	Short range
Priority (High, Moderate, Low):	Moderate

Mitigation Action 3	<p>Keep infrastructure database updated when repairs are made and new facilities are installed.</p>
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Category:	Local Plans and Regulations
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	City of Claremont Public Works Department
Estimated Cost:	Low
Potential Funding Sources:	Local
Implementation Schedule:	Short range
Priority (High, Moderate, Low):	High

Mitigation Action 4	Take part in regional public outreach programs about hazard potential in our areas.
Category:	Education and Awareness Programs
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	City of Claremont Planning and Zoning Department; City of Claremont Administration Department
Estimated Cost:	Low
Potential Funding Sources:	Local
Implementation Schedule:	Short range
Priority (High, Moderate, Low):	Moderate

Mitigation Action 5	Install quick-connect emergency generator hook-ups for remaining critical facilities: four (4) pump stations and City Hall.
Category:	Other
Hazard(s) Addressed:	Flood; Hurricane and Tropical Storm; Thunderstorm, Lightning, and Hail; Tornado; Wildfire; Drought; Winter Weather; Erosion; Dam/Levee Failure; Earthquake; Sinkhole; Landslide
Lead Agency/Department Responsible:	City of Claremont Public Works Department; City of Claremont Administration Department; City of Claremont Police Department; City of Claremont Fire Department
Estimated Cost:	Low
Potential Funding Sources:	Local; Department of Homeland Security (Emergency Management Performance Grants (EMPG), Hazard Mitigation Grant Program (HMGP), Pre-Disaster Mitigation (PDM) program).
Implementation Schedule:	Short range
Priority (High, Moderate, Low):	High

Mitigation Action 6	Create a public outreach program for City citizens about specific hazards that impact Claremont and the resources available for mitigation using social media, the City website, City newsletter, etc.
Category:	Education and Awareness Programs
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	City of Claremont Planning and Zoning Department; City of Claremont Administration Department
Estimated Cost:	Low
Potential Funding Sources:	Local
Implementation Schedule:	Short range
Priority (High, Moderate, Low):	Moderate

Mitigation Action 7	Routinely inspect and maintain fire hydrants.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Wildfire
Lead Agency/Department Responsible:	City of Claremont Fire Department; City of Claremont Public Works Department
Estimated Cost:	Minimal
Potential Funding Sources:	Local
Implementation Schedule:	Immediate (all hydrants are to be tested once a year)
Priority (High, Moderate, Low):	Moderate

Mitigation Action 8	Using social media, the City website, and other public outreach, encourage residents to keep storm drains and ditches clear of debris during storms (to assist, not rely solely on Public Works).
Category:	Education and Awareness Programs
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	City of Claremont Public Works Department
Estimated Cost:	Minimal
Potential Funding Sources:	Local
Implementation Schedule:	Immediate (less than 1 year)
Priority (High, Moderate, Low):	Moderate

Status of Previously Adopted Mitigation Actions

Mitigation Action 1	<p>Maintain continued compliance with the National Flood Insurance Program (NFIP) through implementation of the following specific actions:</p> <ol style="list-style-type: none"> a) Maintain digital FEMA elevation certificates for all construction in the floodplain. b) Evaluate and consider the adoption of “higher standards” that are proven to reduce flood damage (including additional freeboard, setbacks, limitations on lower-level enclosure size, and the prohibition on use of fill). c) Establish a goal to have each plan reviewer and building inspector attend a related training periodically (for example, the North Carolina Association of Floodplain Managers Annual Conference or Fall Floodplain Institute). d) Encourage or require certain local staff positions to obtain and maintain Certified Floodplain Manager (CFM) certification. e) Send information about the flood hazard and promote the availability of flood insurance through regularly scheduled mailings (such as the dissemination of handouts with annual property tax notices, utility bills, etc.).
Category:	Prevention
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	City of Claremont Planning and Zoning Department
Estimated Cost:	Low
Potential Funding Sources:	Local
Implementation Schedule:	Immediate and ongoing through 2015
Priority (High, Moderate, Low):	High
2014 Status:	Ongoing. There has been no new development in need of elevation certificates; the City adopted additional freeboard above minimum standards; staff has attended floodplain management workshops; citizen outreach needs to continue. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 1 above.)

Mitigation Action 2		Install quick-connect emergency generator hook-ups for remaining critical facilities.
Category:	Emergency Services	
Hazard(s) Addressed:	Flood; Hurricane and Tropical Storm; Thunderstorm, Lightning, and Hail; Tornado; Wildfire; Drought; Winter Weather; Erosion; Dam/Levee Failure; Earthquake; Sinkhole; Landslide	
Lead Agency/Department Responsible:	City of Claremont Public Works Department; City of Claremont Administration Department; City of Claremont Police Department; City of Claremont Fire Department	
Estimated Cost:	Low	
Potential Funding Sources:	Local; Department of Homeland Security (Emergency Management Performance Grants (EMPG), Hazard Mitigation Grant Program (HMGP), Pre-Disaster Mitigation (PDM) program).	
Implementation Schedule:	Short range	
Priority (High, Moderate, Low):	High	
2014 Status:	Completed and ongoing. The City of Claremont Fire Department, Police Department, Public Works Department, McLin Sewer Treatment Plant, Rescue Squad, and one (of five) lift stations now have emergency generators. Two more generators for lift stations are budgeted over the next 3 years. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 5 above.)	

Mitigation Action 3		Encourage residents to continue with voluntary water restrictions and water conservation actions.
Category:	Prevention	
Hazard(s) Addressed:	Drought	
Lead Agency/Department Responsible:	City of Claremont Planning and Zoning Department; City of Claremont Public Works Department	
Estimated Cost:	Minimal	
Potential Funding Sources:	Local	
Implementation Schedule:	Short range	
Priority (High, Moderate, Low):	Moderate	
2014 Status:	Ongoing during low precipitation periods; however, this action was not selected to be carried over to the 2014 list of mitigation actions.	

Mitigation Action 4	Verify height of manholes in flood zones with GPS and ensure proper equipment is present.
Category:	Prevention
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	City of Claremont Public Works Department
Estimated Cost:	Low
Potential Funding Sources:	Local
Implementation Schedule:	Short range
Priority (High, Moderate, Low):	Moderate
2014 Status:	Completed. The City collected GPS data for all water, sewer, and storm sewer facilities in 2011.

Mitigation Action 5	Explore the feasibility of a Capital Improvement Plan to extend water lines to areas near the City with well problems.
Category:	Prevention
Hazard(s) Addressed:	Drought
Lead Agency/Department Responsible:	City of Claremont Planning and Zoning Department
Estimated Cost:	Study cost is minimal.
Potential Funding Sources:	Local
Implementation Schedule:	Moderate range
Priority (High, Moderate, Low):	Moderate
2014 Status:	Deferred due to budgetary reasons.

Mitigation Action 6	Explore the feasibility of municipal purchase or private donations of floodplain areas for use as greenways.
Category:	Prevention/Natural Resource Protection
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	City of Claremont Planning and Zoning Department
Estimated Cost:	Study cost is minimal.
Potential Funding Sources:	Local/private donation
Implementation Schedule:	Moderate range (2-3 years)
Priority (High, Moderate, Low):	Moderate
2014 Status:	Ongoing. This is a staff priority when development occurs. These areas are still designated as greenway in the Claremont Land Development Plan.

Mitigation Action 7	Routinely inspect and maintain fire hydrants.
Category:	Emergency Services
Hazard(s) Addressed:	Wildfire
Lead Agency/Department Responsible:	City of Claremont Fire Department; City of Claremont Public Works Department
Estimated Cost:	Minimal
Potential Funding Sources:	Local
Implementation Schedule:	Immediate (all hydrants are to be tested once a year)
Priority (High, Moderate, Low):	Moderate
2014 Status:	Ongoing. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 7 above.)

Mitigation Action 8	Encourage residents to keep storm drains clear of debris during storms (to assist, not rely solely on Public Works).
Category:	Property Protection
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	City of Claremont Public Works Department
Estimated Cost:	Minimal
Potential Funding Sources:	Local
Implementation Schedule:	Immediate (less than 1 year)
Priority (High, Moderate, Low):	Moderate
2014 Status:	Ongoing. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 8 above.)

Mitigation Action Plan—Town of Connelly Springs

2014 Mitigation Actions

Mitigation Action 1	Track rebuilding activities after severe storms and consider policies to minimize repetitive losses.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Town of Connelly Springs Board of Alderman (Planning Board)
Estimated Cost:	N/A
Potential Funding Sources:	Local
Implementation Schedule:	2019
Priority (High, Moderate, Low):	Moderate

Mitigation Action 2	Require floodproofing for structures not elevated 2 feet above base flood elevation.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Town of Connelly Springs Planning Board; Burke County Building Inspections Department
Estimated Cost:	N/A
Potential Funding Sources:	Local
Implementation Schedule:	2019
Priority (High, Moderate, Low):	Low

Mitigation Action 3	Require/maintain FEMA elevation certificates for all new permits for buildings or improvements in the floodplain.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Town of Connelly Springs Board of Alderman (Planning Board); Burke County Building Inspections Department
Estimated Cost:	N/A
Potential Funding Sources:	Local
Implementation Schedule:	2019
Priority (High, Moderate, Low):	Low

Mitigation Action 4	Receive and begin using regulatory floodplain maps.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Town of Connelly Springs Board of Alderman (Planning Board)
Estimated Cost:	N/A
Potential Funding Sources:	State, Local
Implementation Schedule:	2019
Priority (High, Moderate, Low):	High

Mitigation Action 5	Review zoning and subdivision regulations to better control future development in these susceptible areas.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Town of Connelly Springs Board of Alderman (Planning Board)
Estimated Cost:	N/A
Potential Funding Sources:	Local
Implementation Schedule:	2019
Priority (High, Moderate, Low):	Moderate

Mitigation Action 6	Work in cooperation with Burke County, surrounding local governments, and state and federal agencies to maintain appropriate mitigation strategies.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Town of Connelly Springs Board of Alderman (Planning Board)
Estimated Cost:	N/A
Potential Funding Sources:	Local
Implementation Schedule:	2019
Priority (High, Moderate, Low):	High

Mitigation Action 7	In cooperation with Burke County, assist in establishing a program for evaluating and improving critical services (roads, bridges, water, sewer, electricity, etc.) and critical facilities (fire, rescue, medical, etc.) to reduce risk to natural hazards.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Town of Connelly Springs Board of Alderman (Planning Board)
Estimated Cost:	N/A
Potential Funding Sources:	Local, State, Federal
Implementation Schedule:	2019
Priority (High, Moderate, Low):	Moderate

Mitigation Action 8	In cooperation with Burke County, assist (as needed) in preparing a countywide stormwater management plan.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Town of Connelly Springs Board of Alderman (Planning Board)
Estimated Cost:	N/A
Potential Funding Sources:	Local, State
Implementation Schedule:	2019 (Revise in 2015)
Priority (High, Moderate, Low):	Moderate

Mitigation Action 9	Install generator transfer switch connections during the construction of new public facilities (schools, fire stations, public buildings, etc.).
Category:	Structure and Infrastructure Projects
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Town of Connelly Springs Planning and Zoning Department
Estimated Cost:	To be determined
Potential Funding Sources:	Local, State, Federal Grants-Hazard Mitigation Grant Program (HMGP)
Implementation Schedule:	2019
Priority (High, Moderate, Low):	High

Status of Previously Adopted Mitigation Actions

Mitigation Action 1	Adopt Flood Damage Prevention Ordinance.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Town of Connelly Springs Board of Alderman
Estimated Cost:	N/A
Potential Funding Sources:	N/A
Implementation Schedule:	Complete
Priority (High, Moderate, Low):	High
2014 Status:	Complete. Adopted August 6, 2007.

Mitigation Action 2	Adopt Watershed Prevention Ordinance.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Town of Connelly Springs Board of Alderman (Planning Board)
Estimated Cost:	N/A
Potential Funding Sources:	N/A
Implementation Schedule:	Complete
Priority (High, Moderate, Low):	High
2014 Status:	Complete. Adopted September 28, 1993.

Mitigation Action 3	Require structures to be built in the floodplain to be constructed 2 feet above base flood elevation or be floodproofed.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Town of Connelly Springs Planning Board; Burke County Building Inspections Department
Estimated Cost:	N/A
Potential Funding Sources:	N/A
Implementation Schedule:	Ongoing
Priority (High, Moderate, Low):	Low
2014 Status:	Complete. The Town contracts with Burke County for services provided by the Certified Floodplain Manager (CFM) to review all development within the floodplain. No known development has occurred in the floodplain over the past five years.

Mitigation Action 4		Track rebuilding activities after severe storms and consider policies to minimize repetitive losses.
Category:	Local Plans and Regulations	
Hazard(s) Addressed:	All Hazards	
Lead Agency/Department Responsible:	Town of Connelly Springs Board of Alderman (Planning Board)	
Estimated Cost:	N/A	
Potential Funding Sources:	N/A	
Implementation Schedule:	Ongoing	
Priority (High, Moderate, Low):	Moderate	
2014 Status:	Ongoing. No severe storms have impacted the town in the past five years that would trigger this activity. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 1 above.)	

Mitigation Action 5		Require floodproofing for structures not elevated 2 feet above base flood elevation.
Category:	Local Plans and Regulations	
Hazard(s) Addressed:	Flood	
Lead Agency/Department Responsible:	Town of Connelly Springs Planning Board; Burke County Building Inspections Department	
Estimated Cost:	N/A	
Potential Funding Sources:	N/A	
Implementation Schedule:	Ongoing	
Priority (High, Moderate, Low):	Low	
2014 Status:	Ongoing. All development within the floodplain is reviewed by the Burke County Floodplain Manager in accordance with a Resolution of Intent adopted September 8, 2003. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 2 above.)	

Mitigation Action 6		Require/maintain FEMA elevation certificates for all new permits for buildings or improvements in the floodplain.
Category:	Local Plans and Regulations	
Hazard(s) Addressed:	Flood	
Lead Agency/Department Responsible:	Town of Connelly Springs Board of Alderman (Planning Board); Burke County Building Inspections Department	
Estimated Cost:	N/A	
Potential Funding Sources:	N/A	
Implementation Schedule:	Ongoing	
Priority (High, Moderate, Low):	Low	
2014 Status:	Ongoing. No known new development has occurred in the floodplain. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 3 above.)	

Mitigation Action 7		Receive and begin using regulatory floodplain maps.
Category:	Local Plans and Regulations	
Hazard(s) Addressed:	Flood	
Lead Agency/Department Responsible:	Town of Connelly Springs Board of Alderman (Planning Board)	
Estimated Cost:	N/A	
Potential Funding Sources:	N/A	
Implementation Schedule:	Ongoing	
Priority (High, Moderate, Low):	High	
2014 Status:	Ongoing. The Town adopts and utilizes current North Carolina Floodplain Mapping Program data. Updates coincide with state map updates. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 4 above.)	

Mitigation Action 8		Review zoning and subdivision regulations to better control future development in these susceptible areas.
Category:	Local Plans and Regulations	
Hazard(s) Addressed:	Flood	
Lead Agency/Department Responsible:	Town of Connelly Springs Board of Alderman (Planning Board)	
Estimated Cost:	N/A	
Potential Funding Sources:	N/A	
Implementation Schedule:	Ongoing	
Priority (High, Moderate, Low):	Moderate	
2014 Status:	Ongoing. The Town has contracted with Burke County to provide zoning and code enforcement services which has identified gaps in zoning enforcement which are currently being addressed. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 5 above.)	

Mitigation Action 9		Prepare Comprehensive Land Use Plan.
Category:	Local Plans and Regulations	
Hazard(s) Addressed:	All Hazards	
Lead Agency/Department Responsible:	Town of Connelly Springs Board of Alderman (Planning Board)	
Estimated Cost:	N/A	
Potential Funding Sources:	N/A	
Implementation Schedule:	Complete	
Priority (High, Moderate, Low):	Moderate	
2014 Status:	Complete. Adopted October 5, 2005.	

Mitigation Action 10	Work in cooperation with Burke County, surrounding local governments, and state and federal agencies to maintain appropriate mitigation strategies.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Town of Connelly Springs Board of Alderman (Planning Board)
Estimated Cost:	N/A
Potential Funding Sources:	N/A
Implementation Schedule:	Ongoing
Priority (High, Moderate, Low):	High
2014 Status:	Ongoing. The Town of Connelly Springs participates in interagency meetings organized by Burke County and encourages participation in projects developed at the county level to the residents of Connelly Springs such as the E-911 Addressing System and sign-up for the emergency notification system (Hyper Reach). Projects are shared with residents through town council meetings, traditional media, and community flyers. The Town currently contracts zoning and code enforcement activities with Burke County and planning duties with the Western Piedmont Council of Governments (WPCOG). (Ongoing elements of this action are reflected in the 2014 Mitigation Action 6 above.)

Mitigation Action Plan—City of Conover

2014 Mitigation Actions

Mitigation Action 1	Maintain continued community compliance with the National Flood Insurance Program (NFIP). Provide education to property owners, elected officials, and appointed officials about flood prevention.
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Category:	Local Plans and Regulations; Education and Awareness Programs
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	City of Conover Planning and Economic Development Department
Estimated Cost:	Minimal
Potential Funding Sources:	Local
Implementation Schedule:	5 years
Priority (High, Moderate, Low):	Moderate

Mitigation Action 2	Provide education via website, social media, brochures, etc. regarding what to do before, during, and after storm events.
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Category:	Education and Awareness Programs
Hazard(s) Addressed:	Thunderstorm, Lightning, and Hail; Winter Weather; Tornado
Lead Agency/Department Responsible:	City of Conover Fire Department
Estimated Cost:	Minimal
Potential Funding Sources:	Local
Implementation Schedule:	5 years
Priority (High, Moderate, Low):	Moderate

Mitigation Action 3	Educate public about maintenance of property and trimming of trees located near streets and power lines.
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Category:	Education and Awareness Programs
Hazard(s) Addressed:	Hurricane and Tropical Storm; Thunderstorm, Lightning, and Hail; Tornado; Winter Weather
Lead Agency/Department Responsible:	City of Conover Public Works Department; Duke Energy Corporation
Estimated Cost:	Minimal
Potential Funding Sources:	Local
Implementation Schedule:	5 years
Priority (High, Moderate, Low):	Moderate

Mitigation Action 4	Ensure firefighters are properly trained in brush fire fighting techniques.
Category:	Emergency Services
Hazard(s) Addressed:	Wildfire
Lead Agency/Department Responsible:	City of Conover Fire Department
Estimated Cost:	\$1,400
Potential Funding Sources:	Local
Implementation Schedule:	5 years
Priority (High, Moderate, Low):	Moderate

Mitigation Action 5	Install generator transfer switch connections during the construction of new public facilities (schools, fire stations, City buildings, etc.).
Category:	Structure and Infrastructure Projects
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	City of Conover Planning and Economic Development Department
Estimated Cost:	TBD
Potential Funding Sources:	Local, State; Federal Hazard Mitigation Grant Program (HMGP)
Implementation Schedule:	5 years
Priority (High, Moderate, Low):	High

Status of Previously Adopted Mitigation Actions

Mitigation Action 1	<p>Maintain continued compliance with the National Flood Insurance Program (NFIP) through implementation of the following specific actions:</p> <ul style="list-style-type: none"> a) Hold informative work sessions for newly elected officials and new appointees to planning commissions and appeals/variance boards, to provide an overview of floodplain management, the importance of participating in the NFIP, and the implications of failing to enforce the requirements of the program or failing to properly handle variance requests. b) Maintain supplies of FEMA/NFIP materials to help property owners evaluate measures to reduce potential hazard damage. Make available in public buildings, local library, website, etc. and inform people who they can call to learn more information.
Category:	Public Education and Awareness
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	City of Conover Planning and Economic Development Department
Estimated Cost:	Minimal (staff time only)
Potential Funding Sources:	N/A
Implementation Schedule:	Within 1-2 years and ongoing as necessary
Priority (High, Moderate, Low):	Moderate
2014 Status:	Completed and ongoing. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 1 above.)

Mitigation Action 2	<p>Work with the local media to highlight mitigation practices for homeowners during wildfire and winter storm seasons through the development of Public Service Announcements (PSAs).</p>
Category:	Public Education and Awareness
Hazard(s) Addressed:	Wildfire; Winter Weather
Lead Agency/Department Responsible:	City of Conover Fire Department
Estimated Cost:	TBD
Potential Funding Sources:	TBD
Implementation Schedule:	1-2 years
Priority (High, Moderate, Low):	Moderate
2014 Status:	Partially completed; ongoing. The City uses its website and social media to communicate with citizens about storm events. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 2 above.)

Mitigation Action 3		Create a strategic energy plan for City facilities.
Category:	Energy Conservation	
Hazard(s) Addressed:	Designed to address climate change and its long-term potential to increase the frequency and severity of natural hazards including flooding; hurricanes and tropical storms; severe thunderstorms and tornadoes; wildfires; drought; winter weather; and dam/levee failure.	
Lead Agency/Department Responsible:	Environmental Planner	
Estimated Cost:	TBD	
Potential Funding Sources:	State Energy Office	
Implementation Schedule:	1 year	
Priority (High, Moderate, Low):	Moderate	
2014 Status:	Completed March 2010 by W.K. Dickson Engineers; North Carolina Department of Energy Technical Assistance Program.	

Mitigation Action 4		Aggressively encourage tree trimming of large older trees near structures, power lines, and rights of way.
Category:	Property Protection; Public Education and Awareness	
Hazard(s) Addressed:	Hurricane and Tropical Storm; Thunderstorm, Lightning, and Hail; Tornado; Winter Weather	
Lead Agency/Department Responsible:	City of Conover Public Works Department; Duke Energy Corporation	
Estimated Cost:	TBD	
Potential Funding Sources:	TBD	
Implementation Schedule:	1-2 years	
Priority (High, Moderate, Low):	Moderate	
2014 Status:	Ongoing. Staff works with property owners and the North Carolina Department of Transportation (NCDOT) when situations arise or dead or damaged trees are observed near the street rights of way. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 3 above.)	

Mitigation Action 5		Ensure firefighters are properly trained in brush/wildland fire fighting techniques.
Category:	Emergency Services	
Hazard(s) Addressed:	Wildfire	
Lead Agency/Department Responsible:	City of Conover Fire Department	
Estimated Cost:	\$1,200	
Potential Funding Sources:	Local	
Implementation Schedule:	1-2 years	
Priority (High, Moderate, Low):	Moderate	
2014 Status:	Completed and ongoing; completed annually. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 4 above.)	

Mitigation Action 6	Routinely inspect and maintain fire hydrants.
Category:	Emergency Services
Hazard(s) Addressed:	Wildfire
Lead Agency/Department Responsible:	City of Conover Fire Department
Estimated Cost:	Minimal
Potential Funding Sources:	Local
Implementation Schedule:	Immediate
Priority (High, Moderate, Low):	Moderate
2014 Status:	Completed and ongoing; completed annually. However, this action was not selected to be carried over to the 2014 list of mitigation actions.

Mitigation Action 7	Consider establishing a local reserve fund for public mitigation measures.
Category:	Prevention
Hazard(s) Addressed:	Flood; Hurricane and Tropical Storm; Thunderstorm, Lightning, and Hail; Tornado; Wildfire; Drought; Winter Weather; Erosion; Dam/Levee Failure; Earthquake; Sinkhole; Landslide
Lead Agency/Department Responsible:	City of Conover Finance Department; City of Conover Public Works Department; City of Conover Planning and Economic Development Department
Estimated Cost:	TBD
Potential Funding Sources:	TBD
Implementation Schedule:	1-2 years
Priority (High, Moderate, Low):	Moderate
2014 Status:	Partially complete. The City funds staff positions which implement guidelines of the adopted hazard mitigation plan. However, this action was not selected to be carried over to the list of 2014 mitigation actions.

Mitigation Action Plan—Town of Drexel

2014 Mitigation Actions

Mitigation Action 1	Revise zoning and subdivision regulations in floodplain areas to better control future development in these hazard susceptible areas.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Town of Drexel Zoning Board; Town Council
Estimated Cost:	To be determined (staff time only)
Potential Funding Sources:	Town of Drexel General Fund
Implementation Schedule:	2014-2015
Priority (High, Moderate, Low):	Moderate

Mitigation Action 2	Revise subdivision regulations to require all perennial and intermittent streams be shown on plats.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Town of Drexel Zoning Board; Town Council
Estimated Cost:	To be determined (staff time only)
Potential Funding Sources:	Town of Drexel General Fund
Implementation Schedule:	2014-2015
Priority (High, Moderate, Low):	Moderate

Mitigation Action 3	In cooperation with Burke County, assist in establishing a program for evaluating and improving critical services (roads, bridges, water, sewer, electricity, etc.) and critical facilities (fire, rescue, medical, etc.) to reduce risk to natural hazards.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Town of Drexel Town Council
Estimated Cost:	N/A
Potential Funding Sources:	Local; state; federal
Implementation Schedule:	Ongoing review
Priority (High, Moderate, Low):	Moderate

Mitigation Action 4	In cooperation with Burke County, assist (as needed) in preparing a countywide stormwater management plan.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Town of Drexel Town Council
Estimated Cost:	N/A
Potential Funding Sources:	Local; state
Implementation Schedule:	Revise in 2015
Priority (High, Moderate, Low):	Moderate

Mitigation Action 5	Install generator transfer switch connections during the construction of new public facilities (schools, fire stations, public buildings, etc.).
Category:	Structure and Infrastructure Projects
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Town of Drexel Planning and Zoning Department
Estimated Cost:	To be determined
Potential Funding Sources:	Local; State, Federal Hazard Mitigation Grant Program (HMGP)
Implementation Schedule:	Revise in 2019
Priority (High, Moderate, Low):	High

Status of Previously Adopted Mitigation Actions

Mitigation Action 1	Revise zoning and subdivision regulations in floodplain areas to better control future development in these hazard susceptible areas.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Town of Drexel Zoning Board; Town Council
Estimated Cost:	To be determined (staff time only)
Potential Funding Sources:	Town of Drexel General Fund
Implementation Schedule:	2014-2015
Priority (High, Moderate, Low):	Low
2014 Status:	Ongoing. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 1 above.)

Mitigation Action 2	Revise subdivision regulations to require all perennial and intermittent streams be shown on plats.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Town of Drexel Zoning Board; Town Council
Estimated Cost:	To be determined (staff time only)
Potential Funding Sources:	Town of Drexel General Fund
Implementation Schedule:	2014-2015
Priority (High, Moderate, Low):	Low
2014 Status:	Ongoing. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 2 above.)

Mitigation Action Plan—Town of Gamewell

2014 Mitigation Actions

Mitigation Action 1	Update current land use plans to address floodplain development.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood; Thunderstorms; Hurricane and Tropical Storm
Lead Agency/Department Responsible:	Town of Gamewell Town Council; Western Piedmont Council of Governments (WPCOG)
Estimated Cost:	<\$5,000
Potential Funding Sources:	Local
Implementation Schedule:	0-2 years
Priority (High, Moderate, Low):	Moderate

Mitigation Action 2	Work with Caldwell County Emergency Services to address potential wildfire issues.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Wildfire; Drought
Lead Agency/Department Responsible:	Caldwell County Emergency Management Department
Estimated Cost:	<\$5,000
Potential Funding Sources:	Grants; Local
Implementation Schedule:	0-2 years
Priority (High, Moderate, Low):	Low

Mitigation Action 3	Establish procedure for sounding fire department siren for tornado warnings and flash floods.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood; Tornado; Thunderstorm
Lead Agency/Department Responsible:	Town of Gamewell Volunteer Fire Department
Estimated Cost:	<\$1,000
Potential Funding Sources:	Town/Vol. Fire Dept.
Implementation Schedule:	1 year
Priority (High, Moderate, Low):	High

Mitigation Action 4	Identify all possible emergency shelter buildings.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Town of Gamewell Planning Department
Estimated Cost:	<\$1,000
Potential Funding Sources:	Local
Implementation Schedule:	<1 year
Priority (High, Moderate, Low):	Low

Mitigation Action 5	Purchase backup generator for Town Hall (critical facility).
Category:	Structures and Infrastructure
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Town of Gamewell Town Council
Estimated Cost:	\$5,000
Potential Funding Sources:	Local, State and Federal Grants
Implementation Schedule:	0-5 years
Priority (High, Moderate, Low):	Moderate

Mitigation Action 6	Engage local citizens about the importance of watershed and stormwater protection.
Category:	Education and Outreach
Hazard(s) Addressed:	Flood; Severe Storm; Hurricane and Tropical Storm
Lead Agency/Department Responsible:	Town of Gamewell Planning Department
Estimated Cost:	<\$5,000
Potential Funding Sources:	Local; grants
Implementation Schedule:	0-2 years
Priority (High, Moderate, Low):	Moderate

Mitigation Action 7	Maintain a contract with a qualified post-disaster recovery service provider for essential services and equipment including generators and will include documentation required for reimbursement from FEMA/NCEM.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Town of Gamewell Town Council; Town of Gamewell Administration
Estimated Cost:	Unspecified
Potential Funding Sources:	Local
Implementation Schedule:	6 months – five years
Priority (High, Moderate, Low):	Medium

Mitigation Action 8	Support the North Carolina Office of Dam Safety; make sure dams are regularly inspected.
Category:	Structure and Infrastructure Projects
Hazard(s) Addressed:	Dam Failure; Flood
Lead Agency/Department Responsible:	North Carolina Department of Environment and Natural Resources (NCDENR) Dams Program
Estimated Cost:	Unspecified
Potential Funding Sources:	Unspecified
Implementation Schedule:	2019
Priority (High, Moderate, Low):	High

Mitigation Action 9	In cooperation with the Caldwell County Planning and Development Department and the Caldwell County Building Inspections Department, make information regarding all hazards and development regulations within floodplains available through the following: <ul style="list-style-type: none"> a) Ensuring that the local library maintains information relating to multi-hazards, flooding, flood protection, and mitigation techniques. b) Provide a link on the Town's website to FEMA resources addressing flooding and flood protection, sheltering, evacuation procedures, disaster preparedness, post-disaster recovery, and mitigation techniques.
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Category:	Education and Awareness Programs
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Town of Gamewell
Estimated Cost:	N/A (covered by Caldwell County)
Potential Funding Sources:	Local
Implementation Schedule:	Immediate-2019
Priority (High, Moderate, Low):	High

Mitigation Action 10	In coordination with Caldwell County, the Town of Gamewell will continue to maintain all property acquired within the Special Flood Hazard Area (SFHA) as undisturbed open space in perpetuity. All parties will continue to pro-actively establish open space within the floodplain and floodway as grant funds become available to carry out this initiative.
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Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood; Dam/Levee Failure; Wildfire
Lead Agency/Department Responsible:	Town of Gamewell; Caldwell County Building Inspections Department; Caldwell County Planning and Development Department
Estimated Cost:	\$250,000+
Potential Funding Sources:	Grant fund resources; hazard mitigation of Lenoir EMS Base
Implementation Schedule:	2015
Priority (High, Moderate, Low):	Low

Mitigation Action 11	In coordination with Caldwell County, the Town of Gamewell will maintain a contract with a qualified post-disaster recovery service provider. This contract will include the provision of essential services and equipment, including generators, and will include documentation required for reimbursement from FEMA/NCEM.
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Category:	Local Plans and Regulations
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Town of Gamewell; Caldwell County Emergency Management Department
Estimated Cost:	Unspecified
Potential Funding Sources:	Existing department and staff resources
Implementation Schedule:	1-5 years
Priority (High, Moderate, Low):	Moderate

Mitigation Action 12	In coordination with the Caldwell County Emergency Management Department, the Town of Gamewell will assist with the monitoring of water resources. When necessary, the Town will cooperate with the County in instituting measures to conserve water resources according to the County's Drought Management Plan.
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Category:	Local Plans and Regulations
Hazard(s) Addressed:	Drought; Wildfire
Lead Agency/Department Responsible:	Town of Gamewell; Caldwell County Water Department
Estimated Cost:	\$1.5 million (covered by Caldwell County)
Potential Funding Sources:	Grants and tax-based funding
Implementation Schedule:	2016
Priority (High, Moderate, Low):	Low

Mitigation Action 13	Cooperate with Caldwell County in the implementation and enforcement of the County's comprehensive stormwater management program.
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Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Town of Gamewell; City of Lenoir Planning and Building Inspections Department; administrative staff of Caldwell County
Estimated Cost:	\$50,000 per year
Potential Funding Sources:	Existing department and staff resources
Implementation Schedule:	Immediate-2019
Priority (High, Moderate, Low):	Moderate

Status of Previously Adopted Mitigation Actions

Mitigation Action 1	Caldwell County will assist all communities within the county, including property owners in unincorporated areas, in applying for FEMA-sponsored mitigation grant assistance for the acquisition and/or elevation of substantially damaged structures following a natural disaster.
Category:	Structure and Infrastructure Projects
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Caldwell County Building Inspections Department
Estimated Cost:	\$1,200
Potential Funding Sources:	Unspecified
Implementation Schedule:	Immediate
Priority (High, Moderate, Low):	Moderate
2014 Status:	Ongoing. Caldwell County has been and continues to provide assistance when communities are applying for funding to help landowners bring at-risk structures into compliance.

Mitigation Action 2	Maintain a contract with a qualified post-disaster recovery service provider for essential services and equipment including generators and will include documentation required for reimbursement from FEMA/NCEM.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Town of Gamewell Town Council; Town of Gamewell Administration
Estimated Cost:	Unspecified
Potential Funding Sources:	Unspecified
Implementation Schedule:	6 months
Priority (High, Moderate, Low):	Medium
2014 Status:	Not completed. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 7 above.)

Mitigation Action 3		Monitor water resources and when necessary institute measures to conserve water through Drought Management Plan.
Category:	Local Plans and Regulations	
Hazard(s) Addressed:	Drought	
Lead Agency/Department Responsible:	Caldwell County Water Department	
Estimated Cost:	\$1.5 million	
Potential Funding Sources:	Grants and tax-based funding	
Implementation Schedule:	Unspecified	
Priority (High, Moderate, Low):	High	
2014 Status:	Deleted. It is not feasible for the Town to institute drought management policies since it does not own or operate a water distribution facility.	

Mitigation Action 4		Support the North Carolina Office of Dam Safety; make sure dams are regularly inspected.
Category:	Structure and Infrastructure Projects	
Hazard(s) Addressed:	Dam Failure; Flood	
Lead Agency/Department Responsible:	North Carolina Department of Environment and Natural Resources (NCDENR), Dams Program	
Estimated Cost:	Unspecified	
Potential Funding Sources:	Unspecified	
Implementation Schedule:	Ongoing	
Priority (High, Moderate, Low):	High	
2014 Status:	Ongoing. Caldwell County has started a registry to track the location and depth of all ponds and dams within the county.	

Mitigation Action 5		Continue to maintain all property acquired within the Special Flood Hazard Area (SFHA) as undisturbed open space in perpetuity. Continue to proactively establish open space within the floodplain.
Category:	Natural Systems Protection	
Hazard(s) Addressed:	Flood; Dam Failure; Wildfire	
Lead Agency/Department Responsible:	Caldwell County Planning Department	
Estimated Cost:	\$250,000+	
Potential Funding Sources:	Grant funds; hazard mitigation of Lenoir EMS Base	
Implementation Schedule:	2015	
Priority (High, Moderate, Low):	High	
2014 Status:	Deleted. It is not feasible for the Town to fully accomplish this action.	

Mitigation Action 6	Caldwell County Planning and Building Inspections Departments will make information regarding hazards and development regulations within the floodplain available through the following: library, link on website to FEMA information addressing flood protection, disaster preparedness, and post-disaster recovery.
Category:	Education and Awareness Programs
Hazard(s) Addressed:	All hazards
Lead Agency/Department Responsible:	Caldwell County Building Inspections Department
Estimated Cost:	\$1,200
Potential Funding Sources:	General Budget
Implementation Schedule:	Immediate
Priority (High, Moderate, Low):	High
2014 Status:	Deleted. This activity is administered by Caldwell County.

Mitigation Action 7	Maintain a map information service about Flood Insurance Rate Maps (FIRMs), advertise annually in the newspaper, and provide information to inquirers about local floodplain management requirements.
Category:	Education and Awareness Programs
Hazard(s) Addressed:	Flood; Dam Failure
Lead Agency/Department Responsible:	Caldwell County Planning Department
Estimated Cost:	\$85,000
Potential Funding Sources:	Tax-based funding
Implementation Schedule:	Immediate
Priority (High, Moderate, Low):	High
2014 Status:	Completed. Maps are kept on file at Town Hall and are also available on the County website.

Mitigation Action 8	Require flood elevation certificates for development within the Special Flood Hazard Area (SFHA).
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Caldwell County Building Inspections Department
Estimated Cost:	\$50,000
Potential Funding Sources:	General Budget
Implementation Schedule:	Immediate
Priority (High, Moderate, Low):	High
2014 Status:	Ongoing. This will be a part of the new Flood Damage Prevention Ordinance to be adopted in late 2014 or early 2015.

Mitigation Action Plan—Town of Glen Alpine

2014 Mitigation Actions

Mitigation Action 1	Continue the enforcement of the Town of Glen Alpine flood prevention ordinance. This ordinance regulates construction and new development in Special Flood Hazard Areas (SFHAs). Monitor and enforce NPDES Phase 2 stormwater regulations.
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Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Town of Glen Alpine Zoning Department/Code Enforcement Officer
Estimated Cost:	Ongoing budgeted activity
Potential Funding Sources:	General budget; grants
Implementation Schedule:	2014-2019
Priority (High, Moderate, Low):	High

Mitigation Action 2	Provide community outreach to educate the public about the hazards of flooding and the importance of stormwater and floodplain management.
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Category:	Education and Awareness Programs
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Town of Glen Alpine Zoning Department/Code Enforcement Officer
Estimated Cost:	\$500
Potential Funding Sources:	General budget; grants
Implementation Schedule:	2014
Priority (High, Moderate, Low):	Moderate

Mitigation Action 3	Removal of obstructions to impaired streams and public drainage ways to lessen the risk of flooding and damage to roadways and bridges.
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Category:	Natural Systems Protection; Structure and Infrastructure Projects
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Town of Glen Alpine Public Works Department
Estimated Cost:	\$5,000
Potential Funding Sources:	General budget
Implementation Schedule:	2014-2019
Priority (High, Moderate, Low):	High

Mitigation Action 4	Continue to provide educational outreach to school children and civic groups as to the importance of fire safety and prevention.
Category:	Education and Awareness Programs
Hazard(s) Addressed:	Wildfire
Lead Agency/Department Responsible:	Town of Glen Alpine Fire Department
Estimated Cost:	Budgeted activity
Potential Funding Sources:	General fund budget
Implementation Schedule:	2019
Priority (High, Moderate, Low):	Moderate

Mitigation Action 5	Implementation of annually pruning trees and clearing limbs and removal of diseased trees hanging over the rights of way to enhance safety and improve function.
Category:	Structure and Infrastructure Projects
Hazard(s) Addressed:	Winter Weather; Thunderstorm; Tornado; Hurricane and Tropical Storm
Lead Agency/Department Responsible:	Town of Glen Alpine Public Works Department
Estimated Cost:	Implementation \$5,000 plus annual expense
Potential Funding Sources:	General fund
Implementation Schedule:	2014-2019
Priority (High, Moderate, Low):	High

Mitigation Action 6	Through annual training, the Town of Glen Alpine Fire Department will be better prepared to handle a dam failure problem at Lake James and Catawba River.
Category:	Other
Hazard(s) Addressed:	Dam Failure
Lead Agency/Department Responsible:	Town of Glen Alpine Fire Department
Estimated Cost:	Minimal
Potential Funding Sources:	General budget; grants; Duke Energy Corporation
Implementation Schedule:	2014-2019
Priority (High, Moderate, Low):	Moderate

Mitigation Action 7	The Glen Alpine Fire Department, Burke County Emergency Management, and North Carolina Emergency Management will continue to evaluate and conduct a detailed needs assessment of emergency services, response, and critical needs.
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Category:	Emergency Services
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Town of Glen Alpine Fire Department
Estimated Cost:	\$1,000
Potential Funding Sources:	General budget; grants
Implementation Schedule:	2019
Priority (High, Moderate, Low):	High

Mitigation Action 8	In cooperation with Burke County, assist in establishing a program for evaluating and improving critical services (roads, bridges, water, sewer, electricity, etc.) and critical facilities (fire, rescue, medical, etc.) to reduce risk to natural hazards.
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Category:	Local Plans and Regulations
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Town of Glen Alpine Public Works Department
Estimated Cost:	N/A
Potential Funding Sources:	Local; state; federal
Implementation Schedule:	Ongoing review
Priority (High, Moderate, Low):	Moderate

Mitigation Action 9	In cooperation with Burke County, assist (as needed) in preparing a countywide stormwater management plan.
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Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Town of Glen Alpine Public Works Department
Estimated Cost:	N/A
Potential Funding Sources:	Local; state
Implementation Schedule:	Revise in 2015
Priority (High, Moderate, Low):	Moderate

Status of Previously Adopted Mitigation Actions

Mitigation Action 1	Maintain continued compliance with the National Flood Insurance Program (NFIP) and NPDES Phase 2 stormwater control compliance.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Town of Glen Alpine Zoning Department/Code Enforcement Officer
Estimated Cost:	\$1,000
Potential Funding Sources:	General budget
Implementation Schedule:	Ongoing
Priority (High, Moderate, Low):	High
2014 Status:	Ongoing; the Town continues to review on an annual basis ordinances and compliance. Monitoring of stormwater drains and best management practices (BMPs) on all Town stormwater drains and property. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 1 above.)

Mitigation Action 2	The Town, through ongoing programs, will offer education in fire prevention and safety training to the schools and citizens focusing on talks to civic groups, children, Town citizens, and elderly adults.
Category:	Education and Awareness Programs
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Town of Glen Alpine Fire Department
Estimated Cost:	\$500
Potential Funding Sources:	General budget
Implementation Schedule:	Ongoing
Priority (High, Moderate, Low):	Moderate
2014 Status:	Ongoing. The Fire Department visits schools and civic clubs annually to present programs on fire prevention and safety. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 4 above.)

Mitigation Action 3	The Planning Board reviews on an annual basis local zoning ordinances and land use plans for subdivisions, construction of new homes, and commercial development.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Town of Glen Alpine Planning Board; Zoning Officer
Estimated Cost:	\$2,000
Potential Funding Sources:	General fund
Implementation Schedule:	Ongoing
Priority (High, Moderate, Low):	Moderate
2014 Status:	Completed; ongoing. The Planning Board and staff meet monthly to review ordinances, subdivision plans, future projects, and public concerns. This is considered an institutionalized practice and as such has not been carried forward to the list of 2014 mitigation actions.

Mitigation Action 4	The Glen Alpine Fire Department, Burke County Emergency Management, and North Carolina Emergency Management will continue to evaluate and conduct a detailed needs assessment of emergency services, response, and critical needs.
Category:	Emergency Services
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Glen Alpine Fire Department
Estimated Cost:	\$1,000
Potential Funding Sources:	General budget; grants
Implementation Schedule:	Ongoing
Priority (High, Moderate, Low):	High
2014 Status:	Completed; ongoing. The Fire Department, Burke County, and state emergency management review emergency service capabilities and needs. Drills and training is conducted annually with multiple agencies. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 7 above.)

Mitigation Action Plan—Town of Granite Falls

2014 Mitigation Actions

Mitigation Action 1	Establish and maintain Temporary Disaster Debris Staging Area by selecting suitable site and submitting to the North Carolina Department of Environment and Natural Resources (NCDENR) for approval for use during a natural disaster.
Category:	Structure and Infrastructure Projects
Hazard(s) Addressed:	Tornado; Winter Weather; Severe Thunderstorm; Hurricane and Tropical Storm
Lead Agency/Department Responsible:	Caldwell County Emergency Management Department; Town of Granite Falls Manager and Planning Department
Estimated Cost:	Staff time to be determined
Potential Funding Sources:	Existing department and staff resources
Implementation Schedule:	Ongoing. Conditional approval received October 9, 2013 from NCDENR for Temporary Debris Staging Area at Granite Falls Recreation Center. Vegetative debris, white goods, and grinding areas defined.
Priority (High, Moderate, Low):	High

Mitigation Action 2	Implement educational outreach to citizens on recognizing potential conflicts between trees and overhead power lines, tree trimming techniques to reduce potential for power outages due to downed trees or falling tree limbs, and the benefits of hiring an arborist and safety tips for cleanup after a storm.
Category:	Education and Awareness Programs
Hazard(s) Addressed:	Tornado; Winter Weather; Severe Thunderstorm; Hurricane and Tropical Storm
Lead Agency/Department Responsible:	Town of Granite Falls Electric Department with assistance from Electricities
Estimated Cost:	Staff time
Potential Funding Sources:	Existing department, public power agency, and staff resources
Implementation Schedule:	1-2 years
Priority (High, Moderate, Low):	High

Mitigation Action 3	Evaluate infrastructure upgrades to fresh water intake on Lake Rhodhiss to ensure water supply during severe drought conditions.
Category:	Structure and Infrastructure Projects
Hazard(s) Addressed:	Drought
Lead Agency/Department Responsible:	Town of Granite Falls Water Department
Estimated Cost:	To be determined
Potential Funding Sources:	General fund, grant funding
Implementation Schedule:	3-4 years
Priority (High, Moderate, Low):	Moderate

Mitigation Action 4	Install generator transfer switch at Granite Falls Recreation Center, which serves as a designated emergency shelter, to facilitate quick connection of portable generator(s) or install permanent standby generator appropriately sized for the building's electrical load and fed by natural gas (Piedmont Natural Gas lines are available in Pinewood Road).
Category:	Structure and Infrastructure Projects
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Town of Granite Falls Recreation Department; Town of Granite Falls Electric Department
Estimated Cost:	To be determined
Potential Funding Sources:	Existing department and staff resources, grant funding
Implementation Schedule:	1-2 years
Priority (High, Moderate, Low):	High

Mitigation Action 5	Incorporate hazard mitigation elements into the next update of the Town's Land Use Plan and any small area or corridor plans.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Town of Granite Falls Planning Department
Estimated Cost:	Staff time, consultant fees to be determined
Potential Funding Sources:	General fund, grant funding
Implementation Schedule:	3-5 years
Priority (High, Moderate, Low):	Moderate

Mitigation Action 6	Caldwell County and all participating jurisdictions will continue to maintain all property acquired within the Special Flood Hazard Area (SFHA) as undisturbed open space in perpetuity. All parties will continue to proactively establish open space within the floodplain and floodway as grant funds become available to carry out this initiative.
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Category:	Local Plans and Regulations; Natural Systems Protection
Hazard(s) Addressed:	Flood; Dam/Levee Failure; Wildfire
Lead Agency/Department Responsible:	Town of Granite Falls Town Council
Estimated Cost:	Unknown
Potential Funding Sources:	Grant fund resources
Implementation Schedule:	1-5 years
Priority (High, Moderate, Low):	High

Mitigation Action 7	Caldwell County, as well as all participating jurisdictions, will continue to support the North Carolina Office of Dam Safety's efforts to monitor and inspect all dams throughout the county, as well as the State of North Carolina. The County relies on this agency to ensure that all dam facilities, both public and private, are properly maintained and stable.
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Category:	Structure and Infrastructure Projects
Hazard(s) Addressed:	Flood; Dam/Levee Failure
Lead Agency/Department Responsible:	Caldwell County Emergency Management Department; Town of Granite Falls Town Council
Estimated Cost:	To be determined
Potential Funding Sources:	Existing department and staff resources
Implementation Schedule:	1-5 years
Priority (High, Moderate, Low):	High

Mitigation Action 8	Caldwell County Emergency Management will continue to coordinate with the County Public Works Department, as well as all participating jurisdictions, regarding the monitoring of water resources statewide. When necessary the County will institute measures to conserve water resources according to the County's Drought Management Plan.
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Category:	Natural Systems Protection; Education and Awareness Programs
Hazard(s) Addressed:	Drought
Lead Agency/Department Responsible:	Caldwell County Water Department; Town of Granite Falls Town Council
Estimated Cost:	To be determined
Potential Funding Sources:	Existing department and staff resources
Implementation Schedule:	1-5 years
Priority (High, Moderate, Low):	High

Mitigation Action 9	Caldwell County will assist all communities within the county, including property owners in unincorporated areas, in applying for FEMA-sponsored mitigation grant assistance for the acquisition and/or elevation of substantially damaged structures following a natural disaster.
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Category:	Structure and Infrastructure Projects
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Caldwell County Emergency Management Department
Estimated Cost:	Staff time to be determined
Potential Funding Sources:	Existing department and staff resources
Implementation Schedule:	1-5 years
Priority (High, Moderate, Low):	Medium

Mitigation Action 10	Caldwell County Emergency Services will continue to work on the establishment of a comprehensive special needs registry. This effort will involve the cooperation of all participating jurisdictions.
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Category:	Local Plans and Regulations
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Caldwell County Emergency Management Department
Estimated Cost:	Staff time to be determined
Potential Funding Sources:	Existing department and staff resources
Implementation Schedule:	1-5 years
Priority (High, Moderate, Low):	Medium

Mitigation Action 11	The City of Lenoir will continue to serve an administrative role in the implementation and enforcement of the County’s comprehensive stormwater management program. The stormwater regulations outlined within this program shall apply to Granite Falls, Gamewell, Cahah’s Mountain, Lenoir, Hudson, and Sawmills.
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Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood; Dam/Levee Failure
Lead Agency/Department Responsible:	City of Lenoir Planning Department
Estimated Cost:	Staff time to be determined
Potential Funding Sources:	Existing department and staff resources
Implementation Schedule:	1-5 years
Priority (High, Moderate, Low):	High

Mitigation Action 12	Caldwell County, as well as all participating jurisdictions, will maintain a contract with a qualified post-disaster recovery service provider. This contract will include the provision of essential services and equipment, including generators, and will include documentation required for reimbursement from FEMA/NCEM.
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Category:	Other
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Caldwell County Emergency Management Department
Estimated Cost:	N/A
Potential Funding Sources:	N/A
Implementation Schedule:	1-5 years
Priority (High, Moderate, Low):	Moderate

Mitigation Action 13	The Town of Granite Falls will aim to draft a comprehensive Parks and Recreation Plan over the next five years. This plan will incorporate recommendations regarding the purchase and development of flood-prone land for recreational purposes.
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Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood; Dam/Levee Failure; Wildfire
Lead Agency/Department Responsible:	Town of Granite Falls Town Council
Estimated Cost:	Staff time and consultant fees to be determined
Potential Funding Sources:	Existing department and staff resources; grant funding
Implementation Schedule:	2-5 years
Priority (High, Moderate, Low):	Medium

Mitigation Action 14	Maintain a map information service involving the following: <ul style="list-style-type: none"> a) Provide information relating to Flood Insurance Rate Maps (FIRMs) to all inquirers, including provision of information on whether a given property is located within a flood hazard area. b) Provide information regarding the flood insurance purchase requirement. c) Maintain historical and current FIRMs. d) Advertise once annually in the local newspaper. e) Provide information to inquirers about local floodplain management requirements.
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Category:	Natural Systems Protection
Hazard(s) Addressed:	Flood; Dam/Levee Failure
Lead Agency/Department Responsible:	Caldwell County Planning Department
Estimated Cost:	Staff time to be determined
Potential Funding Sources:	Existing department and staff resources
Implementation Schedule:	1-5 years
Priority (High, Moderate, Low):	High

Status of Previously Adopted Mitigation Actions

Mitigation Action 1	Require a finished floor elevation certificate for all development within the Special Flood Hazard Area (SFHA) within both incorporated and unincorporated portions of the County. All elevation certificates should be submitted on an official FEMA elevation certificate. No certificate of occupancy shall be issued for any development within a defined SFHA without the submittal of the required elevation certificate.
Category:	Natural Systems Protection; Local Plans and Regulations
Hazard(s) Addressed:	Flood; Dam/Levee Failure
Lead Agency/Department Responsible:	Caldwell County Building Inspections Department
Estimated Cost:	Staff time to be determined
Potential Funding Sources:	Existing department and staff resources
Implementation Schedule:	1-5 years
Priority (High, Moderate, Low):	High
2014 Status:	Completed. The Town of Granite Falls Flood Damage Prevention Ordinance was updated to include "final as-built Elevation Certificate (FEMA Form 81-31)" as a prerequisite to a Certificate of Occupancy. Effective date: July 7, 2009.

Mitigation Action 2	<p>Maintain a map information service involving the following:</p> <ul style="list-style-type: none"> f) Provide information relating to Flood Insurance Rate Maps (FIRMs) to all inquirers, including provision of information on whether a given property is located within a flood hazard area. g) Provide information regarding the flood insurance purchase requirement. h) Maintain historical and current FIRMs. i) Advertise once annually in the local newspaper. j) Provide information to inquirers about local floodplain management requirements.
Category:	Natural Systems Protection
Hazard(s) Addressed:	Flood; Dam/Levee Failure
Lead Agency/Department Responsible:	Caldwell County Planning Department
Estimated Cost:	Staff time to be determined
Potential Funding Sources:	Existing department and staff resources
Implementation Schedule:	1-5 years
Priority (High, Moderate, Low):	High
2014 Status:	Ongoing. Caldwell County Online GIS maps include updated flood hazard area overlays and Town staff are available to answer questions and make determinations. Current and previous FIRMs are available for review at Town offices. The Town of Granite Falls Flood Damage Prevention Ordinance is available on the Town website. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 14 above.)

Mitigation Action 3	<p>The Caldwell County Planning and Building Inspections Departments will make information regarding hazards and development regulations within the floodplain available through the following:</p> <ul style="list-style-type: none"> a) Ensuring that the local library maintains information relating to flooding and flood protection. b) Providing a link on their website to FEMA resources addressing flooding and flood protection. c) All participating jurisdictions, if a website is in place, will provide a link on their website to FEMA resources addressing flooding and flood protection, sheltering, evacuation procedures, disaster preparedness, and post-disaster recovery.
Category:	Natural Systems Protection; Education and Awareness Programs
Hazard(s) Addressed:	Flood; Winter Weather; Wildfire; Severe Thunderstorm; Windstorm; Dam/Levee Failure; Tornado
Lead Agency/Department Responsible:	Caldwell County Planning and Building Inspections Departments
Estimated Cost:	Staff time to be determined
Potential Funding Sources:	Existing department and staff resources
Implementation Schedule:	2-5 years
Priority (High, Moderate, Low):	High
2014 Status:	<p>Completed. The Town of Granite Falls has utilized its website and Twitter account to publicize FEMA resources for disaster preparedness. While this action is being considered complete and is not being carried over to the list of 2014 mitigation actions, the Town website and Twitter account will continue to be used for this function.</p>

Mitigation Action 4	<p>The Caldwell County Building Inspections Department will provide comprehensive services regarding planning and development activities within the defined Special Flood Hazard Area (SFHA) and issues relating to the construction of disaster resistant structures. These services will include:</p> <ol style="list-style-type: none"> a) Providing site specific flood and flood-related information on an as-needed basis. b) Maintaining a list of contractors with experience in floodproofing and retrofit techniques. c) Providing information on windproofing construction methods for new and renovated structures. d) Maintaining materials providing an overview of how to select a qualified contractor. e) Making site visits upon request to review occurrences of flooding, drainage problems, and sewer problems. If applicable, the inspector should provide one-on-one advice to the property owner. f) Providing advice and assistance regarding CRS activity 530. g) Advertising the availability of this service once annually within the local newspaper. h) Maintaining a log of all individuals assisted through this County service including all site visits.
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Category:	Natural Systems Protection; Education and Awareness Programs
Hazard(s) Addressed:	Flood; Winter Weather; Wildfire; Thunderstorm; Windstorm
Lead Agency/Department Responsible:	Caldwell County Building Inspections Department
Estimated Cost:	Staff time to be determined
Potential Funding Sources:	Existing department and staff resources
Implementation Schedule:	2-5 years
Priority (High, Moderate, Low):	High
2014 Status:	Deleted. (This action is being deleted from the Town of Granite Falls Mitigation Action Plan but the activity is ongoing at the county level with the Caldwell County Building Inspections Department as the lead agency.)

Mitigation Action 5	<p>Caldwell County and all participating jurisdictions will continue to maintain all property acquired within the Special Flood Hazard Area (SFHA) as undisturbed open space in perpetuity. All parties will continue to proactively establish open space within the floodplain and floodway as grant funds become available to carry out this initiative.</p>
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Category:	Local Plans and Regulations; Natural Systems Protection
Hazard(s) Addressed:	Flood; Dam/Levee Failure; Wildfire
Lead Agency/Department Responsible:	Caldwell County Commissioners
Estimated Cost:	Unknown
Potential Funding Sources:	Grant fund resources
Implementation Schedule:	1-5 years
Priority (High, Moderate, Low):	High
2014 Status:	Ongoing. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 6 above.)

Mitigation Action 6	The Caldwell County Mitigation Advisory Committee (MAC), in conjunction with all municipal jurisdictions participating in this plan update, will work on the five-year implementation of this Hazard Mitigation Plan Update. At the end of the five-year period, the County will again update the plan.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Caldwell County Emergency Management Department
Estimated Cost:	To be determined
Potential Funding Sources:	General fund
Implementation Schedule:	1-5 years
Priority (High, Moderate, Low):	High
2014 Status:	The Town of Granite Falls has participated in the regionalization of the Caldwell County hazard mitigation plan and is now a participating jurisdiction in the Unifour Regional Hazard Mitigation Plan which has taken the place of the previously planned county-level 5-year plan update.

Mitigation Action 7	Caldwell County, as well as all participating jurisdictions, will continue to support the North Carolina Office of Dam Safety's efforts to monitor and inspect all dams throughout the county, as well as the State of North Carolina. The County relies on this agency to ensure that all dam facilities, both public and private, are properly maintained and stable.
Category:	Structure and Infrastructure Projects
Hazard(s) Addressed:	Flood; Dam/Levee Failure
Lead Agency/Department Responsible:	Caldwell County Emergency Management Department
Estimated Cost:	To be determined
Potential Funding Sources:	Existing department and staff resources
Implementation Schedule:	1-5 years
Priority (High, Moderate, Low):	High
2014 Status:	Ongoing. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 7 above.)

Mitigation Action 8	Caldwell County Emergency Management will continue to coordinate with the County Public Works Department, as well as all participating jurisdictions, regarding the monitoring of water resources statewide. When necessary the County will institute measures to conserve water resources according to the County's Drought Management Plan.
Category:	Natural Systems Protection; Education and Awareness Programs
Hazard(s) Addressed:	Drought
Lead Agency/Department Responsible:	Caldwell County Water Department
Estimated Cost:	To be determined
Potential Funding Sources:	Existing department and staff resources
Implementation Schedule:	1-5 years
Priority (High, Moderate, Low):	High
2014 Status:	Ongoing. The Town of Granite Falls remains active in the Drought Management Advisory Group (DMAG). Water conservation measures are implemented when deemed necessary by the DMAG. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 8 above.)

Mitigation Action 9	Caldwell County, as well as all participating jurisdictions, will maintain a contract with a qualified post-disaster recovery service provider. This contract will include the provision of essential services and equipment, including generators, and will include documentation required for reimbursement from FEMA/NCEM.
Category:	Other
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Caldwell County Emergency Management Department
Estimated Cost:	N/A
Potential Funding Sources:	N/A
Implementation Schedule:	1-5 years
Priority (High, Moderate, Low):	Moderate
2014 Status:	Ongoing. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 12 above.)

Mitigation Action 10	Caldwell County will assist all communities within the county, including property owners in unincorporated areas, in applying for FEMA-sponsored mitigation grant assistance for the acquisition and/or elevation of substantially damaged structures following a natural disaster.
Category:	Structure and Infrastructure Projects
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Caldwell County Emergency Management Department
Estimated Cost:	Staff time to be determined
Potential Funding Sources:	Existing department and staff resources
Implementation Schedule:	1-5 years
Priority (High, Moderate, Low):	Medium
2014 Status:	Ongoing. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 9 above.)

Mitigation Action 11	Caldwell County Emergency Services will continue to work on the establishment of a comprehensive special needs registry. This effort will involve the cooperation of all participating jurisdictions.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Caldwell County Emergency Services
Estimated Cost:	Staff time to be determined
Potential Funding Sources:	Existing department and staff resources
Implementation Schedule:	1-5 years
Priority (High, Moderate, Low):	Medium
2014 Status:	Ongoing. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 10 above.)

Mitigation Action 12	The City of Lenoir will continue to serve an administrative role in the implementation and enforcement of the County's comprehensive stormwater management program. The stormwater regulations outlined within this program shall apply to Granite Falls, Gamewell, Cahah's Mountain, Lenoir, Hudson, and Sawmills.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood; Dam/Levee Failure
Lead Agency/Department Responsible:	City of Lenoir Planning Department
Estimated Cost:	Staff time to be determined
Potential Funding Sources:	Existing department and staff resources
Implementation Schedule:	1-5 years
Priority (High, Moderate, Low):	High
2014 Status:	Ongoing. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 11 above.)

Mitigation Action 13	The Town of Granite Falls will aim to draft a comprehensive Parks and Recreation Plan over the next five years. This plan will incorporate recommendations regarding the purchase and development of flood-prone land for recreational purposes.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood; Dam/Levee Failure; Wildfire
Lead Agency/Department Responsible:	Town of Granite Falls Town Council
Estimated Cost:	Staff time and consultant fees to be determined
Potential Funding Sources:	Existing department and staff resources; grant funding
Implementation Schedule:	2-5 years
Priority (High, Moderate, Low):	Medium
2014 Status:	Ongoing. Funding for this action has not been acquired and other capital projects of more immediate concern have taken priority. Ongoing elements of this action are reflected in the 2014 Mitigation Action 13 above.

Mitigation Action Plan—City of Hickory

2014 Mitigation Actions

Mitigation Action 1	Continue the enforcement of the City of Hickory 2007 Flood Damage Prevention Ordinance. This ordinance regulates construction and development activities within Special Flood Hazard Areas (SFHAs).
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Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	City of Hickory Planning and Development Services Department
Estimated Cost:	Budgeted activity
Potential Funding Sources:	City of Hickory General Fund
Implementation Schedule:	2014 through 2019
Priority (High, Moderate, Low):	High

Mitigation Action 2	Monitor and enforce the provisions of the City of Hickory’s NPDES Phase 2 Stormwater Control Ordinance and continue to provide community outreach on the importance of stormwater management.
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Category:	Local Plans and Regulations; Education and Awareness Programs
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	City of Hickory Public Services Department, Engineering Division
Estimated Cost:	Budgeted activity
Potential Funding Sources:	City of Hickory General Fund
Implementation Schedule:	2014 through 2019
Priority (High, Moderate, Low):	High

Mitigation Action 3	Coordinate with willing, voluntary owners of repetitive loss properties to apply for hazard mitigation funding to implement projects that reduce or eliminate the long-term risk of future flood damages. This may be accomplished through property buyouts, elevation, or retrofit projects that remove or alter insured, at-risk repetitive loss structures.
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Category:	Structure and Infrastructure Projects
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	City of Hickory Planning and Development Services Department
Estimated Cost:	To be determined on a case-by-case basis
Potential Funding Sources:	Federal and State Hazard Mitigation Assistance Grants
Implementation Schedule:	2019
Priority (High, Moderate, Low):	Moderate

Mitigation Action 4	Remove obstructions from public drainage ways or where threats to public infrastructure have been identified. The removal of obstructions will lessen the risk of flooding and damage to roadway and bridges.
Category:	Natural Systems Protection; Structure and Infrastructure Projects
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	City of Hickory Public Services Department
Estimated Cost:	Ongoing and budgeted activity
Potential Funding Sources:	City of Hickory General Fund
Implementation Schedule:	2014 through 2019
Priority (High, Moderate, Low):	High

Mitigation Action 5	Purchase eleven (11) four-wheel drive vehicles with off-road capabilities. These vehicles will be utilized to reach citizens who become stranded or cut-off from services due to flooding, winter weather, or similar events.
Category:	Emergency Services
Hazard(s) Addressed:	Flood; Winter Weather
Lead Agency/Department Responsible:	City of Hickory Police and Fire Departments
Estimated Cost:	Budgeted activity
Potential Funding Sources:	City of Hickory General Fund
Implementation Schedule:	2014 through 2019
Priority (High, Moderate, Low):	High

Mitigation Action 6	Realignment of Fire Department command structure to add an additional Incident Commander per shift. This position will allow for better management of simultaneous multiple incidents and provide scene safety for public safety personnel.
Category:	Emergency Services
Hazard(s) Addressed:	All hazards
Lead Agency/Department Responsible:	City of Hickory Fire Department
Estimated Cost:	Budgeted activity
Potential Funding Sources:	City of Hickory General Fund
Implementation Schedule:	2014 through 2019
Priority (High, Moderate, Low):	High

Mitigation Action 7	Continue to provide educational outreach to civic groups, neighborhood groups, school children, and similar persons on the importance of fire safety and prevention.
Category:	Education and Awareness Programs
Hazard(s) Addressed:	Wildfire
Lead Agency/Department Responsible:	City of Hickory Fire Department, Fire Prevention Division
Estimated Cost:	Budgeted activity
Potential Funding Sources:	City of Hickory General Fund
Implementation Schedule:	2014 through 2019
Priority (High, Moderate, Low):	Moderate

Mitigation Action 8	In coordination with the Catawba County Emergency Services Department, conduct outreach to the public regarding the County's Community Alert System to educate them about how to obtain information both pre- and post-event and about mitigation strategies.
Category:	Education and Awareness Programs
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	City of Hickory; Catawba County Emergency Services Department
Estimated Cost:	Staff time
Potential Funding Sources:	General Fund
Implementation Schedule:	1-2 years
Priority (High, Moderate, Low):	High

Status of Previously Adopted Mitigation Actions

Mitigation Action 1	<p>Maintain continued compliance with the National Flood Insurance Program (NFIP) through implementation of the following specific actions:</p> <ul style="list-style-type: none"> a) Evaluate permit application forms to determine possible modifications focused on flood hazard prevention. b) Develop a checklist for review of building/development permit plans and for inspection of development in floodplains. c) Sponsor a periodic NFIP workshop for local surveyors and builders. d) Encourage or require certain local staff positions to obtain and maintain Certified Floodplain Manager (CFM) certification. e) Develop handouts for permit applications on specific issues such as installation of manufactured homes in flood hazard areas according to HUD installation standards, or guidance on improving/repairing existing buildings to better withstand potential hazards.
Category:	Prevention
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	City of Hickory Planning and Development Services Department
Estimated Cost:	Minimal (staff time only)
Potential Funding Sources:	City of Hickory General Fund
Implementation Schedule:	Immediate and ongoing through 2015
Priority (High, Moderate, Low):	High
2014 Status:	Complete and ongoing (ongoing elements of this action are reflected in the 2014 Mitigation Action 1 above).

Mitigation Action 2	Contact owners of repetitive loss property #0102594 to inform them of the technical assistance and hazard mitigation grant funding assistance made available to owners of repetitively flooded properties through the North Carolina Division of Emergency Management (NCEM) and Federal Emergency Management Agency (FEMA). This includes information on the pre-disaster grant funding program provided by FEMA through its Hazard Mitigation Assistance (HMA) programs, and particularly the Repetitive Flood Claims (RFC) program that can provide up to 100% in federal funds for eligible hazard mitigation activities.
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Category:	Public Education and Awareness
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	City of Hickory Planning and Development Services Department
Estimated Cost:	Minimal (staff time only)
Potential Funding Sources:	City of Hickory General Fund
Implementation Schedule:	Complete by June 2010 (in advance of next FEMA HMA funding cycle)
Priority (High, Moderate, Low):	High
2014 Status:	Contact was not established with a willing participant. This specific action item will be broadened to include any repetitive loss structures identified with the city, as reflected in the 2014 Mitigation Action 3 above.

Mitigation Action 3	Continue to enforce the requirements of the City of Hickory's 2007 Flood Damage Prevention Ordinance. This ordinance regulates construction standards for development activities within Special Flood Hazard Areas (SFHAs).
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Category:	Prevention
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	City of Hickory Planning and Engineering Departments
Estimated Cost:	Ongoing and budgeted activity
Potential Funding Sources:	City of Hickory General Fund
Implementation Schedule:	Ongoing
Priority (High, Moderate, Low):	High
2014 Status:	Complete and ongoing. City staff continues to enforce the City's Flood Damage Prevention Ordinance. Additionally, the City recently completed a Community Assistance Visit (CAV) with the North Carolina Division of Emergency Management which indicated the City maintains a good standing in the National Flood Insurance Program (NFIP) program. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 1 above.)

Mitigation Action 4	Monitor and enforce the provisions of the City of Hickory’s NPDES Phase 2 Stormwater Control Ordinance and continue to provide community outreach to the general public as to the ordinance’s requirements and the importance of adequate stormwater control.
Category:	Prevention; Public Education and Awareness
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	City of Hickory Engineering Department
Estimated Cost:	Ongoing and budgeted activity
Potential Funding Sources:	City of Hickory General Fund and Stormwater Utility Fee
Implementation Schedule:	Ongoing
Priority (High, Moderate, Low):	High
2014 Status:	Complete and ongoing. The City’s stormwater engineering division continues to enforce and provide community outreach and education regarding its NPDES Phase 2 Program. Staff also continues to seek additional training to keep up-to-date on the latest legislation and engineering practices. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 2 above.)

Mitigation Action 5	Remove obstructions from drainage ways where located on public property or where a threat to a public improvement such as a road or drainage structure is identified.
Category:	Prevention
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	City of Hickory Public Services Department
Estimated Cost:	On-going and budgeted activity
Potential Funding Sources:	City of Hickory General Fund
Implementation Schedule:	On-Going
Priority (High, Moderate, Low):	High
2014 Status:	Complete and ongoing. The City’s Public Services Department works continually to maintain public infrastructure and to clear obstructions from drainage ways. Recent storms in 2013 demonstrated the need to continues this maintenance. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 4 above.)

Mitigation Action 6	Designate emergency thoroughfares and update to necessary standards. Work with North Carolina Department of Transportation (NCDOT) representatives to identify emergency thoroughfares and identify necessary improvements to enhance safety and improve functionality during emergency events.
Category:	Emergency Services
Hazard(s) Addressed:	Flood; Hurricanes and Tropical Storms; Severe Thunderstorms and Tornadoes; Wildfire; Drought; Winter Storms; Erosion; Dam/Levee Failure; Earthquakes; Sinkholes; Landslides
Lead Agency/Department Responsible:	City of Hickory Fire Department and NCDOT
Estimated Cost:	Not Determined
Potential Funding Sources:	City of Hickory General Fund
Implementation Schedule:	Ongoing
Priority (High, Moderate, Low):	High
2014 Status:	Complete and ongoing. The City continues to work with NCDOT to identify and improve emergency routes. This helps to ensure emergency services and evacuations can be provided in the event of a hazard event. (Even though this coordination is ongoing, this action was not selected as one of the 2014 mitigation actions adopted above.)

Mitigation Action 7	Continue to routinely prune trees and clear tree limbs hanging over rights of way to enhance safety and improve function during an emergency. In addition, continue policy requiring underground utility lines in new development and redevelopment projects.
Category:	Prevention
Hazard(s) Addressed:	Hurricanes and Tropical Storms; Severe Thunderstorms and Tornadoes; Winter Storms
Lead Agency/Department Responsible:	Hickory Planning and Public Services Departments
Estimated Cost:	Ongoing and budgeted activity
Potential Funding Sources:	City of Hickory General Fund and Private Developers
Implementation Schedule:	Ongoing
Priority (High, Moderate, Low):	High
2014 Status:	Complete and ongoing. The maintenance of the tree canopy along rights-of-way helps to ensure transportation routes are not blocked and that power and telephone service is minimally impacted in the event of severe weather. (Even though this coordination is ongoing, this action was not selected as one of the 2014 mitigation actions adopted above.)

Mitigation Action 8	Implement City of Hickory Police Department Radio Frequency Interoperability hardware, to prevent communication breakdowns due to compatibility issues between radio frequencies and telephone systems.
Category:	Emergency Services
Hazard(s) Addressed:	Flood; Hurricanes and Tropical Storms; Severe Thunderstorms and Tornadoes; Wildfire; Drought; Winter Storms; Erosion; Dam/Levee Failure; Earthquakes; Sinkholes; Landslides
Lead Agency/Department Responsible:	City of Hickory Police Department
Estimated Cost:	\$20,000
Potential Funding Sources:	City of Hickory General Fund
Implementation Schedule:	In place by late 2009/early 2010
Priority (High, Moderate, Low):	High
2014 Status:	Complete. The implementation of the interoperability hardware has been completed as described above. The City continues to update the system as needed, and provides training to other local government and emergency service groups as needed.

Mitigation Action 9	Implementation of Skytower by Hickory Police Department. Skytower is an elevated platform capable of supporting police personnel and/or surveillance equipment.
Category:	Public Safety
Hazard(s) Addressed:	Flood; Hurricanes and Tropical Storms; Severe Thunderstorms and Tornadoes; Wildfire; Drought; Winter Storms; Erosion; Dam/Levee Failure; Earthquakes; Sinkholes; Landslides
Lead Agency/Department Responsible:	City of Hickory Police Department
Estimated Cost:	\$119,000
Potential Funding Sources:	JAG grant
Implementation Schedule:	In place by 2010
Priority (High, Moderate, Low):	Moderate
2014 Status:	Complete. The Skytower is an important part of the Police Department's ability to provide first hand management of severe events. The apparatus is used to monitor crowds during large events, and also provides a means to observe areas impacted by severe weather.

Mitigation Action 10	Implement second ladder company within the City of Hickory Fire Department. A second ladder company will provide the City with the ability to reduce the existing 43 square mile coverage area for the single ladder company into two 21.5 square mile coverage areas for the two companies.
Category:	Emergency Services
Hazard(s) Addressed:	Flood; Hurricanes and Tropical Storms; Severe Thunderstorms and Tornadoes; Wildfire; Drought; Winter Storms; Erosion; Dam/Levee Failure; Earthquakes; Sinkholes; Landslides
Lead Agency/Department Responsible:	City of Hickory Fire Department
Estimated Cost:	\$475,000
Potential Funding Sources:	Five- year federal grant followed by funding by City of Hickory General Fund
Implementation Schedule:	In place by late 2009/early 2010
Priority (High, Moderate, Low):	High
2014 Status:	Complete. The City's second ladder company has been successfully deployed and continues to provide fire protection services to the City and beyond.

Mitigation Action 11	Takeover of duties of existing Hickory Rescue Light Rescue. The City of Hickory Fire Department will assume the responsibilities and response areas of the existing Hickory Rescue Light Rescue operated by Catawba County.
Category:	Emergency Services
Hazard(s) Addressed:	Flood; Hurricanes and Tropical Storms; Severe Thunderstorms and Tornadoes; Wildfire; Drought; Winter Storms; Erosion; Dam/Levee Failure; Earthquakes; Sinkholes; Landslides
Lead Agency/Department Responsible:	City of Hickory Fire Department
Estimated Cost:	Not Determined
Potential Funding Sources:	City of Hickory General Fund
Implementation Schedule:	In place by 2010
Priority (High, Moderate, Low):	Moderate
2014 Status:	Complete. The City has assumed these duties and continues to provide first responder and rescue services to the potentially affected populations.

Mitigation Action Plan—Town of Hildebran

2014 Mitigation Actions

Mitigation Action 1	Install quick-connect emergency generator hook-ups for remaining critical facilities.
Category:	Structure and Infrastructure Projects
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Town of Hildebran Town Council
Estimated Cost:	\$75,000
Potential Funding Sources:	Local funds; grants
Implementation Schedule:	0-5 years
Priority (High, Moderate, Low):	Moderate

Mitigation Action 2	Participate in public outreach on hazard mitigation both locally and regionally.
Category:	Education and Awareness Programs
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Town of Hildebran Planning Department
Estimated Cost:	<\$5000
Potential Funding Sources:	Local funds; grants
Implementation Schedule:	0-5 years
Priority (High, Moderate, Low):	Moderate

Mitigation Action 3	Inventory all critical facilities' capabilities and needs.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Town of Hildebran Planning Department
Estimated Cost:	<\$5,000
Potential Funding Sources:	Local funds
Implementation Schedule:	0-2 years
Priority (High, Moderate, Low):	Moderate

Mitigation Action 4	Maintain updated database of all infrastructure.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Town of Hildebran Planning Department; Town of Hildebran Engineering Department
Estimated Cost:	<\$5,000
Potential Funding Sources:	Local funds; grants
Implementation Schedule:	0-2 years
Priority (High, Moderate, Low):	Moderate

Mitigation Action 5	Manage future development in flood-prone areas.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Town of Hildebran Planning Department
Estimated Cost:	Unspecified
Potential Funding Sources:	Local
Implementation Schedule:	2019
Priority (High, Moderate, Low):	Low

Mitigation Action 6	In cooperation with Burke County, assist in establishing a program for evaluating and improving critical services (roads, bridges, water, sewer, electricity, etc.) and critical facilities (fire, rescue, medical, etc.) to reduce risk to natural hazards.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Town of Hildebran Planning Department; Town of Hildebran Engineering Department
Estimated Cost:	N/A
Potential Funding Sources:	Local; state; federal
Implementation Schedule:	Ongoing review
Priority (High, Moderate, Low):	Moderate

Mitigation Action 7	In cooperation with Burke County, assist (as needed) in preparing a countywide stormwater management plan.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Town of Hildebran Planning Department; Town of Hildebran Engineering Department
Estimated Cost:	N/A
Potential Funding Sources:	Local; state
Implementation Schedule:	Revise in 2015
Priority (High, Moderate, Low):	Moderate

Status of Previously Adopted Mitigation Actions

Mitigation Action 1	Adoption of Flood Damage Prevention Ordinance.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Town of Hildebran Planning Department
Estimated Cost:	Unspecified
Potential Funding Sources:	Unspecified
Implementation Schedule:	Within 5 years
Priority (High, Moderate, Low):	High
2014 Status:	Completed. The ordinance was adopted in 2007.

Mitigation Action 2	Management of future development in flood-prone areas.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Town of Hildebran Planning Department
Estimated Cost:	Unspecified
Potential Funding Sources:	Local
Implementation Schedule:	Long-term
Priority (High, Moderate, Low):	Low
2014 Status:	Ongoing. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 5 above.) The Town will continue to work with property owners and developers to look at the BMP for development in flood-prone areas outside of the designated floodplain. At this time no development has occurred in flood-prone or floodplain areas.

Mitigation Action 3	Phase II Stormwater Implementation.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood; Severe Storms
Lead Agency/Department Responsible:	Town of Hildebran Planning Department; Town of Hildebran Engineering Department
Estimated Cost:	Unspecified
Potential Funding Sources:	Local funds; grants
Implementation Schedule:	Not immediate
Priority (High, Moderate, Low):	Low
2014 Status:	Deleted. The Town received an exemption based on population.

Mitigation Action Plan—Town of Hudson

2014 Mitigation Actions

Mitigation Action 1	Maintain street rights of way and ditches to prevent damage to streets and property.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood; Thunderstorm; Hurricane and Tropical Storm; Winter Weather
Lead Agency/Department Responsible:	Town of Hudson Public Works Department
Estimated Cost:	\$100,000
Potential Funding Sources:	Power Bill
Implementation Schedule:	Yearly
Priority (High, Moderate, Low):	High

Mitigation Action 2	Update current land use plans to address floodplain development.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood; Severe Storms; Hurricane and Tropical Storm
Lead Agency/Department Responsible:	Town of Hudson Planning Department
Estimated Cost:	<\$5,000
Potential Funding Sources:	General Fund
Implementation Schedule:	0-2 years
Priority (High, Moderate, Low):	Moderate

Mitigation Action 3	Work with Caldwell County Emergency Services to address potential wildfire issues.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Wildfire; Drought
Lead Agency/Department Responsible:	Caldwell County Emergency Management Department; Town of Hudson Planning Department
Estimated Cost:	<\$5,000
Potential Funding Sources:	Grants; General Fund
Implementation Schedule:	0-2 years
Priority (High, Moderate, Low):	Low

Mitigation Action 4		Increase watershed and stormwater awareness.
Category:	Education and Awareness Programs	
Hazard(s) Addressed:	Flood; Sinkhole; Erosion; Landslide	
Lead Agency/Department Responsible:	Town of Hudson Planning Department	
Estimated Cost:	<\$1,000	
Potential Funding Sources:	Local	
Implementation Schedule:	3 years	
Priority (High, Moderate, Low):	Low	

Mitigation Action 5		Establish procedure for sounding fire department siren for tornado warnings and flash floods.
Category:	Local Plans and Regulations	
Hazard(s) Addressed:	Flood; Tornado; Thunderstorm	
Lead Agency/Department Responsible:	Town of Hudson Volunteer Fire Department	
Estimated Cost:	<\$1,000	
Potential Funding Sources:	Town of Hudson Town Council; Town of Hudson Volunteer Fire Department	
Implementation Schedule:	1 year	
Priority (High, Moderate, Low):	High	

Mitigation Action 6		Maintain backup, portable generator for emergency power needs.
Category:	Structure and Infrastructure Projects	
Hazard(s) Addressed:	All Hazards	
Lead Agency/Department Responsible:	Town of Hudson Town Council	
Estimated Cost:	>\$10,000	
Potential Funding Sources:	Local; grants	
Implementation Schedule:	5 years	
Priority (High, Moderate, Low):	High	

Mitigation Action 7		Identify all possible emergency shelter buildings.
Category:	Local Plans and Regulations	
Hazard(s) Addressed:	All	
Lead Agency/Department Responsible:	Town of Hudson Administration Department	
Estimated Cost:	<\$1,000	
Potential Funding Sources:	Local	
Implementation Schedule:	<1 year	
Priority (High, Moderate, Low):	Low	

Mitigation Action 8	Monitor water resources and when necessary institute measures to conserve water through Drought Management Plan.
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Category:	Local Plans and Regulations
Hazard(s) Addressed:	Drought
Lead Agency/Department Responsible:	Caldwell County Water Department; City of Lenoir; Town of Hudson Town Council
Estimated Cost:	\$1.5 million
Potential Funding Sources:	Grants and tax-based funding
Implementation Schedule:	2 years
Priority (High, Moderate, Low):	High

Mitigation Action 9	Support the North Carolina Office of Dam Safety; make sure dams are regularly inspected.
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Category:	Structure and Infrastructure Projects
Hazard(s) Addressed:	Dam Failure; Flood
Lead Agency/Department Responsible:	North Carolina Department of Environment and Natural Resources (NCDENR) Dams Program; Town of Hudson Town Council
Estimated Cost:	Undetermined
Potential Funding Sources:	Undetermined
Implementation Schedule:	Ongoing
Priority (High, Moderate, Low):	High

Mitigation Action 10	Continue to maintain all property acquired with the Special Flood Hazard Area (SFHA) as undisturbed open space in perpetuity. Continue to proactively establish open space within the floodplain.
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Category:	Natural Systems Protection
Hazard(s) Addressed:	Flood; Dam Failure; Wildfire
Lead Agency/Department Responsible:	Caldwell County Planning Department; Town of Hudson Town Council
Estimated Cost:	\$250,000+
Potential Funding Sources:	Grant funds; hazard mitigation of Lenoir EMS Base
Implementation Schedule:	2015
Priority (High, Moderate, Low):	High

Status of Previously Adopted Mitigation Actions

Mitigation Action 1	City of Lenoir to administer stormwater regulations.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood; Sinkhole; Erosion; Landslide
Lead Agency/Department Responsible:	City of Lenoir Planning and Building Inspections Department; Caldwell County; all participating jurisdictions in Caldwell County
Estimated Cost:	\$50,000
Potential Funding Sources:	Existing department and staff resources
Implementation Schedule:	Immediate
Priority (High, Moderate, Low):	High
2014 Status:	Completed. The City of Lenoir continues to administer stormwater regulations for the Town of Hudson.

Mitigation Action 2	Caldwell County will assist all communities within the county, including property owners in unincorporated areas, in applying for FEMA-sponsored mitigation grant assistance for the acquisition and/or elevation of substantially damaged structures following a natural disaster.
Category:	Structure and Infrastructure Projects
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Caldwell County Building Inspections Department
Estimated Cost:	\$1,200
Potential Funding Sources:	Undetermined
Implementation Schedule:	Immediate
Priority (High, Moderate, Low):	Moderate
2014 Status:	Ongoing. Caldwell County has been and continues to provide assistance when communities are applying for funding to help landowners bring at-risk structures into compliance.

Mitigation Action 3	Maintain a contract with a qualified post-disaster recovery service provider for essential services and equipment including generators and will include documentation required for reimbursement from FEMA/NCEM.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Town of Hudson Administration Department; Town of Hudson Police Department
Estimated Cost:	Undetermined
Potential Funding Sources:	Undetermined
Implementation Schedule:	6 months
Priority (High, Moderate, Low):	Medium
2014 Status:	Deleted. It is not feasible for the Town to complete this action.

Mitigation Action 4	Monitor water resources and when necessary institute measures to conserve water through Drought Management Plan.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Drought
Lead Agency/Department Responsible:	Caldwell County Water Department
Estimated Cost:	\$1.5 million
Potential Funding Sources:	Grants and tax-based funding
Implementation Schedule:	Undetermined
Priority (High, Moderate, Low):	High
2014 Status:	Not completed. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 8 above.)

Mitigation Action 5	Support the North Carolina Office of Dam Safety; make sure dams are regularly inspected.
Category:	Structure and Infrastructure Projects
Hazard(s) Addressed:	Dam Failure; Flood
Lead Agency/Department Responsible:	North Carolina Department of Environment and Natural Resources (NCDENR) Dams Program
Estimated Cost:	Unspecified
Potential Funding Sources:	Unspecified
Implementation Schedule:	Ongoing
Priority (High, Moderate, Low):	High
2014 Status:	Ongoing. Caldwell County has started a registry to track the location and depth of all ponds and dams within the county.

Mitigation Action 6	Continue to maintain all property acquired with the Special Flood Hazard Area (SFHA) as undisturbed open space in perpetuity. Continue to proactively establish open space within the floodplain.
Category:	Natural Systems Protection
Hazard(s) Addressed:	Flood; Dam Failure; Wildfire
Lead Agency/Department Responsible:	Caldwell County Planning Department
Estimated Cost:	\$250,000+
Potential Funding Sources:	Grant funds; hazard mitigation of Lenoir EMS Base
Implementation Schedule:	2015
Priority (High, Moderate, Low):	High
2014 Status:	Ongoing. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 10 above.) Action will continue when new Flood Damage Prevention Ordinance is adopted in late 2014/early 2015.

Mitigation Action 7	Caldwell County Planning and Building Inspections Departments will make information regarding hazards and development regulations within the floodplain available through the following: library, link on website to FEMA information addressing flood protection, disaster preparedness, and post-disaster recovery.
Category:	Education and Awareness Programs
Hazard(s) Addressed:	Flood; All Hazards
Lead Agency/Department Responsible:	Caldwell County Building Inspections Department
Estimated Cost:	\$1,200
Potential Funding Sources:	General Budget
Implementation Schedule:	Immediate
Priority (High, Moderate, Low):	High
2014 Status:	Deleted. This activity is administered by Caldwell County.

Mitigation Action 8	Maintain a map information service about Flood Insurance Rate Maps (FIRMs), advertise annually in the newspaper, and provide information to inquirers about local floodplain management requirements.
Category:	Education and Awareness Programs
Hazard(s) Addressed:	Flood; Dam Failure
Lead Agency/Department Responsible:	Caldwell County Planning Department
Estimated Cost:	\$85,000
Potential Funding Sources:	Tax-based funding
Implementation Schedule:	Immediate
Priority (High, Moderate, Low):	High
2014 Status:	Completed. Maps are kept on file at Hudson Town Hall and are available on the Caldwell County Tax Mapping website.

Mitigation Action 9	Require flood elevation certificates for development within the Special Flood Hazard Area (SFHA).
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Caldwell County Building Inspections Department
Estimated Cost:	\$50,000
Potential Funding Sources:	General Budget
Implementation Schedule:	Immediate
Priority (High, Moderate, Low):	High
2014 Status:	Ongoing. This will be a part of the new Flood Damage Prevention Ordinance to be adopted in late 2014/early 2015.

Mitigation Action Plan—City of Lenoir

2014 Mitigation Actions

Mitigation Action 1	Continue enforcement of Lenoir’s Flood Damage Prevention Ordinance. This ordinance regulates construction and development activities within Special Flood Hazard Areas (SFHAs).
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Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	City of Lenoir Planning Department
Estimated Cost:	Existing staff resources
Potential Funding Sources:	General Fund; User Fees for Floodplain Development Permits
Implementation Schedule:	Ongoing
Priority (High, Moderate, Low):	High

Mitigation Action 2	The City of Lenoir will continue to monitor and enforce the Caldwell County NPDES Phase 2 Stormwater Control program. The stormwater regulations outlined within this program shall apply to Gamewell, Cahaj’s Mountain, Lenoir, Hudson, Sawmills, and Granite Falls.
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Category:	Local Plans and Regulations; Education and Awareness Programs
Hazard(s) Addressed:	Flood; Severe Storm
Lead Agency/Department Responsible:	City of Lenoir Planning Department
Estimated Cost:	Existing staff resources
Potential Funding Sources:	All participating jurisdictions help fund the stormwater program
Implementation Schedule:	Ongoing
Priority (High, Moderate, Low):	High

Mitigation Action 3	Remove obstructions from public drainage ways or where threats to public infrastructure have been identified. The removal of obstructions will lessen the risk of flooding and damage to roadways and bridges.
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Category:	Structure and Infrastructure Projects
Hazard(s) Addressed:	Flood; Severe Storm; Wind
Lead Agency/Department Responsible:	City of Lenoir Public Works Department
Estimated Cost:	Existing staff resources
Potential Funding Sources:	General Fund
Implementation Schedule:	Ongoing
Priority (High, Moderate, Low):	High

Mitigation Action 4	Continue to provide educational outreach to civic groups, neighborhood groups, school children, and similar persons as to the importance of fire safety and prevention.
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Category:	Education and Awareness Programs
Hazard(s) Addressed:	Fire
Lead Agency/Department Responsible:	City of Lenoir Fire Department
Estimated Cost:	Existing staff resources
Potential Funding Sources:	General Fund
Implementation Schedule:	Ongoing
Priority (High, Moderate, Low):	Moderate

Mitigation Action 5	Explore options for pruning trees, clearing tree limbs hanging over rights of way, and removal of dead trees on public and private property to enhance safety and improve function during an emergency. In addition, develop an informational handout with resources to encourage the private clearing/limbing of unhealthy or dead trees/limbs on private property.
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Category:	Natural Systems Protection; Education and Awareness Programs
Hazard(s) Addressed:	Severe Storm; Wind; Fire
Lead Agency/Department Responsible:	City of Lenoir Public Works Department; Nuisance Abatement (Police and Planning Departments)
Estimated Cost:	\$15,000
Potential Funding Sources:	Existing staff resources; General Fund; grants (City pruning currently unfunded)
Implementation Schedule:	Ongoing
Priority (High, Moderate, Low):	Moderate

Mitigation Action 6	Identify and map the location of piped/underground streams throughout the City, and monitor these locations for signs of structural failure. Make property owners aware of piped streams on their properties.
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Category:	Local Plans and Regulations; Education and Awareness Programs
Hazard(s) Addressed:	Severe Storm; Flood; Sinkhole
Lead Agency/Department Responsible:	City of Lenoir Planning Department
Estimated Cost:	Existing staff resources
Potential Funding Sources:	General Fund, stormwater utility fund, grants
Implementation Schedule:	3-5 years
Priority (High, Moderate, Low):	Moderate

Mitigation Action 7	Explore the feasibility of establishing a Stormwater Utility Fund to further develop all aspects of the Stormwater Management Program, including upgrades to stormwater infrastructure, education, facilities upgrades, etc.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Severe Storm
Lead Agency/Department Responsible:	City of Lenoir Planning Department; City of Lenoir Finance Department
Estimated Cost:	General Fund
Potential Funding Sources:	Existing staff resources
Implementation Schedule:	5 years
Priority (High, Moderate, Low):	High

Mitigation Action 8	Continue to enforce the City’s Minimum Housing Ordinance to rehabilitate or remove unsafe structures. In addition, create a database of abandoned and at-risk structures in the city to aide enforcement.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Severe Storm; Wind; Fire
Lead Agency/Department Responsible:	City of Lenoir Planning Department
Estimated Cost:	Existing staff resources
Potential Funding Sources:	General Fund
Implementation Schedule:	Ongoing
Priority (High, Moderate, Low):	High

Mitigation Action 9	Continue to explore the feasibility of erecting a back-up power generator to serve City Hall in the event of power failure. This ensures communication lines remain open during natural and manmade disasters that result in power failure, as all City communications are routed through City Hall.
Category:	Structure and Infrastructure Projects
Hazard(s) Addressed:	All
Lead Agency/Department Responsible:	City of Lenoir Public Works Department; City of Lenoir Administration Department
Estimated Cost:	40,000
Potential Funding Sources:	General Fund; grants
Implementation Schedule:	5 years
Priority (High, Moderate, Low):	High

Status of Previously Adopted Mitigation Actions

Mitigation Action 1	Continue enforcement of Lenoir’s Flood Damage Prevention Ordinance. This ordinance regulates construction and development activities within Special Flood Hazard Areas (SFHAs).
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	City of Lenoir Planning Department
Estimated Cost:	Existing staff resources
Potential Funding Sources:	General Fund; User Fees for Floodplain Development Permits
Implementation Schedule:	Ongoing
Priority (High, Moderate, Low):	High
2014 Status:	Ongoing. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 1 above.)

Mitigation Action 2	The City of Lenoir will continue to monitor and enforce the Caldwell County NPDES Phase 2 Stormwater Control program. The stormwater regulations outlined within this program shall apply to Gamewell, Cahaj’s Mountain, Lenoir, Hudson, Sawmills, and Granite Falls.
Category:	Local Plans and Regulations; Education and Awareness Programs
Hazard(s) Addressed:	Flood; Severe Storm
Lead Agency/Department Responsible:	City of Lenoir Planning Department
Estimated Cost:	Existing staff resources
Potential Funding Sources:	All participating jurisdictions help fund the stormwater program
Implementation Schedule:	Ongoing
Priority (High, Moderate, Low):	High
2014 Status:	Ongoing. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 2 above.)

Mitigation Action 3	Remove obstructions from public drainage ways or where threats to public infrastructure have been identified. The removal of obstructions will lessen the risk of flooding and damage to roadways and bridges.
Category:	Structure and Infrastructure Projects
Hazard(s) Addressed:	Flood; Severe Storm; Wind
Lead Agency/Department Responsible:	City of Lenoir Public Works Department
Estimated Cost:	Existing staff resources
Potential Funding Sources:	General Fund
Implementation Schedule:	Ongoing
Priority (High, Moderate, Low):	High
2014 Status:	Ongoing. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 3 above.)

Mitigation Action 4	Continue to provide educational outreach to civic groups, neighborhood groups, school children, and similar persons as to the importance of fire safety and prevention.
Category:	Education and Awareness Programs
Hazard(s) Addressed:	Fire
Lead Agency/Department Responsible:	City of Lenoir Fire Department
Estimated Cost:	Existing staff resources
Potential Funding Sources:	General Fund
Implementation Schedule:	Ongoing
Priority (High, Moderate, Low):	Moderate
2014 Status:	Ongoing. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 4 above.)

Mitigation Action 5	Explore options for pruning trees, clearing tree limbs hanging over rights of way, and removal of dead trees on public and private property to enhance safety and improve function during an emergency. In addition, develop an informational handout with resources to encourage the private clearing/limbing of unhealthy or dead trees/limbs on private property.
Category:	Natural Systems Protection; Education and Awareness Programs
Hazard(s) Addressed:	Severe Storm; Wind; Fire
Lead Agency/Department Responsible:	City of Lenoir Public Works Department; Nuisance Abatement (Police and Planning Departments)
Estimated Cost:	\$15,000
Potential Funding Sources:	Existing staff resources; General Fund; grants (City pruning currently unfunded)
Implementation Schedule:	Ongoing
Priority (High, Moderate, Low):	Moderate
2014 Status:	Ongoing. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 5 above.)

Mitigation Action 6	Identify and map the location of piped/underground streams throughout the City, and monitor these locations for signs of structural failure. Make property owners aware of piped streams on their properties.
Category:	Local Plans and Regulations; Education and Awareness Programs
Hazard(s) Addressed:	Severe Storm; Flood; Sinkhole
Lead Agency/Department Responsible:	City of Lenoir Planning Department
Estimated Cost:	Existing staff resources
Potential Funding Sources:	General Fund, stormwater utility fund, grants
Implementation Schedule:	3-5 years
Priority (High, Moderate, Low):	Moderate
2014 Status:	Ongoing. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 6 above.)

Mitigation Action 7	Explore the feasibility of establishing a Stormwater Utility Fund to further develop all aspects of the Stormwater Management Program, including upgrades to stormwater infrastructure, education, facilities upgrades, etc.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Severe Storm
Lead Agency/Department Responsible:	City of Lenoir Planning Department; City of Lenoir Finance Department
Estimated Cost:	General Fund
Potential Funding Sources:	Existing staff resources
Implementation Schedule:	5 years
Priority (High, Moderate, Low):	High
2014 Status:	Ongoing. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 7 above.)

Mitigation Action 8	Continue to enforce the City's Minimum Housing Ordinance to rehabilitate or remove unsafe structures. In addition, create a database of abandoned and at-risk structures in the city to aid enforcement.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Severe Storm; Wind; Fire
Lead Agency/Department Responsible:	City of Lenoir Planning Department
Estimated Cost:	Existing staff resources
Potential Funding Sources:	General Fund
Implementation Schedule:	Ongoing
Priority (High, Moderate, Low):	High
2014 Status:	Ongoing. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 8 above.)

Mitigation Action 9	Continue to explore the feasibility of erecting a back-up power generator to serve City Hall in the event of power failure. This ensures communication lines remain open during natural and manmade disasters that result in power failure, as all City communications are routed through City Hall.
Category:	Structure and Infrastructure Projects
Hazard(s) Addressed:	All
Lead Agency/Department Responsible:	City of Lenoir Public Works Department; City of Lenoir Administration Department
Estimated Cost:	40,000
Potential Funding Sources:	General Fund; grants
Implementation Schedule:	5 years
Priority (High, Moderate, Low):	High
2014 Status:	Ongoing. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 9 above.)

Mitigation Action Plan—Town of Long View

2014 Mitigation Actions

Mitigation Action 1	Increase dimensions of drainage culverts in troublesome areas.
Category:	Structure and Infrastructure Projects
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Town of Long View Public Works Department
Estimated Cost:	To be determined
Potential Funding Sources:	To be determined
Implementation Schedule:	1-2 years
Priority (High, Moderate, Low):	High

Mitigation Action 2	Draft a new stormwater drain map.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Town of Long View Planning Department; Town of Long View Public Works Department
Estimated Cost:	To be determined
Potential Funding Sources:	Local
Implementation Schedule:	1-3 years
Priority (High, Moderate, Low):	Moderate

Mitigation Action 3	Encourage residents to keep storm drains clear of debris before and after storms (to assist, not rely solely on Public Works).
Category:	Education and Awareness Programs
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Town of Long View Public Works Department; Town of Long View Planning Department
Estimated Cost:	Minimal
Potential Funding Sources:	Local
Implementation Schedule:	Immediate (less than 1 year)
Priority (High, Moderate, Low):	Moderate

Mitigation Action 4	Coordinate with local power companies to develop publicly acceptable tree trimming policies. Include public education for property owners on the benefits of proper tree trimming around power lines and clearing of debris around homes.
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Category:	Education and Awareness Programs
Hazard(s) Addressed:	Winter Weather; Thunderstorm
Lead Agency/Department Responsible:	Town of Long View Planning Department
Estimated Cost:	Minimal
Potential Funding Sources:	Local
Implementation Schedule:	2-3 years
Priority (High, Moderate, Low):	Moderate

Mitigation Action 5	Develop Vulnerability Assessment Plan.
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Category:	Local Plans and Regulations
Hazard(s) Addressed:	Multiple
Lead Agency/Department Responsible:	Town of Long View Planning Department; Town of Long View Public Works Department; Town of Long View Fire Department
Estimated Cost:	To be determined
Potential Funding Sources:	Local
Implementation Schedule:	3-4 years
Priority (High, Moderate, Low):	Moderate

Mitigation Action 6	Require tree preservation and/or plantings for residential and non-residential development to reduce the impacts of stormwater runoff.
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Category:	Natural Systems Protection
Hazard(s) Addressed:	Flood; Landslide
Lead Agency/Department Responsible:	Town of Long View Planning Department
Estimated Cost:	Staff time only
Potential Funding Sources:	Local
Implementation Schedule:	1-2 years
Priority (High, Moderate, Low):	High

Mitigation Action 7	Establish a “Hazard Awareness Month” to promote hazard awareness throughout the Town.
Category:	Education and Awareness Programs
Hazard(s) Addressed:	Multiple Hazards
Lead Agency/Department Responsible:	Town of Long View Administration Department
Estimated Cost:	Cost of brochure
Potential Funding Sources:	To be determined
Implementation Schedule:	1 year
Priority (High, Moderate, Low):	Moderate

Mitigation Action 8	In coordination with the Catawba County Emergency Services Department, conduct outreach to the public regarding the County’s Community Alert System to educate them about how to obtain information both pre- and post-event and about mitigation strategies.
Category:	Education and Awareness Programs
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Town of Long View; Catawba County Emergency Services Department
Estimated Cost:	Staff time
Potential Funding Sources:	General Fund
Implementation Schedule:	1-2 years
Priority (High, Moderate, Low):	High

Status of Previously Adopted Mitigation Actions

Mitigation Action 1	<p>Maintain continued compliance with the National Flood Insurance Program (NFIP) through implementation of the following specific actions:</p> <ol style="list-style-type: none"> a) Evaluate permit application forms to determine possible modifications focused on flood hazard prevention. b) Encourage or require certain local staff positions to obtain and maintain Certified Floodplain Manager (CFM) certification. c) Hold informative work sessions for newly elected officials and new appointees to planning commissions and appeals/variance boards to provide an overview of floodplain management, the importance of participating in the NFIP, and the implications of failing to properly handle variance requests. d) Conduct a review of other regulatory programs and planning tools, such as the comprehensive plan and zoning ordinance, and report on opportunities to improve consistency with the objectives of floodplain management. e) Maintain supplies of FEMA/NFIP materials to help property owners evaluate measures to reduce potential hazard damage. Make available in public buildings, the local library, website, etc. and inform people who they can call to learn more information.
Category:	Prevention
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Town of Long View Planning Department
Estimated Cost:	Minimal
Potential Funding Sources:	Local
Implementation Schedule:	Immediate and ongoing through 2015
Priority (High, Moderate, Low):	High
2014 Status:	<p>Complete/ongoing.</p> <ol style="list-style-type: none"> a) Permit forms such as zoning and permits for signs require the applicant to state whether or not the project is in a floodplain zone. If it is, a floodplain development permit is required. Density and built-upon criteria as part of Long View’s Watershed IV Protected Area also address this issue. b) The Long View Town Planner is taking classes but has not obtained CFM certification yet. c) Informative work sessions are held for newly elected officials and new appointees to the Planning Board (also serving as the Board of Adjustment) on an as-needed basis to provide an overview of floodplain management. d) The Planning Board conducted a review of Long View’s Zoning Ordinance and Land Development Plan and found them both to be consistent with the objectives of floodplain development as described in Long View’s Floodplain Development Ordinance. e) Copies of the latest Flood Insurance Rate Maps for Long View are available at Town Hall. Flyers titled “Flood Preparation and Safety” are also available at Town Hall and have been distributed throughout the community.

Mitigation Action 2		Routinely inspect and clear debris from drainage system.
Category:	Prevention	
Hazard(s) Addressed:	Flood	
Lead Agency/Department Responsible:	Town of Long View Public Works Department	
Estimated Cost:	Minimal	
Potential Funding Sources:	Local	
Implementation Schedule:	Immediate/ongoing	
Priority (High, Moderate, Low):	Moderate	
2014 Status:	Complete/ongoing. The Town of Long View Public Works Department routinely inspects and clears debris from drainage system both prior to and shortly after wet weather events. (Ongoing elements of this action are partially reflected in the 2014 Mitigation Actions 1-3 above.)	

Mitigation Action 3		Routinely prune trees and clear tree limbs hanging in the right of way.
Category:	Prevention	
Hazard(s) Addressed:	Thunderstorm; Winter Weather	
Lead Agency/Department Responsible:	Town of Long View Public Works Department	
Estimated Cost:	Minimal/budgeted activity	
Potential Funding Sources:	Local	
Implementation Schedule:	Immediate/ongoing	
Priority (High, Moderate, Low):	High	
2014 Status:	Complete/ongoing. The Public Works Department in conjunction with Duke Energy Corporation works to remove tree limbs and other obstructions from rights of way to ensure utility lines are not damaged during storms or similar events. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 4 above.)	

Mitigation Action 4		Require the burial of electrical, telephone, and cable lines for new development.
Category:	Prevention	
Hazard(s) Addressed:	Thunderstorm; Winter Weather	
Lead Agency/Department Responsible:	Town of Long View Planning Department	
Estimated Cost:	Minimal cost to the developer; no cost to the Town.	
Potential Funding Sources:	Private sector	
Implementation Schedule:	Short range	
Priority (High, Moderate, Low):	High	
2014 Status:	Completed. Zoning Ordinance and Subdivision Ordinance require for all new utilities to be buried.	

Mitigation Action 5		Routinely inspect and maintain fire hydrants.
Category:	Emergency Services	
Hazard(s) Addressed:	Fire	
Lead Agency/Department Responsible:	Town of Long View Fire Department	
Estimated Cost:	Minimal/budgeted activity	
Potential Funding Sources:	Local	
Implementation Schedule:	Immediate/ongoing	
Priority (High, Moderate, Low):	Moderate	
2014 Status:	Complete/ongoing. Hydrants are inspected twice a year. Maintenance is performed bi-annually and the hydrants are flowed once per year. This action was not selected to be carried over to the list of 2014 mitigation actions.	

Mitigation Action 6		Ensure firefighters are properly trained and equipped for brush/forest firefighting techniques.
Category:	Emergency Services	
Hazard(s) Addressed:	Fire	
Lead Agency/Department Responsible:	Town of Long View Fire Department	
Estimated Cost:	Local	
Potential Funding Sources:	Yearly budgeted activity	
Implementation Schedule:	Immediate/ongoing	
Priority (High, Moderate, Low):	Moderate	
2014 Status:	Complete/ongoing. The Fire Department obtained wildland gear through a grant in 2010. Training is conducted 2-3 times per year. This action was not selected to be carried over to the list of 2014 mitigation actions.	

Mitigation Action 7		Provide hazard susceptibility checklist for homeowners to conduct their own inspections.
Category:	Public Information and Awareness	
Hazard(s) Addressed:	Multiple Hazards	
Lead Agency/Department Responsible:	Town of Long View Administration Department; Town of Long View Planning Department	
Estimated Cost:	To be determined	
Potential Funding Sources:	FEMA; American Red Cross	
Implementation Schedule:	Short range	
Priority (High, Moderate, Low):	Moderate	
2014 Status:	Deferred. Town staff has had insufficient time to implement this action. Some materials may already be available from FEMA and the American Red Cross. The Town could identify these materials and make them available at Town Hall and on the Town's website.	

Mitigation Action 8	Explore the feasibility of municipal purchase or private donations of floodplain areas for use as greenways.
Category:	Prevention
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Town of Long View Planning Department
Estimated Cost:	Study cost is minimal
Potential Funding Sources:	Local
Implementation Schedule:	Moderate range (2-3 years)
Priority (High, Moderate, Low):	Moderate
2014 Status:	Deferred. Action is deferred due to a lack of funding. Greenways have been proposed along one floodplain area.

Mitigation Action Plan—Town of Maiden

2014 Mitigation Actions

Mitigation Action 1	<p>Maintain continued compliance with the National Flood Insurance Program (NFIP) through implementation of the following specific actions:</p> <ol style="list-style-type: none"> a) Evaluate permit application forms to determine possible modifications focused on flood hazard prevention. b) Develop a checklist for review of building/development permit plans and for inspection of development in floodplains (a model is available). c) Establish a goal to have each plan reviewer attend a related training periodically (for example, the North Carolina Association of Floodplain Managers Annual Conference or Fall Floodplain Institute). d) Maintain a map of areas that flood frequently (e.g., areas where repetitive loss properties are located) and prioritize those areas for inspection immediately after the next flood. If outside FEMA Special Flood Hazard Areas, consider requiring existing NFIP regulatory standards (compliance with existing ordinance) through overlay zoning, etc. e) Conduct a review of other regulatory programs and planning tools, such as the comprehensive plan and zoning ordinance, and report on opportunities to improve consistency with the objectives of floodplain management.
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Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Town of Maiden Planning Department
Estimated Cost:	staff time only
Potential Funding Sources:	Local
Implementation Schedule:	Immediate and ongoing through 2015
Priority (High, Moderate, Low):	High

Mitigation Action 2	Continue to address the long-term maintenance and removal of the Maiden Water Supply dam structure with relevant state agencies.
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Category:	Local Plans and Regulations
Hazard(s) Addressed:	Dam Failure; Flood
Lead Agency/Department Responsible:	Town of Maiden Public Works Department
Estimated Cost:	Undetermined
Potential Funding Sources:	Local; state; federal
Implementation Schedule:	2019
Priority (High, Moderate, Low):	High

Mitigation Action 3	Continue with the installation of more effective risers to sewer manholes to reduce infiltration and inflow during heavy rains.
Category:	Structure and Infrastructure Projects
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Town of Maiden Public Works Department
Estimated Cost:	Low
Potential Funding Sources:	Local
Implementation Schedule:	Short range
Priority (High, Moderate, Low):	High

Mitigation Action 4	Routinely prune trees and clear tree limbs hanging near electrical lines.
Category:	Other
Hazard(s) Addressed:	Hurricane and Tropical Storm; Thunderstorm; Hail; Lightning; Tornado; Winter Weather
Lead Agency/Department Responsible:	Town of Maiden Public Works Department, Electrical Division
Estimated Cost:	\$25,000 annually
Potential Funding Sources:	Local
Implementation Schedule:	2019
Priority (High, Moderate, Low):	High

Mitigation Action 5	Routinely inspect and clean debris from drainage system.
Category:	Other
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Town of Maiden Public Works Department
Estimated Cost:	Minimal
Potential Funding Sources:	Local
Implementation Schedule:	2019
Priority (High, Moderate, Low):	Moderate

Mitigation Action 6	Explore the feasibility of municipal purchase and/or private donation of floodplain areas for use as greenways.
Category:	Natural Systems Protection
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Town of Maiden Planning Department
Estimated Cost:	Minimal
Potential Funding Sources:	Local
Implementation Schedule:	2019
Priority (High, Moderate, Low):	Moderate

Mitigation Action 7	Continue to routinely inspect and maintain fire hydrants.
Category:	Other
Hazard(s) Addressed:	Wildfire
Lead Agency/Department Responsible:	Town of Maiden Fire Department
Estimated Cost:	Minimal
Potential Funding Sources:	Local
Implementation Schedule:	Annually
Priority (High, Moderate, Low):	Moderate

Mitigation Action 8	Continue to ensure firefighters are properly trained and equipped for brush/wildland firefighting techniques.
Category:	Other
Hazard(s) Addressed:	Wildfire
Lead Agency/Department Responsible:	Town of Maiden Fire Department
Estimated Cost:	\$1,000 per firefighter
Potential Funding Sources:	Local
Implementation Schedule:	Short range (1-2 years)
Priority (High, Moderate, Low):	Moderate

Mitigation Action 9	Continue to encourage residents to keep storm drains clear of debris during storms (to assist, not rely solely on Public Works).
Category:	Other
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Town of Maiden Public Works Department
Estimated Cost:	Minimal
Potential Funding Sources:	Local
Implementation Schedule:	Immediate (less than 1 year)
Priority (High, Moderate, Low):	Moderate

Mitigation Action 10	In coordination with the Catawba County Emergency Services Department, conduct outreach to the public regarding the County's Community Alert System to educate them about how to obtain information both pre- and post-event and about mitigation strategies.
Category:	Education and Awareness Programs
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Town of Maiden; Catawba County Emergency Services Department
Estimated Cost:	Staff time
Potential Funding Sources:	General Fund
Implementation Schedule:	1-2 years
Priority (High, Moderate, Low):	High

Status of Previously Adopted Mitigation Actions

Mitigation Action 1	<p>Maintain continued compliance with the National Flood Insurance Program (NFIP) through implementation of the following specific actions:</p> <ol style="list-style-type: none"> a) Evaluate permit application forms to determine possible modifications focused on flood hazard prevention. b) Develop a checklist for review of building/development permit plans and for inspection of development in floodplains (a model is available). c) Establish a goal to have each plan reviewer and building inspector attend a related training periodically (for example, the North Carolina Association of Floodplain Managers Annual Conference or Fall Floodplain Institute). d) Maintain a map of areas that flood frequently (e.g., areas where repetitive loss properties are located) and prioritize those areas for inspection immediately after the next flood. If outside FEMA Special Flood Hazard Areas, consider requiring existing NFIP regulatory standards (compliance with existing ordinance) through overlay zoning, etc. e) Conduct a review of other regulatory programs and planning tools, such as the comprehensive plan and zoning ordinance, and report on opportunities to improve consistency with the objectives of floodplain management.
Category:	Prevention
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Town of Maiden Planning Department
Estimated Cost:	N/A (staff time only)
Potential Funding Sources:	N/A
Implementation Schedule:	Immediate and ongoing through 2015
Priority (High, Moderate, Low):	High
2014 Status:	Established permitting checklist; incorporated flood protection ordinance into the Town of Maiden Unified Development Ordinance (UDO). (Ongoing elements of this action are reflected in the 2014 Mitigation Action 1 above.)

Mitigation Action 2	Develop a dam failure study for the Maiden Reservoir Dam and continue to address the long-term maintenance or removal of the dam structure with relevant state agencies.
Category:	Prevention
Hazard(s) Addressed:	Dam Failure; Flood
Lead Agency/Department Responsible:	Town of Maiden Public Works Department
Estimated Cost:	To be determined
Potential Funding Sources:	Local; state; federal
Implementation Schedule:	Short range
Priority (High, Moderate, Low):	High
2014 Status:	Received a North Carolina Department of Environmental and Natural Resources (NC DENR) grant to improve the dam. A multiple phase plan has been developed to resolve this issue by FY 2019-2020. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 2.)

Mitigation Action 3	Continue with the installation of more effective risers to sewer manholes to reduce infiltration and inflow during heavy rains.
Category:	Structural Projects
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Town of Maiden Public Works Department
Estimated Cost:	Low
Potential Funding Sources:	Local
Implementation Schedule:	Immediate
Priority (High, Moderate, Low):	High
2014 Status:	Ongoing; allocating \$10,000 annually towards installation of risers. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 3 above.)

Mitigation Action 4	Routinely prune trees and clear tree limbs hanging near electrical lines.
Category:	Prevention
Hazard(s) Addressed:	Hurricane and Tropical Storm; Thunderstorm; Tornado; Winter Weather
Lead Agency/Department Responsible:	Town of Maiden Public Works Department, Electrical Division
Estimated Cost:	\$25,000 annually
Potential Funding Sources:	Local
Implementation Schedule:	Immediate
Priority (High, Moderate, Low):	High
2014 Status:	Completed; continuous maintenance required. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 4 above.)

Mitigation Action 5		Routinely inspect and clean debris from drainage system.
Category:	Prevention	
Hazard(s) Addressed:	Flood	
Lead Agency/Department Responsible:	Town of Maiden Public Works Department	
Estimated Cost:	Minimal	
Potential Funding Sources:	Local	
Implementation Schedule:	Continuous	
Priority (High, Moderate, Low):	Moderate	
2014 Status:	Completed; ongoing. Public Works staff routinely inspects and cleans debris from the drainage system. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 5 above.)	

Mitigation Action 6		Explore the feasibility of municipal purchase and/or private donation of floodplain areas for use as greenways.
Category:	Prevention; Natural Resource Protection	
Hazard(s) Addressed:	Flood	
Lead Agency/Department Responsible:	Town of Maiden Planning Department	
Estimated Cost:	Study cost is minimal	
Potential Funding Sources:	Local	
Implementation Schedule:	Annually	
Priority (High, Moderate, Low):	Moderate	
2014 Status:	None purchased. Purchasing opportunities and donation of land is being sought. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 6 above.)	

Mitigation Action 7		Continue to routinely inspect and maintain fire hydrants.
Category:	Emergency Services	
Hazard(s) Addressed:	Wildfire	
Lead Agency/Department Responsible:	Town of Maiden Fire Department; Town of Maiden Public Works Department	
Estimated Cost:	Minimal	
Potential Funding Sources:	Local	
Implementation Schedule:	Annually	
Priority (High, Moderate, Low):	Moderate	
2014 Status:	Completed; ongoing. The Fire Department inspects and tests hydrants at least once a year. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 7 above.)	

Mitigation Action 8	Continue to ensure firefighters are properly trained and equipped for brush/wildland firefighting techniques.
Category:	Emergency Services
Hazard(s) Addressed:	Wildfire
Lead Agency/Department Responsible:	Town of Maiden Fire Department
Estimated Cost:	\$1,000 per firefighter
Potential Funding Sources:	Local
Implementation Schedule:	Short range (1-2 years)
Priority (High, Moderate, Low):	Moderate
2014 Status:	Purchased equipment, plan to attend Forest Service training. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 8 above.)

Mitigation Action 9	Continue to encourage residents to keep storm drains clear of debris during storms (to assist, not rely solely on Public Works).
Category:	Prevention
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Town of Maiden Public Works Department
Estimated Cost:	Minimal
Potential Funding Sources:	Local
Implementation Schedule:	Ongoing
Priority (High, Moderate, Low):	Moderate
2014 Status:	Increasing public awareness through the Town's newsletter.

Mitigation Action 10	Construct a remote fire station to house at least two trucks and additional firefighting and life/safety equipment necessary for first responders during periods of emergency or disasters.
Category:	Emergency Services
Hazard(s) Addressed:	Flood; Hurricane and Tropical Storm; Thunderstorm, Lightning, and Hail; Tornado; Wildfire; Drought; Winter Weather; Erosion; Dam/Levee Failure; Earthquake; Sinkhole; Landslide
Lead Agency/Department Responsible:	Town of Maiden Fire Department; Town of Maiden Administration Department
Estimated Cost:	Moderate
Potential Funding Sources:	Grants; taxes
Implementation Schedule:	2-5 years
Priority (High, Moderate, Low):	Moderate
2014 Status:	Completed. A fire station was built at the intersection of Elbow Road and Startown Road.

Mitigation Action Plan—City of Morganton

2014 Mitigation Actions

Mitigation Action 1	Review/update Flood Damage Prevention Ordinance to ensure maximum protection from flood hazard events (CRS 430).
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	City of Morganton Planning Commission; City Council
Estimated Cost:	Unspecified
Potential Funding Sources:	Local
Implementation Schedule:	Immediate-2019
Priority (High, Moderate, Low):	High

Mitigation Action 2	Merge E-911 dispatch programs to include all municipalities within the county to cover the entire county with one system.
Category:	Education and Awareness Programs
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	E-911/MIS
Estimated Cost:	\$7 million
Potential Funding Sources:	Local; State
Implementation Schedule:	2016
Priority (High, Moderate, Low):	High

Mitigation Action 3	Establish/maintain coordinated Drainage System Inspection Program.
Category:	Structure and Infrastructure Projects
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	City of Morganton Public Works Department
Estimated Cost:	Unspecified
Potential Funding Sources:	Local
Implementation Schedule:	Immediate-2019
Priority (High, Moderate, Low):	High

Mitigation Action 4	Install an early warning system to ensure adequate evacuation time in case of a major hazard event.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	City of Morganton Public Safety Department; Burke County Emergency Services
Estimated Cost:	Unspecified
Potential Funding Sources:	Local; State
Implementation Schedule:	2014-2019
Priority (High, Moderate, Low):	High

Mitigation Action 5	Establish and maintain a list of priority properties for acquisition in the event of another natural disaster.
Category:	Education and Awareness Programs
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	City of Morganton Development & Design Department
Estimated Cost:	Unspecified
Potential Funding Sources:	Local
Implementation Schedule:	2014-2019
Priority (High, Moderate, Low):	High

Mitigation Action 6	Evaluate flood or access problems for critical facilities; develop recommendations for protecting critical parts (e.g., police and fire command centers); and identify alternate command posts, if necessary.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	City of Morganton Public Safety Department
Estimated Cost:	Unspecified
Potential Funding Sources:	Local
Implementation Schedule:	Immediate-2019
Priority (High, Moderate, Low):	High

Mitigation Action 7	Develop and implement a hazard awareness program to include: a) Elevation certificates. b) Flood Insurance Rate Map (FIRM) data. c) Bulletin on property protection measures and flood insurance. d) Other activities under CRS 310/320/330/340/440.
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Category:	Education and Awareness Programs
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	City of Morganton Development & Design Department
Estimated Cost:	Unspecified
Potential Funding Sources:	Local
Implementation Schedule:	2014-2019
Priority (High, Moderate, Low):	High

Mitigation Action 8	Develop a tracking system to evaluate progress and revise mitigation activities as necessary.
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Category:	Education and Awareness Programs
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	City of Morganton Development & Design Department
Estimated Cost:	Unspecified
Potential Funding Sources:	Local
Implementation Schedule:	2014-2019
Priority (High, Moderate, Low):	High

Mitigation Action 9	In cooperation with Burke County, assist in establishing a program for evaluating and improving critical services (roads, bridges, water, sewer, electricity, etc.) and critical facilities (fire, rescue, medical, etc.) to reduce risk to natural hazards.
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Category:	Local Plans and Regulations
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	City of Morganton Development & Design Department
Estimated Cost:	N/A
Potential Funding Sources:	Local; state; federal
Implementation Schedule:	2019
Priority (High, Moderate, Low):	Moderate

Mitigation Action 10	In cooperation with Burke County, assist (as needed) in preparing a countywide stormwater management plan.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	City of Morganton Development & Design Department
Estimated Cost:	N/A
Potential Funding Sources:	Local; state
Implementation Schedule:	Revise in 2015
Priority (High, Moderate, Low):	Moderate

Status of Previously Adopted Mitigation Actions

Mitigation Action 1	Review/update Flood Damage Prevention Ordinance to ensure maximum protection from flood hazard events (CRS 430).
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	City of Morganton Planning Commission; City Council
Estimated Cost:	Unspecified
Potential Funding Sources:	Local
Implementation Schedule:	Immediate
Priority (High, Moderate, Low):	High
2014 Status:	Ongoing. The City is currently in the process of amending its Zoning Regulations to require appropriate open space preservation in flood hazard areas. The City is also working with the surrounding jurisdictions to promote consistent land use policies, preserve open space, and maintain consistent utility extension policies in flood-prone areas.

Mitigation Action 2	Revise/update regulatory floodplain maps (CRS 410).
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Federal Emergency Management Agency (FEMA); North Carolina Department of Environment and Natural Resources (NCDEM); North Carolina Division of Emergency Management (NCDEM)
Estimated Cost:	Unspecified
Potential Funding Sources:	Local; State; FEMA
Implementation Schedule:	Immediate
Priority (High, Moderate, Low):	High
2014 Status:	Completed in 2007. The City continues to work with FEMA and NCEM to appropriately adopt updated flood maps as released.

Mitigation Action 3		Update Land Development Plan.
Category:	Local Plans and Regulations	
Hazard(s) Addressed:	Flood	
Lead Agency/Department Responsible:	City of Morganton Planning Commission; City Council	
Estimated Cost:	\$175,000	
Potential Funding Sources:	Local	
Implementation Schedule:	2018	
Priority (High, Moderate, Low):	High	
2014 Status:	Completed new Mission 203 Land Development Plan in 2009. This 20-year plan initiates new policies that encourage preservation of open space along flood hazard areas. The plan will be reviewed and updated in 2019.	

Mitigation Action 4		Merge E-911 dispatch programs to include all municipalities within the county to cover the entire county with one system.
Category:	Education and Awareness Programs	
Hazard(s) Addressed:	All Hazards	
Lead Agency/Department Responsible:	E-911/MIS	
Estimated Cost:	\$7 million	
Potential Funding Sources:	Local; State	
Implementation Schedule:	2014	
Priority (High, Moderate, Low):	High	
2014 Status:	City and local jurisdictions are currently in the process of combining 911 dispatch through the construction of a new call center and consolidation of services. Completion and implementation is scheduled for Fall 2014.	

Mitigation Action 5		Establish/maintain coordinated Drainage System Inspection Program.
Category:	Structure and Infrastructure Projects	
Hazard(s) Addressed:	Flood	
Lead Agency/Department Responsible:	City of Morganton Public Works Department	
Estimated Cost:	Unspecified	
Potential Funding Sources:	Local	
Implementation Schedule:	Ongoing	
Priority (High, Moderate, Low):	High	
2014 Status:	The City Public Works Department appropriates funding in each fiscal year to address deficiencies in City maintained drainage systems. This includes annual cleaning and inspection of critical systems and repair and replacement of failed systems.	

Mitigation Action 6	Utilize an early warning system to ensure adequate evacuation time in case of a major hazard event.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	City of Morganton Public Safety Department; Burke County Emergency Services
Estimated Cost:	Unspecified
Potential Funding Sources:	Local; State
Implementation Schedule:	2014-2019
Priority (High, Moderate, Low):	High
2014 Status:	Duke Energy maintains the early warning system for dam failures and potential hazards dealing with Lake James. Hyper-Reach is used for a reverse 911 system to notify residences of potential hazardous conditions. A local radio station is used for National Weather Service severe weather.

Mitigation Action 7	Establish a list of priority properties for acquisition in the event of another natural disaster.
Category:	Education and Awareness Programs
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	City of Morganton Development & Design Department, Public Information Office
Estimated Cost:	Unspecified
Potential Funding Sources:	Local
Implementation Schedule:	2014-2019
Priority (High, Moderate, Low):	High
2014 Status:	The City continues to identify and acquire high risk properties as funding is made available to eliminate catastrophic loss of life and damage to property. The majority of these properties are incorporated into parks and greenways within flood-prone areas.

Mitigation Action 8	Evaluate flood or access problems for critical facilities; develop recommendations for protecting critical parts (e.g., police and fire command centers); and identify alternate command posts, if necessary.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	City of Morganton Public Safety Department
Estimated Cost:	Unspecified
Potential Funding Sources:	Local
Implementation Schedule:	Immediate
Priority (High, Moderate, Low):	High
2014 Status:	The City is currently undertaking major upgrades to the City's wastewater sewer systems including plant renovations and line upgrades. These actions will help prevent infiltration of sewage during flooding events through upgrades. The City has also recently installed a new water plant generator in a location above flood hazard areas. This generator will serve as a power source backup during catastrophic events to maintain system drinking water.

Mitigation Action 9	Develop and implement a hazard awareness program to include: a) Elevation certificates. b) Flood Insurance Rate Map (FIRM) data. c) Bulletin on property protection measures and flood insurance. d) Other activities under CRS 310/320/330/340/440.
Category:	Education and Awareness Programs
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	City of Morganton Development & Design Department
Estimated Cost:	Unspecified
Potential Funding Sources:	Local
Implementation Schedule:	2014-2019
Priority (High, Moderate, Low):	High
2014 Status:	The City offers access to online Flood Elevation Certificates, FIRMs, and other flood mapping protection services through NCEM. City staff consults with property owners and developers as to how to access this information and obtain guidance on a routine basis.

Mitigation Action 10	Develop a tracking system to evaluate progress and revise mitigation activities as necessary.
Category:	Education and Awareness Programs
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	City of Morganton Public Information Office
Estimated Cost:	Unspecified
Potential Funding Sources:	Local
Implementation Schedule:	2014-2019
Priority (High, Moderate, Low):	High
2014 Status:	Each year the City evaluates and improves upon the information it provides to the general public regarding mitigation activities. Weekly department head assessment meetings and interdepartmental review of the information provided generates routine updates through the City's website, CoMPAS Cable Programing, public awareness notices, press releases, and other educational brochures.

Mitigation Action Plan—City of Newton

2014 Mitigation Actions

Mitigation Action 1	<p>Maintain continued compliance with the National Flood Insurance Program (NFIP) through implementation of the following specific actions:</p> <ul style="list-style-type: none"> a) Maintain FEMA digital elevation certificates for all construction in the floodplain. b) Establish a goal to have each plan reviewer and building inspector attend a related training periodically (for example, the North Carolina Association of Floodplain Managers Annual Conference or Fall Floodplain Institute).
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Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	City of Newton Planning and Zoning Department
Estimated Cost:	N/A (staff and travel)
Potential Funding Sources:	N/A
Implementation Schedule:	Immediate and through 2019
Priority (High, Moderate, Low):	High

Mitigation Action 2	Routinely inspect and clear debris from drainage system.
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Category:	Structure and Infrastructure Projects
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	City of Newton Public Works Department
Estimated Cost:	To be determined
Potential Funding Sources:	To be determined
Implementation Schedule:	Immediate
Priority (High, Moderate, Low):	High

Mitigation Action 3	Routinely prune trees and clear tree limbs hanging in right of way.
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Category:	Structure and Infrastructure Projects
Hazard(s) Addressed:	Hurricane and Tropical Storm; Thunderstorm, Lightning, and Hail; Tornado; Winter Weather
Lead Agency/Department Responsible:	City of Newton Public Works Department
Estimated Cost:	To be determined
Potential Funding Sources:	To be determined
Implementation Schedule:	Immediate
Priority (High, Moderate, Low):	High

Mitigation Action 4	Maintain a comprehensive infrastructure mapping system to document locations and attributes of infrastructure systems.
Category:	Structure and Infrastructure Projects
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	City of Newton Public Works Department
Estimated Cost:	To be determined
Potential Funding Sources:	To be determined
Implementation Schedule:	Immediate
Priority (High, Moderate, Low):	High

Mitigation Action 5	Evaluate existing utility network and create a list of infrastructure protection projects based on highest potential hazard impacts.
Category:	Structure and Infrastructure Projects
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	City of Newton Public Works Department
Estimated Cost:	To be determined
Potential Funding Sources:	To be determined
Implementation Schedule:	Immediate
Priority (High, Moderate, Low):	High

Mitigation Action 6	Train fire personnel in wildfire, brush, and forest fire firefighting techniques and practices.
Category:	Education and Awareness Programs
Hazard(s) Addressed:	Wildfire
Lead Agency/Department Responsible:	City of Newton Fire Department
Estimated Cost:	To be determined
Potential Funding Sources:	To be determined
Implementation Schedule:	Immediate
Priority (High, Moderate, Low):	Moderate

Mitigation Action 7	Increase dimensions of drainage culverts in troublesome areas.
Category:	Structure and Infrastructure Projects
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	City of Newton Public Works Department
Estimated Cost:	To be determined
Potential Funding Sources:	To be determined
Implementation Schedule:	Immediate
Priority (High, Moderate, Low):	Moderate

Mitigation Action 8	Work with local media to establish a public wildfire awareness program.
Category:	Education and Awareness Programs
Hazard(s) Addressed:	Wildfire
Lead Agency/Department Responsible:	City of Newton Fire Department
Estimated Cost:	To be determined
Potential Funding Sources:	To be determined
Implementation Schedule:	Immediate
Priority (High, Moderate, Low):	Moderate

Mitigation Action 9	Maintain a seasonal hazard awareness campaign.
Category:	Education and Awareness Programs
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	City of Newton Public Information Officer
Estimated Cost:	To be determined
Potential Funding Sources:	To be determined
Implementation Schedule:	Immediate
Priority (High, Moderate, Low):	Low

Mitigation Action 10	In coordination with the Catawba County Emergency Services Department, conduct outreach to the public regarding the County's Community Alert System to educate them about how to obtain information both pre- and post-event and about mitigation strategies.
Category:	Education and Awareness Programs
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Town of Newton; Catawba County Emergency Services Department
Estimated Cost:	Staff time
Potential Funding Sources:	General Fund
Implementation Schedule:	1-2 years
Priority (High, Moderate, Low):	High

Status of Previously Adopted Mitigation Actions

Mitigation Action 1	<p>Maintain continued compliance with the National Flood Insurance Program (NFIP) through implementation of the following specific actions:</p> <ol style="list-style-type: none"> a) Maintain FEMA digital elevation certificates for all construction in the floodplain. b) Evaluate permit application forms to determine possible modifications focused on flood hazard prevention. c) Develop a checklist for review of building/development permit plans and for inspection of development in floodplains. d) Establish a goal to have each plan reviewer and building inspector attend a related training periodically (for example, the North Carolina Association of Floodplain Managers Annual Conference or Fall Floodplain Institute).
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Category:	Prevention
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	City of Newton Planning and Zoning Department
Estimated Cost:	N/A (staff and travel)
Potential Funding Sources:	N/A
Implementation Schedule:	Immediate and ongoing through 2015
Priority (High, Moderate, Low):	High
2014 Status:	Completed. The Planning Department has continued to maintain digital elevation certificates for all construction in the floodplain, included ongoing development. A flood hazard focus during the City's annual zoning permit revisions included flood management in the development checklist, and budgeted for floodplain training for proceeding five years. This resulted in the City's Floodplain Program receiving a clean audit by the State in 2013. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 1 above.)

Mitigation Action 2	Routinely inspect and clear debris from drainage system.
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Category:	Prevention
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	City of Newton Public Works Department
Estimated Cost:	To be determined
Potential Funding Sources:	To be determined
Implementation Schedule:	Immediate
Priority (High, Moderate, Low):	High
2014 Status:	Ongoing. The City of Newton Public Works staff cleans and inspects the drainage system as needed, including problem areas before and after heavy rain events. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 2 above.)

Mitigation Action 3		Routinely prune trees and clear tree limbs hanging in right of way.
Category:	Prevention	
Hazard(s) Addressed:	Hurricane and Tropical Storm; Thunderstorm, Lightning, and Hail; Tornado; Winter Weather	
Lead Agency/Department Responsible:	City of Newton Public Works Department	
Estimated Cost:	To be determined	
Potential Funding Sources:	To be determined	
Implementation Schedule:	Immediate	
Priority (High, Moderate, Low):	High	
2014 Status:	Ongoing. The City of Newton has hired a tree trimming crew to keep trees and limbs clear of electric lines. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 3 above.)	

Mitigation Action 4		Maintain a comprehensive infrastructure mapping system to document locations and attributes of infrastructure systems.
Category:	Prevention	
Hazard(s) Addressed:	All Hazards	
Lead Agency/Department Responsible:	City of Newton Public Works Department	
Estimated Cost:	To be determined	
Potential Funding Sources:	To be determined	
Implementation Schedule:	Immediate	
Priority (High, Moderate, Low):	High	
2014 Status:	Ongoing. The City has collected the majority of all known infrastructure and is working diligently to maintain this information. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 4 above.)	

Mitigation Action 5		Evaluate existing utility network and create a list of infrastructure protection projects based on highest potential hazard impacts.
Category:	Prevention	
Hazard(s) Addressed:	All Hazards	
Lead Agency/Department Responsible:	City of Newton Public Works Department	
Estimated Cost:	To be determined	
Potential Funding Sources:	To be determined	
Implementation Schedule:	Immediate	
Priority (High, Moderate, Low):	High	
2014 Status:	Ongoing. The City has a Capital Improvement Plan that plans capital cost for a five-year period. Hazard mitigation is a category for ranking projects. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 5 above.)	

Mitigation Action 6		Increase dimensions of drainage culverts in troublesome areas.
Category:	Structural Projects	
Hazard(s) Addressed:	Flood	
Lead Agency/Department Responsible:	City of Newton Public Works Department	
Estimated Cost:	To be determined	
Potential Funding Sources:	To be determined	
Implementation Schedule:	Immediate	
Priority (High, Moderate, Low):	Moderate	
2014 Status:	Ongoing. The City has undertaken several culvert projects over the last several years, which involved replacing undersized culverts with larger sized pipes. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 7 above.)	

Mitigation Action 7		Train fire personnel in wildfire, brush, and forest fire firefighting techniques and practices.
Category:	Emergency Services	
Hazard(s) Addressed:	Wildfire	
Lead Agency/Department Responsible:	City of Newton Fire Department	
Estimated Cost:	To be determined	
Potential Funding Sources:	To be determined	
Implementation Schedule:	Immediate	
Priority (High, Moderate, Low):	Moderate	
2014 Status:	Ongoing. The Fire Department trains each of its personnel in wildfire, brush, and forest fire techniques on an annual basis. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 6 above.)	

Mitigation Action 8		Work with local media to establish a public wildfire awareness program.
Category:	Public Education and Awareness	
Hazard(s) Addressed:	Wildfire	
Lead Agency/Department Responsible:	City of Newton Fire Department	
Estimated Cost:	To be determined	
Potential Funding Sources:	To be determined	
Implementation Schedule:	Immediate	
Priority (High, Moderate, Low):	Moderate	
2014 Status:	<p>Ongoing. Over the past 5 years, the Fire Department has worked with the City's PIO and local media to educate the public about wildfire hazards. The City's efforts to educate the public on wildfires includes adopting a proclamation for a Fire Safety Week each year. The City has also included relevant articles in its quarterly newsletter which goes out to all utility customers, as well as including information on the City's website, Facebook page, and Twitter. In addition, the Fire Department has a Fire Educator that speaks to groups of all ages about fire safety topics, which includes wildfire awareness. Specific groups visited by the Fire Educator include schools, childcare centers, and civic groups. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 8 above.)</p>	

Mitigation Action 9		Maintain a seasonal hazard awareness campaign.
Category:	Public Education and Awareness	
Hazard(s) Addressed:	Flood; Hurricane and Tropical Storm; Thunderstorm, Lightning, and Hail; Tornado; Wildfire; Drought; Winter Weather; Erosion; Dam/Levee Failure; Earthquake; Sinkhole; Landslide	
Lead Agency/Department Responsible:	City of Newton Public Information Officer	
Estimated Cost:	To be determined	
Potential Funding Sources:	To be determined	
Implementation Schedule:	Immediate	
Priority (High, Moderate, Low):	Low	
2014 Status:	<p>Ongoing. The City's PIO through the local media, newsletters, and social media worked to educate the public on seasonal hazards. The City has included articles about hazard awareness in its quarterly newsletter which is sent out to all utility customers, as well as including information on the City's website, Facebook page, and Twitter. Also, the PIO has prepared and obtained brochures to distribute as needed to educate the public on hazard awareness, focusing on flood; hurricane and tropical storm; thunderstorm, lightning, and hail; tornado; wildfire; drought; winter weather; and erosion. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 9 above.)</p>	

Mitigation Action Plan—Town of Rhodhiss

2014 Mitigation Actions

Mitigation Action 1	The Town of Rhodhiss Fire Department will assist Burke County and Caldwell County in compiling the information necessary to enforce elevation certificates for all new development within the Special Flood Hazard Area (SFHA).
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Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood; Dam/Levee Failure
Lead Agency/Department Responsible:	Town of Rhodhiss Fire Department
Estimated Cost:	Minimal (staff time only)
Potential Funding Sources:	Existing staff and administrative resources
Implementation Schedule:	2019
Priority (High, Moderate, Low):	Low

Mitigation Action 2	The Town Manager will continue to assist Town citizens with access to the Flood Insurance Rate Maps (FIRMs) for the community at the Town Manager’s office and will respond to questions and facilitate requests for additional information as needed.
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Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood; Dam/Levee Failure
Lead Agency/Department Responsible:	Town Manager
Estimated Cost:	Minimal (staff time only)
Potential Funding Sources:	Existing staff and administrative resources
Implementation Schedule:	2019
Priority (High, Moderate, Low):	Moderate

Mitigation Action 3	The Town of Rhodhiss is actively talking with a property owner about creating a greenway along the Catawba River. The Town has purchased property on the Burke County side of the Town to develop a park. A Parks and Recreation Trust Fund (PARTF) grant was received in order to implement this action.
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Category:	Natural Systems Protection
Hazard(s) Addressed:	Flood; Dam/Levee Failure; Wildfire
Lead Agency/Department Responsible:	Town of Rhodhiss; help from surrounding counties
Estimated Cost:	Undetermined
Potential Funding Sources:	Matching grants
Implementation Schedule:	4-5 years for park
Priority (High, Moderate, Low):	Moderate

Mitigation Action 4	<p>Update and/or replace critical equipment and facilities over the next 10 years, to consist of:</p> <ul style="list-style-type: none"> a) One new fire truck. b) Rescue tools and in-service for using rescue tools. c) Rehabilitation of the existing fire department or construction of a new facility. Needs at present time are: fluorescent lights replaced, sprinkler system installed, handicap accessibility, complete rewiring, plumbing, heating, sheet rock and paint upstairs, and installation of a phone or alarm for rescue assistance at fire department (push button alarm).
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Category:	Other
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Town of Rhodhiss Fire Department
Estimated Cost:	Undetermined
Potential Funding Sources:	State and federal grants
Implementation Schedule:	Approx. 10 years
Priority (High, Moderate, Low):	Moderate

Mitigation Action 5	<p>The Caldwell County Planning and Development Department and the Caldwell County Building Inspections Department will make information regarding all hazards and development regulations within floodplains available through the following methods:</p> <ul style="list-style-type: none"> a) Ensuring that the local library maintains information relating to all hazards, flooding, flood protection, and mitigation techniques. b) Providing a link on the Caldwell County website to FEMA resources addressing all hazards, flooding, flood protection, and mitigation techniques. c) All municipal jurisdictions, if a website is in place, will provide a link on their website to FEMA resources addressing flooding and flood protection, sheltering, evacuation procedures, disaster preparedness, and post disaster recovery. <p>The Town of Rhodhiss supports this county-level action specifically by posting announcements, newsletters, and other information at the Town Hall, Post Office, various stores in Town, etc. to inform citizens.</p>
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Category:	Education and Awareness Programs
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	<p>Primary Responsible Party: Caldwell County Planning and Development Department; Caldwell County Building Inspections Department.</p> <p>Secondary Responsible Party: Administrative staff of all participating jurisdictions in Caldwell County: Town of Rhodhiss; Town of Cahah's Mountain; Town of Gamewell; Village of Cedar Rock; Town of Granite Falls; Town of Sawmills; City of Lenoir; Town of Hudson.</p>
Estimated Cost:	Minimal (staff time only)
Potential Funding Sources:	Existing department and staff resources
Implementation Schedule:	Immediate-2019
Priority (High, Moderate, Low):	High

Mitigation Action 6	The Town of Rhodhiss will continue to maintain all property acquired within the Special Flood Hazard Area (SFHA) as undisturbed open space in perpetuity. All parties will continue to pro-actively establish open space within the floodplain and floodway as grant funds become available to carry out this initiative. The Town has already implemented acquiring property on the Burke County side of the Town for a park on the Catawba River that will join the Catawba River Trail.
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Category:	Natural Systems Protection
Hazard(s) Addressed:	Flood; Dam/Levee Failure; Wildfire
Lead Agency/Department Responsible:	Town Manager
Estimated Cost:	To be determined on a case-by-case basis
Potential Funding Sources:	Federal and state grants
Implementation Schedule:	As opportunities arise
Priority (High, Moderate, Low):	Moderate

Mitigation Action 7	Caldwell County and its municipal jurisdictions, in cooperation with Duke Energy, will continue to support the North Carolina Office of Dam Safety efforts to monitor and inspect all dams throughout the County. The County relies on this agency to ensure that all dam facilities, both public and private, are properly maintained and stable. The Town of Rhodhiss provides Town staff to assist with annual site visits to understand any changes made at the structure within the past year and how that might affect the Town and Town citizens.
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Category:	Prevention
Hazard(s) Addressed:	Flood; Dam/Levee Failure
Lead Agency/Department Responsible:	Primary Responsible Party: Caldwell County Emergency Services. Secondary Responsible Party: Town of Rhodhiss.
Estimated Cost:	Minimal (staff time only)
Potential Funding Sources:	Existing department and staff resources
Implementation Schedule:	Annually-2019
Priority (High, Moderate, Low):	High

Mitigation Action 8	<p>In cooperation with the Caldwell County Planning and Development Department and the Caldwell County Building Inspections Department, make information regarding hazards and development regulations within floodplains available through the following:</p> <ol style="list-style-type: none"> a) Ensuring that the local library maintains information relating to flooding and flood protection. b) Provide a link on the Town’s website to FEMA resources addressing flooding and flood protection, sheltering, evacuation procedures, disaster preparedness, and post-disaster recovery.
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Category:	Education and Awareness Programs
Hazard(s) Addressed:	Flood; Winter Weather; Thunderstorm; Dam/Levee Failure; Tornado
Lead Agency/Department Responsible:	Town of Rhodhiss
Estimated Cost:	N/A (covered by Caldwell County)
Potential Funding Sources:	Maintain present activities under the funding available
Implementation Schedule:	2019
Priority (High, Moderate, Low):	High

Mitigation Action 9	<p>In coordination with Caldwell County, the Town of Rhodhiss will continue to maintain all property acquired within the Special Flood Hazard Area (SFHA) as undisturbed open space in perpetuity. All parties will continue to pro-actively establish open space within the floodplain and floodway as grant funds become available to carry out this initiative.</p>
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Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood; Dam/Levee Failure; Wildfire
Lead Agency/Department Responsible:	Town of Rhodhiss; Caldwell County Building Inspections Department; Caldwell County Planning and Development Department
Estimated Cost:	\$250,000+
Potential Funding Sources:	Grant fund resources; hazard mitigation of Lenoir EMS Base
Implementation Schedule:	2015
Priority (High, Moderate, Low):	Low

Mitigation Action 10	<p>In coordination with Caldwell County, the Town of Rhodhiss will maintain a contract with a qualified post-disaster recovery service provider. This contract will include the provision of essential services and equipment, including generators, and will include documentation required for reimbursement from FEMA/NCEM.</p>
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Category:	Local Plans and Regulations
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Town of Rhodhiss; Caldwell County Emergency Management Department
Estimated Cost:	Unspecified
Potential Funding Sources:	Existing department and staff resources
Implementation Schedule:	1-5 years
Priority (High, Moderate, Low):	Moderate

Mitigation Action 11	In coordination with the Caldwell County Emergency Management Department, the Town of Rhodhiss will assist with the monitoring of water resources. When necessary, the Town will cooperate with the County in instituting measures to conserve water resources according to the County's Drought Management Plan.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Drought; Wildfire
Lead Agency/Department Responsible:	Town of Rhodhiss; Caldwell County Water Department
Estimated Cost:	\$1.5 million (covered by Caldwell County)
Potential Funding Sources:	Grants and tax-based funding
Implementation Schedule:	Annually-2019
Priority (High, Moderate, Low):	Low

Mitigation Action 12	Cooperate with Caldwell County in the implementation and enforcement of the County's comprehensive stormwater management program.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Town of Rhodhiss; City of Lenoir Planning and Building Inspections Department; administrative staff of Caldwell County
Estimated Cost:	\$50,000 per year
Potential Funding Sources:	Existing department and staff resources
Implementation Schedule:	Annually-2019
Priority (High, Moderate, Low):	Moderate

Status of Previously Adopted Mitigation Actions

Mitigation Action 1	Require a finished floor elevation certificate for all development within the Special Flood Hazard Area (SFHA) within both incorporated and unincorporated portions of the County. All elevation certificates should be submitted on an official FEMA elevation certificate. No certificate of occupancy shall be issued for any development within a defined SFHA without the submittal of the required elevation certificate.
Category:	Prevention; Property Protection
Hazard(s) Addressed:	Flood; Dam/Levee Failure
Lead Agency/Department Responsible:	Burke County Building Inspections Department; Caldwell County Building Inspections Department
Estimated Cost:	Minimal (staff time only)
Potential Funding Sources:	Existing staff and administrative resources
Implementation Schedule:	Ongoing
Priority (High, Moderate, Low):	High
2014 Status:	This process is in place. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 1 above.)

Mitigation Action 2	<p>Maintain a map information service involving the following:</p> <ol style="list-style-type: none"> a) Provide information relating to Flood Insurance Rate Maps (FIRMs) to all inquirers, including provision of information on whether a given property is located within a flood hazard area. b) Provide information regarding the flood insurance purchase requirement. c) Maintain historical and current FIRMs. d) Advertise once annually in the local newspaper. e) Provide information to inquirers about local floodplain management requirements.
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Category:	Local Plans and Regulations; Education and Awareness Programs
Hazard(s) Addressed:	Flood; Dam/Levee Failure
Lead Agency/Department Responsible:	Burke County; Caldwell County; Town of Rhodhiss
Estimated Cost:	Minimal (staff time only)
Potential Funding Sources:	Existing department and staff resources
Implementation Schedule:	Ongoing
Priority (High, Moderate, Low):	High
2014 Status:	The Town is actively involved in assisting the North Carolina Floodplain Mapping Program in achieving their goals. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 2 above.)

Mitigation Action 3	<p>Caldwell County and its municipal jurisdictions will continue to maintain all property acquired within the Special Flood Hazard Area (SFHA) as undisturbed open space in perpetuity. All parties will continue to pro-actively establish open space within the floodplain and floodway as grant funds become available to carry out this initiative.</p>
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Category:	Prevention
Hazard(s) Addressed:	Flood; Dam/Levee Failure; Wildfire
Lead Agency/Department Responsible:	Surrounding counties; Town of Rhodhiss
Estimated Cost:	To be determined on a case-by-case basis
Potential Funding Sources:	State and federal grant resources
Implementation Schedule:	Ongoing
Priority (High, Moderate, Low):	High
2014 Status:	Continuing discussions with a property owner to create a greenway along the Catawba River. The Town has purchased property on the Burke County side of Town to develop a park on the Catawba River. The Town received a PARTF grant which will help in making this happen. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 7 above.)

Mitigation Action 4	<p>The Caldwell County Building Inspections Department will provide comprehensive services regarding planning and development activities within the defined Special Flood Hazard Area (SFHA) and issues relating to the construction of disaster resistant structures. These services will include:</p> <ul style="list-style-type: none"> a) Providing site-specific flood and flood-related information on an as-needed basis. b) Maintaining a list of contractors with experience in floodproofing and retrofit techniques. c) Providing information on windproofing construction methods for new and renovated structures. d) Maintaining materials providing an overview of how to select a qualified contractor. e) Making site visits upon request to review occurrences of flooding, drainage problems, and sewer problems. If applicable, the inspector should provide one-on-one advice to the property owner. f) Providing advice and assistance regarding CRS activity 530. g) Advertising the availability of this service once annually within the local newspaper. h) Maintaining a log of all individuals assisted through this County service including all site visits.
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Category:	Prevention
Hazard(s) Addressed:	Flood; Winter Weather; Wildfire; Thunderstorms, Lightning, and Hail; Dam/Levee Failure; Tornado
Lead Agency/Department Responsible:	Primary Responsible Party: Caldwell County Building Inspections Department. Secondary Responsible Party: Caldwell County Planning and Development Department
Estimated Cost:	Minimal (staff time only)
Potential Funding Sources:	Existing department and staff resources
Implementation Schedule:	Ongoing
Priority (High, Moderate, Low):	High
2014 Status:	The Town of Rhodhiss relies on Caldwell County to implement the actions described above. Therefore, this action is not reflected in the Town's 2014 Mitigation Actions above.

Mitigation Action 5	The Caldwell County Mitigation Advisory Committee (MAC), in conjunction with all municipal jurisdictions participating in the plan update, will work on the five-year implementation of this Hazard Mitigation Plan Update. At the end of the five-year period, the County will again update the plan.
Category:	Planning
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Primary Responsible Party: Caldwell County Emergency Services. Secondary Responsible Party: Caldwell County Mitigation Advisory Committee.
Estimated Cost:	To be determined based on future scope of work for 5-year plan update
Potential Funding Sources:	Funding for annual maintenance and implementation of the hazard mitigation plan will be provided through the Caldwell County annual budget ordinance.
Implementation Schedule:	5-year interval
Priority (High, Moderate, Low):	High
2014 Status:	The Town of Rhodhiss has participated in the regionalization of the Caldwell County hazard mitigation plan and is now a participating jurisdiction in the Unifour Regional Hazard Mitigation Plan, which has taken the place of the previously planned county-level 5-year plan update.

Mitigation Action 6	Caldwell County, as well as all participating jurisdictions, including Duke Energy, will continue to support the North Carolina Office of Dam Safety efforts to monitor and inspect all dams throughout the County, as well as the State of North Carolina. The County relies on this agency to ensure that all dam facilities, both public and private, are properly maintained and stable.
Category:	Prevention
Hazard(s) Addressed:	Flood; Dam/Levee Failure
Lead Agency/Department Responsible:	Primary Responsible Party: Caldwell County Emergency Services. Secondary Responsible Party: Town of Rhodhiss.
Estimated Cost:	Minimal (staff time only)
Potential Funding Sources:	Existing department and staff resources
Implementation Schedule:	Ongoing
Priority (High, Moderate, Low):	High
2014 Status:	Ongoing. (Ongoing elements of this action are reflected in 2014 Mitigation Action 7 above.)

Mitigation Action 7	Caldwell County Emergency Management will continue to coordinate with the County Public Works Department, as well as all participating jurisdictions, regarding the monitoring of water resources statewide. When necessary, the County will institute measures to conserve water resources according to the County's Drought Management Plan.
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Category:	Prevention
Hazard(s) Addressed:	Drought
Lead Agency/Department Responsible:	Primary Responsible Party: Burke County Water Department and Caldwell County Water Department Secondary Responsible Party: Town of Rhodhiss
Estimated Cost:	Minimal (staff time only)
Potential Funding Sources:	Existing department and staff resources
Implementation Schedule:	When need arises
Priority (High, Moderate, Low):	High
2014 Status:	Complete: implemented a Water Shortage Response Plan in 2010.

Mitigation Action 8	Caldwell County, as well as all participating jurisdictions, will maintain a contract with a qualified post-disaster recovery service provider. This contract will include the provision of essential services and equipment, including generators, and will include documentation required for reimbursement from FEMA/NCEM.
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Category:	Emergency Services
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Primary Responsible Party: Caldwell County Emergency Services. Secondary Responsible Party: Town of Rhodhiss
Estimated Cost:	Minimal (staff time only)
Potential Funding Sources:	Existing department and staff resources
Implementation Schedule:	Ongoing
Priority (High, Moderate, Low):	Moderate
2014 Status:	Complete: a contract has been in place over the past 5-year period.

Mitigation Action 9	Caldwell County will assist all communities within the County, including property owners in unincorporated areas, in applying for FEMA-sponsored mitigation grant assistance for the acquisition and/or elevation of substantially damaged structures following a natural disaster.
Category:	Property Protection
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Primary Responsible Party: Caldwell County Emergency Services. Secondary Responsible Party: Elected boards of all participating jurisdictions.
Estimated Cost:	Minimal (staff time only)
Potential Funding Sources:	Existing department and staff resources
Implementation Schedule:	Ongoing
Priority (High, Moderate, Low):	Moderate
2014 Status:	Complete: the assistance was available but there was not an appropriate opportunity to elevate or acquire a flood-prone structure within the past 5-year period and no potential mitigation projects of this nature are currently identified.

Mitigation Action 10	Caldwell County Emergency Services will continue to work on the establishment of a comprehensive special needs registry. This effort will involve the cooperation of all participating jurisdictions.
Category:	Planning
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Primary Responsible Party: Caldwell County Emergency Services. Secondary Responsible Party: Town of Rhodhiss.
Estimated Cost:	Minimal (staff time only)
Potential Funding Sources:	Existing department and staff resources
Implementation Schedule:	Ongoing
Priority (High, Moderate, Low):	High
2014 Status:	Complete: the Town has assisted the County with this action over the past 5-year period and will continue to do so in the future; however, this is not considered an action item that needs to be carried over to the Town's list of 2014 Mitigation Actions above.

Mitigation Action 11	<p>In order to provide comprehensive and effective emergency response services to all Town residents, the Town of Rhodhiss will take steps to update and/or acquire the following equipment over the course of the next five years:</p> <ol style="list-style-type: none"> a) One new fire truck. b) Emergency communication equipment (hand-held radios). c) Rescue tools (per the recommendation of Caldwell County Emergency Services). d) One set of Jaws of Life (Hurst Tools). e) It should also be noted that the Town of Rhodhiss needs to rehabilitate the Town's existing fire department, or build a new facility. This effort will involve the replacement of all equipment.
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Category:	Preparedness
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Primary Responsible Party: Town of Rhodhiss Town Council. Secondary Responsible Party: Caldwell County Emergency Services.
Estimated Cost:	\$1,000,000 +
Potential Funding Sources:	State and federal grants
Implementation Schedule:	Ongoing
Priority (High, Moderate, Low):	High
2014 Status:	<p>The Town of Rhodhiss fire department has acquired the emergency communication equipment (hand-held radios). The fire department cannot perform rescues because of a lack of availability of funding to purchase needed equipment and certification in rescue would be needed. We have made some improvements in the fire department such as: partial wiring of the upstairs and main breaker box; re-flooring the downstairs area and painting it; dividing the upstairs areas into individual rooms/wiring what can be done at present. We continue to apply for federal grants to help with the purchase of a new fire truck and the state grants have helped with purchasing turn-out gear. We are replacing turn-out gear as we can afford to do so. The following will be done as monies may be acquired: a sprinkler system, insulation, finish wiring, and a phone or alarm for rescue assistance at fire department (push button alarm). (Ongoing elements of this action are reflected in 2014 Mitigation Action 4 above.)</p> <p>The Town of Rhodhiss requires additional grant management assistance to fully complete this Mitigation Action.</p>

Mitigation Action 12	The Town of Rhodhiss has several infrastructure components that are located within flood-prone areas, including two pump stations and the Town’s water treatment plant. The Town will continue to monitor these facilities, and when feasible will work to relocate these facilities to a location that is not susceptible to flooding. *It should be noted that the Town of Rhodhiss is working with the Town of Granite Falls to establish a solution whereby the existing water treatment plant may be abandoned and demolished. This effort is contingent upon grant funding.
Category:	Property Protection
Hazard(s) Addressed:	Flood; Dam/Levee Failure
Lead Agency/Department Responsible:	Primary Responsible Party: Town of Rhodhiss Town Council. Secondary Responsible Party: Town of Rhodhiss Administrative Staff.
Estimated Cost:	Over \$1.3 million
Potential Funding Sources:	Rural Center; Clean Water Management; Town of Rhodhiss; state and federal grants would be needed for future improvements.
Implementation Schedule:	Completion of de-commissioning wastewater treatment plant
Priority (High, Moderate, Low):	High
2014 Status:	Complete. Over \$1.3 million was spent to de-commission the wastewater treatment plant. The Town of Granite Falls could not handle our sewer therefore the Town of Rhodhiss is now sending the sewer to Burke County.

Mitigation Action Plan—Town of Rutherford College

2014 Mitigation Actions

Mitigation Action 1	Establish a severe weather shelter, possibly in the elementary school.
Category:	Structure and Infrastructure Projects
Hazard(s) Addressed:	Tornado; Thunderstorm; Winter Weather; Hailstorm; Lightning
Lead Agency/Department Responsible:	Burke County Emergency Management; Town of Rutherford College Town Council
Estimated Cost:	\$300,000
Potential Funding Sources:	Federal and State Grants
Implementation Schedule:	3 years
Priority (High, Moderate, Low):	High

Mitigation Action 2	Establish a post-disaster shelter.
Category:	Structure and Infrastructure Projects
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Burke County Emergency Management; Town of Rutherford College Town Council
Estimated Cost:	\$300,000
Potential Funding Sources:	Federal and State Grants
Implementation Schedule:	3 years
Priority (High, Moderate, Low):	Moderate

Mitigation Action 3	Research maintaining contracts with qualified post-disaster service companies, or prequalify and prepare regular town contractors to submit documents to FEMA for reimbursement. Evaluate post-disaster processes for green debris, white goods, and road/brush clearance.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Rutherford College Public Works Department
Estimated Cost:	None
Potential Funding Sources:	Existing staff resources
Implementation Schedule:	6 months
Priority (High, Moderate, Low):	Moderate

Mitigation Action 4	Establish a secondary water source from Lake Hickory. Project might entail forming a partnership with the Valdese Hospital, building a pump house and 3 million gallon water tank. The Town of Rutherford College owns a suitable site for a tank; it was the site of a former tank.
Category:	Structure and Infrastructure Projects
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Town of Rutherford College; Town of Valdese
Estimated Cost:	\$1.5 million
Potential Funding Sources:	Grants and tax-based funding
Implementation Schedule:	5 years
Priority (High, Moderate, Low):	Moderate

Mitigation Action 5	Create an emergency communications plan for disastrous events that destroy cell phone reception in partnership with Burke County Emergency Management and Lovelady Fire Department.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Town of Rutherford College Administration Department
Estimated Cost:	None
Potential Funding Sources:	Existing staff time
Implementation Schedule:	1 year
Priority (High, Moderate, Low):	High

Mitigation Action 6	Prepare and implement a town-wide stormwater management plan to meet federal Phase II stormwater regulations. Complete stormwater map and conduct stormwater outreach.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood; Erosion; Sinkhole
Lead Agency/Department Responsible:	Town of Rutherford College Town Council
Estimated Cost:	\$5,000
Potential Funding Sources:	Local
Implementation Schedule:	6 months
Priority (High, Moderate, Low):	High

Mitigation Action 7	Obtain short-wave radio to provide direct communication with Burke County EMS, or use existing walkie-talkies with number assigned to Burke County EMS.
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Category:	Structure and Infrastructure Projects
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Town of Rutherford College Public Works Department
Estimated Cost:	\$1,000
Potential Funding Sources:	Local
Implementation Schedule:	2014
Priority (High, Moderate, Low):	Medium

Mitigation Action 8	In cooperation with Burke County, assist in establishing a program for evaluating and improving critical services (roads, bridges, water, sewer, electricity, etc.) and critical facilities (fire, rescue, medical, etc.) to reduce risk to natural hazards.
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Category:	Local Plans and Regulations
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Town of Rutherford College Public Works Department
Estimated Cost:	N/A
Potential Funding Sources:	Local; state; federal
Implementation Schedule:	2019
Priority (High, Moderate, Low):	Moderate

Mitigation Action 9	In cooperation with Burke County, assist (as needed) in preparing a countywide stormwater management plan.
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Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Town of Rutherford College Public Works Department
Estimated Cost:	N/A
Potential Funding Sources:	Local; state
Implementation Schedule:	Revise in 2015
Priority (High, Moderate, Low):	Moderate

Status of Previously Adopted Mitigation Actions

Mitigation Action 1	Require and maintain FEMA elevation certificates for new buildings or improvements to buildings on lots including portions of the 100-year floodplain (CRS 31).
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Town of Rutherford College Planning Department
Estimated Cost:	Unspecified
Potential Funding Sources:	Local
Implementation Schedule:	Immediate
Priority (High, Moderate, Low):	Low
2014 Status:	Completed.

Mitigation Action 2	Revise/update regulatory floodplain maps (CRS 410).
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Federal Emergency Management Agency (FEMA)
Estimated Cost:	Unspecified
Potential Funding Sources:	State funding
Implementation Schedule:	As needed
Priority (High, Moderate, Low):	Low
2014 Status:	Completed.

Mitigation Action 3	Revise zoning and subdivision regulations in floodplain areas to better control future development in these hazard-susceptible areas.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Town of Rutherford College Town Council
Estimated Cost:	Unspecified
Potential Funding Sources:	Local
Implementation Schedule:	2009-2010
Priority (High, Moderate, Low):	Low
2014 Status:	Deleted from 2014 list of mitigation actions. The Town participates in the National Flood Insurance Program (NFIP) and believes this is adequate to address subdivision and zoning regulations in the floodplain. (The Town has very few properties in the floodplain.)

Mitigation Action 4	Prepare and implement a town-wide stormwater management plan to meet federal Phase II stormwater regulations. Complete stormwater map and conduct stormwater outreach.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood; Erosion; Sinkhole
Lead Agency/Department Responsible:	Town of Rutherford College Town Council
Estimated Cost:	\$5,000
Potential Funding Sources:	Local
Implementation Schedule:	6 months
Priority (High, Moderate, Low):	High
2014 Status:	Ongoing. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 6 above.)

Mitigation Action 5	Require 50-foot buffers for new development activities along the Catawba River.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	North Carolina Department of Water Quality
Estimated Cost:	Unspecified
Potential Funding Sources:	State
Implementation Schedule:	Immediate
Priority (High, Moderate, Low):	Low
2014 Status:	Completed.

Mitigation Action 6	Administer a minimum housing ordinance.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Town of Rutherford College Town Council; Burke County Building Inspections Department
Estimated Cost:	Unspecified
Potential Funding Sources:	Local
Implementation Schedule:	Ongoing
Priority (High, Moderate, Low):	Moderate
2014 Status:	Deleted from 2014 list of mitigation actions. The Town Council is not currently in favor of having a minimum housing ordinance.

Mitigation Action 7	Maintain portable backup generator for emergency power needs.
Category:	Structure and Infrastructure Projects
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Town of Rutherford College Town Council
Estimated Cost:	Unspecified
Potential Funding Sources:	Local
Implementation Schedule:	Immediate
Priority (High, Moderate, Low):	High
2014 Status:	Completed.

Mitigation Action 8	Obtain short-wave radio to provide direct communication with Burke County EMS, or use existing walkie-talkies with number assigned to Burke County EMS.
Category:	Structure and Infrastructure Projects
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Town of Rutherford College Public Works Department
Estimated Cost:	\$1,000
Potential Funding Sources:	Local
Implementation Schedule:	2014
Priority (High, Moderate, Low):	Medium
2014 Status:	Ongoing.

Mitigation Action 9	Revise subdivision regulations to require all perennial and intermittent streams be shown on subdivision plats.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Town of Rutherford College Administration Department
Estimated Cost:	Unspecified
Potential Funding Sources:	Local
Implementation Schedule:	2009-2010
Priority (High, Moderate, Low):	Medium
2014 Status:	Completed.

Mitigation Action 10	Trim trees along town power lines as needed.
Category:	Natural Systems Protection
Hazard(s) Addressed:	Winter Weather
Lead Agency/Department Responsible:	Duke Energy
Estimated Cost:	Unspecified
Potential Funding Sources:	Local
Implementation Schedule:	Immediate
Priority (High, Moderate, Low):	High
2014 Status:	Completed.

Mitigation Action Plan—Town of Sawmills

2014 Mitigation Actions

Mitigation Action 1		Increase watershed and stormwater awareness.
Category:	Education and Awareness Programs	
Hazard(s) Addressed:	Flood; Sinkhole; Erosion; Landslide	
Lead Agency/Department Responsible:	Town of Sawmills Planning Department	
Estimated Cost:	<\$1,000	
Potential Funding Sources:	Town budget	
Implementation Schedule:	3 years	
Priority (High, Moderate, Low):	Low	

Mitigation Action 2		Establish Shoreline Protection Ordinance stricter than the State’s riparian buffer and watershed regulations.
Category:	Local Plans and Regulations	
Hazard(s) Addressed:	Flood; Sinkhole; Erosion; Landslide	
Lead Agency/Department Responsible:	Caldwell County Planning and Development Department; Town of Sawmills; Town of Granite Falls; Town of Rhodhiss	
Estimated Cost:	None	
Potential Funding Sources:	Existing staff time	
Implementation Schedule:	4 years	
Priority (High, Moderate, Low):	Low	

Mitigation Action 3		Establish procedure for sounding fire department siren for tornado warnings and flash floods.
Category:	Local Plans and Regulations	
Hazard(s) Addressed:	Flood; Tornado; Thunderstorm	
Lead Agency/Department Responsible:	Town of Sawmills Volunteer Fire and Rescue Department	
Estimated Cost:	None	
Potential Funding Sources:	Existing staff time	
Implementation Schedule:	1 year	
Priority (High, Moderate, Low):	High	

Mitigation Action 4	Maintain portable backup generator for emergency power needs.
Category:	Structure and Infrastructure Projects
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Town of Sawmills Town Council
Estimated Cost:	<\$3,000
Potential Funding Sources:	Caldwell County Emergency Management
Implementation Schedule:	5 years
Priority (High, Moderate, Low):	High

Mitigation Action 5	Retrofit the Town of Sawmill’s Public Works and Sanitation Department’s existing radios to connect with Caldwell County Emergency Services.
Category:	Structure and Infrastructure Projects
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Town of Sawmills Public Works and Sanitation Department
Estimated Cost:	<\$1,000
Potential Funding Sources:	Town budget
Implementation Schedule:	1 year
Priority (High, Moderate, Low):	High

Mitigation Action 6	Send out notices in water and tax bills to promote accessible heating and cooling centers in the community (for extreme weather).
Category:	Education and Awareness Programs
Hazard(s) Addressed:	Extreme Weather
Lead Agency/Department Responsible:	Town of Sawmills Administration Department
Estimated Cost:	None
Potential Funding Sources:	Town budget
Implementation Schedule:	2 years
Priority (High, Moderate, Low):	Moderate

Mitigation Action 7	Establish “green infrastructure” program to link, manage, and expand existing parks, preserves, greenways, etc.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood; Sinkhole; Erosion; Landslide
Lead Agency/Department Responsible:	Town of Sawmills Town Council
Estimated Cost:	>\$1,000,000
Potential Funding Sources:	Parks and recreation grants; Community Development Block Grant (CDBG) sewer grants
Implementation Schedule:	4 years
Priority (High, Moderate, Low):	Low

Mitigation Action 8	Send representative (council or planning board member) to regional Water Resources Committee to bring together resources for analysis, planning, and decision-making; particularly to establish a secondary water source in case of emergency.
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Category:	Local Plans and Regulations
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Town of Sawmills Town Council
Estimated Cost:	Quarterly travel
Potential Funding Sources:	Town budget
Implementation Schedule:	2014-2019
Priority (High, Moderate, Low):	Moderate

Mitigation Action 9	Support “Firewise” class in schools, civic clubs, Town Hall, or during festivals.
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Category:	Education and Awareness Programs
Hazard(s) Addressed:	Wildfire
Lead Agency/Department Responsible:	North Carolina Forest Service; Caldwell County Emergency Management Department; Town of Sawmills Planning Department
Estimated Cost:	\$10,000
Potential Funding Sources:	Grant funding
Implementation Schedule:	2015-2019
Priority (High, Moderate, Low):	High

Mitigation Action 10	Host Weather Spotters Class at Sawmills Town Hall, to include information about lightning. Provide booklet about design and construction of storm shelters.
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Category:	Education and Awareness Programs
Hazard(s) Addressed:	Tornado; Thunderstorm
Lead Agency/Department Responsible:	Caldwell County Emergency Management Department; Town of Sawmills Planning Department
Estimated Cost:	\$2,000
Potential Funding Sources:	Emergency management budget
Implementation Schedule:	2 years
Priority (High, Moderate, Low):	Low

Mitigation Action 11	Research maintaining contracts with qualified post-disaster service companies, or prepare regular town contractors to submit documents to FEMA for reimbursement if necessary. Consider post-disaster processes for green debris, white goods, and road/brush clearance.
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Category:	Local Plans and Regulations
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Town of Sawmills Public Works and Sanitation Department
Estimated Cost:	None
Potential Funding Sources:	Existing staff resources
Implementation Schedule:	6 months-2019
Priority (High, Moderate, Low):	Moderate

Mitigation Action 12	Help to build a 100,000-gallon water tank in Sawmills or nearby as the Caldwell County Water Department builds new, larger water lines.
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Category:	Structure and Infrastructure Projects
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Caldwell County Water Department, Town of Sawmills Public Works
Estimated Cost:	\$1.5 million
Potential Funding Sources:	Grants and tax base funding
Implementation Schedule:	5 years
Priority (High, Moderate, Low):	High

Mitigation Action 13	Locate dams in Sawmills' jurisdiction; share information with Caldwell County Emergency Management.
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Category:	Local Plans and Regulations
Hazard(s) Addressed:	Dam Failure; Flood
Lead Agency/Department Responsible:	Town of Sawmills Public Works and Sanitation Department
Estimated Cost:	Existing staff time
Potential Funding Sources:	N/A
Implementation Schedule:	Immediate-2019
Priority (High, Moderate, Low):	Moderate

Mitigation Action 14	<p>In cooperation with the Caldwell County Planning and Development Department and the Caldwell County Building Inspections Department, make information regarding hazards and development regulations within floodplains available through the following:</p> <ol style="list-style-type: none"> a) Ensuring that the local library maintains information relating to flooding and flood protection. b) Provide a link on the Town’s website to FEMA resources addressing flooding and flood protection, sheltering, evacuation procedures, disaster preparedness, and post-disaster recovery.
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Category:	Education and Awareness Programs
Hazard(s) Addressed:	Flood; Winter Weather; Thunderstorm; Dam/Levee Failure; Tornado
Lead Agency/Department Responsible:	Town of Sawmills
Estimated Cost:	N/A (covered by Caldwell County)
Potential Funding Sources:	Maintain present activities under the funding available
Implementation Schedule:	Ongoing
Priority (High, Moderate, Low):	High

Mitigation Action 15	<p>In coordination with Caldwell County, the Town of Sawmills will continue to maintain all property acquired within the Special Flood Hazard Area (SFHA) as undisturbed open space in perpetuity. All parties will continue to pro-actively establish open space within the floodplain and floodway as grant funds become available to carry out this initiative.</p>
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Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood; Dam/Levee Failure; Wildfire
Lead Agency/Department Responsible:	Town of Sawmills; Caldwell County Building Inspections Department; Caldwell County Planning and Development Department
Estimated Cost:	\$250,000+
Potential Funding Sources:	Grant fund resources; hazard mitigation of Lenoir EMS Base
Implementation Schedule:	2015
Priority (High, Moderate, Low):	Low

Mitigation Action 16	<p>In coordination with Caldwell County, the Town of Sawmills will maintain a contract with a qualified post-disaster recovery service provider. This contract will include the provision of essential services and equipment, including generators, and will include documentation required for reimbursement from FEMA/NCER.</p>
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Category:	Local Plans and Regulations
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Town of Sawmills; Caldwell County Emergency Management Department
Estimated Cost:	Unspecified
Potential Funding Sources:	Existing department and staff resources
Implementation Schedule:	1-5 years
Priority (High, Moderate, Low):	Moderate

Mitigation Action 17	In coordination with the Caldwell County Emergency Management Department, the Town of Sawmills will assist with the monitoring of water resources. When necessary, the Town will cooperate with the County in instituting measures to conserve water resources according to the County's Drought Management Plan.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Drought; Wildfire
Lead Agency/Department Responsible:	Town of Sawmills; Caldwell County Water Department
Estimated Cost:	\$1.5 million (covered by Caldwell County)
Potential Funding Sources:	Grants and tax-based funding
Implementation Schedule:	2016
Priority (High, Moderate, Low):	Low

Mitigation Action 18	Cooperate with Caldwell County in the implementation and enforcement of the County's comprehensive stormwater management program.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Town of Sawmills; City of Lenoir Planning and Building Inspections Department; administrative staff of Caldwell County
Estimated Cost:	\$50,000 per year
Potential Funding Sources:	Existing department and staff resources
Implementation Schedule:	Ongoing
Priority (High, Moderate, Low):	Moderate

Status of Previously Adopted Mitigation Actions

Mitigation Action 1	City of Lenoir to administer stormwater regulations.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood; Sinkhole; Erosion; Landslide
Lead Agency/Department Responsible:	City of Lenoir Planning Department; Caldwell County; all participating jurisdictions in Caldwell County
Estimated Cost:	\$50,000
Potential Funding Sources:	Existing department and staff resources
Implementation Schedule:	Immediate
Priority (High, Moderate, Low):	High
2014 Status:	Completed.

Mitigation Action 2	Caldwell County will assist all communities within the county, including property owners in unincorporated areas, in applying for FEMA-sponsored mitigation grant assistance for the acquisition and/or elevation of substantially damaged structures following a natural disaster.
Category:	Structure and Infrastructure Projects
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Caldwell County Building Inspections Department
Estimated Cost:	\$1,200
Potential Funding Sources:	Unspecified
Implementation Schedule:	Immediate
Priority (High, Moderate, Low):	Moderate
2014 Status:	Completed.

Mitigation Action 3	Maintain a contract with a qualified post-disaster recovery service provider for essential services and equipment including generators and will include documentation required for reimbursement from FEMA/NCEM.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Town of Sawmills Public Works and Sanitation Department
Estimated Cost:	Unspecified
Potential Funding Sources:	Unspecified
Implementation Schedule:	6 months
Priority (High, Moderate, Low):	Medium
2014 Status:	Not completed. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 11 above.)

Mitigation Action 4	Monitor water resources and when necessary institute measures to conserve water through Drought Management Plan.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Drought
Lead Agency/Department Responsible:	Caldwell County Water Department
Estimated Cost:	\$1.5 million
Potential Funding Sources:	Grants and tax-based funding
Implementation Schedule:	Unspecified
Priority (High, Moderate, Low):	High
2014 Status:	Not completed. (Ongoing elements of this action are reflected in the 2014 Mitigation Actions 8 and 12 above.)

Mitigation Action 5	Support the North Carolina Office of Dam Safety; make sure dams are regularly inspected.
Category:	Structure and Infrastructure Projects
Hazard(s) Addressed:	Dam Failure; Flood
Lead Agency/Department Responsible:	North Carolina Department of Environment and Natural Resources (NCDENR) Dams Program
Estimated Cost:	Unspecified
Potential Funding Sources:	Unspecified
Implementation Schedule:	Ongoing
Priority (High, Moderate, Low):	High
2014 Status:	Partially completed. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 13 above.)

Mitigation Action 6	Continue to maintain all property acquired within the Special Flood Hazard Area (SFHA) as undisturbed open space in perpetuity. Pro-actively establish open space within the floodplain.
Category:	Natural Systems Protection
Hazard(s) Addressed:	Flood; Dam Failure; Wildfire
Lead Agency/Department Responsible:	Caldwell County Planning Department
Estimated Cost:	\$250,000+
Potential Funding Sources:	Grant funds; mitigation of Lenoir EMS Base
Implementation Schedule:	2015
Priority (High, Moderate, Low):	High
2014 Status:	Deferred. The Town of Sawmills is no longer willing to buy property in the floodplain because of costs.

Mitigation Action 7	Caldwell County Planning and Building Inspections Departments will make information regarding hazards and development regulations within floodplain available through the following: library, link on website to FEMA addressing flood protection, disaster preparedness, and post-disaster recovery.
Category:	Education and Awareness Programs
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Caldwell County Building Inspections Department
Estimated Cost:	\$1,200
Potential Funding Sources:	General Budget
Implementation Schedule:	Immediate
Priority (High, Moderate, Low):	High
2014 Status:	Completed.

Mitigation Action 8	Maintain a map information service about Flood Insurance Rate Maps (FIRMs), advertise annually in the paper, and provide information to inquirers about local floodplain management requirements.
Category:	Education and Awareness Programs
Hazard(s) Addressed:	Flood; Dam Failure
Lead Agency/Department Responsible:	Caldwell County Planning Department
Estimated Cost:	\$85,000
Potential Funding Sources:	Tax-based funding
Implementation Schedule:	Immediate
Priority (High, Moderate, Low):	High
2014 Status:	Completed.

Mitigation Action 9	Require flood elevation certificates for development within the Special Flood Hazard Area (SFHA).
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Caldwell County Building Inspections Department
Estimated Cost:	\$50,000
Potential Funding Sources:	General Budget
Implementation Schedule:	Immediate
Priority (High, Moderate, Low):	High
2014 Status:	Completed.

Mitigation Action Plan—Town of Taylorsville

2014 Mitigation Actions

Mitigation Action 1	Maintain street rights of way and ditches to prevent damage to streets and property in the event of a natural hazard occurrence.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood; Thunderstorm, Lightning, and Hail; Hurricane and Tropical Storm; Winter Weather
Lead Agency/Department Responsible:	Town of Taylorsville Public Works
Estimated Cost:	\$100,000
Potential Funding Sources:	Power bill
Implementation Schedule:	Yearly through 2019
Priority (High, Moderate, Low):	High

Mitigation Action 2	Improve drainage on Muddy Creek.
Category:	Structure and Infrastructure Projects
Hazard(s) Addressed:	Floods; Thunderstorms; Hurricanes and Tropical Storms
Lead Agency/Department Responsible:	Town of Taylorsville; North Carolina Department of Transportation (NCDOT); Alexander County
Estimated Cost:	>\$200,000
Potential Funding Sources:	State/federal grants
Implementation Schedule:	2019
Priority (High, Moderate, Low):	Moderate

Mitigation Action 3	Assist Alexander County with all mitigation actions that have a countywide impact and that benefit the Town of Taylorsville.
Category:	Multiple
Hazard(s) Addressed:	Multiple
Lead Agency/Department Responsible:	Town of Taylorsville
Estimated Cost:	As funded by the County
Potential Funding Sources:	Multiple, as identified by the County
Implementation Schedule:	Ongoing
Priority (High, Moderate, Low):	Low

Mitigation Action 4	In coordination with Alexander County, conduct outreach to the public regarding Alexander County's Community Alert System to educate them on how to obtain information both pre- and post- disaster event.
Category:	Education and Awareness Programs
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Town of Taylorsville
Estimated Cost:	Minimal (staff time only)
Potential Funding Sources:	Alexander County General Fund
Implementation Schedule:	1-2 years
Priority (High, Moderate, Low):	High

Mitigation Action 5	To establish, where feasible, additional emergency response forces, by at least 10%, that are trained, equipped and prepared to respond to a variety of emergency and disaster situations. This concept is concurred by Alexander County and the Town of Taylorsville.
Category:	Other
Hazard(s) Addressed:	Flood; Hurricane and Tropical Storm; Thunderstorm, Lightning and Hail; Tornado; Wildfire; Drought; Winter Weather
Lead Agency/Department Responsible:	Town of Taylorsville
Estimated Cost:	Minimal (staff time only)
Potential Funding Sources:	Alexander County General Fund
Implementation Schedule:	3-5 years
Priority (High, Moderate, Low):	Low

Status of Previously Adopted Mitigation Actions

Mitigation Action 1	Improve drainage on Muddy Creek.
Category:	Structure and Infrastructure Projects
Hazard(s) Addressed:	Floods; Thunderstorms; Hurricanes and Tropical Storms
Lead Agency/Department Responsible:	Town of Taylorsville; North Carolina Department of Transportation (NCDOT); Alexander County
Estimated Cost:	>\$200,000
Potential Funding Sources:	State/federal grants
Implementation Schedule:	Ongoing
Priority (High, Moderate, Low):	Moderate
2014 Status:	Not complete. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 2 above.)

Mitigation Action Plan—Unifour Regional Actions

2014 Mitigation Actions

Mitigation Action 1	Enhance local citizens' disaster preparedness through continuous outreach and education efforts in coordination with the American Red Cross and other support organizations.
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Category:	Education and Awareness Programs
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Unifour Hazard Mitigation Planning Committee
Estimated Cost:	Minimal
Potential Funding Sources:	Volunteer staff time
Implementation Schedule:	1-5 years
Priority (High, Moderate, Low):	Moderate

Mitigation Action 2	Provide coordination and facilitation support for improved information sharing with Duke Energy regarding its operational procedures for the movement of water through its hydro-electric systems on the Catawba River.
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Category:	Other
Hazard(s) Addressed:	Flood; Dam Failure
Lead Agency/Department Responsible:	Unifour Hazard Mitigation Planning Committee
Estimated Cost:	Minimal
Potential Funding Sources:	Volunteer staff time
Implementation Schedule:	1-5 years
Priority (High, Moderate, Low):	Moderate

Mitigation Action 3	Promote mutual aid agreements with counties outside the Unifour Region to augment local inspection personnel and other needed personnel after a significant hazard occurrence.
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Category:	Other
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Unifour Hazard Mitigation Planning Committee
Estimated Cost:	Minimal
Potential Funding Sources:	Volunteer staff time
Implementation Schedule:	1-5 years
Priority (High, Moderate, Low):	Moderate

Mitigation Action 4	Coordinate seasonal event information sharing, such as unified billboards during tornado or thunderstorm spring season.
Category:	Education and Awareness Programs
Hazard(s) Addressed:	All Seasonal Hazards
Lead Agency/Department Responsible:	Unifour Hazard Mitigation Planning Committee
Estimated Cost:	Minimal
Potential Funding Sources:	Volunteer staff time
Implementation Schedule:	1-5 years
Priority (High, Moderate, Low):	High

Mitigation Action 5	Establish a program for middle school and high school students in environmental science classes to create short tornado safety/awareness videos.
Category:	Education and Awareness Programs
Hazard(s) Addressed:	Tornado
Lead Agency/Department Responsible:	Unifour Hazard Mitigation Planning Committee
Estimated Cost:	Minimal
Potential Funding Sources:	Volunteer staff time
Implementation Schedule:	1-5 years
Priority (High, Moderate, Low):	Low

Status of Previously Adopted Mitigation Actions

There are no previously adopted mitigation actions for the Unifour Region.

Mitigation Action Plan—Town of Valdese

2014 Mitigation Actions

Mitigation Action 1	Promote the advancement of early warning to the public by providing All Hazard Weather Alert radios at little or no cost to the general public and ensuring the placement of the radios in all schools, daycares, churches, etc.
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Category:	Education and Awareness Programs
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Town of Valdese Fire Department; Burke County Emergency Management
Estimated Cost:	To be determined
Potential Funding Sources:	Hazard Mitigation Assistance (HMA) grants; Homeland Security grants; emergency management grants; local funding
Implementation Schedule:	1-3 years
Priority (High, Moderate, Low):	High

Mitigation Action 2	Conduct outreach to educate the public on pre-disaster preparation targeting schools, churches, civic groups, etc.
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Category:	Education and Awareness Programs
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Town of Valdese Fire Department
Estimated Cost:	To be determined
Potential Funding Sources:	Hazard Mitigation Assistance (HMA) grants; Homeland Security grants; emergency management grants; local funding
Implementation Schedule:	1-3 years
Priority (High, Moderate, Low):	High

Mitigation Action 3	Install quick-connect emergency generator transfer switch at Town of Valdese Water Department Pump Station.
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Category:	Structure and Infrastructure Projects
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Town of Valdese Water Department
Estimated Cost:	\$90,000
Potential Funding Sources:	Hazard Mitigation Assistance (HMA) grants; Homeland Security grants; emergency management grants; local funding
Implementation Schedule:	1-5 years
Priority (High, Moderate, Low):	High

Mitigation Action 4	Maintain routine inspection and clearing of storm drainage system.
Category:	Structure and Infrastructure Projects
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Town of Valdese Public Works Department
Estimated Cost:	Minimal (staff time only)
Potential Funding Sources:	Town of Valdese General Fund
Implementation Schedule:	2019
Priority (High, Moderate, Low):	High

Mitigation Action 5	Maintain compliance with the National Flood Insurance Program (NFIP) by: a) Providing related training periodically for Town Planning Director and Town Emergency Management Coordinator. b) Encouraging or requiring certain staff positions to obtain Certified Floodplain Manager (CFM) certification.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Town of Valdese Planning Department
Estimated Cost:	To be determined
Potential Funding Sources:	Town of Valdese General Fund
Implementation Schedule:	1-3 years
Priority (High, Moderate, Low):	Moderate

Mitigation Action 6	In cooperation with Burke County, assist in establishing a program for evaluating and improving critical services (roads, bridges, water, sewer, electricity, etc.) and critical facilities (fire, rescue, medical, etc.) to reduce risk to natural hazards.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Town of Valdese Public Works Department
Estimated Cost:	N/A
Potential Funding Sources:	Local; state; federal
Implementation Schedule:	2019
Priority (High, Moderate, Low):	Moderate

Mitigation Action 7	In cooperation with Burke County, assist (as needed) in preparing a countywide stormwater management plan.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Town of Valdese Public Works Department
Estimated Cost:	N/A
Potential Funding Sources:	Local; state
Implementation Schedule:	Revise in 2015
Priority (High, Moderate, Low):	Moderate

Status of Previously Adopted Mitigation Actions

Mitigation Action 1	Develop a Comprehensive Land Use Plan.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Town of Valdese Planning Department
Estimated Cost:	Minimal (staff time only)
Potential Funding Sources:	Town of Valdese General Fund
Implementation Schedule:	By December 2013
Priority (High, Moderate, Low):	High
2014 Status:	Completed as of December 2013.

Mitigation Action 2	Develop an open space plan, target properties for acquisition, and fund an acquisition program.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	Flood
Lead Agency/Department Responsible:	Town of Valdese Planning Department
Estimated Cost:	Unfunded
Potential Funding Sources:	Undetermined
Implementation Schedule:	1-5 years
Priority (High, Moderate, Low):	Moderate
2014 Status:	Deferred due to a lack of funding.

Mitigation Action 3		Implement drainage system management project.
Category:	Structure and Infrastructure Projects	
Hazard(s) Addressed:	Flood	
Lead Agency/Department Responsible:	Town of Valdese Public Works Department	
Estimated Cost:	Minimal (staff time only)	
Potential Funding Sources:	Town of Valdese General Fund	
Implementation Schedule:	Ongoing	
Priority (High, Moderate, Low):	High	
2014 Status:	This project is addressed in the Town of Valdese Storm Water and Watershed Ordinances and will be ongoing as part of that mechanism. It is also related to the 2014 Mitigation Action 4 above.	

Mitigation Action 4		Implement an early warning system.
Category:	Education and Awareness Programs	
Hazard(s) Addressed:	All Hazards	
Lead Agency/Department Responsible:	Burke County Emergency Management; Town of Valdese Fire Department	
Estimated Cost:	To be determined	
Potential Funding Sources:	Hazard Mitigation Assistance (HMA) grants; Homeland Security grants; emergency management grants; local funding	
Implementation Schedule:	Ongoing	
Priority (High, Moderate, Low):	High	
2014 Status:	Ongoing. (Ongoing elements of this action are reflected in the 2014 Mitigation Action 1 above.)	

Mitigation Action 5		Establishment of reserve fund for relocating damaged infrastructure.
Category:	Structure and Infrastructure Projects	
Hazard(s) Addressed:	Flood	
Lead Agency/Department Responsible:	Town of Valdese Administration	
Estimated Cost:	To be determined	
Potential Funding Sources:	Undetermined	
Implementation Schedule:	1-5 years	
Priority (High, Moderate, Low):	Moderate	
2014 Status:	Deferred due to lack of funding.	

Mitigation Action 6	Improve Hazard Warning and Response Plan.
Category:	Local Plans and Regulations
Hazard(s) Addressed:	All Hazards
Lead Agency/Department Responsible:	Burke County Emergency Management; Town of Valdese Fire Department
Estimated Cost:	N/A
Potential Funding Sources:	Local; state; federal
Implementation Schedule:	Continuous review
Priority (High, Moderate, Low):	High
2014 Status:	Completed. Although this action is technically ongoing because a continuous review cycle has been put into place, there is no need to identify this as a 2014 Mitigation Action.