

Mitigation Action Plan—City of Graham

The Mitigation Action Plan for the City of Graham is divided into two subsections:

- 7.1 Status of Previously Adopted Mitigation Actions
- 7.2 New 2015 Mitigation Actions

7.1 Status of Previously Adopted Mitigation Actions

This subsection contains all previously adopted mitigation actions for the City of Graham.

The “2015 Status” field provides a one-word description of the status of the mitigation action. Options for this field are:

- Completed
- Completed/To Be Continued
- Partially Completed/In Progress
- Deferred
- Deleted

The “Narrative Explanation” field provides a brief (two to three sentence) written explanation of the status of the action. As examples:

- If the status is “Completed” or “Completed/To Be Continued,” the narrative explanation includes specific dates or other pertinent details providing documentation of the action’s completion. Where applicable, this also includes any notes describing how successful the action has been.
- If the status is “Partially Completed/In Progress,” the narrative explanation will explain where the project is in terms of completion and if there are any barriers to implementation, such as lack of funding.
- If the status is “Deferred” or “Deleted,” the narrative explanation will explain why the action has not been started or why the jurisdiction desires to abandon the action. An example of the type of response provided here could be, “Altered conditions due to disaster events and recovery priorities have postponed or permanently delayed the implementation of the action.” Any deleted actions will remain in this status update section until the next plan update. At that time, the action will be completely removed from the Plan.

| | |
|-------------------------------------|---|
| Mitigation Action 1 | Encourage builders, developers, and architects to become familiar with the National Flood Insurance Program (NFIP) land use and building standards by attending annual workshops presented by the North Carolina Division of Emergency Management (NCEM). This can be accomplished by creating a mailing list and providing it to NCEM to use for its announcements. This task can be further supported by distributing copies of NCEM's announcements from the Alamance County Inspections Department when builders and developers apply for permits. |
| Goal: ¹ | #6 |
| Category: | Education and Awareness Programs |
| Hazard(s) Addressed: | Flood |
| Lead Agency/Department Responsible: | City of Graham |
| Estimated Cost: | N/A |
| Potential Funding Sources: | Staff time |
| Implementation Schedule: | Over the next 5 years |
| Priority (High, Moderate, Low): | Moderate |
| 2015 Status: | Completed/To Be Continued |
| Narrative Explanation: | Both Alamance County and the City of Graham work together to ensure that developers are up-to-date when applying for permits and by attending workshops. |

| | |
|-------------------------------------|---|
| Mitigation Action 2 | Encourage citizens and businesses/industries to develop emergency preparedness plans. |
| Goal: | #1 |
| Category: | Local Plans and Regulations |
| Hazard(s) Addressed: | All |
| Lead Agency/Department Responsible: | City of Graham |
| Estimated Cost: | N/A |
| Potential Funding Sources: | Staff time |
| Implementation Schedule: | Next 12-24 months |
| Priority (High, Moderate, Low): | Moderate |
| 2015 Status: | In Progress |
| Narrative Explanation: | The City will continue to work with Alamance County EM to promote emergency preparedness plans with its citizens as well as businesses and other stakeholders. |

¹ The previously adopted mitigation actions for the City of Graham did not originally correlate with the new regional mitigation goals developed as part of the 2015 plan update because the 2015 goals did not exist at the time of the last plan update. However, the new regional goals have been integrated with the previously adopted mitigation actions to bring them into the context of the new regional plan where applicable.

| | |
|-------------------------------------|---|
| Mitigation Action 3 | Encourage homeowners to review insurance policies as part of an overall family disaster plan. |
| Goal: | #7 |
| Category: | Education and Awareness Programs |
| Hazard(s) Addressed: | All |
| Lead Agency/Department Responsible: | City of Graham |
| Estimated Cost: | N/A |
| Potential Funding Sources: | Staff time |
| Implementation Schedule: | Over the next 5 years |
| Priority (High, Moderate, Low): | Moderate |
| 2015 Status: | In Progress |
| Narrative Explanation: | The City is working on an Emergency Preparedness page in conjunction with the County to be put on the City website to help inform local residents. |

| | |
|-------------------------------------|---|
| Mitigation Action 4 | Increase awareness of the natural hazards potential to local officials, the general public, and private industry. |
| Goal: | #7 |
| Category: | Education and Awareness Programs |
| Hazard(s) Addressed: | All |
| Lead Agency/Department Responsible: | City of Graham |
| Estimated Cost: | N/A |
| Potential Funding Sources: | Staff time |
| Implementation Schedule: | Next 12-24 months |
| Priority (High, Moderate, Low): | Moderate |
| 2015 Status: | In Progress |
| Narrative Explanation: | This can be incorporated into the City's website and a link can be added to the County's Emergency Preparedness webpage. |

| | |
|-------------------------------------|---|
| Mitigation Action 5 | Maintain hazard mitigation plan and floodplain information on the County website (www.alamance-nc.com). |
| Goal: | #6; #7 |
| Category: | Education and Awareness Programs |
| Hazard(s) Addressed: | All |
| Lead Agency/Department Responsible: | City of Graham |
| Estimated Cost: | N/A |
| Potential Funding Sources: | Staff time |
| Implementation Schedule: | Over the next 5 years |
| Priority (High, Moderate, Low): | Moderate |
| 2015 Status: | Completed/To Be Continued |
| Narrative Explanation: | The City maintains information on the County website concerning the Hazard Mitigation Plan, NFIP, etc. |

| | |
|-------------------------------------|--|
| Mitigation Action 6 | Maintain shelter agreements with the American Red Cross. |
| Goal: | #1; #5 |
| Category: | Local Plans and Regulations |
| Hazard(s) Addressed: | All |
| Lead Agency/Department Responsible: | Alamance County Emergency Management |
| Estimated Cost: | Unknown |
| Potential Funding Sources: | General fund |
| Implementation Schedule: | Over the next 5 years |
| Priority (High, Moderate, Low): | Moderate |
| 2015 Status: | Completed |
| Narrative Explanation: | The City of Graham works with Alamance County EM in maintaining an up-to-date shelter agreement with the local Red Cross. |

| | |
|-------------------------------------|---|
| Mitigation Action 7 | Review methods of school construction to ensure that all new schools are constructed to the maximum cost feasible standards of wind resistance, flood resistance, and access so that they can be used as shelters for evacuees during and after natural hazard events. |
| Goal: | #4 |
| Category: | Local Plans and Regulations |
| Hazard(s) Addressed: | All |
| Lead Agency/Department Responsible: | City of Graham |
| Estimated Cost: | N/A |
| Potential Funding Sources: | General fund |
| Implementation Schedule: | Over the next 5 years |
| Priority (High, Moderate, Low): | Moderate |
| 2015 Status: | Completed/To Be Continued |
| Narrative Explanation: | The City of Graham Planning Department reviews plans for all new and existing structures for this. |

| | |
|-------------------------------------|--|
| Mitigation Action 8 | Review the subdivision regulations and make appropriate changes to encourage alternatives to placing lots in flood-prone areas and to minimize imperious surface coverings, if necessary. |
| Goal: | #1 |
| Category: | Local Plans and Regulations |
| Hazard(s) Addressed: | Flood |
| Lead Agency/Department Responsible: | City of Graham |
| Estimated Cost: | N/A |
| Potential Funding Sources: | General fund |
| Implementation Schedule: | Over the next 5 years |
| Priority (High, Moderate, Low): | Moderate |
| 2015 Status: | Completed/To Be Continued |
| Narrative Explanation: | The City has adopted the Flood Damage Prevention Ordinance, Phase II NPDES Stormwater Regulations, and Jordan Lake Riparian Buffer Ordinance. |

| | |
|-------------------------------------|---|
| Mitigation Action 9 | Discourage the public and developers from developing property in flood zones. |
| Goal: | #1; #6 |
| Category: | Local Plans and Regulations; Education and Awareness Programs |
| Hazard(s) Addressed: | Flood |
| Lead Agency/Department Responsible: | City of Graham |
| Estimated Cost: | N/A |
| Potential Funding Sources: | General fund |
| Implementation Schedule: | Over the next 5 years |
| Priority (High, Moderate, Low): | Moderate |
| 2015 Status: | Completed/To Be Continued |
| Narrative Explanation: | Implemented through working closely with Alamance County Planning Department and review process. |

| | |
|-------------------------------------|---|
| Mitigation Action 10 | Consider adopting a policy prohibiting the development of critical public facilities in the 100-year floodplain in cases where viable alternatives exist. Presently, most critical facilities located in the floodplain are waste pump stations because they must be located at low elevations because they handle gravity flowing sewage. |
| Goal: | #1 |
| Category: | Local Plans and Regulations |
| Hazard(s) Addressed: | Flood |
| Lead Agency/Department Responsible: | City of Graham Public Works Department |
| Estimated Cost: | N/A |
| Potential Funding Sources: | General fund |
| Implementation Schedule: | Over the next 5 years |
| Priority (High, Moderate, Low): | Moderate |
| 2015 Status: | In Progress |
| Narrative Explanation: | The City works alongside the County to coordinate an inventory for all public facilities and identify the ones that are within the 100-year floodplain. |

| | |
|-------------------------------------|---|
| Mitigation Action 11 | Consider expanding the County's Geographic Information System (GIS) capabilities to include maintaining Elevation Certificates in a computer database. |
| Goal: | #1 |
| Category: | Local Plans and Regulations |
| Hazard(s) Addressed: | Flood |
| Lead Agency/Department Responsible: | Alamance County GIS Department |
| Estimated Cost: | N/A |
| Potential Funding Sources: | General fund |
| Implementation Schedule: | In Progress |
| Priority (High, Moderate, Low): | Moderate |
| 2015 Status: | Completed/To Be Continued |
| Narrative Explanation: | The City will continue to work with Alamance County GIS on maintaining this. |

| | |
|-------------------------------------|---|
| Mitigation Action 12 | Continue City of Graham's participation in the National Flood Insurance Program (NFIP) so citizens are eligible for flood insurance. |
| Goal: | #1 |
| Category: | Local Plans and Regulations |
| Hazard(s) Addressed: | Flood |
| Lead Agency/Department Responsible: | City of Graham |
| Estimated Cost: | N/A |
| Potential Funding Sources: | Staff time |
| Implementation Schedule: | Over the next 5 years |
| Priority (High, Moderate, Low): | Moderate |
| 2015 Status: | Completed/To Be Continued |
| Narrative Explanation: | The City of Graham will continue participation so its citizens are eligible for flood insurance. |

| | |
|-------------------------------------|--|
| Mitigation Action 13 | Develop specific regulations that prohibit dumping in the county's watersheds. |
| Goal: | #1 |
| Category: | Local Plans and Regulations |
| Hazard(s) Addressed: | Flood |
| Lead Agency/Department Responsible: | Alamance County; City of Graham |
| Estimated Cost: | N/A |
| Potential Funding Sources: | Staff time |
| Implementation Schedule: | Over the next 5 years |
| Priority (High, Moderate, Low): | Moderate |
| 2015 Status: | Completed/To Be Continued |
| Narrative Explanation: | The City of Graham follows the County's lead in strictly enforcing any regulations/laws that pertain to any illegal dumping whatsoever into the county waterways/sheds. |

| | |
|-------------------------------------|--|
| Mitigation Action 14 | Maintain documents about flood insurance, flood protection, floodplain management, and natural and beneficial functions of floodplains at the local libraries and government offices. |
| Goal: | #1; #6; #7 |
| Category: | Education and Awareness Programs |
| Hazard(s) Addressed: | Flood |
| Lead Agency/Department Responsible: | City of Graham |
| Estimated Cost: | N/A |
| Potential Funding Sources: | General fund |
| Implementation Schedule: | Over the next 5 years |
| Priority (High, Moderate, Low): | Moderate |
| 2015 Status: | Completed/To Be Continued |
| Narrative Explanation: | The City provides information to its citizens at the local Town Hall on documentation on flooding, etc. |

| | |
|-------------------------------------|---|
| Mitigation Action 15 | Maintain GIS system at www.alamance-nc.com. From this site anyone from a private citizen, builder, insurance company, etc. can see if a property is located in the 1-percent-annual-chance (100-year) floodplain. |
| Goal: | #1; #6; #7 |
| Category: | Education and Awareness Programs |
| Hazard(s) Addressed: | Flood |
| Lead Agency/Department Responsible: | Alamance County GIS Department; City of Graham |
| Estimated Cost: | Unknown |
| Potential Funding Sources: | County general fund |
| Implementation Schedule: | Over the next 5 years |
| Priority (High, Moderate, Low): | Moderate |
| 2015 Status: | Completed/To Be Continued |
| Narrative Explanation: | The County GIS website maintains all information pertaining to The City of Graham and its community. |

| | |
|-------------------------------------|--|
| Mitigation Action 16 | Monitor recreational facilities located in the floodplain and evaluate flood resistance of county structures. |
| Goal: | #4 |
| Category: | Structure and Infrastructure Projects |
| Hazard(s) Addressed: | Flood |
| Lead Agency/Department Responsible: | City of Graham Public Works Department |
| Estimated Cost: | N/A |
| Potential Funding Sources: | Staff time |
| Implementation Schedule: | Over the next 5 years |
| Priority (High, Moderate, Low): | Moderate |
| 2015 Status: | Completed/To Be Continued |
| Narrative Explanation: | The Town's Public Works Department will continue to monitor this. |

| | |
|-------------------------------------|--|
| Mitigation Action 17 | Monitor reservoirs, lakes, and streams for potential flooding problems and note any unexpected flooding issues. |
| Goal: | #1 |
| Category: | Local Plans and Regulations |
| Hazard(s) Addressed: | Flood |
| Lead Agency/Department Responsible: | City of Graham/Alamance County Emergency Management |
| Estimated Cost: | N/A |
| Potential Funding Sources: | General fund |
| Implementation Schedule: | Over the next 5 years |
| Priority (High, Moderate, Low): | Moderate |
| 2015 Status: | Completed/To Be Continued |
| Narrative Explanation: | The City of Graham along with Alamance County EM monitors lakes, reservoirs, rivers, etc. as it pertains to any possibilities of unexpected flooding. |

| | |
|-------------------------------------|--|
| Mitigation Action 18 | Put a weather alert radio in each school, day care, nursing home, rest home, and government building. |
| Goal: | #6 |
| Category: | Education and Awareness Programs |
| Hazard(s) Addressed: | All |
| Lead Agency/Department Responsible: | City of Graham |
| Estimated Cost: | None |
| Potential Funding Sources: | N/A |
| Implementation Schedule: | Over the next 5 years |
| Priority (High, Moderate, Low): | Moderate |
| 2015 Status: | Completed/To Be Continued |
| Narrative Explanation: | The City of Graham participates with Alamance County EM in providing weather alert radios for each school, business, etc. |

| | |
|-------------------------------------|--|
| Mitigation Action 19 | Review all fire districts coverage to ensure that there are adequate quantities of water for firefighting purposes and that all water points are maintained on a regular basis. |
| Goal: | #1 |
| Category: | Local Plans and Regulations |
| Hazard(s) Addressed: | Fire/Wildfire |
| Lead Agency/Department Responsible: | City of Graham Fire Department |
| Estimated Cost: | N/A |
| Potential Funding Sources: | Staff time |
| Implementation Schedule: | Over the next 5 years |
| Priority (High, Moderate, Low): | Moderate |
| 2015 Status: | Completed/To Be Continued |
| Narrative Explanation: | The City of Graham Fire Department in conjunction with Alamance County Fire Marshal's Office conducts regular reviews on all ISO requirements for maintaining adequate water for firefighting purposes. |

| | |
|-------------------------------------|---|
| Mitigation Action 20 | Meet annually with State Forester for Alamance County to improve coordination of wildfire control and response. |
| Goal: | #3 |
| Category: | Education and Awareness Programs; Natural Systems Protection |
| Hazard(s) Addressed: | Wildfire |
| Lead Agency/Department Responsible: | City of Graham |
| Estimated Cost: | None |
| Potential Funding Sources: | None |
| Implementation Schedule: | Over the next 5 years |
| Priority (High, Moderate, Low): | Moderate |
| 2015 Status: | Completed/To Be Continued |
| Narrative Explanation: | The City of Graham Fire Department meets annually at its local Emergency Services Association meeting with the local State Forester and reviews strategies for wildfire response dependent on local weather predictions. |

| | |
|-------------------------------------|--|
| Mitigation Action 21 | Coordinate with the North Carolina Department of Transportation (NCDOT) to maintain adequate and effective snow and ice removal plans by the towns/cities and NCDOT. "Adequate" means that all major thoroughfares are cleared and remain clear within 12 hours of last snowfall. |
| Goal: | #1 |
| Category: | Local Plans and Regulations |
| Hazard(s) Addressed: | Winter Weather |
| Lead Agency/Department Responsible: | City of Graham |
| Estimated Cost: | Unknown |
| Potential Funding Sources: | General fund |
| Implementation Schedule: | Over the next 5 years |
| Priority (High, Moderate, Low): | Moderate |
| 2015 Status: | Completed/To Be Continued |
| Narrative Explanation: | The City's Utility Department works in conjunction with NCDOT in providing snow removal to all its major roads within 12 hours of last snowfall. |

7.2 New 2015 Mitigation Actions

This subsection contains the new mitigation actions for the City of Graham for the 2015-2020 planning cycle. These actions are in addition to any actions that are ongoing from the previous list of mitigation items.

| Mitigation Action 1 | |
|-------------------------------------|--|
| Goal: | |
| Category: | |
| Hazard(s) Addressed: | |
| Lead Agency/Department Responsible: | |
| Estimated Cost: | |
| Potential Funding Sources: | |
| Implementation Schedule: | |
| Priority (High, Moderate, Low): | |

| Mitigation Action 2 | |
|-------------------------------------|--|
| Goal: | |
| Category: | |
| Hazard(s) Addressed: | |
| Lead Agency/Department Responsible: | |
| Estimated Cost: | |
| Potential Funding Sources: | |
| Implementation Schedule: | |
| Priority (High, Moderate, Low): | |

| Mitigation Action 3 | |
|-------------------------------------|--|
| Goal: | |
| Category: | |
| Hazard(s) Addressed: | |
| Lead Agency/Department Responsible: | |
| Estimated Cost: | |
| Potential Funding Sources: | |
| Implementation Schedule: | |
| Priority (High, Moderate, Low): | |