

# 6. Mitigation Strategy

This section of the Fulton County Hazard Mitigation Plan (HMP) identifies the goals, objectives, actions, and mitigation action plan for mitigating against the impacts of hazards.

**Goals** are general guidelines that explain what you want to achieve. Goals are usually expressed as broad policy statements representing desired long-term results.

**Objectives** describe strategies or implementation steps to attain the identified goals. Objectives are more specific statements than goals; the described steps are usually measurable and can have a defined completion date.

**Actions** provide more detailed descriptions of specific work tasks to help a community achieve the goals and objectives. For each objective statement, there are alternatives for mitigation actions that must be evaluated to determine the best choices for each situation (see Section 3: Alternative Mitigation Actions).

**The Mitigation Action Plan** includes a listing and description of the preferred mitigation actions and the strategy for implementation (e.g., who is responsible, how will they proceed, when should action be initiated and/or completed, etc.).

## 6.1. *Update Process Summary*

The goals and objectives listed in the HMP were first examined during the five-year plan review held as part of the Kick-off Meeting. During this review, the Steering Committee members were afforded the opportunity to comment on the goals, objectives, and actions that were listed in the existing HMP. In addition, throughout the course of the plan update, the HMP was posted on the County's Web site. All correspondence that was distributed to the municipalities referenced the Web site and welcomed comments on the HMP to the County Emergency Management Agency or Planning Commission, or to Delta.

On November 9, 2009, the Steering Committee hosted a Mitigation Solutions Workshop, which was attended by several County and municipal representatives. The purpose of this workshop was to provide another opportunity to review the current goals, objectives, and actions listed in the HMP, and to determine what the revised HMP's goals, objectives, and actions would be. The goals, objectives, and mitigation techniques to be considered in the document were identified. Meeting minutes are provided in Appendix B. The Steering Committee then used the outcomes from the workshop to identify and prioritize the final mitigation actions that would be included in the HMP.

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The following table shows the disposition of the mitigation actions listed in the existing HMP:

**Table 28: Disposition of Existing Mitigation Actions**

Item	Disposition	Comments
Truck bypass between US 30 and PA 16	Deleted	Out of County's control. PennDOT will not construct a new road for this purpose.
Firewise programs	Deleted	Considered by Steering Committee to be of low priority
Timber Ridge Road, Great Cove Road (US 522) intersection	Deferred to 1.C.1	Listed in 12-year Plan for completion in 2012
Limited access on US 522	Deleted	Infeasible due to current development and permitting requirements.
Dry hydrants on PA 655	Deferred to 3.C.1	Lack of funding prevented implementation.
Johnstons Drive Project	Deferred to 1.C.3	Lack of funding prevented implementation.
Sipes Mill Road and Palmer Road intersection	Deferred to 1.C.2	Lack of funding prevented implementation.
Creek Road fording	Deferred to 1.C.4	Lack of funding prevented implementation.
Buck Road bridge area flooding	Completed	

## 6.2. Mitigation Goals and Objectives

### 6.2.1. Goals

The Steering Committee identified the following goals for hazard mitigation over the next five years:

- Prevent hazards from impacting the community.
- Protect the people, property, and environment in hazard areas.
- Maintain and enhance emergency services capabilities in the community.
- Protect natural resources within the hazard areas.
- Ensure that stakeholder groups have necessary information to mitigate against hazard impacts.

### 6.2.2. Objectives

The goals in Section 6.2.1 were used to develop objectives. These objectives addressed in more specific terms the results of the vulnerability assessment and reflected the nature of what can be mitigated for the identified hazards, as well as existing limitations in data and information. These draft objectives were presented to the Steering Committee for review and comment, and are listed below.

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### **Goal 1: Prevent hazards from impacting the community.**

- Objective 1.A*      *Work with the municipalities to create and/or update land use regulations (e.g., zoning, subdivision, and land development).<sup>6</sup>*
- Objective 1.B*      *Complete and/or update stormwater management plans for all the watersheds in the County.*
- Objective 1.C*      *Address areas of roadways that are vulnerable to hazard impacts.*

### **Goal 2: Protect the people, property, and environment in hazard areas.**

- Objective 2.A*      *Examine property protection measures and their applicability to the community.<sup>6</sup>*
- Objective 2.B*      *Identify hazard areas in which property protection measures would be most effective.*

### **Goal 3: Maintain and enhance emergency services capabilities in the community.**

- Objective 3.A*      *Ensure adequate communications capabilities among emergency response organizations.*
- Objective 3.B*      *Continue to train municipal Emergency Management Coordinators on hazard protection and response.*
- Objective 3.C*      *Ensure adequate water supply to fight urban and wildland fires.*

### **Goal 4: Protect natural resources within the hazard areas.**

- Objective 4.A*      *Continue working with the Conservation District to ensure that the County's natural resources are protected.*
- Objective 4.B*      *Maintain environmental education programs that the conservation and extension offices conduct, and perhaps create new ones.*

### **Goal 5: Ensure that stakeholder groups have necessary information to mitigate against hazard impacts.**

- Objective 5.A*      *Continue StormReady program participation.*
- Objective 5.B*      *Update and maintain the County Web site with current information from all departments.*
- Objective 5.C*      *Maintain the linkage between the County GIS and tax assessment records to obtain information on condition, number of stories, and age of construction.*

<sup>6</sup> This objective and its actions relate to continued compliance with the National Flood Insurance Program (NFIP).

### 6.3. *Identification and Analysis of Mitigation Techniques*

This section includes an overview of alternative mitigation actions based on the goals and draft objectives identified in Section 6.2. There are six general techniques to reducing hazard risks:

- Prevention
- Property protection
- Emergency services measures
- Structural projects
- Natural resource protection
- Public education/awareness programs

**Prevention** measures keep problems from getting started or getting worse. The use of known hazard areas, like floodplains for example, can be limited through planning, land acquisition, or regulation. These activities are usually administered by building, zoning, planning, and/or code enforcement officials, and include the following:

- Planning and zoning
- Open space preservation
- Building codes and enforcement
- Stormwater management
- Drainage system maintenance

**Property Protection** measures are those actions that go directly to permanently getting people, property, and businesses out of unsafe areas where, in terms of wise disaster planning, they should not have been in the first place.

The first of these measures is property acquisition: public procurement and management of lands that are vulnerable to damage from hazards. For example, flood-damaged homes have been purchased by municipalities (using state, federal, and local funds) and removed from flood-prone areas (by demolition or relocation). The acquired land then becomes public property that can only be used as “open space” in the future. Open space use means that future development of the site is restricted to low-impact uses like parks, playing fields, gravel parking lots, or agriculture – no permanent or enclosed structures.

Relocation of at-risk structures also achieves the same result as acquisition. The home or business is moved to a safer location, but it remains the property of the individual owner while the original site is purchased and maintained by the local municipality.

Elevation of structures can be an effective in-place mitigation for some flood-threatened homes. By raising the height of the structure’s living area above flood levels, damage and threat to life can be reduced. Retrofitting of homes is another in-place damage reduction method. Utilities, services, systems, and appliances in some homes can be raised above flood levels.

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Construction techniques to improve structural resistance to high wind or heavy snow accumulation can be incorporated into new homes or retrofitted into existing structures.

Private home and business insurance policies and participation in the National Flood Insurance Program can also reduce uninsured losses to properties.

**Emergency Services Measures** are taken during a disaster to minimize its impact. The following measures are the responsibility of municipal or County emergency management staff, operators of major and critical facilities, and other local emergency service organizations:

- Alert warning systems
- Monitoring systems
- Emergency response planning
- Evacuation
- Critical facilities protection
- Preservation of health and safety

**Structural Projects** are usually designed by engineers and managed and maintained by public works staffs. They are designed to reduce or redirect the impact of natural disasters (especially floods) away from at-risk population areas. The following are examples:

- Reservoirs
- Levees and floodwalls
- Diversions
- Channel modifications (i.e., dredging)
- Storm sewers

**Natural Resource Protection** preserves or restores natural areas or their natural functions. Such measures are usually implemented by park and recreation organizations, conservation agencies, or wildlife groups. They include the following:

- Wetland protection
- Best management practices
- Erosion and sediment control
- Riverine protection

**Public Education/Awareness Programs** advise property owners, potential property owners, and others of hazards and ways to protect people and property from them. They are usually implemented by a public information office and can include the following:

- Flood maps and data
- Library resources
- Outreach projects

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- Technical assistance
- Real estate disclosure information
- Environmental education programs

The participants of the Mitigation Solutions Workshop and the Steering Committee identified actions that relate to the techniques indicated in Table 29 for each high- and moderate-risk hazard.

**Table 29: Mitigation Technique Matrix**

<i>Mitigation Technique Matrix</i>				
<i>Mitigation Technique</i>	<i>High- and Moderate-Risk Hazards</i>			
	Flood, Flash Flood, and Ice Jams	Environmental Hazards	Transportation Hazards	Severe Wind Storms
<i>Prevention</i>	X	X	X	X
<i>Property Protection</i>	X			
<i>Emergency Services</i>	X	X	X	X
<i>Structural Projects</i>	X		X	
<i>Natural Resource Protection</i>	X			
<i>Public Education / Awareness</i>	X	X	X	X

### 6.4. Mitigation Action Plan

#### 6.4.1. Identification of Mitigation Actions

The following table presents the set of Mitigation Actions for each goal and objective identified by the Steering Committee or municipalities.

**Table 30: Mitigation Actions for Each Goal and Objective**

<i>ID</i>	<i>Goal</i>	<i>Objective</i>	<i>Action</i>
1	Prevent hazards from impacting the community.		
	1.A	<i>Work with the municipalities to create and/or update land use regulations (e.g., zoning, subdivision, and land development).</i>	
		1.A.1	Conduct workshops and training for municipal officials on the benefits of land use regulations.
1.B	<i>Complete and/or update stormwater management plans for all the watersheds in the County.</i>		

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ID	Goal	Objective	Action
		1.B.1	Create and maintain stormwater management plans for the County's watersheds.
	1.C	<i>Address areas of roadways that are vulnerable to hazard impacts.</i>	
		1.C.1	Redesign the Timber Ridge Road, Great Cove Road (US-522) intersection to provide adequate sight distance for motorists turning from Timber Ridge Road.
		1.C.2	Lower and slope the road bank at the intersection of Sipes Mill Road (SR 4001) and Palmer Road (T-383) to increase visibility when entering Sipes Mill Road.
		1.C.3	Replace three tiles on Johnstons Drive with one squash tile.
		1.C.4	Construct a bridge on Creek Road (T-388) in Licking Creek Township over the creek fording.
		1.C.5	Replace the road tile on Back Hollow Road in Harrisonville.
2		Protect the people, property, and environment in hazard areas.	
	2.A	<i>Examine property protection measures and their applicability to the community.</i>	
		2.A.1	Obtain information on structures in the areas with the highest relative vulnerability to determine the best property protection methods. The following information should be obtained: <ul style="list-style-type: none"> <li>• Lowest-floor elevation</li> <li>• Number of stories</li> <li>• Presence of a basement</li> <li>• Market and/or replacement value</li> </ul>
		2.A.2	Obtain information for all remaining structures in the 100-year floodplain to determine the best property protection methods to promote with individual property owners.
		2.A.3	Examine the effects of requiring anchor straps on manufactured homes and improved roofing shingles on the residences of the County.
	2.B	<i>Identify hazard areas in which property protection measures would be most effective.</i>	
		2.B.1	Establish a Firewise Program in the County, especially around the Meadow Grounds Lake, Cowans Gap State Park, and Breezewood Park.
3		Maintain and enhance emergency services capabilities in the community.	
	3.A	<i>Ensure adequate communications capabilities among emergency response organizations.</i>	
		3.A.1	Identify and apply for funding to enhance the County's radio system.
		3.A.2	Identify and apply for funding to upgrade the County's emergency responders' radio equipment.
		3.A.3	Identify and implement backup communications systems for emergency response organizations.

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ID	Goal	Objective	Action
	3.B	<i>Continue to train municipal Emergency Management Coordinators on hazard protection and response.</i>	
		3.B.1	Include hazard mitigation periodically as a topic in the Quarterly Emergency Management Coordinator Training session(s).
	3.C	<i>Ensure adequate water supply to fight urban and wildland fires.</i>	
		3.C.1	Install dry hydrant locations along PA-655 to assist the Needmore Fire Company.
4	Protect natural resources within the hazard areas.		
	4.A	<i>Continue working with the Conservation District to ensure that the County's natural resources are protected.</i>	
		4.A.1	Protect natural wetlands that may absorb floodwaters.
		4.A.2	Implement programs deemed necessary by the Conservation District.
	4.B	<i>Maintain environmental education programs that the conservation and extension offices conduct, and perhaps create new ones.</i>	
		4.B.1	Coordinate with the conservation and extension offices to provide education and training to emergency responders, managers, and municipal officials.
5	Ensure that stakeholder groups have necessary information to mitigate against hazard impacts.		
	5.A	<i>Continue StormReady program participation.</i>	
		5.A.1	Recruit SkyWarn Spotters in the County.
		5.A.2	Encourage major employers and other facilities to participate in the subordinate StormReady programs.
	5.B	<i>Update and maintain the County Web site with current information from all departments.</i>	
		5.B.1	Seek relevant input from all departments during the pre-impact, impact, and post-impact phases of an emergency.
	5.C	<i>Maintain the linkage between the County GIS and tax assessment records to obtain information on condition, number of stories, and age of construction.</i>	
		5.C.1	Identify and fill gaps in information needed to conduct vulnerability analysis in hazard areas.
		5.C.2	Evaluate GIS and other software packages to find the ideal system for the County's use.

Actions 1.A.1, 2.A.1, and 2.A.2 relate to continued compliance with the NFIP. Training municipal officials on the benefits of land use regulations (Action 1.A.1) will lead to their adoption and/or maintenance of floodplain management regulations/ordinances. Obtaining information on structures in hazard areas (Action 2.A.1), including the 100-year floodplain, will provide the communities with a more accurate idea of which structures lie in the floodplain and what their values are. This information directly affects the need for and amount of flood insurance on those structures. Action 2.A.2, obtaining information to determine the best

property protection methods for individual properties in the floodplain, will lead to implementation of those methods. Property protection measures will impact the level of NFIP insurance required.

### 6.4.2. Evaluation of Mitigation Actions

The preceding list includes 24 action items, many of which will require substantial commitments of time by County and municipal staff. It is unrealistic to assume that the individuals working for these entities will have the time and resources to pursue all of these activities within the planning horizon for this Plan (i.e., over the next five years, which is the planning horizon for this Plan relative to the requirements of DMA 2000). To focus the energies of these individuals and related organizations, it was necessary to determine priorities for actions.

The first step in prioritizing these actions was to evaluate them based on their technical feasibility, social effects on the community, and the support of residents and local officials. The PA-STEEL evaluation method (see table below) categorizes the evaluation criteria into political, administrative, social, technical, economic, environmental, and legal areas.

Table 31: PA-STEEL Criteria

Criteria	Considerations
<p><b>Political</b></p>	<p>Who are the stakeholders in this proposed action?</p> <p>Have all of the stakeholders been offered an opportunity to participate in the planning process?</p> <p>How can the mitigation goals be accomplished at the lowest cost to the stakeholders?</p> <p>Is there public support both to implement and maintain this measure?</p> <p>Is the political leadership willing to propose and support the favored measure?</p>
<p><b>Administrative</b></p>	<p>Does the community have the capability to accomplish the action (i.e., can it implement the mitigation action)?</p> <p>Can the community provide any necessary maintenance?</p> <p>Is there enough staff, technical experts, and funding?</p> <p>Can it be accomplished in a timely manner?</p>
<p><b>Social</b></p>	<p>Will it cause any one segment of the population to be treated unfairly?</p> <p>Will the action disrupt established neighborhoods, break up voting districts, or cause the relocation of low- and moderate-income people?</p> <p>Is the action compatible with present and future community values?</p> <p>Will the measures adversely affect cultural values or resources?</p>

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Criteria	Considerations
<p><b>Technical</b></p>	<p>How effective is the measure in avoiding or reducing future losses?</p> <p>Will it create more problems than it solves?</p> <p>Does it solve a problem or only a symptom?</p> <p>In light of other community goals, is it the most useful?</p>
<p><b>Economic</b></p>	<p>What are the costs and benefits of this measure?</p> <p>How will the implementation of this measure affect the pocketbook of the community?</p>
<p><b>Environmental</b></p>	<p>Is the action consistent with the community's environmental goals?</p>
<p><b>Legal</b></p>	<p>Does the community have the authority to implement the proposed measure?</p> <p>Is there a clear legal basis for the mitigation action? Is an ordinance or resolution necessary?</p> <p>What are the legal side effects?</p> <p>Will the community be liable for the actions, or support of actions, or lack of action?</p> <p>Is it likely to be challenged?</p>

Using PA-STEEL criteria, the mitigation alternatives were scored as shown in Table 32.

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Table 32: PA-STEEL Evaluation of Mitigation Actions

Alternative Actions	PA-STEEL Criteria Considerations																						
	+ Favorable					- Less Favorable					N Not Applicable												
	P Political			A Administrative			S Social		T Technical			E Economic			E Environmental					L Legal			
Political Support	Local Champion	Public Support	Staffing	Funding Allocation	Maintenance / Operations	Community Acceptance	Effect on Segment of Population	Technically Feasible	Long-Term Solution	Secondary Impacts	Benefit of Action	Cost of Action	Contributes to Economic Goals	Outside Funding Required	Effect on Land / Water	Effect on Endangered Species	Effect on HAZMAT / Waste Site	Consistent w/ Community Environmental Goals	Consistent w/ Federal Laws	State Authority	Existing Local Authority	Potential Legal Challenge	
1.A.1: Hazard mitigation training and workshops	+	+	+	-	-	-	+	+	+	+	+	+	-	+	-	N	N	N	+	+	+	+	N
1.B.1: Create/maintain stormwater management plans.	+	+	+	-	-	-	+	+	+	+	+	+	-	+	-	+	+	+	+	+	+	+	N
1.C.1: Timber Ridge Road/Great Cove Road intersection.	+	+	+	-	-	+	+	+	+	+	+	+	-	N	-	-	N	N	N	+	+	+	+
1.C.2: Sipes Mill Road/Palmer Road intersection.	+	+	+	-	-	+	+	+	+	+	+	+	-	N	-	-	N	N	N	+	+	+	+
1.C.3: Johnstons Drive tile.	+	+	+	-	-	-	+	+	+	+	+	+	-	N	-	+	N	N	N	+	+	+	N
1.C.4: Bridge on Creek Road (T-388).	+	+	+	-	-	-	+	+	+	+	+	+	-	N	-	+	N	N	N	+	+	+	N
1.C.5: Back Hollow Road tile.	+	+	+	-	-	-	+	+	+	+	+	+	-	N	-	+	N	N	N	+	+	+	N
2.A.1: Info on structures most vuln. to hazards.	+	+	+	N	N	N	N	N	+	N	N	N	N	N	N	N	N	N	N	+	+	N	N
2.A.2: Determine best protection method for flood.	+	+	+	N	N	N	N	N	+	N	N	N	N	N	N	N	N	N	N	+	+	N	N
2.A.3: Anchor straps and roofing shingles.	-	+	-	N	N	N	+	+	+	+	+	+	N	N	N	N	N	N	N	+	+	+	-
2.B.1: Firewise Program.	+	N	-	N	N	N	-	+	+	+	N	+	-	N	N	N	N	N	N	N	N	N	N

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Alternative Actions	PA-STEEL Criteria Considerations																						
	+ Favorable							- Less Favorable							N Not Applicable								
	P Political			A Administrative				S Social		T Technical			E Economic				E Environmental				L Legal		
Political Support	Local Champion	Public Support	Staffing	Funding Allocation	Maintenance / Operations	Community Acceptance	Effect on Segment of Population	Technically Feasible	Long-Term Solution	Secondary Impacts	Benefit of Action	Cost of Action	Contributes to Economic Goals	Outside Funding Required	Effect on Land / Water	Effect on Endangered Species	Effect on HAZMAT / Waste Site	Consistent w/ Community Environmental Goals	Consistent w/ Federal Laws	State Authority	Existing Local Authority	Potential Legal Challenge	
3.A.1: Funding to enhance the County's radio system.	+	+	+	+	-	-	+	N	+	+	+	+	-	N	-	N	N	N	N	+	+	+	N
3.A.2: Funding to upgrade radio equipment.	+	+	+	+	-	-	+	N	+	+	+	+	-	N	-	N	N	N	N	+	+	+	N
3.A.3: Backup communications systems.	+	+	+	+	-	-	+	N	+	+	+	+	-	N	-	N	N	N	N	+	+	+	N
3.B.1: Hazard mitigation Quarterly Training session(s)	+	+	+	-	-	-	+	+	+	+	+	+	-	+	-	N	N	N	N	+	+	+	N
3.C.1: Dry hydrant along PA-655.	+	+	+	+	-	-	+	N	+	+	+	+	-	N	-	N	N	N	N	+	+	+	N
4.A.1: Protect natural wetlands.	+	+	+	N	-	-	+	+	+	+	+	+	-	N	N	+	+	+	+	+	+	+	-
4.A.2: Implement Conservation District programs.	+	+	+	-	-	-	+	+	+	+	+	+	-	+	-	N	N	N	N	+	+	+	N
4.B.1: Conservation/extension office education/training.	+	+	+	-	-	-	+	+	+	+	+	+	+	-	-	N	N	N	N	+	+	+	-
5.A.1: Recruit SkyWarn Spotters.	+	+	+	-	N	-	+	+	+	+	+	+	+	N	-	N	N	N	N	+	+	+	N
5.A.2: Subordinate StormReady programs.	+	+	+	-	N	-	+	+	+	+	+	+	+	N	-	N	N	N	N	+	+	+	N
5.B.1: Input from departments.	+	+	+	-	-	-	+	+	+	+	+	+	-	+	-	N	N	N	N	+	+	+	N
5.C.1: Information for vulnerability analysis.	+	+	+	-	-	-	+	+	+	+	+	+	-	+	-	N	N	N	N	+	+	+	N

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Alternative Actions	PA-STEEL Criteria Considerations																							
	+ Favorable				- Less Favorable				N Not Applicable															
	P Political			A Administrative			S Social		T Technical		E Economic		E Environmental			L Legal								
	Political Support	Local Champion	Public Support	Staffing	Funding Allocation	Maintenance / Operations	Community Acceptance	Effect on Segment of Population	Technically Feasible	Long-Term Solution	Secondary Impacts	Benefit of Action	Cost of Action	Contributes to Economic Goals	Outside Funding Required	Effect on Land / Water	Effect on Endangered Species	Effect on HAZMAT / Waste Site	Consistent w/ Community Environmental Goals	Consistent w/ Federal Laws	State Authority	Existing Local Authority	Potential Legal Challenge	
5.C.2: Evaluate GIS and other software packages.	+	+	+	-	-	-	+	+	+	+	+	+	-	+	-	N	N	N	+	+	+	+	+	N

### 6.4.3. Prioritization of Mitigation Actions

Once the mitigation actions were evaluated, the leadership of the Steering Committee set about prioritizing them to create an implementation strategy. FEMA mitigation planning requirements indicate that any prioritization system used shall include a special emphasis on the extent to which benefits are maximized according to a cost-benefit review of the proposed projects. Though the PA-STEEL values for each action are somewhat vague, all of the actions listed as having an economic impact indicated that that impact would be beneficial to the community. Whether the actions had associated costs or not, those mitigation actions could not be ruled out based on the benefit or cost values in the PA-STEEL evaluation. Implementation of any project will be based on a benefit-cost analysis as described in FEMA 386-5: Using Benefit Cost Review in Mitigation Planning (FEMA, 2007). The specific economic benefits and costs will be determined prior to application for funding of the mitigation project.

The prioritization of mitigation actions was done by voting. Ballots listing the mitigation actions were sent to the Director of the Fulton County Planning Commission and Emergency Management Agency, respectively. Each of these individuals was given 100 votes to distribute among the mitigation actions, and the ballots were then tabulated.

The ballot tabulation (see Table 33) showed that many of the mitigation actions received some votes. The average number of votes received was 8, with a standard deviation of 8. Actions that received between 8 and 16 votes are considered medium priority. Those with more than 16 votes are considered high priority.

The actions listed below are listed in order of priority, with the highest priority actions first. This list of actions is the result of the planning effort led by the Steering Committee and represents what the County and communities consider most important.

**Table 33: Votes Received for Mitigation Actions**

Mitigation Action	Points
<b>High-Priority Actions</b>	
1.C.1: Timber Ridge Road/Great Cove Road intersection.	30
3.A.1: Funding to enhance the County's radio system.	25
<b>Moderate-Priority Actions</b>	
1.C.4: Bridge on Creek Road (T-388).	15
5.C.2: Evaluate GIS and other software packages.	15
1.A.1: Hazard mitigation training and workshops	10
1.B.1: Create/maintain stormwater management plans.	10
1.C.2: Sipes Mill Road/Palmer Road intersection.	10
1.C.3: Johnstons Drive tile.	10
1.C.5: Back Hollow Road tile.	10
2.A.1: Info on structures most vuln. to hazards.	10

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Mitigation Action	Points
3.B.1: Hazard mitigation Quarterly Training session(s)	10
3.C.1: Dry hydrant along PA-655.	10
5.B.1: Input from departments.	10
<b>Low-Priority Actions</b>	
2.A.2: Determine best protection method for flood.	5
2.B.1: Firewise Program.	5
3.A.3: Backup communications systems.	5
4.A.1: Protect natural wetlands.	5
4.B.1: Conservation/extension office education/training.	5
2.A.3: Anchor straps and roofing shingles.	0
3.A.2: Funding to upgrade radio equipment.	0
4.A.2: Implement Conservation District programs.	0
5.A.1: Recruit SkyWarn Spotters.	0
5.A.2: Subordinate StormReady programs.	0
5.C.1: Information for vulnerability analysis.	0

Mitigation Strategy Action Plans were then developed by municipal officials for each project that they wished to include in the HMP and for each of the high- and moderate-priority actions.

The set of action plans and a table summarizing them are presented in Appendix F. A blank Mitigation Strategy Action Plan template is found in Appendix G.