Section VII. Mitigation Strategy

Strategy and Action Plan

Strategy

Goals, Objectives, and Actions

2010 5-Year Update - Allegany County Multi-Jurisdictional Hazard Mitigation Plan

The Hazard Mitigation Planning Group met on May 27, 2010 to ensure the County Goals, Objectives, and Actions first established in the 2005 HMP were still appropriate to encompass the needs of the County and sustain the ongoing hazard mitigation planning and implementation (as per the FEMA Crosswalk and the "How-to-Guides" (FEMA 386-8) from the April 2009 FEMA Region II Hazard Mitigation Plan Toolkit). As had been recommended by the SEMO Mitigation Division for the initial HMP, the STAPLEE process was again used in determining feasibility of our Goals, Objectives, and Actions following the framework established in the process for the 2005 Plan. Participants were instructed to administer the STAPLEE process as mitigation actions were updated for the Implementation Schedule. This method allowed the Planning Group to consider in a systematic way the Social, Technical, Administrative, Political, Legal, Economic, and Environmental opportunities and constraints of implementing a particular mitigation action/project. For a detailed explanation of the STAPLEE evaluation process, see Appendix L. The essential questions of the STAPLEE process to be answered were, "Would this program/plan/policy, etc., support or facilitate mitigation efforts, or would it hinder these efforts? How or why?"

As the Planning Group agreed, modifications including additions (new), deletions (del) or revisions (rev) to our Goals, Objectives, and Actions are noted by preceding asterisks (**) as follows below.

FEMA defines Goals, Objectives, and Actions as follows:
Goals are general guidelines that explain what should be achieved. Goals are usually broad, long-term, policy statements, and represent a global vision.
Objectives are strategies or implementation steps used to attain mitigation goals. Unlike goals, objectives are specific and measurable, where feasible.
Mitigation ***Actions*** are specific actions that help to achieve the mitigation goals and objectives.

ALLEGANY COUNTY'S GOALS, OBJECTIVES, & PLANNED MITIGATION ACTIONS

Goal #1 - Protect lives of the citizens of Allegany County and people within its jurisdictions from natural hazard events.

Objective 1.1 – Assess and improve as warranted, systems that provide warning and emergency communications.

Action 1.1.1 – Review and suggest enhancements as warranted in county radio communication system.

**(new) Action 1.1.1.a – Enhance Town/Village (T/V) Public Works Communications by upgrading end-user equipment to access County System.

Action 1.1.2 – Review county level notification and warning procedures. Update as needed.

Action 1.1.3 – Investigate feasibility of "Reverse 911" warning system.

**(new) Action 1.1.4 – Assess and promote New York State Alert System, SEMO's warning system.

Objective 1.2 - Develop or amend laws so they effectively address hazard mitigation.

**(rev)Action 1.2.1 – Encourage local municipalities to maintain their participation in the National Flood Insurance Program (NFIP) and encourage participation in the Community Rating System (CRS).

Action 1.2.2 - Review existing local plans and efforts to ensure consistency with the County Hazard Mitigation Plan's goals and objectives.

Objective 1.3 - Reduce the impacts of hazards on vulnerable populations.

Action 1.3.1 – Prompt and assist local agencies and municipalities in surveying institutions that have specific needs populations to identify their emergency needs.

Action 1.3.2 – Maintain a local system for response of concerned citizens that will check in on elderly, handicapped, and low-income citizens during a major or extended event.

**(rev)Objective 1.4 - Train emergency responders and public officials.

Action 1.4.1 - Enhance public awareness by creating a training course for the public and local jurisdictions on utility emergency situations.

Action 1.4.2 - Assign roles to emergency response hierarchy and structure. Strengthen these services by linking to hazard mitigation programs.

Objective 1.5 – Facilitate development of orderly, safe and timely evacuation procedures in advance of a hazardous event.

Action 1.5.1 - Confirm that adequate shelter is available to community residents, by working in collaboration with the American Red Cross, in the event that a hazard event causes displacement. (See Section X: Appendix P)

Action 1.5.2 - Continue to assist the existing system of evacuation routes and help develop local emergency plans, routes, policies, and procedures.

Objective 1.6 – Facilitate citizen preparedness for hazard events and provide timely information (brochures, newsletters, community notices) needed for citizens to make personal decisions.

Action 1.6.1 – Continue to inform citizens through various agencies and municipalities how to: Prepare for winter storm events. Know the locations of shelters and tips for staying at home during a storm. Provide safety tips on travel, unheated homes, and the use of portable and standby generators, fire hazards associated with space heaters, protecting plumbing during severe temperatures and managing through a power failure, make available to citizens the FEMA "Are You Ready: A Guide to Citizen Preparedness." Develop and distribute a list of materials needed for an individual to survive for 3 days without power. Keep citizens informed about what to do in case of water contamination (i.e., boiling water, bottled water facilities, etc.). Develop an outreach program to encourage homeowners to buy hazard insurance to protect belongings when feasible. Disseminate important information regarding personal preparedness and disaster loss prevention. Develop a program to promote retrofits and safety precautions for mobile homes for flood and severe wind events. (See Appendix Q for a list of agencies that provide preparedness materials).

Action 1.6.2 – Investigate funding sources for implementation of a citizen's awareness packet for Allegany County residents.

Goal #2 - Protect property, including public, historic, and private structures.

Objective 2.1 - Protect critical structures and infrastructure.

Action 2.1.1 – Facilitate the evaluation of all critical public structures and infrastructure within the floodplain and implement necessary improvements (i.e., relocation/elevation/flood proofing needs).

Action 2.1.2 - Monitor streams for ice jams to minimize damage to infrastructure (bridges) and thereby reducing loss of lives.

Objective 2.2 - Reduce repetitive losses, including those caused by flooding.

Actions 2.2.1 – Identify, evaluate, and implement effective mitigation activities for repetitive loss properties within Allegany County.

Action 2.2.2 - Retrofit, acquire, and/or relocate buildings in flood-prone areas (including wet or dry flood proofing).

Action 2.2.3 – Develop a process to assist municipalities and landowners in addressing obstructions to surface water drainage.

Action 2.2.4 - Implement training and public outreach to residents, code officials, and contractors on permit review process, floodplain management, and flood mitigation as well as flood response planning and training.

Objective 2.3 - Prevent flooding of living space or habitable structures (drainage maintenance, feasibility, and funding for sewer/drainage improvements).

Action 2.3.1 – Support the updating and dissemination of flood plain information at the local level.

(**new) Action 2.3.2 – Develop inventory of storm sewer systems within Allegany County.

(**rev) Action 2.3.3 – Evaluate the adequacies of local storm sewer systems.

Objective 2.4 - Improve the resistance of structures in the community against wind damage due to natural hazards.

Action 2.4.1 - Encourage development and enforcement of wind-resistant building sites and construction codes.

Action 2.4.2 - Retrofit critical facilities with wind resistant designs and construction.

Objective 2.5 - Reduce the impact of trees during natural hazard events.

Action 2.5.1 - Develop and implement maintenance programs to keep trees from threatening lives, property, and public infrastructure during storm events.

Objective 2.6 - Make storm water management a public purpose and implement a program to "take back" major drainage areas or streams within the community through acquisition or easements and maintain them as essential public facilities.

(**rev) Action 2.6.1 – Promote awareness of benefits of cleaning and maintaining stream corridors.

Objective 2.7 - Provide for adequate and hazard-resilient critical facilities.

Action 2.7.1 - Retrofit critical facilities to increase resistance to storm hazards and promote hazard resistance, e.g. retrofit or reconstruct at-risk bridges at a higher elevation to withstand flood events.

Action 2.7.2 - Provide redundant utilities (such as backup electrical power and alternative communication methods) for designated emergency mass care shelters and other critical facilities, e.g. purchase back-up generators. (See Appendix P for list of Red Cross Emergency Shelters in Allegany County)

Goal #3 – Protect the economy by lessening the impact of hazard events on Allegany County.

Objective 3.1 - Provide incentives for mitigation planning and actions.

(**del) Action 3.1.1 - ~~Obtain funding to purchase backup generators and other redundant utilities for critical assets that require such emergency power sources.~~

(**rev) Action 3.1.1 - Identify and pursue funding opportunities to develop and implement local and county mitigation activities.

Objective 3.2 – Continuation and formation of partnerships to leverage and share resources.

Action 3.2.1 - Work jointly with other stakeholders in the Upper Allegheny, Upper Genesee, Chemung Basin (Susquehanna), and adjoining watersheds to manage streams for flood and pollution prevention.

Action 3.2.2 - Identify contact point and create partnership with utility providers to ensure smooth communication and response (See Section X: Appendix R for list of Utilities).

Action 3.2.3 – Work to identify mitigation activities for utility failure on dairy farms.

Action 3.2.4 - Conduct discussions with Utility Service Providers about working in conjunction with highway departments to expedite response to power failure.

Action 3.2.5 - Work with public water suppliers on hazard mitigation and emergency response plans.

(**new) Action 3.2.5a – Develop watershed management plan for Upper Genesee River above Wellsville water intake to protect against potential pollutants from oil and has operations in the NY and PA sections of the watershed.

Action 3.2.6 - Maintain collaboration between government and community organizations regarding containment and response.

Action 3.2.7 - Continue public support of communication and collaboration between County and municipalities. Promote the public's involvement/input into the County and Municipal process.

Action 3.2.8 - Maintain communication and cooperation to improve relationship between County and local public works and highway departments for efficient emergency response.

Objective 3.3 - Facilitate critical business operations.

Action 3.3.1 – Create/implement plans for road/street clearance.

Objective 3.4 - Reduce the likelihood of losing utilities due to wind, flood events, and winter storms.

Action 3.4.1 – Examine the costs of flood proofing utilities in flood prone areas.

Action 3.4.2 - Develop and implement programs to keep trees from threatening lives, property, and public infrastructure during storm events.

Action 3.4.3 – Examine feasibility of burying utility services in villages that own or maintain a sub-station and retrofit existing overhead lines to underground line.

Goal #4 - Protect the environment.

Objective 4.1 - Develop hazard mitigation policies that protect the environment and infrastructure.

Action 4.1.1 - Develop model ordinance for sediment and erosion control, storm water management.

(**rev) Action 4.1.2 – Inventory and maintain completed mitigation actions along streams; monitor and protect them.

Action 4.1.3 – Engage in stream bank stabilization and stream corridor management with private and public partnership.

(**rev) Objective 4.2 – Improve and maintain streams and ditches throughout the community to the fullest extent possible.

(**rev) Action 4.2.1 – Implement mitigation actions that address needs at the watershed level, including cumulative flood mitigation activities and priorities.

Objective 4.3 - Natural environments, including forests, surface waters, wet lands, floodplains, and stream corridors, are recognized as valuable environmental resources that serve as integral parts of the area's existing and potential open space, natural, and wildlife habitat areas and conservation is encouraged.

Action 4.3.1 - Encourage development or acquisition and management strategies to preserve open space for flood mitigation, fish habitat, and water quality in the floodplain.

Objective 4.4 - Ensure that forested wetlands and riparian areas retain their ecological, flood protection, and pollutant filtering functions by preserving indigenous vegetation.

Action 4.4.1 - Continue to develop and/or enforce existing floodplain regulations to encourage the continued function of naturally occurring flood control mechanisms.

Goal #5 - Increasing Disaster/Emergency Preparedness within the Community.

Objective 5.1 - Understand natural hazards and the risk they pose.

Action 5.1.1 - Support engineering studies and watershed assessments to encourage the reduction of flood exposure.

Action 5.1.2 - Support engineering studies and landslide assessments to reduce future events.

Action 5.1.3 - Support engineering studies and earthquake assessments/monitoring stations to increase knowledge of patterns and probability.

Objective 5.2 - Improve hazard information, including databases and maps.

Action 5.2.1 – Support the Towns/Villages in their requests for updated flood insurance rate maps.

Action 5.2.2 – Disseminate information on groundwater resources within major glacial valleys in Allegany County to better understand current surface and groundwater resources in the region.

(**new) Action 5.2.3 – Provide geographical information to T/Vs, landowners, and developers.

Objective 5.3 - Improve public knowledge of hazards and protective measures so individuals appropriately respond before and during hazard events.

(**rev) Action 5.3.1 – Provide information to local jurisdiction officials on the 100- and 500-year flood plains.

Action 5.3.2 - Ensure that adequate shelter is available to community residents in the event that a hazard event causes displacement.

(**rev) Action 5.3.3 – Conduct outreach to property owners and agencies regarding risk management associated with natural hazards.

Action 5.3.4 - Increase public awareness of storm mitigation activities, including storm warnings and advisories.

Action 5.3.5 - Prompt homeowners to notify Utilities about trees that are threatening utility services and property (See Section X: Appendix R).

Objective 5.4 - Develop new policies to enhance hazard mitigation initiatives.

(**rev) Action 5.4.1 - Implement training and public outreach to residents, local officials, and contractors on flood response and other hazard mitigation initiatives.

Action 5.4.2 - Develop and implement programs to coordinate maintenance and mitigation activities to reduce risk to public infrastructure from winter storms (severe).

Goal #6 - Reduce the potential impact of natural disasters on Allegany County's Critical Support Services, facilities, population, and infrastructure.

Objective 6.1 - Update land use maps and text.

Action 6.1.1 - Identify or update existing land use in major stream corridors and floodplains in Allegany County.

Objective 6.2 – Update and increase access to vital countywide data.

Action 6.2.1 – Establish a framework to compile and coordinate surface water management plans and data across the county.

Action 6.2.2 – Develop source water assessment to better understand the groundwater dynamics and re-charge areas.

Action 6.2.3 - Enhance GIS coverage and analysis of existing and planned, future utility services in the county.

Action 6.2.4 - Continue to develop inventory of at-risk buildings and infrastructure.

Action 6.2.5 - Maintain GIS data that would include buildings, roads, bridges, etc.

Action 6.2.6 - Provide Allegany County emergency responders with centralized mapping services so they can easily obtain maps and geographic data when responding to emergency related events.

Action 6.2.7 – Support ongoing and future Hazard Mitigation Planning.

Action 6.2.8 – Provide information to Emergency Management webpage for Allegany County; provide information for public officials, emergency responders, and residents.

Action 6.2.9 - Develop data on potential wildfire areas within Allegany County.

Objective 6.3 – Minimize impact of hazards through planning and development.

Action 6.3.1 - Identify and plan for use of backup water supply for public water systems should the primary water supply become contaminated or compromised.

Action 6.3.2 - Continue use of the NYSDEC's Stormwater Management Manual to minimize the impact of future land use changes.

Action 6.3.3 – Expand and enhance procedures for testing and sampling the water supply and a warning system should any tests reveal contamination.

Action 6.3.4 - Develop water vulnerability assessments (VA) for water supply and water treatment systems and make improvements to harden security and ensure that appropriate emergency plans are in place.

Action 6.3.5 - Identify appropriate protection measures for groundwater and public drinking water systems.

Action 6.3.6 - Continue support of the Allegany County Hazard Planning Group.

Action 6.3.7 – Propose a New York State emergency equipment depot in Allegany County for Western New York.

Objective 6.4 – Minimize impact to property and infrastructure by developing innovative approaches to known hazard problems.

(**new) Action 6.4.1 – Encourage the use of Snow Fences/ Shelter Belts / Windbreak. Continue to explore & implement new designs of snow fences, windbreaks, and shelterbelts to reduce the amount of snow on pavement. Continue to encourage coordination with other agencies to discuss policies, procedures, best practices, and lessons learned in the area of snow and ice control.

Objective 6.5 – Update essential equipment used for emergency response operations.

(**new) Action 6.5.1 – Roadway Safety – Minimize the disruption and cost of storm events on roadways by encouraging municipalities to purchase appropriate snow & ice removal equipment and continue to follow policies and procedures; regularly review and adopt changes; evaluate new equipment; conduct operator training. Mutual aid - Encourage shared services at the local level for emergency services.

Goal #7 - To identify, introduce, and implement cost effective Hazard Mitigation measures to accomplish the County's Goals and Objectives and to raise the awareness of, and acceptance of the Hazard Mitigation process.

Objective 7.1 - Adopt ordinances with the most updated regulatory requirements concerning floodplains and other natural hazards.

Action 7.1.1 – Encourage the maintenance of naturally controlling flood control mechanisms by developing and/or enforcing existing floodplain regulations.

Action 7.1.2 -Develop model ordinance for sediment and erosion control, storm water control, stream corridor management, and other hazard preventative policy.

Action 7.1.3 – Evaluate and develop, as appropriate, a parking ordinance for emergency snow removal.

Objective 7.2 - Encourage strict enforcement of regulations, building codes, and other land use/development controls adopted by the government body.

Action 7.2.1 - Establish a framework to compile and coordinate surface water management plans and data across the county.

Action 7.2.2 - Integrate the goals, objectives, and actions from this plan into existing jurisdictions and county regulatory documents and programs,

where appropriate (including zoning ordinances, building codes, and land use policies).

(**new) Action 7.2.3 – Enhance the availability of information for decision makers and permit issuers regarding hazards and physical land features, which could impact proposed projects. Promote land-use development practices that will reduce risk from natural hazard. Provide technical assistance and training material for local officials to improve understanding of potential land-use policies and ordinances to mitigate hazards.

(**rev) Action 7.2.4 - Wherever practicable, use zoning and other growth management techniques to channel intensive development to areas outside of floodplains.

Objective 7.3 - Ensure all new developments are elevated above the Base Flood Elevation.

Action 7.3.1 - Support engineering studies and watershed assessments to encourage the reduction of flood exposure.

Action 7.3.2 - Identify and address obstructions to surface water drainage.

Action 7.3.3 - Limit to the extent practicable, development within floodplain areas to avoid degradation of their capacity to control flood levels and reduce potential future losses due to flooding.

Action 7.3.4 - Ensure that property development that occurs within the floodplain areas is constructed to be flood proof, to the extent possible.

Comprehensive Range of Mitigation Measures

Allegany County followed the framework established in the 2005 HMP and again utilized FEMA's "Mitigation Strategy & Implementation Format Examples" as base guideline for determining goals and objectives. Allegany County had solicited neighboring jurisdictions (Steuben County, Tompkins County and the Town of Granger) and referred to New York State Standard Multi-Hazard Mitigation Plan to examine their format and method of goal/objective determination. The FEMA Mitigation Strategies and Measures of mitigation actions by six broad categories from the how-to guides provided the guideline that the Planning Group used to again aid in determining the County's actions. In shaping the County's goals, objectives, and actions the HMPG members were instructed to use the STAPLEE evaluation criteria for feasibility of each decision (See Section X: Appendix L for a full description of the STAPLEE criteria).

The May 27, 2010 HMPG meeting determined to again follow and develop on the 2005 format. Goals and objectives were updated to better conform to Allegany County's needs and constraints. Goals, objectives and actions were developed based on the findings in the risk assessment and the existing regulatory, programmatic capabilities of the county as a whole and including each local jurisdiction. Once updated, it was made available for revisions, additions, and/or deletions by the towns and villages. The towns and villages added their own specific actions (projects) that enable them to work toward reducing loss of life and property (See Section X: Appendix K for a copy of FEMA mitigation

examples). Each participant was directed to use the STAPLEE criteria to prioritize their individual actions/projects. This method was also used for prioritizing the countywide goals, objectives, and actions. Each jurisdiction, using the STAPLEE criteria, was instructed to define the actions/projects using a classification system of High, Medium, and Low priority.

In conjunction with the STAPLEE evaluation process, each jurisdiction was encouraged to utilize a cost-benefit ratio for the prioritization and completion of their actions/projects. Using the inventory of structures within the hazard zones, they consider which projects will have a greater impact on these identified structures/areas. Going one step further they will use the critical structure/risk-loss estimation dollar figures to prioritize projects by dollar value that would be saved from damage and just as important, the project areas that would reduce the greatest risk to life.

During the June 2010 regional meetings, each municipality had the opportunity to discuss their progress on mitigation measures and shared successes. Under Implementation, see Table 131 for the comprehensive Implementation Schedule that lists completed, current, and future projects by jurisdiction. The figure and key (Figure 64, Table 132) that follow is the "short list" of area mitigation actions completed over past ten years. This figure is in response to County Action 4.1.2 and the County Planner will maintain the GIS mapping of our mitigated measures.

Alternative Mitigation Measures

Allegany County utilized SEMO's possible mitigation measures during the identification of actions/activities process. This State guideline helped clarify ideas and generated new ideas for mitigation measures. Section X: Appendix M provides the reader a copy of New York State's possible mitigation alternatives.

Implementation

Table 131: Allegany County Multi-Jurisdictional Implementation Schedule.

Actions	Project Description	Responsible Agency	Funding Source	Budget Cost	Priority	Timeline	Status	Further Action Needed
GOAL # 1 – PROTECT LIVES of the citizens of Allegany County and people within its jurisdictions from natural hazard events.								
OBJECTIVE 1.1 – Assess and improve as warranted, systems that provide WARNING AND EMERGENCY COMMUNICATIONS.								
Action 1.1.1	Review and suggest enhancements as warranted in county radio communication system.	OES (coordin-ating)	PSIC Grant	$3.2 Million	High	Ongoing	Met with State, April 2006, to identify tower sites. County obtained Public Safety Interoperable Communications (PSIC) grant to enhance communications.	Waiting on legal review of accepted bid for purchase of equipment (high-band radio interoperative system) to improve microwave link to towers.
Cuba, Village of	Create and maintain open communications with all emergency services.	Village	IBC	Not budgeted	High	Ongoing	Currently have great communications with local fire dept. as well as county dispatch.	Continue as is
RLRD	Acquire and implement an early warning system such as Code Red with sophisticated calling capabilities.	RLRD/Town of Caneadea (coordin-ating)	State 911-Funding IBC	$3,300 Base Budget	High	1 -2 years	Received sales literature and demonstration on May 13, 2010.	Commit to purchase for one year as shared service with other local governmental entities.
Action 1.1.1.a	Enhance Town/Village (T/V) Public Works Communications by upgrading end-user equipment to access County System.	Town Highway Superin-tendent Association	ARC	$150,000	High	Ongoing	Under construction.	
Alma, Town of	Purchase of updated communications equipment.	Town	IBC	N/I	Med	Ongoing	No progress to date.	Seeking funding.
Wirt, Town of	Better radio equipment for fire and ambulance to respond during hazard events.	Town	Grants	$75,000	Med	1-5 year		

Action 1.1.2	Review county level notification and warning procedures. Update as needed.	OES	IBC	TBD	High	Ongoing	Emergency Operations Procedures Manual updated every quarter by OES.	Continue updates as planned.
Alfred University	Create an emergency response center.	Alfred University	Seeking Grant	$500,000	High	1-3 years	Limited progress to date.	Still seeking funding.
Birdsall, Town of	Broadband capability to notify residents	Southern Tier West	Grant	$100,000	High	2011		Talk to Verizon and elected officials.
Cuba, Village of	Contact the local Fire Dept. to initiate a warning system to advise residents about possible hazards or severe weather.	Village	IBC	Not budgeted	High	Ongoing	Ongoing communication with Cuba Fire Dept.	Continue communication.
Granger, Town of	Replace Emergency Warning Siren	Short Tract Volunteer Fire Department	FMA, HMGP, PDM, Fire Dept. Budget	$8,000	Med	5 years		Pursuing funding.
RLRD	Purchase additional sirens to warn hikers and downstream Caneadea Creek residents of imminent flooding.	RLRD/Town	State 911-Funding IBC	$2,000	High	1 -2 years	Exploring costs	Secure funding and purchase
Action 1.1.3	Investigate feasibility of “Reverse 911” warning system.	Sheriff’s Dept.	Possible 911 Surcharge Funding FEMA Grants	$30,000/ year lease plus charge per call	Med-High	Needs Identifi-cation (N/I)	Reverse 911 was in place in Allegany County for 2 years (2008-2009). Service was used two times in two years. Due to budgetary constraints, service was not reappropriated.	
Action 1.1.4	Assess and promote New York State Alert System, SEMO's warning system.	SEMO	NA	Free	Med-High	Ongoing		

OBJECTIVE 1.2 – DEVELOP OR AMEND LAWS so they effectively address hazard mitigation.

Action 1.2.1	Encourage local municipalities to maintain their participation in the National Flood Insurance Program (NFIP) and encourage participation in the Community Rating System (CRS).	Allegany County Planning Board	Internal Budget Contribu-tion (IBC)	TBD	Med	Ongoing	Belfast is now part of the NFIP. Communities have been notified by DEC about re-mapping of floodplain. County is now 97% NFIP compliant (Centerville not yet NFIP participant).	Promote additional education
Action 1.2.2	Review existing local plans and efforts to ensure consistency with the County Hazard Mitigation Plan's goals and objectives.	Hazard Mitigation Planning Group (HMPG)	IBC	$2,000	High	Ongoing	Letter was sent to T/Vs with list of current HMP projects. Each T/V was asked to review with their local plans to be sure of consistency between plans. 5/12/05 T/Vs reviewed Plans/Policies again for 2010 5-Year Update of HMP.	

OBJECTIVE 1.3 – Reduce the impacts of hazards on VULNERABLE POPULATIONS.

Action 1.3.1	Prompt and assist local agencies and municipalities in surveying institutions that have specific needs populations to identify their emergency needs.	OES, coordina-ting department, DOH, Red Cross	IBC	$2,000	Med-High	Ongoing	County Health Department is doing research on vulnerable populations.	Collect this data from DOH and disseminate to Towns and Villages.
Friendship, Town of	West Branch Van Campen Creek is encroaching on road at Campground, road and by Elder Housing MDU.	Town	FEMA SEMO	TBD	Med	1-5 years		
Action 1.3.2	Maintain a local system for response of concerned citizens that will check in on elderly, handicapped, and low-income citizens during a major or extended event.	Office of Aging DSS CERTS Rural Health	IBC Home-land Security	N/I	Med-High	Ongoing	Completed first CERTs training (Communication Emergency Response Team).	Schedule ongoing training and recruitment of CERTs team members.

OBJECTIVE 1.4 – TRAIN EMERGENCY RESPONDERS and public officials.

Action 1.4.1	Enhance public awareness by creating a training course for the public and local jurisdictions on utility emergency situations.	Utility Companies	Public Service	Pd by Utility	Med	Ongoing outreach program	Attend annual Gas Transmission Consortium and other utility-provided training events.	Continue agency & department participation, share best practices, and distribute information booklets.
Alfred University	Enhance public awareness by creating a training course in emergency response that meets NIMS compliance standards for Campus.	Alfred University	Seeking Grants and IBC	$10,000	Med	Ongoing		Still seeking funding.
Action 1.4.2	Assign roles to emergency response hierarchy and structure. Strengthen these services by linking to hazard mitigation programs.	OES	IBC	$1,000	High	Ongoing	National Incident Management System (NIMS) compliance has been put into action with all County & municipal entities.	Promote compliance and ongoing training for incident command, NIMS, SEMO training, FEMA online courses.
Alfred University	Provide training programs to enhance and improve emergency response and communication.	Alfred University	Seeking Grants and IBC	$2,000	High	Ongoing		Still seeking funding.
Wirt, Town of	Train town officials on responsibilities during disaster.	Town	IBC	Not budgeted	Med		Town Board members given copy of CEO's Disaster Survival Kit FA-81 Oct. 1988, FEMA publication.	Board to develop plan.

OBJECTIVE 1.5 – Facilitate development of orderly, safe and timely EVACUATION PROCEDURES in advance of a hazardous event.

Action 1.5.1	Confirm that adequate shelter is available to community residents, by working in collaboration with the American Red Cross, in the event that a hazard event causes displacement.	Red Cross OES (coordinating)	Red Cross IBC	N/I	Med-High	Ongoing	Sent survey to T/Vs to see if they knew where their emergency shelters were and if they were adequately equipped. Results shared with Red Cross. County now has shelter supply trailer. See Appendix R for Shelters.	Official list of Emergency shelters should be sent to each Town and Village with Red Cross contact information. Continue update/enhancement of shelters.

Granger, Town of	Establish emergency evacuation center.	Town	FMA, HMGP, PDM, Town Budget	$100,000	High	5 years	Project completed.(2) New Fire Hall (125 people) with auto backup generator, cooking facilities.	Get onto American Red Cross list of County Shelters.
Action 1.5.2	Continue to assist the existing system of evacuation routes and help develop local emergency plans, routes, policies, and procedures.	OES	IBC	N/I	Med	Ongoing		
Alfred University	Secure an outdoor PA/siren system to be shared with ASC, Village & AU to notify public in event of emergency	Alfred University, ASC, Village	Seeking Grants	$100,000	Med	1-2 years	One siren has been installed @ ASC; 3-4 more needed.	Still seeking funding.

OBJECTIVE 1.6 – Facilitate CITIZEN PREPAREDNESS for hazard events and provide timely information (brochures, newsletters, community notices) needed for citizens to make personal decisions.

Action 1.6.1	Continue to inform citizens through various agencies and municipalities how to: Prepare for winter storm events. Know location of shelters and tips for staying at home during a storm. Provide safety tips on travel, unheated homes, and the use of portable and standby generators, fire hazards associated with space heaters, protecting plumbing during severe temperatures and managing through a power failure. Make available to citizens the FEMA "Are You Ready: A Guide to Citizen Preparedness." Develop and distribute a list of materials needed for an individual to survive for 3 days without power. Keep citizens informed about what to do in case of water contamination (i.e., boiling water, bottled water facilities, etc.). Develop an outreach program to encourage homeowners to buy hazard insurance to protect belongings when feasible. Disseminate important information regarding personal preparedness and disaster loss prevention., Develop a program to promote retrofits and safety precautions for mobile homes for flood and severe wind events. (See Appendix S for agency list)	FEMA Red Cross OES HMPG	Various IBC	Various Costs	High	Ongoing	Red Cross Currently has a "Preparedness Program."	Funds (grants) should be sought for an Interdisciplinary HMP team to address these issues. Continue to disseminate public informational releases/materials.
Alfred State College	Campus program to increase the awareness of risks and preparation tactics to residents.	University Police	Depart-ment Budget	N/I	Med	Ongoing	Biannual tabletop meetings with college senior leadership on college safety and hazards.	Continue meetings and disseminate information.
Andover, Town of	Public awareness tree pruning campaign.	Town	IBC	$500	Med	Ongoing	Ongoing contact of residents.	Continue program.

Angelica, Village of	Public program to increase the awareness of risks and preparation tactics to residents.	Village	IBC, Grants	Not budgeted	Med	Ongoing	Project ongoing.	
Centerville, Town of	Public program to increase the awareness of risks and preparation tactics to residents.	Town	IBC	$1,000	Med	Ongoing		
Granger, Town of	Public Outreach/Education	Hazard Mitigation Committee	IBC Grants	$500 annually	Med	Ongoing	Granger Gazette (quarterly) provides information updates.	
Independence, Town of	Development of a public awareness campaign.	Town	IBC	$1,000	Med	5 years	Project ongoing.	
New Hudson, Town of	Public program to increase the awareness of risks and preparation tactics to residents.	Town	IBC	$1,000	Med	Ongoing		
West Almond, Town of	Warning system and increased public awareness of hazards.	Town	Seeking Grant	Not budgeted	Med	1-5 years	Project deferred.	Still seeking funding.
Action 1.6.2	Investigate funding sources for implementation of a citizen's awareness packet for Allegany County residents.	Hazard Mitigation Planning Group	Seeking Grant	$5,000	Med	1-3 Years		Grant needed to fund this project.
Ward, Town of	Public Education campaign to help prepare residents.	Town / Contractor	IBC/ CHIPS FEMA	$1,000	High	1 year	No progress.	Seeking funding.

GOAL # 2 – PROTECT PROPERTY, including public, historic, and private structures.

OBJECTIVE 2.1 – Protect CRITICAL STRUCTURES and INFRASTRUCTURE.

Alfred University	Improve dams and watershed area at Foster Lake to prevent leaching, clear brush, debris & trees on banks and area around dams.	Alfred University	IBC	$80,000	High	1-2 years		In progress.
Almond, Village of	Road landslide (1100 feet) on Depot Street requires stabilization.	Village and SEMO	IBC, SEMO, CHIPs	$20,000 SEMO, $10,000 IBC, $7,000 CHIPs	High	2007 and 2010	Project completed.(1) 2007 stabilization completed	In 2010 will use $7,000 in CHIPs money to repave.

Amity, Town of	Irish Settlement at Phillips Creek - replacement of bridge or bridge deck	Town	IBC, County	$600,000	High	1-5 years		
Belfast, Town of	Bank stabilization Van Allen Rd. heavy geotextile fabric & heavy stone	Town	FEMA	N/I	High	2005	Project completed.(4)	
Birdsall, Town of	Open York Street through to end to increase access for emergency equipment, etc.	DPW	CHIPs	$180,000	Med	2015	York Street was widened, needs further work.	Explore engineering and regulatory requirements.
Canaseraga, Village of	Install 3,000 lb headwall blocks along Clark St. to stabilize edge of road, ditch for 100' (flood control).	Village	Village	$5,000	Med	1-2 years	Project underway	Should complete by Fall 2011.
Caneadea, Town of	Water line crossing Houghton Creek at Seymour Street needs banks shaped and riprap added to protect water line.	Town & Contractor	IBC, Water Dept.	$25,000	High	2007	Project completed.(1) 2007	
Caneadea, Town of	Sewer line crossing Houghton Creek before Treatment Plant (Main Trunk Line), needs banks shaped and riprap added to protect sewer line.	Town & Contractor	IBC, Sewer Dept.	$17,000	High	2007	Project completed.(2) 2007	
Cuba Lake District	Valve Replacement - Cuba Lake Dam	CLD/NYS	Grant	N/I	Med-High	1-5 years		
Cuba Lake District	Upgrade Spillway - Cuba Lake	CLD/NYS	Grant	N/I	Med-High	1-5 years		
Friendship, Town of	Sewer Line reinforcement on VanCampen Creek, Island Park.	Town	FEMA SEMO	$75,000	High	ASAP	Grant application submitted on HMGP DR-1857 and DR-1869.	
Genesee, Town of	Upgrade Deer Creek and Butternut Brook Roads	Town	FEMA	$260,000	High	1-3 years	Both roads are used as Emergency Roads when Rt. 417 is closed due to flooding in Portville.	These roads were not designed to take the high volume/load traffic as in times of emergency.

Genesee, Town of	Upgrade Deer Creek Bridge, Culverts, and Butternut Brook Road Culvert.	Town	FEMA	$220,000	High	1-3 years	Roads are used as Emergency Roads when Rt. 417 is closed due to flooding in Portville.	The bridge and culverts were not designed to take the high volume/load traffic as in times of emergency.
Granger, Town of	Preserve the viability of Ottis Smith Road to the Town line. Replace bridge and rip rap along Genesee River before bridge.	Town	FMA, HMGP, PDM, Town Budget	$800,000	High	3 years	Ongoing. Have applied for grant funding (Sen Young's Office).	Still seeking funding.
Hume, Town of	Rock rip rap bank Cold Creek, erosion threatening well and pump house, park/baseball field, NYS Route 19 Bridge, Vol. Fire Hall, Wesleyan Church parking lot, 7 private properties.	Town and DOT	FEMA DOT	$500,000	High	1-3 years	Filed grant application under HMGP DR-1827, awaiting award determination after County's HMP Plan approval/adoption.	Seeking funding.
Rushford, Town of	Replaced bridge with pre-cast concrete on West Branch Road along Indian Creek	County	County Bridge Program	$400,000	High	2008	Project completed.(1) 2008	
STERA	Mile Post (MP) 337 Almond – Rebuild and extend culvert headwall to protect roadbed.	STERA	FEMA	$20,000	Med	3 years	No progress. No money. Routine maintenance only.	Still seeking funding.
STERA	MP 338.70 west of Almond – Install 20’ of low sheet piling to divert downhill water flow into ditch; ditching to nearby culvert.	STERA	FEMA	$15,000	Med	3 years	No progress. No money. Routine maintenance only.	Still seeking funding.
STERA	MP 339.45 east of Alfred – Widen narrow shale cut, divert water at top of cut to protect against landslides.	STERA	FEMA	$50,000	Med	3 years	No progress. No money. Routine maintenance only.	Still seeking funding.
STERA	MP 339.60 east of Alfred – Build headwall/wingwalls around inlet of pipe under big fill.	STERA	FEMA	$10,000	High	1 year	No progress. No money. Routine maintenance only.	Still seeking funding.

STERA	MP 339.60 east of Alfred – Place extra heavy riprap at base and other material above it to protect reconstructed embankment from slides.	STERA	FEMA	$50,000	Med	3 years	No progress. No money. Routine maintenance only.	Still seeking funding.
STERA	MP 340.30 Alfred – Build ditch on south side of track for 0.30 mile along former quarry site, install pipe at lower end.	STERA	FEMA	$25,000	Med	3 years	No progress. No money. Routine maintenance only.	Still seeking funding.
STERA	MP 340.54 Alfred – Install lateral pipe under track, on the east side of the Hartsville Road grade crossing, to carry water flowing downhill in highway ditch under the track.	STERA	FEMA	$10,000	High	1 year	No progress. No money. Routine maintenance only.	Still seeking funding.
STERA	MP 341 west of Alfred – Move embankment back from track and construct ditch to prevent landslides and mud on track.	STERA	FEMA	$25,000	Med	5 years	No progress. No money. Routine maintenance only.	Still seeking funding.
STERA	MP 341.50 west of Alfred – Riprap to protect roadbed from stream that intersects it at a right angle.	STERA	FEMA	$15,000	Med	3 years	No progress. No money. Routine maintenance only.	Still seeking funding.
STERA	MP 341.90 west of Alfred – Riprap to protect roadbed from parallel and intersecting streams west of Sibley Road.	STERA	FEMA	$10,000	Med	3 years	No progress. No money. Routine maintenance only.	Still seeking funding.
STERA	MP 342.40 east of Tip Top – Riprap to protect roadbed from parallel stream.	STERA	FEMA	$20,000	Med	3 years	No progress. No money. Routine maintenance only.	Still seeking funding.
STERA	MP 342.95 east of Tip Top – Construct culvert under track replacing artificial streambed on the compass east side that is higher than the track.	STERA	FEMA	$50,000	High	1 year	No progress. No money. Routine maintenance only.	Still seeking funding.

STERA	MP 343.50 Tip Top – Move Tip Top outlet away from the roadbed for approx. ½ mile east of Lusk Road, protect with riprap. Protect roadbed at grade crossing from downhill stream.	STERA	FEMA	$50,000	Med	3 years	No progress. No money. Routine maintenance only.	Still seeking funding.
STERA	MP 344.75 Tip Top – Move Railroad Brook away from the roadbed east of Kenyon Road, protect with riprap.	STERA	FEMA	$40,000	Med	3 years	No progress. No money. Routine maintenance only.	Still seeking funding.
STERA	MP 345.10 west of Tip Top – Provide drainage structure for highway drainage outfall west of Kenyon Road, which currently floods the track.	STERA	FEMA	$10,000	High	1 year	No progress. No money. Routine maintenance only.	Still seeking funding.
STERA	MP 346 east of Andover – Construct culvert under track to line up with highway culvert and relocate 500 ft +/- of streambed to compass west side of track, eliminating two sharp turns in the stream (erosion).	STERA	FEMA	$70,000	Med	3 years	No progress. No money. Routine maintenance only.	Still seeking funding.
STERA	MP 346.89 east of Andover – Construct larger culvert under roadbed.	STERA	FEMA	$40,000	Med	3 years	No progress. No money. Routine maintenance only.	Still seeking funding.
STERA	MP 347.30 east of Andover – Construct larger culvert under roadbed.	STERA	FEMA	$40,000	Med	3 years	No progress. No money. Routine maintenance only.	Still seeking funding.
STERA	MP 347.85 east of Andover – Divert Railroad Brook to flow along the compass west side of the tract for ~750' between milepost 347.85 – 348.00. Currently, the stream flows through the subgrade at 347.85, saturating the roadbed.	STERA	FEMA	$75,000	High	1 year	No progress. No money. Routine maintenance only.	Still seeking funding.

STERA	MP 348.25 Andover – Construct culvert equalizing water level on compass west side of the track with water level on north side, preventing track from being saturated and/or flooded by east side of pool.	STERA	FEMA	$50,000	High	1 year	No progress. No money. Routine maintenance only.	Still seeking funding.
STERA	MP 349.15 Andover – Riprap roadbed along Railroad Brook.	STERA	FEMA	$15,000	Med	3 years	No progress. No money. Routine maintenance only.	Still seeking funding.
STERA	MP 350.13 west of Andover – Riprap roadbed along Dyke Creek east of SR417.	STERA	FEMA	$10,000	Med	3 years	No progress. No money. Routine maintenance only.	Still seeking funding.
STERA	MP 351.01 west of Andover - Repair and replace abutment stones and place riprap to stop the undercutting of the bridge abutments.	STERA	FEMA	$15,000	High	3 years		
STERA	MP 351.20 west of Andover – Riprap roadbed along Dyke Creek east of Ray Hill Road (constant erosion).	STERA	FEMA	$20,000	High	1 year	No progress. No money. Routine maintenance only.	Still seeking funding.
STERA	MP 353 east of Wellsville – Install riprap to protect roadbed from Elm Valley Creek and Dyke Creek over ~0.70 mile between Ray Hill Road and Williams Grove Road.	STERA	FEMA	$75,000	Med	3 years	No progress. No money. Routine maintenance only.	Still seeking funding.
STERA	MP 357.80 Wellsville – Install 100' of sheet piling to protect roadbed from stream that runs on south side.	STERA	FEMA	$50,000	High	1 year	No progress. No money. Routine maintenance only.	Still seeking funding.
STERA	MP 360.90 Scio – Riprap embankment to protect against Genesee River.	STERA	FEMA	$50,000	Med	3 years	No progress. No money. Routine maintenance only.	Still seeking funding.

STERA	MP 365 east of Belmont – Riprap various locations where Plumbottom Creek has been diverted to run alongside railroad.	STERA	FEMA	$50,000	Med	3 years	No progress. No money. Routine maintenance only.	Still seeking funding.
STERA	MP366 Belmont – Construct concrete footers protecting bridge abutments and center pier from erosion.	STERA	FEMA	$200,000	Med	3 years	No progress. No money. Routine maintenance only.	Still seeking funding.
STERA	MP 367.10 west of Belmont – Construct new bridge allowing stream to flow directly into the river rather than being diverted to parallel the railroad, as it currently does for about 0.70 miles.	STERA	FEMA	$100,000	Med	3 years	No progress. No money. Routine maintenance only.	Still seeking funding.
STERA	MP 367.50 west of Belmont – Construct “fingers” pointing upstream in the river to catch gravel and halt erosion.	STERA	FEMA	$200,000	High	1 year	No progress. No money. Routine maintenance only.	Still seeking funding.
STERA	MP 367.60 west of Belmont – Construct small culvert over drainage ditch for private crossing, eliminating obstruction to water flow in ditch.	STERA	FEMA	$20,000	High	1 year	No progress. No money. Routine maintenance only.	Still seeking funding.
STERA	MP 368.38 Belvidere – Protect downstream abutment of Van Campen Creek bridge with concrete footer and riprap.	STERA	FEMA	$40,000	High	3 years	No progress. No money. Routine maintenance only. Damage from 1996 flooding continues to deteriorate, creek undercutting, increased budget cost.	Still seeking funding.
STERA	MP 369.60 west of Belvidere – Riprap base of embankment to protect against Van Campen Creek.	STERA	FEMA	$15,000	Med	3 years	No progress. No money. Routine maintenance only.	Still seeking funding.

STERA	MP 371.51 east of Friendship – Repair west abutment, extend concrete apron and wingwalls on downstream side, and riprap approaches to protect bridge against erosion.	STERA	FEMA	$25,000	Med	3 years	No progress. No money. Routine maintenance only.	Still seeking funding.
STERA	MP 372.27 east of Friendship – Riprap approaches to bridge (Maple Grove Creek – washed out bridge in 2003).	STERA	FEMA	$20,000	Med	5 years	No progress. No money. Routine maintenance only.	Still seeking funding.
STERA	MP 373.81 Friendship – Construct new wingwall in NE quadrant of South Branch Creek bridge.	STERA	FEMA	$25,000	Med	3 years	No progress. No money. Routine maintenance only.	Still seeking funding.
STERA	MP 374. 25 Friendship – Install 50' of low sheet piling to protect embankment at outfall of municipal pipe and at base of SR275 overhead bridge.	STERA	FEMA	$25,000	Med	3 years	No progress. No money. Routine maintenance only.	Still seeking funding.
STERA	MP 374.67 west of Friendship – Reconstruct broken wingwall diverting water into culvert.	STERA	FEMA	$5,000	Med	5 years	No progress. No money. Routine maintenance only.	Still seeking funding.
STERA	MP 375.04 west of Friendship – Install 20' of low sheet piling to protect roadbed from side stream.	STERA	FEMA	$10,000	Med	5 years	No progress. No money. Routine maintenance only.	Still seeking funding.
STERA	MP 375.70 west of Friendship – Riprap both sides of the roadbed to protect against erosion.	STERA	FEMA	$25,000	High	1 year	No progress. No money. Routine maintenance only.	Still seeking funding.
STERA	MP 379.15 Summit – Install riprap and concrete apron protecting approach to railroad culvert.	STERA	FEMA	$20,000	Med	3 years	No progress. No money. Routine maintenance only.	Still seeking funding.
STERA	MP 380.81 Cuba – Construct concrete footer protecting Tannery Creek arch.	STERA	FEMA	$25,000	Med	5 years	No progress. No money. Routine maintenance only.	Still seeking funding.

STERA	MP 381.81 Cuba – Construct concrete footer protecting Griffin Creek arch, repair concrete apron beneath arch, repair top of arch to stop cracks and spalling.	STERA	FEMA	$50,000	Med	3 years	No progress. No money. Routine maintenance only.	Still seeking funding.
STERA Notes: Southern Tier Extension Railroad Authority. Note 1: Milepost locations are approximate. Unless described as "compass" directions, all directions correspond to railroad timetable directions – "east" is toward Hornell and "west" is toward Olean. "MP" means milepost. Note 2: "Responsible Agency" for all projects will be the Southern Tier Extension Railroad Authority, which will contract with its sublessor, the Western New York & Pennsylvania Railroad, to perform the work. WNYP may subcontract some work. Note 3: Funding source for budgeted cost of all projects will be hazard mitigation funds. Any overruns will be the responsibility of WNYP. Note 4: Shown is the last year in which the project should be completed. Example: "5" means five years out.								
Action 2.1.1	Facilitate the evaluation of all critical public structures and infrastructure within the floodplain and implement necessary improvements (i.e., relocation/ elevation/ flood proofing needs).	Towns & Villages DPW	IBC	N/I	Med	Ongoing	County bridges are all completed.	Evaluation of hydraulic capacity of County culverts is ongoing. County is assisting T/V with evaluations of bridges and culverts.
RLRD	Monitor Rushford Lake for ice jams to minimize damage to infrastructure (Caneadea Dam) and thereby reducing loss of lives.	RLRD	IBC	Varies	High	March and April - yearly	Up to date	Next monitoring by CDO & ADOs will be March and April 2011. Acquire an Ice Breaker Vessel to perform maintenance on the dam and remove debris.
RLRD	Purchase icebreaker vessel.	RLRD	Grant	TBD	High	1-2 years		
Birdsall, Town of	Blacktopping (or stone/oil) Hiltonville Rd. to better protect road surface during hazard events and to increase public safety.	Town	FEMA	$50,000	High	2015	Aug 2009 storm damaged. Received $50,000 from FEMA.	Ongoing maintenance.

Wellsville, Village of	West State Tan Bark Project: Removal of total road section of West State Street from Brooklyn to the River to a depth of about 8' and replace it with good substrate material, replace infrastructure lines and rebuild the street.	Village	Grants/ Village/ FEMA/TBD	$200,000	Med	3-5 years	Overlay of asphalt done as temporary measure to enhance travel way due to settlement.	Continued maintenance of road. Pursuing funding.
Wellsville, Village of	East State Wall Project 2: Replace retaining wall located between Miller and Scott Streets that is presently encroaching on porches and houses.	Village, County	IBC	$30,000	High	2-3 years	Project completed. Fall of 2009.	
Wellsville, Village of	East State Wall Project: Replace the remainder of retaining wall along East State Street between Scott and Maple Streets.	Village, County	IBC	$25,000	High	2-3 years	Project has been designed and materials procured. Project is scheduled for this fall or next spring.	
Action 2.1.2	Monitor streams for ice jams to minimize damage to infrastructure (bridges) and thereby reducing loss of lives.	Towns & Villages DPW	IBC	N/I	Low*	Ongoing	* Priority rating is affected sometimes by existing functioning system and may not necessarily indicate County concern.	

OBJECTIVE 2.2 – REDUCE REPETITIVE LOSSES, including those caused by flooding.

Action 2.2.1	Identify, evaluate, and implement effective mitigation activities for repetitive loss properties within Allegany County.	DPW/NRCS SWCD HMPG	Pending Mitigation Monies	Pending Mitigation Monies	High	Ongoing	Repetitive loss properties list sent to T/Vs to allow them to plan in advance possible ways to reduce future losses, whether through acquisition, relocation or elevation.	Continue to send out Flood Mitigation Assistance notices to repetitive loss communities to encourage them to plan and participate in this program.
Almond, Town of	Townwide ditching.	Town	IBC	$25,000	High	Ongoing		

Almond, Village of	Since the flood of 1996 has damaged the retaining wall (Canacadea St. and Maple Ridge), it has been determined that a new, larger retaining wall is necessary to handle floods of this proportion (Canacadea Creek).	Village	IBC, CHIPs	$10,000	High	2008	Project completed.(2) 2008 Rip rapped bank to secure failed retaining wall.	Routine maintenance
Almond, Village of	Bank Stabilization along McHenry Valley Creek along Marvin Lane. Protect six streambank properties. Rip rap stream bank, clean stream. Working with DPW Engineers.	Village	CHIPs, IBC	$10,000	Med	5 years		
Almond, Town of	Replace Headwalls (8 ft pipe) on Washburn Hollow (Bishopville Rd.).	Town	CHIPs	$5,000	Med	2011	Budget for 2011.	
Almond, Town of	Culvert installed on Donnelly at Karr Valley Creek.	Town, County	Town, County	$20,000	High	2006	Project completed.(1)	
Almond, Town of	Clear trees and brush farther from road. Eliminate dead trees in right of way.	Town	IBC	$15,000	High	Ongoing	Purchased excavator and trimmer.	Annual maintenance and repair post storms.
Almond, Town of	McHenry Valley Creek Rehabilitation Project #1 (along County Road 11).	Town	SWCD, IBC, Susque-hanna Coalition	$79,900	High	1-5 years	Turned down for 2010.	Resubmit for 2011 funding.
Andover, Village of	Replace Crossover sluice on Hardy Hill with larger pipe due to steep terrain stormwater (E. Valley Creek)	Village	IBC	$2,000	High	2010	In progress.	
Andover, Village of	Replaced with deeper (2) DI drain boxes due to ice buildup and underdrain tile along road on East Ave (spring runoff)	Village	IBC	$7,500	High	2007	Project completed. (1) 2007	
Andover, Village of	Run 400 ft pipe (18" sluice and (1) DI Box) on Barney due to steep terrain runoff	Village & FEMA	FEMA, IBC	$9,000	High	2005	Project completed. (2) 2005	

Andover, Village of	Replaced rock, laid sluice (36") due to runoff from Baker Ext at Rochambeau Ave.	Village	IBC	$4,000	High	2006	Project completed. (6) 2006	
Bolivar, Town of	Improve roadside drainage on trouble areas.	Town	Town Budget, CHIPs	$40,000	Med	Ongoing	Replaced 18" with 24" culverts on Anderson Hollow (2010-$1500), California Hollow (2009-$1000), Horse Run (2009-$700).	
Grove, Town of	Installed new hydraulically adequate bridge on County Road 24 (Ewart Creek) (LB19-01).	County DPW, Town	CHIPs	$177,456	High	2009	Project completed. 2009	
Grove, Town of	Stacked and pinned rock riprap to stabilize bank on Ewart Creek (County Road 24).	County DPW, Town	County, IBC	$50,000	High	2004	Project completed. (9) 2004	
Grove, Town of	Replaced 2 large culverts with open span bridge at headwaters of Canaseraga Creek (County Road 24 at 70).	County DPW, Town	County	$155,007	High	2003	Project completed.(8) 2003 No flooding in area since work completed (mitigated repetitive loss property).	
Grove, Town of	Rip rap 250 feet on Ewart Creek at 2340 County Road 24 by Town Barn.	County DPW, Town	CHIPs FEMA	$30,000	Med	2 years		
Hume, Town of	Reroute Higgins Creek Rd., abandon bridge.	Contractor	FEMA	$300,000	Med	Ongoing	No progress. Bridge continues to pass inspection.	Routine maintenance.
Richburg, Village of	Maintain storm drain system and clean debris.	Village	IBC	$20,000	Med	Ongoing		
Scio, Town of	Snowball Hollow Creek, Snowball Hollow Rd., replaced sluice and guardrail.	Town	IBC	25,000	High	2008	Project completed.(2)	
Scio, Town of	Gordon Brook Rd., Gordon Brook, changed sluice and cleaned ditch to creek.	Town	IBC	5,000	High	2010	Project completed.(3)	
Scio, Town of	Gordon Brook Rd., changed sluice road crossing sluice, ditched roadsides.	Town	IBC	2,500	High	2010	Project completed.(5)	

Scio, Town of	Gordon Brook Rd., changed sluice road crossing sluice, ditched roadsides.	Town	IBC	2,500	High	2010	Project completed.(6)	
Scio, Town of	Palmer Rd., Gordon Brook, Replaced larger sluice crossing.	Town	IBC	$3,500	High	2009	Project completed.(8)	
Wellsville, Town of	Routine replacement of culverts pipes.	Town	IBC	$12,000	Med-High	Ongoing	Ongoing	
Wellsville, Town of	Routine cleaning of ditches town wide.	Town	IBC	$8,000	Med-High	Ongoing	Ongoing	
Wellsville, Town of	Weidrick Road - Riverbank erosion below existing FEMA project (sheet piling and rock bank protection).	NYS DEC, County, Town	FEMA	$75,000	High	2006	Project completed. 2006	
Wellsville, Town of	Brown Road - Trapping Brook to Dyke Creek steep terrain storm runoff. Replaced pipe (4 to 5 ft). Stabilized 4 creek banks with riprap, new guardrails on 2 sides.	Town	IBC	$20,000	High	2008	Project completed. 2008	
Wellsville, Town of	Weidrick Rd. flooding requires the DEC to evaluate and redirect water flow further upstream to reduce damage. (Stream protected)	Town & DEC	DEC & EPA & IBC	N/I	Med-High	1-5 years	Project delayed - lack of funding.	Pursue funding and approvals.
Wellsville, Town of	William Grove - Dyke Creek overflows and crosses over road (8 houses in hazard area). Rip rap and stabilize bank.	NYS DEC, SWCD, County, Town	IBC, County, Grant	$60,000	High	1-3 years	Received DEC permit to clean 60 feet under bridge.	Pursue funding and approvals.
Wellsville, Village of	Hanover Creek Ponds Project: Construction of four ponds up gradient in the Town to act as intercept detention ponds that would then release their stored waters at a slower rate which would decrease the problems that are now associated with a peak flow during storm events.	Village	State/ Bonds/ IBC/ FEMA	$115,000 for Hanover and Crandall Project	High	1-2 years	Design Complete and bids are out 2006. Only Crandall Works portion completed. Land issues developed at the Hanover Creek source end where the ponds were to be built. Village Board still working with landowner to resolve.	Board to continue efforts.

Wellsville, Village of	417 Culvert Replacement: Replacement of the existing pipe culvert with a larger pipe from School St. to the Crandall Monument Works.	Village	Grants/ Village/ FEMA/ TBD	Included in School St. Culvert Realign.	Med	2-3 years	No status change, no funds available.	Pursue funding.
Action 2.2.2	Retrofit, acquire, and/or relocate buildings in flood-prone areas (including wet or dry flood proofing).	Towns / Villages	FEMA HUD	TBD by situation	Low	Ongoing	Flood Mitigation Assistance funding provided yearly to address these types of issues. Notices sent to T/Vs.	
Canaseraga, Village of	Remove dwelling at 24 S. Church St., relocate owners. Or install 200' of 24" storm drain from houses to creek.	Village	Village	$50,000 / $16,000	Med	2-5 years	No progress on move - No ROW or funding available. (5) 2009 Installed 18 N-12 Solid PE Pipe (storm drain).	Continue to seek funding.
West Almond, Town of	Investigate the feasibility of relocating the Highway Buildings to a non-flood area.	Town	Seeking Grant	$750,000	High	5 years	Project deferred.	Pursue funding.
Action 2.2.3	Develop a process to assist municipalities and landowners in addressing obstructions to surface water drainage.	SWCD	IBC/State and Federal Storm-water management sources	TBD	High	Ongoing	SWCD is working with some communities, i.e., Alfred, Town of, in debris removal and stream projects.	Special mailing should be sent to T/Vs to prompt them to evaluate their surface drainage systems.
Action 2.2.4	Implement training and public outreach to residents, code officials, and contractors on permit review process, floodplain management, and flood mitigation as well as flood response planning and training.	Planning Board SWCD	Grants FEMA Mitigation	$10,000	High	Ongoing	Experimental permit review process was piloted in two jurisdictions.	Evaluate pilot and involve additional jurisdictions. Promote further understanding of flood management among code enforcement officials.

OBJECTIVE 2.3 – PREVENT FLOODING of living space or HABITABLE STRUCTURES (drainage maintenance, feasibility, funding for sewer/drainage improvements).

Action 2.3.1	Support the updating and dissemination of flood plain information at the local level.	FEMA HMPG	IBC	TBD	Low	Ongoing	DEC will be remapping Allegany County floodplain in future.	
Action 2.3.2	Develop inventory of storm sewer systems within Allegany County.	SWCD DPW	FEMA mitigation	TBD	Low	Ongoing	Data has been collected.	Database of inventoried storm sewer systems needs to be created for Storm Water Project.
Alfred, Village of	Survey culverts within Village limits to determine proper size for volume of flow.	Village	Seeking Grant	$25,000	Med	Ongoing	Project completed.	
Wirt, Town of	Develop list of culverts, headwall blocks, crossover pipes with GPS coordinates - size/type, and signage for use during disasters.	Town	IBC	$2,000	Med	1 year	Ongoing	Complete list of coordinates.
Action 2.3.3	Evaluate the adequacies of local storm sewer systems.	Towns Villages	IBC Grants	$10,000	High	2 years		
Alfred, Town of	Upgrade culverts on East Valley Rd., Walter Road, Lynch Road, Fisher Road, Moland Road, Water Wells Road, and Cook Rd.	Town	IBC			2008 - 2010	Project completed. Replaced with increased size culverts on East Valley Rd (3-2008, 1-2009, 1-2010), Walter Rd (1-2008, 1-2009), Lynch Rd (1-2009, Aug 2009 flood blew out pipe), Fisher Rd (1-2009), Moland Rd (3-2008), Water Wells (3-2008), Cook Rd (2-2009).	Ongoing maintenance.
Alfred, Town of	Upgrade in culvert sizes (and materials) to mitigate flood prone areas. Over next 5 years, focus on Cornelius, Randolph, and Oak Ridge.	Town	IBC, CHIPs	Varies by location	Med-High	Ongoing		
Alfred, Village of	Replaced 3 culverts along Canacadea Creek (Hillcrest Rd., Randolph St. and Terrace).	Village and County	FEMA, County, IBC	$245,000	High	2008, 2006, 2005	Projects completed.(1)(3)(4)	

Alma, Town of	Replace pipe (Knights Creek) along right of way at Old School Playground Area on corner of Rt. 417 and Phillips Hill.	Town	IBC	$70,000	High	1-2 years		
Alma, Town of	Replacement of smaller culverts with larger diameter culverts throughout Town.	Town	IBC	$21,000	Med	Ongoing	2007-2009 culvert replacements on Fords Brook Rd South Branch and Alma Hill Rd.-upsized 6 crossover pipes on each. On 106 Road replaced 24" pipe and replaced 36" with 48".(4)(2)(6)(7)	Continue upgrades.
Amity, Town of	Plumbottom Rd (upper) two locations due to road and shoulder erosion installed cofferdam at bridge, riprap along creek embankment, and wing wall of bridge.	Town	FEMA, NRCS, IBC	$70,000	High	2006	Project completed. (6)(7) 2006	
Amity, Town of	Town wide ditching, cleaning pipe, and replacing sluice pipes (larger) where needed.	Town	IBC	$75,000	Med	Ongoing	Work completed annually as time and budget permit.	Continue routine maintenance.
Amity, Town of	Eymer Road - replace and enlarge culvert	Town	IBC	$7,000	Med	1-5 years		
Amity, Town of	Dry Brook: Riprap work in certain stream bank areas, increase diameter on sluice pipes.	Town & Contractor	IBC	$20,000	Med	2006	Project completed. (10) 2006 Installed coffer dam and rip rap	Routine maintenance.
Andover, Town of	Installation of larger sluices on Swain Hill, Pixley Hill, Pingrey Hill, Davis Hill, Lever, Warfield Gully, Peeves, and Quigg Hollow roads to handle a larger volume during runoff events. Also, Hess Rd. and East Valley.	Town	IBC	$20,000/ yr	High	Ongoing	Completed work on Swain Hill, Pixley Hill, Pingrey Hill, Lever, and Peeves.	Continue work on Davis Hill, Warfield Gully, Hess Rd., and East Valley as time/budget permit.
Andover, Village of	Start new Sewer System	Village	IBC, USDA	N/I	Med	5-10 years	Study has been completed.	Pursue funding.

Angelica, Town of	Continued upgrading of inadequate culvert sizes. Upgrading and maintenance program for culverts and riprap projects.	Town	IBC	$60,000	High	Ongoing	2006-2010 Culverts upgraded on (3)Bailor Rd., (2)Breitwesser Rd., (1)County Hill Rd., (1)Combs Rd., (1)East Rd., (1)Frace Rd., (3)Horner Rd., (4)Knapp Rd., (3)Lamont Rd., (1)Lily Rd., (1)Riley Rd., (5)Swift Rd., (4)Town Hill Rd., (3)Van Allen Rd.	
Angelica, Town of	Swift Road (Lower End) rip rap ditch & coffer dams from Co. Hill Rd. to dead end - 265 ft.	Town	FEMA	$4,650	High	2008	Project completed.(16)	
Angelica, Town of	Town Hill Rd. rip rap east side of intersection Lamont / T. Hill Rd - 175 ft.	Town	Multi-model	$3,075	High	2009	Project completed.(17)	
Angelica, Town of	County Hill Rd. rip rap spillway of large pipe,	Town	FEMA	$3,500	High	2006	Project completed.(7)	
Angelica, Village of	Continued upgrading of inadequate culvert sizes. Upgrading and maintenance program for culverts and riprap projects.	Village	IBC	Varies by location	High	Ongoing		
Angelica, Village of	Improve upland swale North of W. Main St., Residential/Commercial area.	Village	IBC, FEMA, Grants, SWCD	$29,000	Med	1-5 years		
Angelica, Village of	Install new drainage pipe upland swale north of W. Main St. to W. Main St. - 300 ft	Village	IBC, FEMA, Grants, SWCD	$37,500	Med	1-5 years		
Angelica, Village of	Replace insufficient drainage pipe and catch basins on W. Main St. - 1125 ft.	Village	IBC, FEMA, Grants, SWCD	$132,120	Med	1-5 years		

Angelica, Village of	Install new drainage pipe from W. Main St. to Mechanic St. to Angelica Creek. - 300 ft	Village	IBC, FEMA, Grants, SWCD	$47,000	Med	1-5 years		
Angelica, Village of	Replace insufficient drainage pipe and catch basins on Mechanic St - 1600 ft.	Village	IBC, FEMA, Grants, SWCD	$193,500	Med	1-5 years		
Angelica, Village of	Improvements to existing drainage swales running to detention basin west of Fairgrounds. Improvements would include earthwork and rip rap installation.	Village	IBC, FEMA, Grants, SWCD	$85,000	Med	1-5 years		
Angelica, Village of	Improvements to existing drainage swales running to detention basin north of Fairgrounds. Improvements would include earthwork and rip rap installation.	Village	IBC, FEMA, Grants, SWCD		Med	1-5 years		
Angelica, Village of	Drainage improvements to the area at the intersection of E. Main St. and North St. alleviating runoff from the Fairgrounds to E. Main St residents and commercial properties. Installation of new drainage pipe and catch basins from Fairgrounds entrance to Angelica Creek.	Village	IBC, FEMA, Grants, SWCD	$115,000	Med	1-5 years		
Angelica, Village of	Installation of two drainage pipes on the new Fairground exit road - 670 ft.	Village	IBC, FEMA, Grants, SWCD	$51,000	Med	1-5 years		
Angelica, Village of	Installation of a storm water drainage system north of the Main St. commercial building district, buildings east to Park Circle.	Village	IBC, FEMA, Grants, SWCD	$66,000	Med	1-5 years		

Belmont, Village of	Improve drainage - replaced sluice pipes on South Street.	Village	IBC	$2,000	High	2010	Project completed.	
Belmont, Village of	Improve drainage - Whitney Ave. and Whitney Place-clean ditch and sluices.	Village	IBC	$20,000	High	2007	Project completed.(1)(2)(3)	
Belmont, Village of	Improve drainage - Fairview, installed new catch basins and pipe.	Village	IBC	$5,000	High	2010	Project completed.(4)(5)	
Belmont, Village of	Town wide ditching, cleaning pipe and stormwater debris.	Village	IBC	$5,000	High	Ongoing		Ongoing maintenance.
Birdsall, Town of	Crossover pipe replaced , set support blocks. On trib of Black Creek, Malone Rd.	Town	IBC	$10,000	High	2009	Project completed.(3)	
Birdsall, Town of	Replaced "S" turn culvert, redid ditches on trib of Black Creek at Hiltonville Rd.	Town	FEMA	$2,015	High	2010	Project completed.(4)	
Birdsall, Town of	Malone Rd. needs blocks around the sluice to support the sluice and keep it in place. Sluice itself needs to be replaced with a larger size.	Town	CHIPs	$4,000	Med	2009	Project completed. 2009	
Birdsall, Town of	Larger culvert needed on Townline Rd. to handle storm volume without plugging or being eroded/washed out.	Town	TBD	$6,000	Med	1-5 years	Still seeking funding.	
Bolivar, Village of	Town-wide storm drain cleaning and brush removal.	Village	IBC	$1,000	Med	Ongoing		
Bolivar, Town of	Replace old cement culvert on Kossuth Rd.	Town	County	$34,000	Med	5 years	No progress to date.	Pursuing funding.
Bolivar, Town of	Larger sluice pipes and larger headers for Foreman Hollow.	Town	Town Budget	$8,000	Med	5 years	Project completed.	
Bolivar, Town of	Larger sluice in Kansas Hollow, and Beers Hollow.	Town	Town Budget	$24,000	Med	5 years	Project completed.	
Burns, Town of	Replaced galvanized culvert with larger plastic pipe on Sikes Road,	Town	IBC	$7,000	Med	1-5 years	Project completed. 2009	

Canaseraga, Village of	Install two catch basins and 18” storm drain from McIntosh (#14 Pratt) to Canaseraga Creek – 400’ Long	Village	Village	$5,008	Med	2005	Catch basin installed on Aber St. mitigated problem.	
Canaseraga, Village of	Install 36” culvert (60 ft) under private driveway at #2 Spring St. (storm drain).	Village	Village	$2,000	Med	2008	Project complete. (6)	
Canaseraga, Village of	Install 200’, 24” storm drain to replace fieldstone (no mortar) drain on Mill St. and N. Church in addition two catch basins need to be installed in this area.	Village	FEMA	$16,000	High	May-09	Project completed.	Still completing site restoration work.
Canaseraga, Village of	Install three new catch basins on Aber St. to replace small aging brick units	Village	Village	$8,500	High	2005	Project completed.(3)(4)	
Caneadea, Town of	On East River Rd. at Chamberlands we need to replace a 60" culvert (no name stream) and debris catcher.	Town	IBC	$20,000	High	2004	Project completed.(3) 2004 completed as 60" culvert with up stream debris catcher.	Working well.
Centerville, Town of	Replaced culvert on Pratt Road (trib of Genesee).	Town	IBC	$20,000	Med	2006	Project completed.(2) 2006	
Clarksville, Town of	Replaced 24" with 36" culvert on Hoyett to improve storm drainage.	Town	IBC	$4,000	Med	2005	Project completed.(1)	
Clarksville, Town of	Ditching, shoulder reconstruction, gravel added to regrade road (Lyman Rd., due to spring).	Town/ FEMA	FEMA/ Town	$26,000	High	2009	Project completed.(5)	
Clarksville, Town of	Ditching, shoulder reconstruction, debris removal, gravel added to regrade road (Hamilton Rd., due to spring).	Town/ FEMA	FEMA/ Town	$10,000	High	2009	Project completed.(6)	
Clarksville, Town of	Ditching, shoulder reconstruction (oil & stone) along Hoyett Rd. due to spring.	Town/ FEMA	FEMA/ Town	$13,000	High	2009	Project completed.(7)	
Clarksville, Town of	Replaced 7ft washout culvert on Roberts Rd. due to spring.	Town/ FEMA	FEMA/ Town	$6,000	High	2009	Project completed.(8)	

Clarksville, Town of	Improve storm drainage by enlarging culverts (Roberts Rd. 5 x 50; Hewitt Rd. 8 x 50; Wolf Run (2) 3 x 50).	Town	IBC	$45,000	Med	1-5 years		
Cuba, Town of	Install larger pipes to accommodate a larger volume of water (DeKay and Farnsworth Roads).	County / Town	FEMA	$185,943	High	2006	Project completed.(1) DeKay Road & Farnsworth Box Culverts project completed 8/16/06.	
Cuba, Town of	Dewatering drains, stop water from getting to Resident basements along SR 305.	Town Ungermann Excavating	CCE	$3,500	Med	June-05	Project completed.(8)	
Cuba, Town of	(Bump Road - area #1) pipe extension and Rip Rap water discharge area.	Town	FEMA / SEMO	$32,037	Med	Ongoing	Funding is allocated 2010 Summer Schedule	Dependent on Time / Weather
Cuba, Town of	(Bump Road - area #2) Rip Rap water discharge area.	Town	FEMA / SEMO	Costed with Area #1	Med	Ongoing	Funding is allocated 2010 Summer Schedule	Dependent on Time / Weather
Cuba, Town of	(Hunt Road) sluice pipe replaced with larger pipe.	Town / Subcon-tractor	FEMA	$19,349	High	2004	Project completed.(2) 9/20/2004	
Cuba, Town of	(Hill Top Road) Reshape ditch. Rock line 291 feet of ditch.	Town	FEMA / SEMO	$5,610	High	2010	Project completed.(5) 1/22/2010	
Cuba, Town of	(Jackson Hill) Replaced box culvert with larger pipe.	Town	FEMA / SEMO	$52,620	High	2006	Project completed.(6) 2/3/2006	
Cuba, Town of	(Jackson Hill) Sluice pipe replacement of 4 x 32 cmp to 5' x 40' SBP.	Town	Town Highway	Not budgeted	Med	2007	Project completed.(7) 8/15/2007	
Cuba, Village of	Replace and resize drain pipes under railroad bridge on Spring St. Hill.	Village	IBC	$3,500	High	2008	Project completed.(2) 2008	Regular maintenance.
Cuba, Village of	Continue current maintenance of storm drain system and debris removal.	Village	IBC	$18,000	High	Yearly	Working on cleaning yearly.	Continue cleaning every spring.
Genesee, Town of	Replace sluice pipes as identified with larger diameter sluice pipes.	Town	IBC	$6,000	Med-High	1-3 years	Finished replacing pipes on Deer Creek Road and Coon Hollow Road.	Continue prioritizing sluices that need to be replaced.

Genesee, Town of	Replaced / Enlarged sluice pipes Butternut Rd/Butternut Brook (2- 6" to 2-15") plastic pipes and Coyle Road/Coyle Stream (1-16" to 2-24") plastic pipe..	Town	IBC	$4,300	High	2009	Project completed.(1)(6)	
Genesee, Town of	Replaced / Enlarged sluice pipes Keller Road / Keller Stream (1-12" to 15" plastic pipe).	Town	IBC	$800	Med	2007	Project completed.(3)	
Genesee, Town of	Replaced / Enlarged sluice pipes East Deer Creek Rd / Deer Creek 3-12" to 15" plastic pipes).	Town	IBC	$1,800	Med	2008	Project completed.(4)	
Genesee, Town of	Replaced / Enlarged sluice pipes Green Road / Green Stream (1-16" to 2-16" plastic pipes).	Town	IBC	$2,500	Med	2006	Project completed.(5)	
Granger, Town of	Minimize drainage flash flooding.	Town	FMA, HMGP, PDM, Town Budget	$1.65M	High	Ongoing	Ongoing.	Town road shoulders and ditches require grading.
Grove, Town of	Clean ditch and riprap - Parker Hill Rd (steepest part) - ditch kept washing out.	Town	IBC	$5,000	High	2004	Project completed.(2)	
Grove, Town of	Swain Hill - clean ditch and rip rap ditch on north side of road - steep hill.	Town	IBC	$6,000	High	2004	Project completed.(4)	
Hume, Town of	Increased ditch maintenance and evaluation of culverts, ponds and drainage areas.	Town	Town Budget	$50,000	Med	Ongoing	Ongoing	Annual maintenance and repair post storms.
Hume, Town of	Hillside buttressing on Ballard Road (along Genesee River).	Town	IBC & FEMA	$250,000	Med	1-3 years	Ongoing	
Hume, Town of	Ditch and culvert redesign in Lapp Rd. area to reduce damage during subsequent storms.	Town	IBC & FEMA	$250,000	Med	1-3 years	Ongoing	

Independence, Town of	Rip-rap ditches on Pleasant Valley Rd. Paynesville Hill Rd., and South Hill Rd. Larger pipes in streams on Graves Rd., and Harrigan Gully Rd. Larger storm sewer pipes on Putnam Ave. and Maple Ave.	Town	IBC, FEMA, SWCD, Grants	$150,000	High	Ongoing	Graves Rd. completed.	Pursue funding.
Independence, Town of	Replaced culverts on Heselton Gully at Walters (5 to7 ft) - 651 ft., at Grantier (401 ft), at Kear (5 to 6 ft) - 2, 40 ft,	Town	CHIPS	$30,000	High	2008	Project completed.(1)(2)	
Independence, Town of	Replaced culverts on Harrigan Gully at Grantier (40 ftx6); Spicer at Graves (3 to 6 ft)-401 ft.; Graves at Harris (30" to 4ft)-401 ft.; Graves Rd at Peet (inc 24" to 3 ft)-50 ft.; School House Hill at SR 248 (3 to 4ft)-40 ft.	Town	IBC	$15,000	High	2009	Project completed.(3)(4)(5)(7)(8)(9)	
Scio, Town of	Riprap trouble spots to reduce damage and erosion. Replace undersized culverts.	Town Contractor (AL Blades)	IBC/Grants FEMA	$33,000	High	2006	Project completed. 2006	Done
Ward, Town of	Continue upgrading culverts and ditches town wide to decrease flood damage.	Town / Contractor	IBC/CHIPS FEMA	$300,000	Med	Ongoing	No progress. Seeking funding.	Seek funding. Replace as funding available or in emergency.
Ward, Town of	Replacement of two culverts (one-6 ft to 8 ft x 90 ft one with a box culvert) along Waugh Brook Rd.	Town / Contractor	IBC/CHIPS	$60,000	High	2 yrs	Project completed. 2007	
Wellsville, Village of	Madison Creek Culvert Project: Purchase stretch of property from current owner, remove garage built over a concrete culvert and rebuild the creek along this property.	Village	Grants/ Village/ FEMA/TBD	$650,000	High	1-2 years	Consultant evaluated structure remediation in fall of 2006 and gave three recommendations, of which most reliable is full replacement at approximately $ 650,000. Still waiting for funds.	Pursue funding.

Wellsville, Village of	School Street Culvert Realignment: Redirect a line from School St. to Hanover Creek instead of sending the water down 417 to Crandall Monument Works. (Possible Alternate to 417 project)	Village	Grants/ Village/ FEMA/TBD	$30,000	Med	3-5 years	No status change, no funds available.	Pursue funding.
Wellsville, Village of	Railroad Culvert Replacement: Replace the existing undersized pipe culvert that runs from Trapping Brook under the railroad and along the railroad to Dyke Creek at S. Broad St.	Village	Grants/ Village/ FEMA/ NYSDOT	$250,000	High	3-5 years	No status change, no funds available.	Pursue funding.
Wellsville, Village of	Railroad Culvert Realignment: Redirect a line from Trapping Brook directly to Dyke Creek and instead of sending it along the railroad to S. Broad St. and then to Dyke Creek. (Possible alternative to Railroad Culvert Realignment project)	Village	Grants/ Village/ FEMA/ NYSDOT	$125,000	Med	3-5 years	No status change, no funds available.	Pursue funding.
Wellsville, Village of	State Street Culvert Project: Replacement of existing pipe culvert with a large pipe from Highland Avenue to Brooklyn Street.	Village	Grants/ Village/ FEMA/TBD	$40,000	Med	3-5 years	No status change, no funds available.	Pursue funding.
Wellsville, Village of	Crandall Monument Culvert Sleeve Project: Insertion of sleeve into the existing Box Culvert that would provide support to the aging culvert.	Village	State Grant/ IBC/ FEMA	$30,000	High	2007	Project completed. Fall of 2007. Funds from NYS grant and Village loan were used.	
Wellsville, Village of	Farnum Street Culvert Project: Removal of box culvert and replace with larger capacity culvert.	Village	Grants/ Village/ FEMA/TBD	$60,000	Med	2-3 years	This project will be completed in near future by County DPW. No funds available at this time, still planning to construct using precast concrete box culvert.	Pursue funding.

West Almond, Town of	Upgrade pipe to box culvert on Turnpike Rd.	Town	Seeking Grant	$100,000	High	1-5 years	Applied for FEMA grant in 2006. Made benefit/cost - ran out of money before funded.	Seeking grant source.
West Almond, Town of	George Rd.: Possible replacement of pipe – bridge. Riprap needs to be placed in ditches.	Town	Seeking Grant Source	$150,000	High	1-5 years	Project deferred.	Seeking grant source.
West Almond, Town of	Brook Rd.: Pipes need upgrading to box culvert. Riprap needed in ditches.	Town	Seeking Grant Source	$50,000	Med	5 years	Project deferred. 2007 grant application denied.	Seeking grant source.
West Almond, Town of	Simmon and Baker Valley Roads., size upgrades of pipes and riprap in ditches.	Town	Seeking Grant Source	$45,000 and $8,000 state in kind	Med	5 years	Simmons Road upgraded. Ongiong.	Seeking grant source.
Willing, Town of	Burnt Hill Rd - Replaced 2 ft w/ 3ft culvert to better manage runoff.	Town	IBC	$1,500	High	2009	Project completed.(3)	
Willing, Town of	Graves Road - Replace 4 ft w/ 6ft culvert to better manage runoff.	Town	IBC	$8,000	Med	1-2 years		Pursue funding.
Willing, Town of	Replacement of culvert on South Branch of Fords Brook Rd, located between North Branch Fords Brook Rd and Ost Rd.	Town	IBC and CHIPs	$35,705	High	Summer 2008	Project completed.(1) Summer 2008. (10ft enlarged galvanized plate) Twice applied and denied FEMA grant funds - no money left.	Next replacement needs to be concrete box culvert or bridge in about 20 years.
Wirt, Town of	Installation of dykes to slow water, erosion mitigation measures and enlargement of undersized sluices.	Town	FEMA / IBC	N/I	High	Ongoing	Have installed larger sluices.	Have County drainage study done on all high-risk sites for proper culvert size.

OBJECTIVE 2.4 – Improve the resistance of structures in the community against WIND DAMAGE due to natural hazards.

Action 2.4.1	Encourage development and enforcement of wind-resistant buildings and construction codes.	Local CEO Bldg Inspectors	IBC	IBC	Low	1 year	Regional planning meetings for 5-Year Update of Plan encourage ongoing enforcement of building codes.	

Canaseraga, Village of	Replaced shingles on 3 Main St (DPW) (due to wind damage).	Village	IBC	N/I	Med	2006	Project completed.(A)	
Action 2.4.2	Retrofit critical facilities with wind resistant designs and construction.	Local CEO	IBC	TBD	Low	5 years		

OBJECTIVE 2.5 – Reduce the impact of TREES during natural hazard events.

Action 2.5.1	Develop and implement maintenance programs to keep trees from threatening lives, property, and public infrastructure during storm events.	Public Utilities DPW Towns/Villages	IBC	$15,000 annually	Low	Ongoing	National Grid sends out tree pruning program notice in monthly billing statement. County delivers tree maintenance program.	
Almond, Village of	Removal of dead trees and limbs overhanging utility lines.	Village	IBC	$10,000	Med	Ongoing	Ongoing	Routine and post storm maintenance
Angelica, Village of	Implement tree program that includes tree inventory, tree pruning, tree removal, and tree replacement.	Village	IBC, Grants	$5,000	High	Ongoing		
Bolivar, Village of	Conduct town-wide tree pruning program.	Village	IBC	$5,000	Med	ongoing	Complete as budget and time allow.	
Wellsville, Town of	Removal of dead trees within right of way.	Town	IBC	$5,500	Med-High	Ongoing	Ongoing	
Wellsville, Village of	Tree removal in town road right of ways and pruning primary and secondary lines.	Village	IBC, Village	$12,000	Med	Ongoing		
Wirt, Town of	Tree removal in town road right of ways, prune dangerous.	Town	IBC	$8,500	Med	Ongoing	Dead and diseased trees are being marked.	

OBJECTIVE 2.6 – Make STORM WATER MANAGEMENT a public purpose and implement a program to "take back" major drainage areas or streams within the community through acquisition or easements and maintain them as essential public facilities.

Action 2.6.1	Promote awareness of benefits of cleaning and maintaining stream corridors.	Towns/ Villages SWCD/ DPW DEC	FEMA mitigation funds	Varies by location	High	Pending Funding		Promote the development of a system to scan for grant funding for T/Vs and County projects. Access online SEMO stream management

								maintenance procedures.
Amity, Town of	Channel cleaning above and below bridges and riprap stream banks.	Town	IBC	$15,000	Med	Ongoing	Work completed annually as time and budget permit.	Continue routine maintenance.
Angelica, Town of	Creation of a storm water management plan for the Angelica, Town of.	Town	Town, Village, SWCD	$6,500	Med	Sep-08	Project completed.	Update plan as needed.
Angelica, Village of	Creation of a partial storm water management plan for Village of Angelica.	Village	Town, Village, SWCD	$6,500	Med	Sep-08	Update plan as needed.	
Bolivar, Village of	Clean all creeks within the Village (vegetation and sediment).	Village	IBC	$1,000	Med	Ongoing		
Caneadea, Town of	Purchase or leasing of land near sewage treatment plant would be required before this project could begin. The sewage treatment plant out-fall pipe needs to be repaired on the riverbank. The riverbank itself needs piling riprap to stabilize the soils or wingwalls (big riprap) out into the river to divert the water away from the sewage treatment plant bank. This project would require about 6667/cyds of rock on bank (estimate).	Town	IBC	$20,000	High	1-3 years	Project ongoing for piling and rip rap.	Seeking funding.
Cuba, Town of	Streams need to be cleaned out; with the authority of the DEC this could be accomplished to reduce flooding.	County / Town	IBC	$10,000	Med	1-5 years		

RLRD	Acquire upstream Flow Monitors (2-Caneadea Creek; 1-Rush Creek) to measure water volume entering Rushford Lake - flood watch	RLRD	Local IBC Grant	Out for bid	Med.	Pending Funding	Seeking funding.	Continue to seek funding sources

OBJECTIVE 2.7 – Provide for adequate and HAZARD-RESILIENT CRITICAL FACILITIES.

Action 2.7.1	Retrofit critical facilities to increase resistance to storm hazards and promote hazard resistance, e.g. retrofit or reconstruct at-risk bridges at a higher elevation to withstand flood events.	DPW Local CEO	FEMA mitigation funds	Pending funding availa-bility	Low-Med*	Ongoing	* Low priority due to historical lack of funding. Refer to Figure 64 for mitigated actions.	
Allen, Town of	Botsford Hollow, replacement of bridge (LB02-03) Rush Creek tributary, due to deteriorating deck and foundation.	ACDPW	Town and County	$221,666	Med-High	Completed in 2008	Project completed. (3) 2008 County DPW replaced this bridge in 2008.	
Andover, Town of	Retrofit Town Barns that were erected in 1900 (back portion) and 1939 (front portion).	Town	Seeking Funding	$500,000	Med	1-5 years	Project deferred - no funding, lower priority.	Pursue funding.
Andover, Town of	There is a need to replace the three bridges on Quigg Hollow that have eroded during the 1999 event and subsequent events.	Town	IBC and CHIPS	$600,000	High	1-5 years	Two bridges were replaced by County DPW in 2001 and 2007.	3rd bridge requires replacement and sheet piling.
Birdsall, Town of	Installed new hydraulically adequate bridge deck on LB #09-01, Joe McMahon Rd., Black Creel.	County / Town	County / Town	$71,654	High	2009	Project completed.(1)	
Bolivar, Town of	Replace Bartlett Road bridge and place riprap in stream.	CDPW / Town	County 80% / Town 20%	$134,400	High	1-3 years	Submitted to County DPW for review, 2007.	Pursue funding. Continue to visit DPW. Bridge needs to be higher and lengthened. Bridge floods several times each year.

Caneadea, Town of	Replace Bridge #12-20 on East River Road (along tributary of Genesee River-Bloody Gulch) with new hydraulically adequate structure.	Town and County	Town and CHIPS	$183,493	High	2008	Project completed. (6) March 2008	
Clarksville, Town of	Installed hydraulically adequate culvert (Bridge) on County Road 40 on Tributary of Dodge Creek	County	Bridge Fund	$130,000	High	2008	Project completed.(4)	
Cuba, Village of	Removal of bridge and center support on Mill St. (Griffin Creek) and replace with bank-to-bank spanning footbridge (no center support to catch debris).	Village, County, DPW	Shared service work	$37,000	Medium	2004-2005	Project completed.(1) Oct. 2004-May 2005 by County DPW.	
Genesee, Town of	Bridge replacement on Streeter Brook.	CDPW	PDM 2005	$300,000	High	1-3 years	Bridge not yet scheduled for replacement.	Continue seeking funds as a high priority.
Genesee, Town of	Town barns sheet metal and lighting to retain heat and for safety.	Town	NYDOS	$5,000	High	1 year	Lighting has not yet been updated.	Continue to seek grants for new fixtures.
Grove, Town of	The Town of Grove is in the process of applying for mitigation funds to repair/replace Goose Hollow bridge and repair damage on numerous road shoulders.	Village, County, DPW	CHIPs, IBC	$410,500	High	Summer 2010	Project completed.(1) Old bridge has been removed.	New bridge erected Summer 2010.
Wirt, Town of	Crown all roads, widen shoulders.	Town	IBC and CHIPS	$30,000	Med-High	Ongoing	Continue upgrading roads.	
Action 2.7.2	Provide redundant utilities (such as backup electrical power and alternative communication methods) for designated emergency mass care shelters and other critical facilities, e.g. purchase back-up generators. (See Appendix R for list of Red Cross Emergency Shelters in Allegany County)	Red Cross OES, coordinating Towns/ Villages School Districts	Varied FEMA Mitigation Funds, Surplus Grants	Pending funding	High	Ongoing	SWCD applied for (denied) grant Countywide generator. Several T/Vs have acquired backup electrical power (Angelica (T), Belfast, Belmont, Granger, Wellsville (V)).	Continue to source funding for backup power/communication methods. Red Cross contacted for support in finding funding sources to address this.

Alfred University	Purchase of generators for Ade Hall and the Campus Center to provide emergency power during hazard events. 300 kva ($70,000) and 1000 kva ($100,000).	Alfred University	Seeking Grants	$170,000	Med	5+ years	Generator for Powell Campus Center purchased. No current movement to install generator in Ade Hall.	
Almond, Village of	Establish emergency evacuation center. Upgrade generator to power Fire Hall, Municipal Offices, and Shelter area. Working with Grant Writer. Get onto American Red Cross list of County Shelters.	Almond, Town & Village	FEMA, IBC	$100,000	High	3 years		
Andover, Town of	Obtain auxiliary power generator for town hall for Emergency Shelter.	Town	IBC	$25,000	High	1-5 years		
Andover, Village of	Backup generator for Village Shop (operate doors, etc.)	Village	IBC	$4,000	Med	Ongoing		
Bolivar, Village of	Backup generator needed for water plant in case of downed power lines.	Village	IBC and grant	50000	High	1-5 years	No progress, no funding.	Pursue funding.
Caneadea, Town of	Installation of a generator system in the Caneadea highway department building. This system would allow them to power doors, lights and, heating and fueling systems at the highways dept and town hall.	Town	Grant	$30,000	Med	1-5 years	Still seeking funding.	Hire grant writer or someone to seek funding.
Clarksville, Town of	Installation of a generator system in the Clarksville highway department building. This system would allow them to power doors, lights and, heating and fueling systems at the highways dept and town hall.	Town	Grant	$15,000	Med	1-5 years	Seeking funding.	

Houghton	Purchase of a power backup system for housing students/ community population in the Campus Center 250k,Natural Gas system	Houghton	Budget	$30,000	High	1-5 years		
West Almond, Town of	Purchase of generator system in event of a power outage for town buildings, community center as emergency evacuation shelter.	Town	Seeking Grant	$15,000	High	1-5 years	Denied grant through Sen. Young's office.	Seeking funding.

GOAL # 3 – PROTECT ECONOMY by lessening the impact of hazard events on Allegany County.

OBJECTIVE 3.1 – PROVIDE INCENTIVES for mitigation planning and actions.

Action 3.1.1	Identify and pursue funding opportunities to develop and implement local and county mitigation actions.	HMPG	N/I	$25,000 contribu-tion for 5-year base funding of position.	High	Ongoing		
Caneadea, Town of	Arsenic feasibility study underway; funding needed to implement engineering suggestions to meet 2006 State/Federal arsenic levels of 10~, at this time levels are exceeding approximately 24 ppb.	Town Contractor	Grants / IBC/ Grant Funds	$8.1 Million	High	Ongoing	In progress.	
Caneadea, Town of	Not in compliance with Chloro-methane levels. Feasibility study underway; suggestions for lowering levels	Town Contractor	Grants / IBC/ Grant Funds	Included in above figure	High	Ongoing	In progress.	

OBJECTIVE 3.2 – Continuation and FORMATION OF PARTNERSHIPS to leverage and share resources.

Action 3.2.1	Work jointly with other stakeholders in the Upper Allegheny, Upper Genesee, Chemung Basin (Susquehanna), and adjoining watersheds to manage streams for flood and pollution prevention.	SWCD NRCS	EPF EQIP IBC	Pending Identifi-cation $3000	Med	Ongoing	Projects implemented with NYS DEC, USCOE, NYS AG & MKTS, Trout Unlimited, NYS DOT, T&V.	Ongoing collaboration anticipated.
Alfred, Town of	Purchase excavator as shared resource with Town of Almond.	Town	Grant	$250,000	Med	1-5 years	Filed grant application, but another town got equipment.	Still seeking funding.
Alfred, Village of	Continue to partner with residents to keep storm ditches on private property clear of debris and functioning properly. Look for private funding to clean and repair these ditches.	Village	IBC	$0	Med	Ongoing	Limited progress to date.	Ongoing
Alfred, Village of	Sewer system repair to stop groundwater seepage during flooding events. Camera study on municipal waster water distribution system through out Village to determine areas of concern.	Village	IBC	TBD	Med	Ongoing	Project planned for 2012.	Still seeking funding.
Angelica, Village of	Water system improvement.	Village	IBC, USDA, Rural Develop.	$847,000	High	April 2010-December 2011	Project in process.	
Belfast, Town of	We need to find a way to reduce the arsenic level in the water supply.	Town	Small cities grant	N/I	High	2 years	Project completed.(1) Town drilled new well and built new treatment plant and replaced water lines.	

Cuba, Village of	Partner with Cattaraugus County to address Oil Creek and somewhat Griffin Creek flooding due to debris in creek. Downstream - clean out brush, install debris collector in Cattaraugus County (Town of Hinsdale) - water backs up along Center Street.	Village, County	IBC	Not budgeted	High	1-3 years		
RLRD	Work jointly with towns within the watershed to manage streams for flood and pollution prevention.	SWCD RLRD	Local IBC	TBD-exploring costs	Med	Ongoing	New Action Item	Meeting needs to be planned
Action 3.2.2	Identify contact point and create partnership with utility providers to ensure smooth communication and response (See Appendix T for list of Utilities).	OES	IBC	IBC	Low	Ongoing	County has partnered with Gas Transmission Consortium on training and information dissemination.	
Cuba, Village of	Form partnership with National Grid to keep them better informed about dangerous limbs or trees around power lines.	Village and DPW	IBC	Not budgeted	Med	Ongoing	We have good communication with National Grid presently and do our best to keep them informed.	Continue as is
Granger, Town of	Minimize impact of electrical power outages.	Town	FMA, HMGP, PDM, Town Budget	Not budgeted	Med	6 years	Ongoing.	Continue work with RGE to upgrade.
Ward, Town of	Open communications with Utility Service Providers (USPs) and express the need for accelerated maintenance of power line right of ways (ROW).	Town / Contractor	IBC	$300	High	1 year	USPs have cleared most of ROW (80% or more complete).	Ongoing
Action 3.2.3	Work to identify mitigation activities for utility failure on dairy farms.	OES/SWCD CCE/SPCA AFLB	IBC	$3,000	Low	Ongoing		

Action 3.2.4	Conduct discussions with Utility Service Providers about working in conjunction with highway departments to expedite response to power failure.	DPW Towns/ Villages As applicable	Local IBC	IBC	Low – inci-dental	Ongoing	Meet with Utility Service Providers as appropriate.	
Action 3.2.5	Work with public water suppliers on hazard mitigation and emergency response plans.	SWCD/ DOH DEC Towns/ Villages	DOH EPA IBC	N/I	High	Ongoing	Department of Health has developed a Source Water Assessment Program (SWAP) to identify public water supplies and potential contamination sources. Farm Service Agency has the Conservation Reserve Program that allows farmers with lands that are in a SWAP area to take them out of production for a yearly rental fee.	Continue to implement protective measures needed as identified in SWAP.
Action 3.2.5.a	Develop watershed management plan for Upper Genesee River above Wellsville water intake to protect against potential pollutants from oil and gas operations in the NY and PA sections of the watershed.	OES, SWCD, DOH, DEC, Allegany Cty, Potter Cty, Village	IBC	$5,000	High	1 year		
Action 3.2.6	Maintain collaboration between government and community organizations regarding containment and response.	County HAZMAT team	IBC	TBD	High	Ongoing	State Certified Emergency Response Team maintains periodic drills and training.	Respond when needed.

Action 3.2.7	Continue public support of communication and collaboration between County and municipalities. Promote the public's involvement/input into the County and Municipal process.	HMPG	IBC	IBC	Low	Ongoing		
Action 3.2.8	Maintain communication and cooperation to improve relationship between County and local public works and highway departments for efficient emergency response.	Planning & Economic Devel-opment Committee	IBC	IBC	Low	Ongoing	$150,000 grant obtained for high-band system that Towns and Villages can be connected to as well.	Continue to coordinate with other agencies to integrate Public Works system.
Hume, Town of	Intergovernmental shared services agreements need to be extended and/or upgraded (Fuel Depot with school).	Town	IBC	$5,000	Med	1-3 years	Ongoing. May be completed in October 2010.	

OBJECTIVE 3.3 – Facilitate critical BUSINESS OPERATIONS.

Action 3.3.1	Create/implement plans for road/street clearance.	DPW	IBC	IBC	Low	Ongoing	Current program is functioning adequately. County recently worked with DOT to prioritize road system for clearance.	
Angelica, Town of	Split shift highway program, 2 trucks on the road at all times.	Town	IBC	$0	High	Ongoing	Project completed.	
Cuba, Village of	Prepare a regular vehicle maintenance check program for all snow plowing equipment.	Village DPW	IBC	$20,000	High	Seasonal	Currently have spread sheets for plow vehicle maintenance.	Continue as is
RLRD	Create/implement plans to replace backup hydraulic pumps for gates at Caneadea Dam.	RLRD	Local IBC Grant	TBD-exploring costs	Med	1-2 years	Seeking source for replacement parts	Identify possible Grant funding and submit application
RLRD	Create/implement plans to acquire trams to the top of dam and from dam to valve house below for safety of dam operators and expedite emergency procedures.	RLRD	Grant	$610,000	Med	1-3 years	Meeting with vendor for prices quotes on 6/02/10	Seek approval to go out for bids

OBJECTIVE 3.4 – Reduce the likelihood of LOSING UTILITIES due to wind, ice, flood events, and winter storms.

Action 3.4.1	Examine the costs of flood proofing utilities in flood prone areas.	Towns/ Villages	IBC FEMA	TBD	Med	Ongoing		
Action 3.4.2	Develop and implement programs to keep trees from threatening lives, property, and public infrastructure during storm events.	DPW Towns/ Villages	IBC	TBD	High	Ongoing	Debris collectors have been effective. Sediment basins have been installed at Cuba Lake.	
Alfred, Town of	Conduct town wide tree pruning program.	Town	IBC	$12,000	Med	Ongoing		
Allen, Town of	Conduct town wide tree pruning program.	Town	IBC	$5,000	Med	Ongoing		
Alma, Town of	Conduct town wide tree pruning program.	Town	IBC	$10,000	Med	Ongoing		
Amity, Town of	Maintain an aggressive tree/brush pruning/removal program for town roadways.	Town & Utilities	IBC	$13,000	High	Ongoing	Work completed annually as time and budget permit.	Continue routine maintenance.
Andover, Village of	Tree removal in Village ROW; Trimming around electric lines	Village & Utilities	IBC	$2,000	Med	Ongoing	Contact Utility Service Provider	
Angelica, Town of	More extensive tree pruning program. Increase public awareness through brochures and/or public service messages.	Town	IBC	$15,000	Med	Ongoing	Have continued with tree trimming, brush maintenance.	Develop brochures for public awareness.
Angelica, Village of	Implement tree Program public awareness program.	Village	IBC, Grants	$1,000	Med	1-2 years		
Belmont, Village of	Conduct town-wide tree pruning program.	Village	IBC	$5,000	Med	Ongoing	Complete as budget and time allow.	
Burns, Town of	Conduct town-wide tree pruning program.	Town	IBC	$5,000	Med	1-5 years	Complete as budget and time allow.	
Caneadea, Town of	Conduct town-wide tree pruning program.	Town	Town	$5,000	Med	Ongoing	Completed as budget and time allow.	Continue program and routine and post storm maintenance.
Cuba, Village of	Continue and enhance tree-pruning program.	Village DPW & Tree Board	IBC	$1,100	Med	Ongoing	We have a professional come in each year to do pruning determined by the Tree Board.	Continue yearly

Friendship, Town of	Removal of dead trees within right of way; town wide tree pruning.	Town	IBC	$10,000	Med	Ongoing		
Genesee, Town of	Tree pruning public awareness campaign.	Town	IBC	$10,000	Med	Ongoing	Program not yet pursued.	Assign responsible person for program.
Independence, Town of	Cutting and pruning brush and trees.	Town	IBC	$7,500	Med	5 years	Project ongoing.	
New Hudson, Town of	Conduct town-wide tree pruning program.	Town	IBC	$5,000	Med	1-5 years	Complete as budget and time allow.	
Richburg, Village of	More extensive tree pruning program. Increase public awareness through brochures and/or public service messages.	Village	IBC	$5,000	Med	Ongoing		
Rushford, Town of	Conduct town-wide tree pruning program.	Town	Town	$6,000	Med	Ongoing		Routine and post storm maintenance.
West Almond, Town of	Tree pruning program.	Town	Seeking Grant	TBD	Med	Ongoing	Ongoing. Purchased brush hogger.	Continue maintenance.
Action 3.4.3	Examine feasibility of burying utility services in villages that own or maintain a sub-station and retrofit existing overhead lines to underground line.	Villages HMPG Coord-inating	IBC	TBD	Low	Ongoing		

GOAL # 4 – PROTECT ENVIRONMENT.

OBJECTIVE 4.1 – Develop hazard mitigation POLICIES THAT PROTECT the environment and infrastructure.

Action 4.1.1	Develop model ordinance for sediment and erosion control, storm water management.	SWCD	NYS DEC Ag & Markets	$10,000	High	1-2 years	Allegany County SWCD is working in conjunction with National Water Resource Association and some pilot municipalities developing an enhanced permit review process.	Continue pilot.
Cuba Lake District	Stop sediment from entering Cuba Lake (Abbotts)	Cuba Lake Association	CLD	$106,000	Med	2006	Project completed.	

Cuba Lake District	Stop sediment from entering Cuba Lake (Mt. Monroe)	Cuba Lake Association	IBC and FEMA	$120,000	Med	2009-2010	Project completed.	Ongoing maintenance.
Cuba Lake District	Stop sediment from entering Cuba Lake (Munger Hollow)	Cuba Lake Association	FL-LOWPA	$300,000	Med	2000, 2003	Project completed. 2000; rip rap added with 2003 damage.	Ongoing maintenance.
Action 4.1.2	Inventory and maintain completed mitigation actions along streams; monitor and protect them.	SWCD DPW Towns/ Villages, County Planner	IBC	$2,000	High	Ongoing	For 5-Year Update of HMP, T/Vs, DPW, and County Planner created GIS maps of successful projects mitigated over past 5+ years.	Map should be produced and DPW, SWCD, and OES should begin pinpointing critical areas. Annual Reviews will update this base map.
Richburg, Village of	Depot Street - removed old concrete, installed interlocking blocks (16), guide rail with Beam (4), and Blockouts (7).	Village, County	IBC & CHIPs	$2,206	High	Jun-09	Project completed.(1) 2009	Routine and post storm maintenance and replace box in 5 years
Cuba, Village of	Continue replacing riprap that has been washed away during flood events (Spring Street Hill).	Village DPW	IBC	$15,000	High	As Needed	Had some riprap wash from a project on upper Spring St. Hill.	Repair areas that were affected with more riprap
Cuba, Village of	Replace riprap and stabilize ditch banks from erosion (Spring Street Hill).	Village	IBC	$6,300	High	2010	Project completed.(3) 2010	
Action 4.1.3	Engage in stream bank stabilization and stream corridor management with private and public partnership.	SWCD	TBD	$2.6 Million-$750,000 state	High	Ongoing	Allegany County received Hazard Mitigation Grant to address two sites, in the Towns of Amity and Belfast. Senator Young assisted in obtaining state funds.	Identify and prioritize other sites that require mitigation.
Alfred University	Debris and brush removal in stream bank system.	Alfred University	Seeking Grants	$40,000	Med	Ongoing		
Alfred, Village of	Stream rehabilitation - clear downed/leaning trees and riprap unstable banks village-wide (and South Main St. and West University).	Village	Seeking Grants	$60,000	Med	Ongoing	No progress to date.	Seeking funding.

Caneadea, Town of	Soil erosion / landslide - River cutting into NYSDEC Greenway, Eckler home and properties north -land is slipping, and State Route 19 at risk for slide - riprap bank along Genesee River.	NYSDEC, NYSDOT, SWCD, NRCS, County, Town	FEMA	$75,000	Med	Ongoing		
Cuba Lake District	Ongoing debris removal from Lake after High Water.	CLD/NYS	IBC	N/I	High	Ongoing		
OBJECTIVE 4.2 – Improve and maintain STREAMS AND DITCHES throughout the community to the fullest extent possible.								
Action 4.2.1	Implement mitigation actions that address needs at watershed level, including cumulative flood mitigation activities and priorities.	SWCD DPW Towns/ Villages Private Citizens	Small Water-shed Project	Varies by location	Med	Ongoing	Structure is being developed for delivery of these types of projects within the County	
Alfred, Town of	Town wide ditching, cleaning pipe, and stormwater debris.	Town	IBC	$5,000	High	Ongoing	As rental equipment is available, ditching where obstructed.	Ongoing maintenance.
Alfred, Town of	Ditch Restoration on Terbury Rd. and stabilization of 1900 linear feet. Reshaping and placement of medium stone fill (riprap) and filter fabric to control runoff water.	Town	IBC & FEMA & Grant	$31,000	Med	Ongoing	Project deferred. Seasonal road.	Seeking funding.
Allen, Town of	Regrade and gravel 45 miles of road town wide.	Town	IBC	$150,000	Med	Ongoing	Annual maintenance and repair post storms.	
Allen, Town of	Middle Rd. bank stabilization - restore stream bank (trib of Baker Creek), riprap shoulder (geotextile fabric & heavy stone fill).	Town	FEMA	$6,000	High	2003	Project completed. (1) 2003. Work done by County DPW.	
Allen, Town of	Blacktopped 3.5 miles of Old State Road to better protect road surface from hazard events and to increase public safety.	County and Town	CHIPs and Town	$120,903	Med	2007	Project completed. 2007	

Allen, Town of	Bank stabilization (trib of Baker Creek) - Install riprap on gravel fill in Dorvit Road ditch (geotextile fabric & heavy stone fill).	Town	FEMA	$56,500	High	2003	Project completed. (2) 2003. Work done by Town and County DPW.	
Allen, Town of	Stabilize headwall along Peavy Road (replace culvert).	County and Town	Town	$20,000	High	2009	Project completed.(4) 2009	
Allen, Town of	Replace road along trib of Rush Creek - Shepard Road - gravel, regrade, ditch.	Town	FEMA	$8,174	High	2003	Project completed.(5) 2003	
Allen, Town of	Town wide ditching, cleaning pipe, and stormwater debris.	Town	IBC	$10,000	High	Ongoing		
Allen, Town of	Replace 2 culverts on Old State Road (Carson and Cty Rt 15).	Town and County	IBC	$100,000	Med	1-3 years		
Allen, Town of	Replace double tube (2 - 5ft tubes) with box culvert or enlarged steel tube on Dorvit Rd.	Town	IBC	$80,000	Med	1-5 years		
Alma, Town of	Town wide ditching, cleaning pipe, and stormwater debris.	Town	IBC	$15,000	High	Ongoing	2007-2009 completed ditching on Fords Brook Rd South Branch, Alma Hill Rd., 106 Road, White Hill Road, Pump Station.(3)(1)(5)	
Alma, Town of	White Hill Road - Change pipe and ditch.	Town	IBC	$6,700	High	2010		
Almond, Town of	Realign ditches and line with fabric and stone fill Dungan Rd. Hollister Rd., Canaseraga Rd., Rossman Rd., Bailey Hill Rd.	Town	FEMA & Grants	$20,000	Med	1-5 years	Ditching completed.	Stonework still needed - pursue funding.
Almond, Town of	Canacadea Creek along Whitney Rd. needs to be straightened and riprap or block wall needs to be installed to contain creek and protect land and structures.	Town and Contractor	FEMA, SWCD & Grants	$100,000	High	1-5 years	No funding, no progress.	Pursue funding.
Almond, Town of	Reshape ditches at Dungan Rd., Hollister Rd., Canaseraga Rd., and Rossman Rd.	Town	IBC	$12,000	Med	2010	Project completed.	Annual maintenance and repair post storms.

Amity, Town of	Plumbottom Creek/Ingham Road: Detention pond to pick up high water silt deposits and rip rap on creek banks.	Town & Contractor	NRCS, PDM & FEMA	$175,000	High	2005 partially done	(1) Rip rap work completed in 2005; detention pond deferred pending funding.	Pursue funding for detention pond work.
Amity, Town of	Ackerman Hill: cofferdam at bottom to slow down speed of water and slow down erosion.	Town & Contactor	IBC & FEMA	$41,000	High	1-5 years	No funding for cofferdam. Riprap completed one side.	Pursue funding and complete other roadside.
Amity, Town of	Back River Road, Rip Rap along river (small streams where water flows through culverts-two locations).	Town	IBC & FEMA	$100,000	High	2005	Project completed. (2)(3) 2005	Routine maintenance.
Amity, Town of	Irish Settlement - rip rap creek embankment (road and shoulder erosion); increase sluice pipes.	Town	IBC	$48,000	High	2006	Project completed. (8) 2006	
Amity, Town of	Feathers Creek: riprap on creek banks to protect road; increased sluice pipes.	Town	IBC & FEMA	$50,000	High	2006	Project completed. (9) 2006	Routine maintenance.
Amity, Town of	Back River Road, riprap along river where Genesee River high water flow cuts embankment approaching Back River Road.	Town, SWCD, COE	Grants	$200,000	High	1-5 years		
Amity, Town of	Cooley Hill Road-erosion on Creek approaching Plumbottom Road; stream improvement - piling and rip rap	Town	Seeking Funding	TBD	High	1-5 years		
Amity, Town of	Cooley Hill Road - Rip Rap embankment to prevent further road erosion due to storm runoff (no name creek).	Town	IBC	$100,000	Med	1-5 year		
Andover, Village of	Village-wide ditching and cleaning debris	Village	IBC	$2,000	Med	Ongoing	Annual maintenance and repair post storms.	
Andover, Village of	Clean all creeks within the Village	Village, SWCD, DEC, FEMA	DEC, IBC, FEMA	N/I	Med	Ongoing	Need to work with SWCD and DEC to access creeks	
Andover, Village of	Village-wide ditching and cleaning debris	Village	IBC	$4,000	High	2007	Project completed. (3) 2007	Annual maintenance and repair post storms.

Andover, Village of	Diversion ditch cleaning	Village	IBC	$2,000	High	2009	Project completed. (4)	Annual maintenance and repair post storms.
Andover, Village of	Replacement storm drain boxes with larger boxes to manage storm runoff	Village	IBC	$15,000	Med	Ongoing	Pursue funding.	
Angelica, Town of	Eroding drainage areas need to have riprap installed to slow this process.	Town	Town and SWCD	$24,657	High	Ongoing	Some areas have been improved along Angelica Creek.	
Angelica, Town of	Increased riprap in ditches.	Town	FEMA and Town	TBD	High	Ongoing		Pursue funding. Look for other ditches needing rip rap.
Angelica, Village of	High St., Wickem Creek, installed concrete box culvert and installed debris collector in Wickem Creek north of culvert.	Village	FEMA	$152,772	High	2006	Project completed.(10)(11)	
Angelica, Village of	West Main St. installed concrete box at Wickem Creek, riprap spillway (channel 350 ft to Angelica Creek), armor coated creek (W. Main to High St. concrete u-channel).	Village	FHWA, FEMA	$402,992	High	2007	Project completed.(12)(13)(14)	
Angelica, Village of	Wickem Creek - armor coat extra heavy rip rap	Village	FHWA, FEMA	$60,000	High	2007	Project completed.(15)	
Angelica, Village of	W. Main St. (East of Joncy Park) installed 24: relief culvert	Village	IBC	$2,408	High	2008	Project completed.(16)	
Angelica, Village of	East side of Town Hill Rd (Village) installed heavy riprap in ditch.	Village	Multi-model	$15,000	High	2009	Project completed.(17)	
Belfast, Town of	Gleason Hill Rd. 150 feet of roadway dropped approximately 1 foot; area needs to be stabilized.	Town and DPW	FEMA and IBC	TBD	Med	1-5 years	No progress, no funding.	Stop gap project until major funding available will be post storm and routine maintenance.

Belfast, Town of	East River Rd. two thousand feet of roadway and shoulder continuously slides into the Genesee River causing road to drop approximately 1 foot. Heavy rock riprap needs to be installed along affected area.	Town and DPW	FEMA and IBC	TBD	Med	1-5 years	No progress, no funding.	Stopgap project until major funding available will be routine maintenance.
Belfast, Town of	Rip-rap 1500 ft of ditch on Townline Rd.	Town	FEMA	$90,000	High	1 year	Project completed.(2)	
Belfast, Town of	Sheet piling Check Dam complete on White Creek along County Rd 17.	County, Town	County, IBC	$3,973	High	2004	Project completed.(3) 2004	
Birdsall, Town of	Slope protection - rip rap placement and channel work on trib of Black Creek, Hiltonville Rd.	Town	FEMA	$36,022	High	2010	Project completed.(2)	
Birdsall, Town of	Hiltonville, Davison, Jersey Hill Roads, and Cty Rd. 15B need to have ditches rip rapped or concreted to reduce erosion.	Town and County	CHIPs	$30,000	Med	Ongoing	Completed Hiltonville reditch and rip rap in 2009.	Other work to continue as funded.
Birdsall, Town of	Riprap or concrete ditches in areas of York St., Sullivan and Davison Roads.	Town	FEMA	$23,000	High	2010	Completed Sullivan & Davison Roads reditch & rip rap in 2010	York Street was widened and needs further work.
Birdsall, Town of	Riprap in ditches on Gillies Hill Rd. to reduce erosive potential.	DPW	FEMA	$85,000	High	2012	Project started.	Rip Rap needed.
Bolivar, Town of	Rip Rap to stabilize stream banks.	Town	FEMA and Town	$20,000	Med	1-2 years		
Bolivar, Village of	Dig creek bed near South Street, Leather Street, and School Street. Build dyke, provide riprap and baskets and set up a maintenance program to keep these structures in place and functioning properly.	Village	IBC, ACOE	30000	Med	2005	Projects completed.	
Bolivar, Town of	Upstream - clean out brush, install debris collector.	Town	IBC	$15,000	Med	5 years		

Burns, Town of	Town wide ditch digging, regrade and gravel shoulders/roads, cleaning debris.	Town	IBC	$25,000	Med	1-5 years	Annual maintenance and repair post storms.	
Canaseraga, Village of	Riprap for bank stabilization along length of River Street.	Village	FEMA	$200,420	Med	Ongoing	No progress. No match funding.	State cleans creek; none for Village.
Caneadea, Town of	East River Road riverbank stabilization project. Riprap is needed to protect road and bridge #2214450 in the hazard areas.	Town	T/V FEMA Grant	$1 Million	High	1-5 years	Did 1-FEMA project (1564) - failed, not enough $, materials to cover area. Have some grant money. Core samples and Engineering is done.	Find more funding to complete total project.
Caneadea, Town of	Shape shoulder and ditch to creek along State Route 19.	Town	IBC	$3,600	High	Immediate	July 13, 2010 deluge (3 1/2" rain in 4 hours) caused road closure, lost gravel road and 3-4 culverts. State not able to respond, so immediate repair done to reopen highway.	
Caneadea, Town of	Protect Crawford Creek Road - Stream Bank Stabilization (riprap bank) on Crawford Creek and debris removal - stream rechanneling at site.	Town	T/V FEMA Grant 1857	$64,000	High	2010	Project completed. (8) March 2010	
Caneadea, Town of	East River Road (on no name stream) replace aging culvert with a 72" aluminized steel from 60"-72" x 50feet.	DPW and Town	Town	$12,408	High	2008	Project completed.(5) 2008	
Caneadea, Town of	Protect Council House Rd. -FEMA and Town Stream Bank Stabilization Project at Art Arnolds (along no name tributary of Genesee River) - riprap.	Town	Town and FEMA 1857	$50,000	High	2009	Project completed.7) 2009	
Caneadea, Town of	Gravel Russell Hill Road. Clean out and replace pipes.	Town	IBC	$3,600	High	Immediate		
Centerville, Town of	Completed channel work at County Road 3 along Lost Nation Creek (bridge).	County, Town	County	$13,000	High	2009	Project completed.(1) 2009	

Centerville, Town of	Lost Nation Road along trib of Sixtown Creek, rebuilt dyke.	Town	IBC	$2,000	Med	2010	Project completed.(3) 2010	
Centerville, Town of	Remove debris in creek (tributary of Sixtown Creek).	Town, NYS DEC	Town	$10,000	Med	1-5 years		
Centerville, Town of	Town wide ditch digging, regrade and gravel shoulders/roads (50% of town roads), cleaning debris.	Town	IBC	$15,000	High	1-5 years		
Centerville, Town of	Lost Nation Road - maintain ditches to minimize flooding (tributary of Sixtown Creek)(post 2000 flood).	Town	IBC	$5,000	Med	1-5 years		
Centerville, Town of	Lost Nation Road - add increased drainage.	Town	IBC	$6,000	Med	1-5 years		
Centerville, Town of	Replace bridge #2214510 on Higgins Road.	Town, County	CHIPs	$550,000	Med	1-5 years		
Cuba Lake District	Stream Bank Stabilization - Abbott's Creek	CLD/NYS	Grant and IBC	$45,000	High	1 year	Army Corp. permits needed engineering design.	Grubbing and rip rap
Cuba Lake District	Sediment basin on Mt. Monroe Creek to reduce buildup.	CLD & Contractor	FEMA Cuba Lake Mgmt Fund	$118,000	Med	2 years	Project completed. 2009 (funded through FEMA)	Ongoing routine maintenance of 3 basins.
Cuba Lake District	Improve Runoff draining on South Shore Road	CLD/NYS	Grant	N/I	High	1-5 years		
Cuba Lake District	Maintenance, sediment removal from Lake and Basins	CLD/NYS	IBC	N/I	High	Ongoing		
Friendship, Town of	Soil erosion along VanCampen Creek along Route 275	Town	FEMA	$1.1 Mil	High	ASAP	Filing grant ap Unified HMA, DR-1899. Hunt Engineering has completed assessment.	Pursue funding.
Friendship, Town of	Hess Road - replaced 6 ft pipe with 8 ft squat pipe along trib of Genesee River.	Town	IBC	$30,000	High	2007	Project completed.(1) 2007	
Friendship, Town of	Howard Hill Rd. ditch bank protection by rip-rip of stream bank.	Town	FEMA, IBC	$30,000	High	2003	Project completed.(2) 2003	

Friendship, Town of	Austin Road - regravel/regrade road, rip rap ditches.	Town	FEMA, Town	$9,882	High	2010	Project completed.(3) 2010	
Friendship, Town of	Spring Brook Road - regravel, regrade, ditch shoulders (NY1857).	Town	FEMA, Town	$13,758	High	2010	Project completed.(4) 2010	
Friendship, Town of	Haynes Road - regrade road and 300 ft ditch rip rap.	Town	FEMA, Town	$7,600	High	2010	Project completed.(5) 2010	
Friendship, Town of	Howard Hill Rd. - installing pipe with screen to protect road during heavy rain runoff.	Town	FEMA, Town	$15,000	High	2010	Project completed.(6) 2010	
Friendship, Town of	70 feet upstream from Sunnyside Street Bridge - stabilized bank along VanCampen Creek (riprap) and removed two downed trees.	Town	FEMA, Town	$10,100	High	2010	Project completed.(7) 2010	
Friendship, Town of	Replace 6 ft. culvert (enlarge pipe to 8 ft. squat pipe) at Ruckles Road	Town	IBC	$25,000	Med	1-5 years		
Friendship, Town of	Soil erosion - Friendship Country Estates - rip rap bank.	Private	Private	N/I	Med	Ongoing		
Friendship, Town of	Town wide ditch cleaning and brush removal.	Town	IBC	$10,000	Med	Ongoing		
Friendship, Town of	Moss Brook Road - replace 7 culvert with 8 ft.	Town	CHIPs, IBC	$20,000	Med	1-5 years		
Genesee, Town of	Install rip rap on creek banks above and below Deer Creek Bridge	Town	FEMA	$15,000	High	ASAP	Creek banks are washing out and threatening to cause harm to number of residences and to road.	Pursue funds to complete job.
Genesee, Town of	Riprap banks of ditch Coon Hollow Rd. to reduce sediment removal.	Town	FEMA	$10,000	High	1 year	Project completed. Ditches on Coon Hollow & Butternut Brook completed.	Continue monitoring ditches for further trouble.
Granger, Town of	Upgrade the 60 culvert on Parker Road	Town	FMA, HMGP, PDM, Town Budget	$28,000	High	3 years	Currently in application process - DR-1857 and DR-1869.	

Granger, Town of	Replace 60-inch tube on Kempshaw Road with a bridge structure (Trib. Of Keshequa Creek).	Town	FMA, HMGP, PDM, Town Budget	$135,000	High	5 years	Project completed.(1) Replaced culvert with 2004 HMGP funds.	
Granger, Town of	Upgrade the 8 ft culvert on Walbridge Road	Town	FMA, HMGP, PDM, Town Budget	$125,000	Med	5 years		Seeking funding.
Granger, Town of	Upgrade the 60 Inch culvert on English Hill Road to Box Culvert	Town	FMA, HMGP, PDM, Town Budget	$100,000	Med	5 years		
Granger, Town of	Upgrade the 30 Inch arch culvert on Gardner Road	Town	FMA, HMGP, PDM, Town Budget	$28,000	High	3 years		
Grove, Town of	Town wide ditch cleaning.	Town	IBC	$15,000	Med	1-5 years	Annual maintenance and repair post storms.	
Grove, Town of	Town wide brush cutting.	Town	IBC	$7,500	Med	1-5 years	Annual maintenance and repair post storms.	
Grove, Town of	Replaced 50" with 60" culvert on Colton Hill (Keshequa Creek).	Town	IBC	$75,000	High	2009	Project completed.(3) 2009	
Houghton	Diverting surface and storm water away from low lying buildings with a 36" storm drain	Houghton	Budget	$75,000	High	2005	Project completed. In-house with contractor help.	
Hume, Town of	Rip rap Sixtown Creek (Higgins Creek Rd.).	Town	FEMA	$250,000	High	1-3 years		Pursue funding
Hume, Town of	Protection of Genesee relief channel, riprap on Genesee River banks, and the dredging of Cold Creek.	Town & Contractor	FEMA	$800,000	High	1-3 years	Project completed. This project is complete however the dredging portion was disallowed by the NYS DEC.	Routine maintenance will likely be required annually depending on water flow.

Hume, Town of	Stabilize riverbank along Genesee River (1 1/2 miles south of Fillmore in Hume along Rt. 19). Problem worsens since 1996 flood. River is eroding bank (house/garage dropped into river in 2008). RG&E power lines are there. River now up to greenway of old rail bed (60 ft bank).	Town, County and DPW	Grant	$1.5M	High	1-5 years		
Hume, Town of	Rip rap Genesee River along West. River Rd.	Town, County	Grant	$250,000	High	1-3 years		
Hume, Town of	Rip rap Wiscoy Creek along Pond Rd.	Town, County	Grant	$100,000	High	1-3 years		
Hume, Town of	Genesee River Armoring Project Stabilize banks (riprap) by NYS Route 19.	Town	FEMA	$500,000	High	2003-2005	Project completed.(1)	
Independence, Town of	Forsythe Road, Hallsport, Independence Rd., and Peet Rd. Riprap ditches and put in geotextile fabric. Larger storm sewer pipes in streams with large riprap along highways.	Town	IBC, FEMA, SWCD, Grants	$50,000	High	Ongoing		Pursue funding.
New Hudson, Town of	Town wide ditch digging, regrade and gravel shoulders/roads (50% of town roads), cleaning debris.	Town	IBC	$15,000	High	Ongoing		Annual maintenance and post storm repair.
Rushford, Town of	Bridge on Barber Road at Rush Creek, widen headwalls.	Town & FEMA	Grants and IBC	$650,000	Med	1-5 years	In 2009 did $20,000 in repairs to bridge.	
Rushford, Town of	Rush Creek Road along Rush Creek enlarged 18" corrugated with 24" plastic pipe	Town	IBC	$2,500	Med	2005	Project completed.(2) 2005	
Rushford, Town of	West Centerville Road along unknown name tributary enlarged two - 18" with 24" plastic pipes. Raised road, widened shoulder, added gravel, headwall.	Town	IBC	$10,000	Med	2003	Project completed.(3) 2003	
Rushford, Town of	Morrison Road installed pipe to reduce flooding below. Added gravel.	Town	IBC	$3,000	Med	2003	Project completed.(4) 2003	

Rushford, Town of	Barber Road - ditching and road grading	Town	IBC	$20,000	Med	Ongoing		
Scio, Town of	Remove dyke to allow Genesee River onto its flood plain in the vicinity of railroad tracks next to Route 19 south of confluence with Vandermark Creek	Town, County, NYS DOT, STERA, SWCD	Town, Grants	$150,000	High	1-3 years		
Scio, Town of	Riprap along Genesee River behind Town Barns due to soil erosion (almost 500 ft lost over past 5 years).	Town, SWCD	Grants FEMA	$200,000	High	2-3 years		
Scio, Town of	Preliminary water/security feasibility study underway; possible funding needed to upgrade water sources and security.	Engineering Firm, Town	Grants TBD	TBD	High	TBD	Project being evaluated.	
Scio, Town of	Coyle Hill Road, Snowball Hollow, replaced sluice pipe (larger)	Town	IBC	15,500	High	2006	Project completed.(1)	
Scio, Town of	Wolf Spring Rd., changed road crossing sluice, ditched roadside, changed driveway.	Town	IBC	4,500	High	2010	Project completed.(4)	
Scio, Town of	Backflow prevention devices need to be installed in all properties within municipal water zone.	Town	Residents	TBD	High	Ongoing ~1-3 years		
Ward, Town of	Severely degrading shoulder and ditch located in Dry Brook needs to be replaced with fill fabric and a shot-rock lining.	Town / Contractor	IBC CHIPS FEMA	$35,000	High	2 years	No progress. Pursuing funding.	Pursue funding.
Ward, Town of	Shoulder and road threatened by stream on Duke Rd., requires shaping and riprap of stream.	Town / Contractor	IBC/CHIPS FEMA	$30,000	Med	1-5 years	No progress. Pursuing funding. 2009, 2 - 2ft sluice pipes installed to improve water control ($1200).	Pursue funding.
Ward, Town of	Austin Road - replaced 3 ft with 8 ft sluice.	Town	IBC	$18,000	Med	2004	Project completed.(3)	
Ward, Town of	Waugh Brook Rd., Wahl Brook, Installed 2-8 ft sluices to replaced 5 ft sluice.	Town	IBC	$60,000	Med	2006	Project completed.(4)	

Ward, Town of	Duke Rd., 2 - 2 ft sluice installed for storm water control.	Town	IBC	$1,200	Med	2009	Project completed.(5)(6)	
Wellsville, Town of	Hanover Hill - Genesee Watershed. Bank erosion due to steep terrain storm runoff, replace 6 crossover pipes, 2 sections guardrail (200 & 300 ft sections)	SWCD, County, Town	IBC, County, Grant	$150,000	High	1-3 years	County Engineering underway.	Pursue funding and approvals.
Wellsville, Town of	Completed ditching and culvert replacements (larger size) on Larchwood Drive. 3/4 complete on Smith Hollow.	Town	IBC	$15,000	Med	2010	Project completed	
Wellsville, Town of	Helmhold Road - cut shoulders, ditched, stabilized bank (steep terrain storm runoff) dents paved.	Town	IBC	$120,000	High	2010	Project completed. 2010	
Wellsville, Town of	Stabilization of riverbanks in trouble areas.	Town	IBC	$6,000 annually	Med-High	Ongoing		
Wellsville, Village of	Highland Avenue Pond and Ditch: Construction of pond near the Niles Hill Substation with new piping running to a ditch that would also intercept runoff. This ditch would proceed into a new pipe network to the existing system on King Street.	Village	Grants/ Village/ FEMA/TBD	$92,167	High	1-2 years	Project designed, however it has stalled due to easement problems.	Board close to agreement with landowner.
West Almond, Town of	Replace culverts on Dobson Road and Murphy Hill (post June 2009 storm).	Town	Town Budget	$6,000	High	2010	Project completed.	
West Almond, Town of	Dobson, Miller, Henderson, and Perch Roads.: Riprap ditches, several areas.	Town	Seeking Grant Source	$50,000	Med	1-5 years	Project deferred.	Pursue funding.
West Almond, Town of	Dunham Rd.: Riprap ditch on steep hill.	Town	Seeking Grant Source	$50,000	Med	5 years	Project deferred.	Pursue funding.
Willing, Town of	River Road (Genesee River) replace or move crossover culvert.	Town	IBC	$12,000	Med	1-3 years	Planning stage.	

Willing, Town of	Roeke Road (Chenunda Creek) stabilized bank along headwall with riprap.	Town	IBC	$5,000	Med	2010	Project completed. (4)2010	
Willing, Town of	Genesee River at Graves Rd. - Bank Stabilization. Rip rap.	Town	IBC	$2,000	High	2007	Project completed.(2)	
Willing, Town of	McCurdy Road - Rebuild large Culvert Headwall on Outlet -giving way.	Town	IBC	$5,000	High	1-2 years		Pursue funding.
Willing, Town of	Fulmer Valley Road - Chenunda Creek, replace 2 - 6ft culverts (side by side) with Bridge.	Town	IBC, County, FEMA	$247,000	Med	3-5 years		Pursue funding.
Willing, Town of	Christian Hollow Road - Rabbitt Creek, replace 2 - 6ft culverts (side by side) with Bridge.	Town	IBC, County, FEMA	$247,000	Med	3-5 years		Pursue funding.
Wirt, Town of	Clean and improve ditches	Town	IBC	$20,000	High	Ongoing	Townwide 33% done since 2008. Continue program.	Ongoing maintenance.

OBJECTIVE 4.3 – Natural environments, including forests, surface waters, wet lands, floodplains, and stream corridors, are recognized as valuable environmental resources that serve as integral parts of the area's existing and potential open space, natural, and wildlife habitat areas and CONSERVATION IS ENCOURAGED.

Action 4.3.1	Encourage development, acquisition, and management strategies to preserve open space for flood mitigation, fish habitat, and water quality in the floodplain.	SWCD	WRP WHIP CREP	Incor-porated into other Projects	High	Ongoing	Two demonstration projects completed with Trout Unlimited (TU) on Fords Brook for fish habitat with Riparian Plantings.	Investigating further collaboration between TU, DEC, NRCS, and SWCD in an Eastern Native Brook Trout Project (2007).

OBJECTIVE 4.4 – Ensure that forested wetlands and riparian areas retain their ecological, flood protection, and pollutant filtering functions by preserving INDIGENOUS VEGETATION.

Action 4.4.1	Continue to develop and/or enforce existing floodplain regulations to encourage the continued function of naturally occurring flood control mechanisms.	SWCD NYSDEC Towns/ Villages	IBC	$2,000	Med	Within 1 year		
RLRD	Ensure natural shoreline preservation	RLRD	Local IBC	$10,000	High	Ongoing	Working with NYS DEC	Continue coordination with DEC on breakwalls

GOAL # 5 – Increasing DISASTER/EMERGENCY PREPAREDNESS within the Community

OBJECTIVE 5.1 – Understand NATURAL HAZARDS and the risk they pose.

Alfred, Village of	Survey culverts within Village limits to determine proper size for volume of flow.	Village	Seeking Grant	$25,000	Med	Ongoing	Project completed.	
Angelica, Town of	Increased internet monitoring of weather conditions so precautionary steps may be taken and to increase the warning time for hazard events.	Town	IBC	$600	High	2006	Project completed.	
Hume, Town of	Increased ditch maintenance and evaluation of culverts, ponds and drainage areas.	Town	Town Budget	$50,000	Med	Ongoing	Ongoing	Annual maintenance and repair post storms.
Action 5.1.1	Support engineering studies and watershed assessments to encourage the reduction of flood exposure.	HMPG	IBC	IBC	High	Ongoing	SWCD completed work with T/Vs on engineering studies in Hanover Creek, Angelica Park Circle, High St., and Cuba Lake Sediment and Sewer System projects.	Promote further study and identification of additional locations for mitigation actions.
Cuba Lake District	Engineering Assessment - Cuba Lake Dam	CLD/NYS	Grant and IBC	$60,000	High	1 year	Need to establish funding responsibility.	
Action 5.1.2	Support engineering studies and landslide assessments to reduce future events.	Towns/ Villages County HMPG	IBC	IBC	Med	Ongoing		
Houghton	To fully stop bank movement toward Rothenbuhler Hall. Driving pilings in tactical locations throughout hillside to firm bedrock and installing drainage.	Houghton	Budget	$30,000	Med	1-5 years		
Willing, Town of	Graves Road Base Stabilization. Base next to Orebed Creek is sinking.	Town	IBC	$20,000	High	1-2 years	No action. No funds.	Pursue funding.

Action 5.1.3	Support engineering studies and earthquake assessments/monitoring stations to increase knowledge of patterns and probability.	HMPG	IBC	IBC	Low	TBD		

OBJECTIVE 5.2 – Improve hazard information, including DATABASES AND MAPS.

Action 5.2.1	Support the Towns/Villages in their requests for updated flood insurance rate maps.	NYS DEC HMPG	DEC	IBC	High	Ongoing	SWCD and County Planning Department have helped T/Vs with interpretation of Flood Insurance Maps and information.	
Action 5.2.2	Disseminate information on groundwater resources within major glacial valleys in Allegany County to better understand current surface and groundwater resources in the region.	SWCD DOH	Grant	$5,000	High	Ongoing		
Action 5.2.3	Provide geographical information to T/Vs, landowners, and developers.	County Planning	IBC	TBD	High	Ongoing	County has hired Planner - will improve GIS.	Continue refinement of system, data layers, and dissemination of information as needed.

OBJECTIVE 5.3 – Improve public knowledge of HAZARDS AND PROTECTIVE MEASURES so individuals appropriately respond before and during hazard events.

Action 5.3.1	Provide information to local jurisdiction officials on the 100- and 500- year flood plains.	Towns/ Villages NYS DEC SWCD	Grant	IBC	Low	Ongoing	Complete. Maps and information is available. Public information programs continue.	New officials briefing and public education efforts continue.
Action 5.3.2	Ensure that adequate shelter is available to community residents in the event that a hazard event causes displacement.	OES, coordinating Red Cross Towns/ Villages	TBD	TBD	Med	Ongoing	Red Cross has identified 20+ shelters in the County (currently under evaluation). See Appendix R	Notify Town/Village officials of potential Shelter availability and procedure to activate and communicate shelter location during emergency.

Willing, Town of	Creation of "Emergency Center" at the Town Hall for residents that need to be evacuated due to hazard events. This would require the purchase of an emergency generation system for lighting and heat.	Town	Grants	$15,000	High	1-5 years	Grant application turned down in 2008.	Pursuing funding.
Action 5.3.3	Conduct outreach to property owners and agencies regarding risk management associated with hazards.	OES, coordinating	Grant	$5,000	Med	Ongoing	No progress - work still needed.	
Centerville, Town of	Encourage landowner to install culvert to redirect overflow from pond runoff.	Private	IBC	Not budgeted	Med	1-5 years		
Action 5.3.4	Increase public awareness of storm mitigation activities, including storm warnings and advisories.	OES	IBC	$5,000	Med-Low	Ongoing	Addressed through NIMS Training and Public Service Announcements (PSAs).	Continue as needed. Develop PSAs and public education. Provide contacts.
Action 5.3.5	Prompt homeowners to notify Utilities about trees that are threatening utility services and property. (See Section X, Appendix T)	Utilities OES	IBC	IBC	Med	Ongoing	Addressed through NIMS Training.	Plan update process and promote ongoing development of local program delivery.

OBJECTIVE 5.4 – Develop new POLICIES to enhance hazard mitigation initiatives.

Action 5.4.1	Implement training and public outreach to residents, local officials, and contractors on flood response and other hazard mitigation initiatives.	FEMA CEO T/Vs County Planner	TBD	TBD	High	Ongoing	FEMA Public Applicants Briefing hosted by County Preparedness and Public Officials Conference.	
Clarksville, Town of	Increased public awareness of the need to keep trees pruned (removal of dead branches or branches that may hang over utility lines) and the importance of preventing leaves from clogging drains and natural waterways.	Town	IBC	Not budgeted	Med	1-5 years	Project ongoing.	

Cuba, Village of	Create public awareness campaign for proper planting of trees (away from power lines) and care of existing trees (removal of dead limbs and pruning).	Village Tree Board	IBC	$1,000	Med	Ongoing	Tree Board does a physical inventory of trees and lets Dept. of Public Works know of work to be done.	Possible mailer to make public more aware.
Action 5.4.2	Develop and implement programs to coordinate maintenance and mitigation actions to reduce risk to public infrastructure from winter storms (severe).	County Planning DPW Towns/ Villages	IBC	IBC	High	Ongoing	Addressed through NIMS Training.	

GOAL # 6 – Reduce the potential impact of NATURAL DISASTERS on Allegany County's Critical Support Services, facilities, population, and infrastructure.

OBJECTIVE 6.1 – Update LAND USE MAPS and text.

Action 6.1.1	Identify or update existing land use in major stream corridors and floodplains in Allegany County.	County Planning DEC T/Vs	IBC	IBC	Med	Ongoing	GIS System implemented in County Planning.	Land use overlay needs further development.

OBJECTIVE 6.2 – Update and increase access to VITAL COUNTY-WIDE DATA.

Action 6.2.1	Establish a framework to compile and coordinate surface water management plans and data across the county.	Towns/ Villages SWCD DPW 911 Coordinator	IBC	IBC	Low	Ongoing	County has updated Pictometry and purchased a new CAD system.	
Action 6.2.2	Develop source water assessment to better understand the groundwater dynamics and re-charge areas.	SWCD DOH EPA	SWAP	$15,000	High	Ongoing	SWAP completed by NYS DOH.	Protection measures need development.
Action 6.2.3	Enhance GIS coverage and analysis of existing and planned, future utility services in the county.	Utility Companies County Planning	IBC	IBC	Med-Low	Ongoing	Communications network underway. Joint water/sewer proposed.	Continue efforts to coordinate.
Action 6.2.4	Continue to develop inventory of at-risk buildings and infrastructure.	Towns/ Villages HMPG County Planning	IBC	IBC	High	5 years	Ongoing by Towns, Villages, County and as part of 5-Year Hazard Mitigation Plan Review.	

Canaseraga, Village of	Rebuild CR-13B (Miller Street).	Village	County & Village	TBD	Med	1-3 years		
Rushford, Town of	Barber Road - Pave road - no longer Seasonal Only	Town	IBC	$30,000	Med	5 years		
Action 6.2.5	Maintain GIS data that would include buildings, roads, bridges, etc.	DPW SWCD County Planning	IBC	IBC	Med	Ongoing		
Action 6.2.6	Provide Allegany County emergency responders with centralized mapping services so they can easily obtain maps and geographic data when responding to emergency related events.	SWCD DPW OES	IBC	$30,000 annually	High	Ongoing	County dispatch 911 has computerized mapping for use with rural numbers.	Seneca Trail RC&D & SWCD have obtained funding for a Dry Hydrant project, to locate and assess the condition of the dry hydrants in Allegany County. This project will be started in 2007. Once completed a list of all Dry Hydrants should be sent to 911 for emergency response.
Action 6.2.7	Support ongoing and future Hazard Mitigation Planning.	HMPG	FEMA	$3,000 annually	High	Ongoing	Annual meetings are being held by the Hazard Mitigation Planning Group to further the Allegany County Multi-Jurisdictional Hazard Mitigation Plan.	
Action 6.2.8	Provide information to Emergency Management webpage for Allegany County; provide information for public officials, emergency responders, and residents.	HMPG OES	IBC	IBC	High	Ongoing	911 Center now has a website that has a map with a list of past disasters.	

Action 6.2.9	Develop data on potential wildfire areas within Allegany County.	Fire Services Towns/ Villages SWCD OES NYS DEC	IBC Grants	$10,000	Low	5 years	No progress to date.	Meeting with all partners for discussion.

OBJECTIVE 6.3 – Minimize impact of hazards through PLANNING AND DEVELOPMENT.

Action 6.3.1	Identify and plan for use of backup water supply for public water systems should the primary water supply become contaminated or compromised.	Towns/ Villages DOH OES	IBC	IBC	High	Ongoing	Emergency tanker made available for community use through OES.	Municipal/public supplies need planning for loss scenarios.
Almond, Village of	Maintain Water Supply to 500 residents. Upgrade 1972 generator. Working with Grant Writer. Establish town wide water district.	Village	FEMA, Rural Water, College Budget	$65,000	High	3 years		
Bolivar, Village of	Plan water system combination with Village of Richburg.	Villages Combined Water Board	USDA	N/I	Med	Ongoing		
Richburg, Village of	Install new water main lines (2500 feet, 8-inch line) inside Village water district along Rt. 275.	Village & Contractor - Upstate Utilities	Grant Source / Tax Levy	$160,000	High	Competed in 2010	Project completed.(2) Nov-May 2010	
Richburg, Village of	Installed new 8-inch water line in Cadytown along Rt. 275.	Village, Contractor	Grant	$400,.000	High	2006	Project completed.(3) 2006	
Richburg, Village of	Install new water line in Village.	Village	Grant	$500,000	High	1-5 years	Seeking funding.	
Action 6.3.2	Continue use of the NYSDEC's Stormwater Management Manual to minimize the impact of future land use changes.	CEO Towns/ Villages SWCD/ DPW All Municipal Entities	IBC	IBC	High	Ongoing	New manuals are in place and available for reference.	Continued promotion of the guidelines and information.

Action 6.3.3	Expand and enhance procedures for testing and sampling the water supply and a warning system should any tests reveal contamination.	Public Safety Towns/ Villages DOH	IBC	IBC	High	Ongoing	Routine procedures are in place NYS DEC, DOH.	Further discussion with Department of Health on how they will deal with this issue.
Action 6.3.4	Develop water vulnerability assessments (VA) for water supply and water treatment systems and make improvements to harden security and ensure that appropriate emergency plans are in place.	DOH SWCD DEC and Community Water System	SWAP	TBD	High	Ongoing	SWAP performed for all public supplies.	Continue efforts. Further development needed.
Action 6.3.5	Identify appropriate protection measures for groundwater and public drinking water systems.	Towns/ Villages DOH and Community Water System	SWAP	TBD	High	Ongoing	Inventory completed.	Identified threats need to be matched to protection measures.
Angelica, Village of	Salt storage shed or building for environmental consideration (Run off)	Village	IBC, Grants	$75,000	Med	1-5 years		
Birdsall, Town of	Salt storage shed or building for environmental consideration (Run off)	Town	Town and CHIPs	$50,000	Med - High	2015	Planning.	
Caneadea, Town of	Salt storage shed or building for environmental consideration (Run off)	Town	Town and Grant	$100,000	Med - High	1-5 years	Ongoing.	
Genesee, Town of	Salt storage shed or building for environmental consideration (Run off)	Town	IBC	$155,000	Med	1-3 years	Applying for grant.	Pursue funding.
Ward, Town of	Salt storage shed or building for environmental consideration (Run off)	Town	FEMA IBC	$150,000	Med	1-2 years		

Wellsville, Village of	Install new Sand/Salt Storage Facility. Due to condition of existing structure and close proximity to Genesee River, flooding could affect river with salt residual.	Village	Grants, IBC, Village, Town	$175,000	Med	1-5 years		
Wirt, Town of	Build sand/salt storage facility for environmental consideration (Run off) for ready access during severe storm.	Town	IBC	Not budgeted	Med	1-5 years		
Action 6.3.6	Continue support of the Allegany County Hazard Planning Group.	Board of Legislators	IBC	IBC	High	Ongoing	Hazard Mitigation Plan adopted by County Legislature and included in Comprehensive Plan.	Strengthen Plan delivery mechanisms.
Action 6.3.7	Propose a New York State emergency equipment depot in Allegany County for Western New York.	OES/ DOH/ DPW DOT	DPW HAZMAT funding FEMA	$100,000	High	5 years	Sand bags provided to County; however, State does not believe Depot would become a reality.	

OBJECTIVE 6.4 – Minimize impact to property and infrastructure by developing INNOVATIVE APPROACHES to known hazard problems.

Action 6.4.1	Encourage the use of Snow Fences/ Shelter Belts / Windbreak. Continue to explore & implement new designs of snow fences, windbreaks, and shelterbelts to reduce the amount of snow on pavement. Continue to encourage coordination with other agencies to discuss policies, procedures, best practices, and lessons learned in the area of snow and ice control.	County, T/Vs	IBD	TBD	Med	Ongoing		
Andover, Town of	Live windbreaks for areas that have excess drifting during snowfall events.	Town, Residents	IBC	Not budgeted	Med	Ongoing	Some areas have cooperated.	

Scio, Town of	Drum Rd., Drum Rd. Creek, New dry well with 12" sluice road crossing.	Town	IBC	4500	High	2010	Project completed.(7)	
Ward, Town of	Planting of vegetative windbreaks to decrease snow drifting.	Town / Contractor	Demon-stration Grant	$10,000	Med	5 years	Approached landowners - declined to participate.	
West Almond, Town of	Live windbreaks needed in drifting areas. This requires the cooperation of the landowners and/or the County.	Town	Seeking Grant	$15,000	Med	1-5 years	Project deferred.	Pursue funding.

OBJECTIVE 6.5 – Update ESSENTIAL EQUIPMENT used for emergency response operations.

Action 6.5.1	Roadway Safety – Minimize the disruption and cost of storm events on roadways by encouraging municipalities to purchase appropriate snow & ice removal equipment and continue to follow policies and procedures; regularly review and adopt changes; evaluate new equipment; conduct operator training. Mutual aid - Encourage shared services at the local level for emergency services.	County, T/Vs	IBC	TBD	Low	Ongoing	Intermunicipality agreements for shared services have been updated for 2010.	
Almond, Town of	Purchase equipment to clear trees.	Town	IBC	$108,000	High	2009	Project completed. Purchased excavator ($100,000) and trimmer ($8,000).	
Andover, Town of	New updated snow removal equipment.	Town	IBC	$45,000	High	1-5 years	Replaced 1 truck, bonded for 5 years.	Seeking funding.
Birdsall, Town of	Update road-building equipment (ditching bucket, etc.).	Town	IBC	$100,000	Med	1-5 years	Planning.	
Bolivar, Town of	New Mowing & Broom tractor, Plow truck, snow removal equipment, Sander	Town	IBC	$100,000	Med - High	1-2 years		Pursue funding.

Bolivar, Town of	Need addition for Plow Trucks - safety & protect equipment (must hook/unhook with each use).	Town	IBC	Not budgeted	Med	1-5 years		Pursue funding.
Bolivar, Village of	New equipment for hauling and removing snow, to replace older equipment that is breaking down.	Village	IBC, Grants	70000	Med	2008	Purchased 2 snowplows.	
Clarksville, Town of	Equipment needed to complete flood prevention projects.	Town	TBD	TBD	TBD	TBD	TBD	
Genesee, Town of	New equipment for snow removal. (Two new pick-ups ¾ ton and 1.5 ton with snowplow, and sander)	Town	Loans	$133,000	High	1 year	Snow removal equipment purchased and new 10-wheeler snowplow.	Continue updating equipment before it wears out.
Granger, Town of	Update Town highway equipment.	Town	FMA, HMGP, PDM, Town Budget	$600,000	High	Ongoing	2005-10-wheel dump truck; 2009-loader, tractor, pickup truck.	Ongoing upgrading of equipment.
Independence, Town of	Newer tree removal equipment as well as trucks for spreading sand.	Town	IBC & Grant	$250,000	Med	Ongoing	Used trucks for sand spreading.	
West Almond, Town of	Purchase of updated snow removal equipment.	Town	Seeking Grant / Town Budget	$60,000	Med	1-5 years	Project deferred.	Seeking funding.
Wirt, Town of	More updated equipment needed to deal with extreme snow removal.	Town	Grants / Tax Levy	$300,000	Med	1-5 year	2010 bought loader, '09-used plow and sander, '08 used road grader, '06 bought plow, continue to replace as needed.	
Wirt, Town of	Build additional equipment storage to protect equipment.	Town	IBC	Not budgeted	Med	1-5 years		

GOAL # 7 – To identify, introduce, and implement COST EFFECTIVE HAZARD MITIGATION MEASURES to accomplish the County's Goals and Objectives and to raise the awareness of, and acceptance of the Hazard Mitigation process.

OBJECTIVE 7.1 – Adopt ordinances with the most UPDATED REGULATORY REQUIREMENTS concerning floodplains and other natural hazards.

Action 7.1.1	Encourage the maintenance of naturally controlling flood control mechanisms by developing and/or enforcing existing floodplain regulations.	County Planning DEC OES SWCD	IBC	TBD	Med	Ongoing		Public education and enforcement mechanisms.
Action 7.1.2	Develop model ordinance for sediment and erosion control, storm water control, stream corridor management, and other hazard preventative policy.	County Planning DEC OES SWCD	IBC	TBD	Med	Ongoing		Public education and delivery mechanism needed.
Ward, Town of	Improve the town's road right- of-way via tree or limb removal.	Town / Contractor	IBC/CHIPS FEMA	$4,500 Yearly	Med	Ongoing	Town rented a brush hog & boom and has cleared right of ways. $4500.00	Ongoing
Action 7.1.3	Evaluate and develop, as appropriate, a parking ordinance for emergency snow removal.	Towns/ Villages	IBC	IBC	Med	Ongoing		

OBJECTIVE 7.2 – Encourage strict enforcement of REGULATIONS, BUILDING CODES, AND OTHER LAND USE/DEVELOPMENT CONTROLS adopted by the government body.

Action 7.2.1	Establish a framework to compile and coordinate surface water management plans and data across the county.	SWCD County & Local Planning	IBC	TBD	Med	Ongoing		
Action 7.2.2	Integrate the goals, objectives, and actions from this plan into existing jurisdictions and county regulatory documents and programs, where appropriate (including zoning ordinances, building codes, and land use policies).	County-wide	IBC	IBC	High	Ongoing	New County Comprehensive Plan assimilates existing plans (2008) and includes county Hazard Mitigation Plan.	
Cuba, Village of	Review building codes for relevance and make changes as needed.	Code Committee	IBC	Not budgeted	Med	Ongoing	Code committee meets and addresses problems as they arise.	Continue as is

Cuba, Village of	Stay in contact through meeting with the code enforcement officer as to the integrity of the buildings in the Village.	Village & Code Enforce-ment	IBC	Not budgeted	Med	Ongoing	Code Enforcement Officer gives a report at the monthly Board Meeting. Most code violations done by complaint rather than building inventory.	Maybe a 5 Year visual inspection of buildings
Cuba, Village of	Have code enforcement officer keep Village appraised of deteriorating structures that may not be able to safely hold heavy snow loads.	Village & Code Enforce-ment	IBC	$2,400	Med	Ongoing	Code Enforcement Officer reports at Board Meeting. Most code violations done by complaint rather than building inventory.	Maybe a 5 Year visual inspection of buildings
Ward, Town of	Review building codes to ensure tornado strength codes are being enforced for new structures and remodeling.	Town / Contractor	IBC CHIPS FEMA	$1,000	Med	1 year	New Code Enforcement Official has assumed enforcement.	Ongoing
West Almond, Town of	Enforcement of current building codes.	Town	Town Budget	Varies	High	Current – Ongoing	Town Code Enforcement Official has been brought on board	
Action 7.2.3	Enhance the availability of information for decision makers and permit issuers regarding hazards and physical land features that could affect proposed projects. Promote land-use development practices that will reduce risk from natural hazard. Provide technical assistance and training material for local officials to improve understanding of potential land-use policies and ordinances to mitigate hazards.	Local Munici-palities, County Planner /GIS, SWCD	IBC	TBD	Med	Ongoing	County SWCD applied for a grant for a centralized location for Towns/Villages to access for development and/ or permit applications. Grant was not approved. A pilot project is being developed.	
Action 7.2.4	Wherever practicable, use zoning and other growth management techniques to channel intensive development to areas outside of floodplains.	Towns/ Villages CEO	IBC	IBC	High	Ongoing		

OBJECTIVE 7.3 – Ensure all new developments are elevated above the BASE FLOOD ELEVATION.

Action 7.3.1	Support engineering studies and watershed assessments to encourage the reduction of flood exposure.	SWCD County & Local Planning	IBC	As available	Low	Ongoing		
Action 7.3.2	Identify and address obstructions to surface water drainage.	Towns/ Villages	IBC	IBC	High	Ongoing		
Action 7.3.3	Limit to the extent practicable, development within floodplain areas to avoid degradation of their capacity to control flood levels and reduce potential future losses due to flooding.	Towns/ Villages, CEO, Planning Board	IBC	As available	Med	Ongoing		
Action 7.3.4	Ensure that property development that occurs within the floodplain areas is constructed to be flood proof, to the extent possible.	Towns/ Villages CEO	IBC	IBC	High	Ongoing		

Legend :

AFLB = Agri-Foods Laboratory Branch

CCE = Cornell Cooperative Extension

CEO = Code Enforcement Officer

CHIPS = Consolidated Highway Improvement Program

CREP = Conservation Reserve Enhancement Program

CRS = Community Rating System

DEC = Department of Environmental Conservation

DOH = Department of Health

DOT = Department of Transportation

DPW = Department of Public Works

EPA = Environmental Protection Agency

EPF = Environmental Protection Fund

EQIP = Environmental Quality Incentives Program

IBC = Internal Budget Contribution

MP = Milepost

N / I = Needs Identification

NA = Not Applicable

NRCS = Natural Resources Conservation Service

OES = Office of Emergency Services

STERA = Southern Tier Extension Railroad Authority

SWAP = Source Water Assessment Program

SWCD = Soil & Water Conservation District

TBD = To Be Determined (We don't know yet)

T / V's = Towns / Villages

USCOE = US Corps of Engineers

WHIP = Wildlife Habitat Incentives Program

WNYP = Western New York & Pennsylvania Railroad

WRP = Wetlands Reserve Program

Figure 64. Mapped Completed Hazard Mitigation Projects.

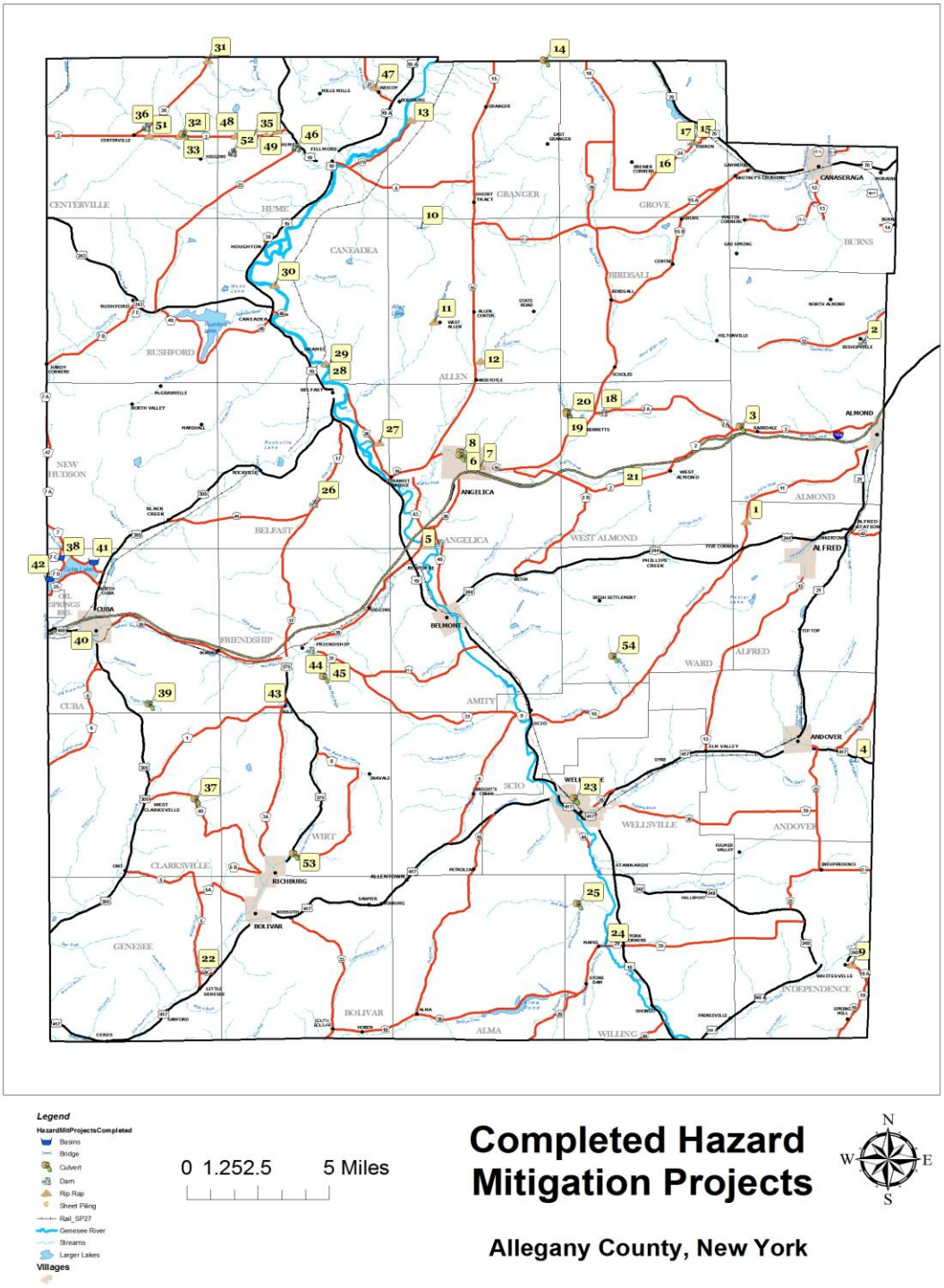


Table 132. Key for Figure 64 Mapped Completed Hazard Mitigation Projects

Marker	Town	Route	Structure	Stream	Mitigation Measure	Date	Cost	Primary Sponsor
1	Alfred	County Route # 11	Bank Stabilization	McHenry Valley Creek	Rip Rap Placement and Channel Work	3/1/2009	$7,947.14	Allegany County
2	Almond	Bishopville Road	L. B. # 04 - 23	Trib. Of Canisteo River	Sheet Piling Check Dam / Heavy Stone Fill	9/15/1994	$6,674.37	Allegany County/ Town
3	Almond	Donnelly Road	Local Culvert # 1	Trib. Of Karr Valley Creek	Installed New Hydraulically Adequate Culvert	5/18/2006	$72,891.71	Allegany County/ Town
4	Andover	Quigg Hollow Road	L. B. # 06 - 09	Quigg Hollow Creek	Installed New Hydraulically Adequate Bridge	6/1/2008	$184,903.15	Allegany County/ Town
5	Angelica	County Route # 48	L. C. # 48 - 12	Trib. Of Genesee River	Sheet Piling Check Dam / Heavy Stone Fill	12/1/2003	$110,456.63	F.E.M.A.
6	Angelica	High Street	Local Culvert # 1	Trib. Of Angelica Creek	Installed New Hydraulically Adequate Culvert	8/1/2006	$152,772.00	F.E.M.A.
7	Angelica	Peacock Hill Road	Bank Stabilization	Angelica Creek	Rip Rap Placement and Channel Work	12/1/2009	$24,657.00	Soil & Water
8	Angelica	West Main Street	Local Culvert # 1	Trib. Of Angelica Creek	Installed New Hydraulically Adequate Culvert	8/1/2007	$402,992.00	F.H.W.A.
9	Independence	County Route # 19	Bank Stabilization	Spring Mills Creek	Stacked & Pinned Rock Rip Rap	5/10/2004	$26,399.00	N.R.C.S.
10	Allen	Botsford Hollow Road	L. B. # 02 - 03	Trib. Of Rush Creek	Installed New Hydraulically Adequate Bridge	1/18/2008		Allegany County/ Town
11	Allen	Dorvit Road	Bank Stabilization	Trib. Of Baker Creek	Geotextile Fabric & Heavy Stone Fill			F.E.M.A.
12	Allen	Middle Road	Bank Stabilization	Trib. Of Baker Creek	Geotextile Fabric & Heavy Stone Fill			F.E.M.A.
13	Granger	County Route # 27B	L. B. # 18 - 06	Trib. Of Genesee River	Stacked Rock Rip Rap	12/1/2000	$7,650.00	N.R.C.S.

14	Granger	Kempshaw Road	Local Culvert # 1	Trib. Of Keshequa Creek	Installed New Hydraulically Adequate Culvert	11/15/2004	$92,826.26	F.E.M.A.
15	Grove	County Route # 24	Bank Stabilization	Ewart Creek	Stacked & Pinned Rock Rip Rap	3/1/2004	$50,149.00	Allegany County
16	Grove	County Route # 24	Bank Stabilization	Ewart Creek	Sheet Piling Retaining Wall	6/1/1988		Allegany County
17	Grove	County Route # 24	L. B. # 19 - 01	Ewart Creek	Installed New Hydraulically Adequate Bridge	6/24/2009	$177,455.87	Allegany County
18	West Almond	County Route # 2A	L. C. # 2A - 18.5	Black Creek	Concrete Block Check Dam	8/1/1997		F.E.M.A.
19	West Almond	Dowd Road	Local Culvert # 6	Trib. Of Black Creek	Installed New Hydraulically Adequate Culvert	5/12/2005		F.E.M.A.
20	West Almond	Dowd Road	Local Culvert # 8	Trib. Of Black Creek	Installed New Hydraulically Adequate Culvert	9/8/2004		F.E.M.A.
21	West Almond	South Schuyler Road	L. B. # 27 - 07	Angelica Creek	Installed New Hydraulically Adequate Bridge	6/21/2007	$181,356.69	F.E.M.A.
22	Genesee	County Route # 5	L. B. # 17 - 04	Windfall Creek	Installed New Hydraulically Adequate Bridge	9/11/2008	$208,555.83	Allegany County
23	Ward	Waugh Brook Road	Culverts	Trib. Of Vandermark Creek	Installed New Hydraulically Adequate Culvert	8/1/2007	$60,000.00	Town of Ward
24	Wellsville	Meadowbrook Court	Local Culvert # 1	Trib. Of Genesee River	Installed New Hydraulically Adequate Culvert	8/15/2007	$23,018.00	Allegany County/ Town
25	Willing	County Route # 29	L. B. # 28 - 03	Genesee River	Installed New Hydraulically Adequate Bridge	9/23/2002	$684,243.48	Allegany County
26	Willing	Fords Brook South Branch	Local Culvert # 1	Fords Brook	Installed New Hydraulically Adequate Culvert	7/1/2005		Allegany County/ Town
27	Belfast	Miller Road	L. B. # 08 - 03	White Creek	Sheet Piling Check Dam / Heavy Stone Fill	5/1/2004	$3,972.79	Allegany County/ Town

28	Belfast	Van Allen Road	Bank Stabilization	Trib. Of Genesee River	Geotextile Fabric & Heavy Stone Fill	8/1/2005		F.E.M.A.
29	Caneadea	East River Road	Bank Stabilization	Genesee River	Heavy Stone Fill			F.E.M.A.
30	Caneadea	East River Road	L. B. # 12 - 20	Trib. Of Genesee River	Installed New Hydraulically Adequate Bridge	3/11/2008	$183,493.39	Allegany County/Town
31	Caneadea	Shongo Valley Road	Bank Stabilization	Genesee River	Heavy Stone Fill			F.E.M.A.
32	Centerville	County Line Road	Bank Stabilization	Cold Creek	Rip Rap Placement & Channel Work	8/1/2000		F.E.M.A.
33	Centerville	County Route # 3	L. B. # 13 - 09	Trib. Of Sixtown Creek	Rip Rap Placement & Channel Work	8/1/2000	$25,259.21	N.R.C.S.
34	Centerville	County Route # 3	L. B. # 13 - 09	Trib. Of Sixtown Creek	Rip Rap Placement & Channel Work New Bridge	12/1/2009	$12,223.84	Allegany County
35	Centerville	County Route # 3	L. C. # 03 - 18	Trib. Of Sixtown Creek	Installed New Hydraulically Adequate Culvert	5/20/2004	$86,184.84	F.H.W.A.
36	Centerville	County Route # 3	Site # 5	Sixtown Creek	Rip Rap Placement and Channel Work	12/1/2000	$12,370.00	N.R.C.S.
37	Centerville	County Route # 36	L. B. # 13 - 05	Trib. Of Sixtown Creek	Sheet Piling Check Dam / Heavy Stone Fill	8/1/2000	$37,190.16	F.E.M.A.
38	Clarksville	County Route # 40	L. C. # 40 - 35	Trib. Of Dodge Creek	Installed New Hydraulically Adequate Culvert	10/28/2008	$129,095.99	Allegany County
39	Cuba	County Route # 7C	Sediment Basins	Abbotts Creek	Grade Control Sediment Basins	10/1/2006	$106,000.00	Cuba Lake District
40	Cuba	Farnsworth Road	Local Culvert # 1	Trib. Of Oil Creek	Installed New Hydraulically Adequate Culvert	8/31/2006	$47,283.44	F.E.M.A.
41	Cuba	Mill Street	L. B. # 15 - 15	Griffin Creek	Installed New Hydraulically Adequate Ped. Bridge	6/24/2004	$45,000.00	Allegany County/ Town

42	Cuba	Mount Monroe Road	Sediment Basins	Trib. Of Cuba Lake	Grade Control Sediment Basins	10/1/2008	$113,000.00	Soil & Water
43	Cuba	Munger Hollow Road	Sediment Basins	Munger Hollow Creek	Grade Control Sediment Basins	6/1/1988	$30,000.00	Soil & Water
44	Friendship	County Route # 1	L. B. # 16 - 06	Van Campen Creek	Installed New Hydraulically Adequate Bridge	9/15/2004	$567,503.00	F.E.M.A.
45	Friendship	County Route # 31	L. B. # 16 - 03	Van Campen Creek	Sheet Piling Weir / Heavy Stone Fill	9/1/2003	$13,510.00	N.R.C.S.
46	Friendship	Moss Brook Road	Local Culvert # 1	Moss Brook	Installed New Hydraulically Adequate Culvert	11/14/2003	$19,423.25	F.E.M.A.
47	Hume	County Route # 23	L. B. # 20 - 13	Cold Creek	Rip Rap Placement and Concrete Weir	6/1/2001	$35,900.00	N.R.C.S.
48	Hume	County Route # 27	Bank Stabilization	Trib. Of Wiscoy Creek	250 Linear Feet of Stacked & Pinned Rip Rap	1/1/2001	$78,716.30	N.R.C.S.
49	Hume	County Route # 3	L. C. # 03 - 10	Trib. Of Sixtown Creek	Rip Rap Plunge Pool at Culvert Outlet (Site # 4)	1/1/2001	$30,444.00	N.R.C.S.
50	Hume	County Route # 3	Site # 1	Sixtown Creek	650 Linear Feet of Heavy Stone Fill Rip Rap	12/1/2000	$47,900.00	N.R.C.S.
51	Hume	County Route # 3	Site # 2	Sixtown Creek	475 Linear Feet of Heavy Stone Fill Rip Rap	12/1/2000	$25,425.00	N.R.C.S.
52	Hume	County Route # 3	Site # 3	Sixtown Creek	Rip Rap Placement and Channel Work	12/1/2000	$5,956.00	N.R.C.S.
53	Hume	Higgins Road	L. B. # 20 - 18	Sixtown Creek	Sheet Piling Check Dam / Heavy Stone Fill	12/1/2000		F.E.M.A.
54	Wirt	County Route # 8	L. C. # 08 - 41	Pleasant Valley Creek	Installed New Hydraulically Adequate Culvert	8/11/2005	$122,996.30	F.E.M.A.

Action Plan

Analysis of Local Polices, Program, and Capabilities

Each Town and Village reviewed what type of Policies, Programs and Plans they presently have in place. The Supervisors, Highway Superintendents and Clerks met and reviewed the FEMA capabilities worksheet. The results in Section II begin with a countywide analysis and then are broken into regions.

Each participating jurisdiction was instructed to identify all existing plans for their region. Once these plans were identified, they reviewed their existing plans and assessed the mission of each plan. Where applicable, these goals were included in hazard identification and mitigation action identification. Each jurisdiction was encouraged to revise their existing plans to include the Hazard Mitigation Plan.

Some comments made as to how they continue to incorporate the hazard mitigation plan in their existing policies, programs, capabilities included:

- Use as key background document
- Major basis for flood hazard planning
- Increase culvert size in flood prone areas & monitor
- Control building in town to prevent disaster
- Key element for development of land and use
- Key element in zoning map planning process
- Used to enforce sound structures to withstand storms

Allegany County Land Use and Development Trends

Allegany County has used GIS capabilities to produce a color-coded map of land use for the entire county. Forty-five (45) percent of the county is covered by deciduous forests and twenty-four (24) percent is in mixed forest cover. Twenty-seven (27) percent of the land is used for agricultural purposes, such as pasture, hay and row crops. Commercial and residential land use occupies only .002% of the county.

Figure 65: Northwestern Region of Allegany County Land Use.

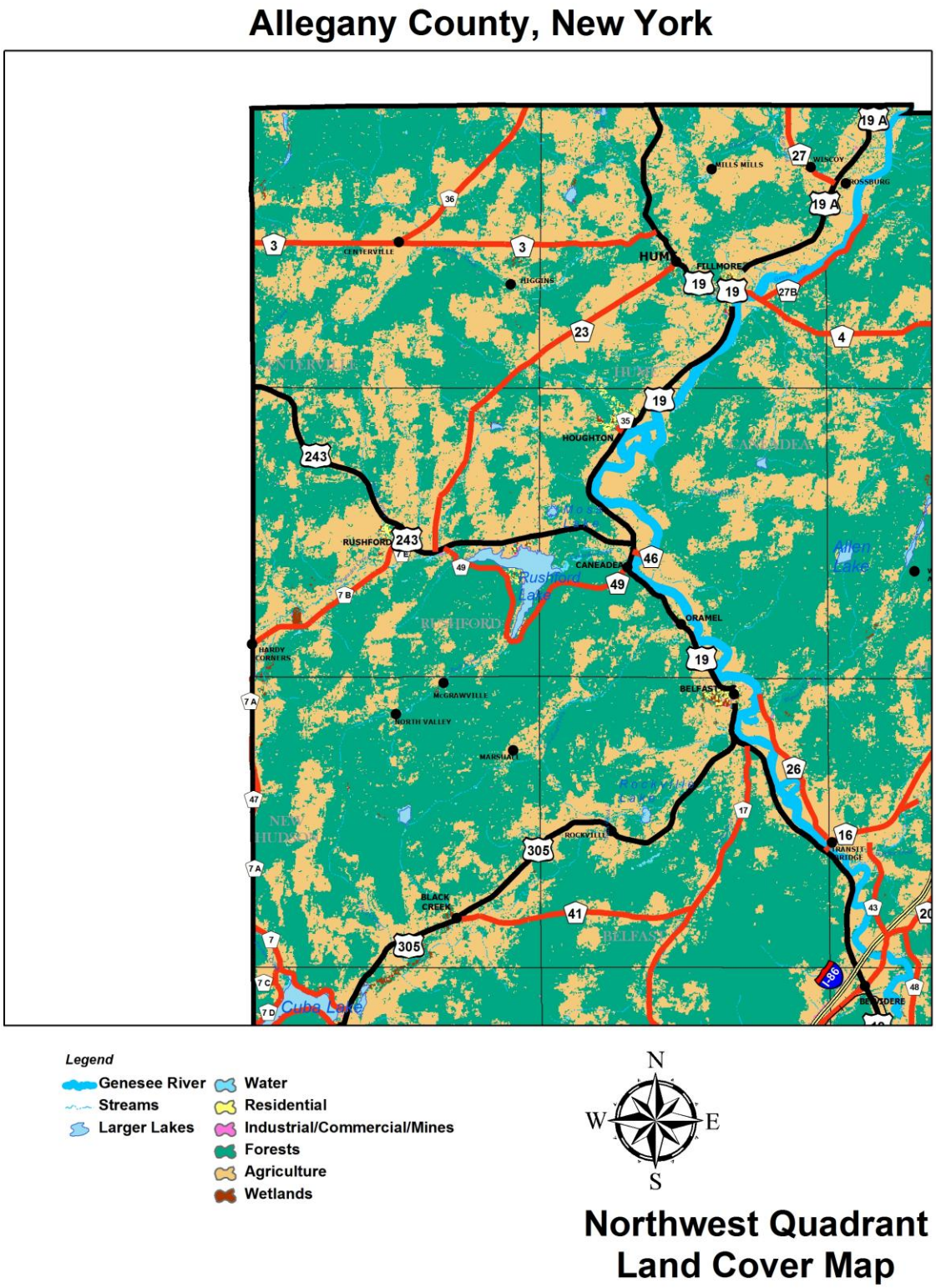


Figure 66: Northeastern Region of Allegany County Land Use.

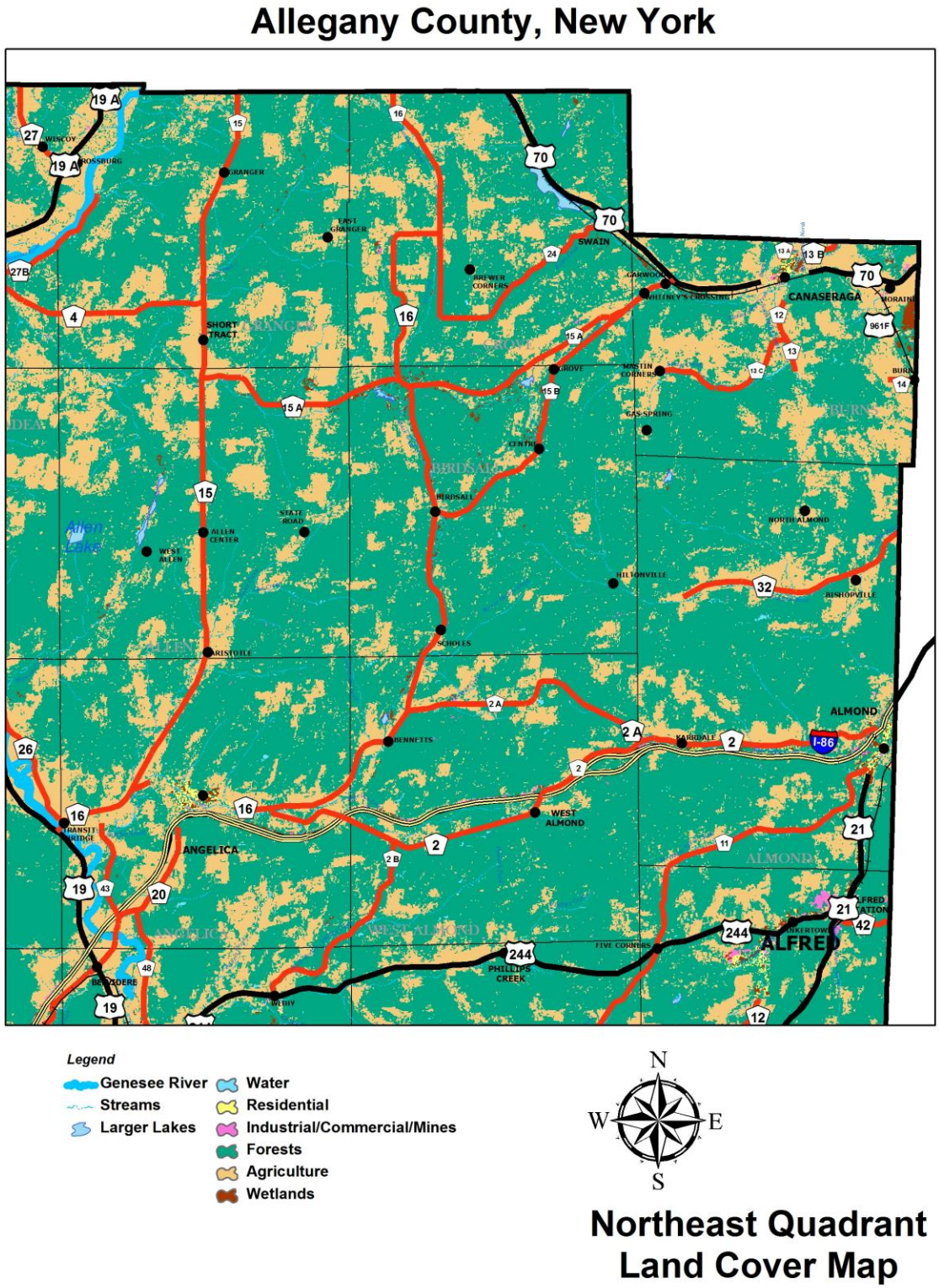


Figure 67: Southwestern Region of Allegany County Land Use.

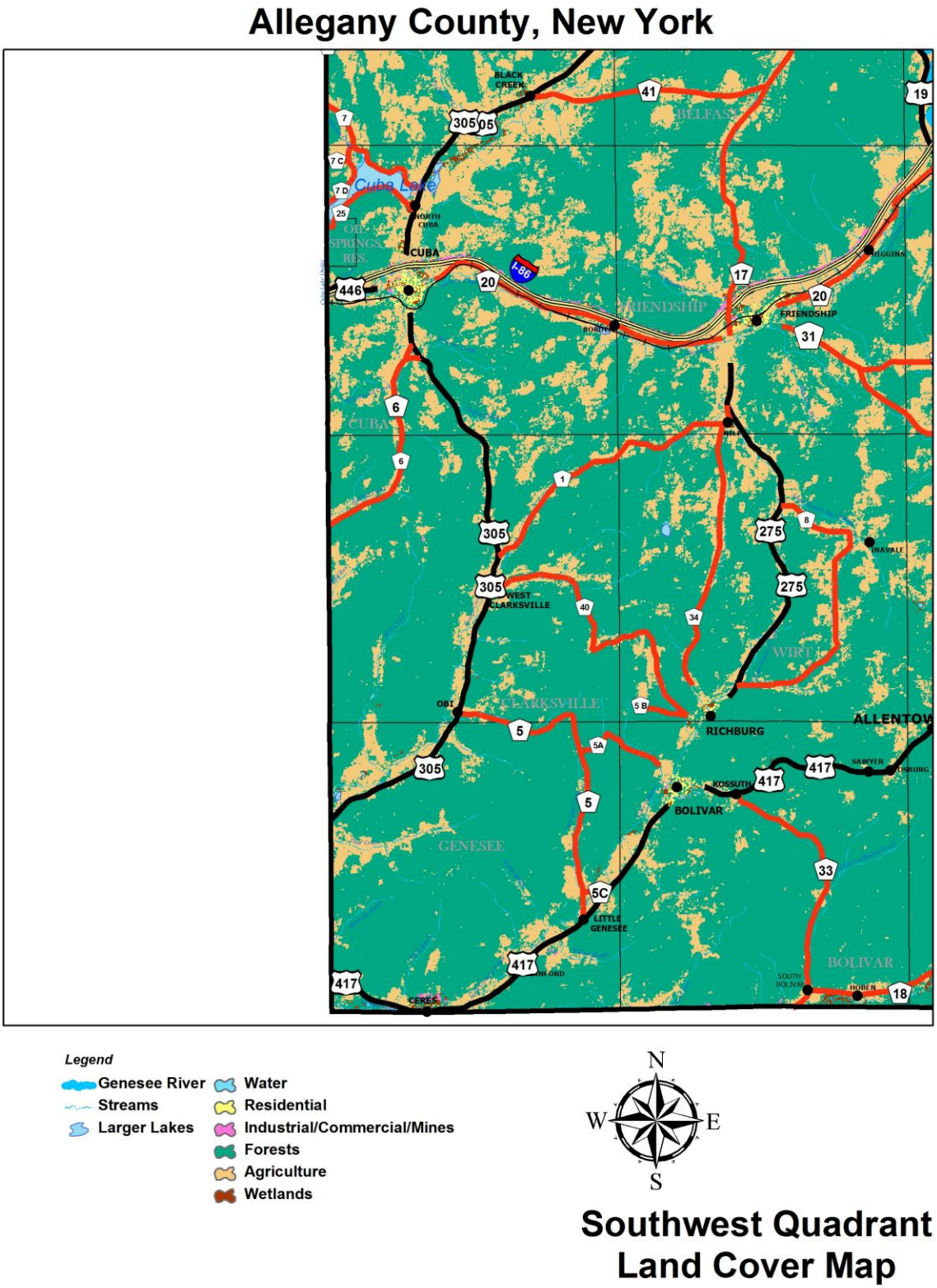
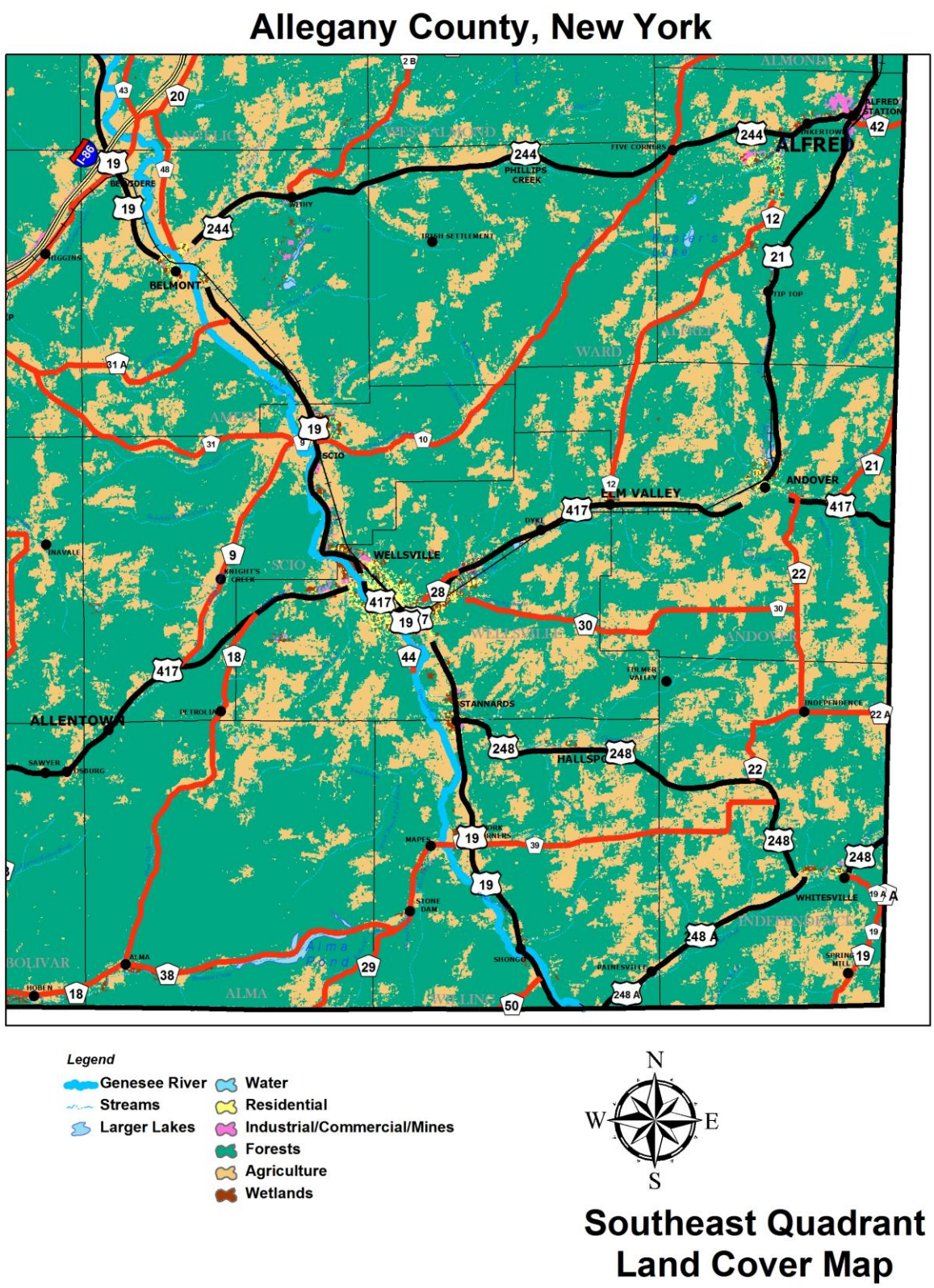


Figure 68: Southeastern Region of Allegany County Land Use.



Jurisdictional Development Trends

Development trends are determined during the hazards profiling process (Step 2) and considered while strategizing needed mitigation measures. Each jurisdiction provides information about development trends within their area.

Responses for the development trend of vacant/unused land might be:
DLBA – Developed Land is Being Abandoned
LND – Little or No Development
R – Rapidly
VR – Very Rapidly

Responses for the expansion, redevelopment or reconstruction of existing properties can be selected from the following choices:
NPML – Numerous Properties in Many Locations
SPFL – Some Properties in a Few Locations
SRAFL – Structures Being Removed/Abandoned in a Few Locations
SRASL – Structures Being Removed/Abandoned in Several Locations
VFNP – Very Few or No Properties

For purposes of the 2010 5-Year Update, participants were again instructed in profiling hazards to consider any changes to land use or development trends over the last five years and looking forward. Other than adding new participant data, providing data corrections or supplying missing data, there was marginal increase to development rate or other change since the last plan; Table 133 reflects the 2010 data.

Table 133: 2010 Development Trends by Jurisdiction.

Name of Jurisdiction	Is the jurisdiction fully developed?	Approximate % of land still open for development.	Development trend of vacant/unused Land.	Expansion, redevelopment or reconstruction of existing properties.
Alfred State College	No	25	LND	SPFL
Alfred University	No	-	LND	SPFL
Town of Alfred	No	75	LND	SPFL
Village of Alfred	No	2	R	SPFL
Town of Allen	No	80	LND	SPFL
Town of Alma	No	80	LND	VFNP
Town of Almond	No	75	LND	VFNP
Village of Almond	Yes	0	LND	VFNP
Town of Amity	No	70	LND	VFNP
Town of Andover	No	60	LND	VFNP
Village of Andover	No	10	LND	SPFL
Town of Angelica	No	70	R	SPFL
Village of Angelica	No	20	LND	SPFL
Town of Belfast	No	75	LND	SPFL
Village of Belmont	Yes	0	LND	SPFL
Town of Birdsall	No	80	LND	SPFL
Town of Bolivar	No	75	LND	SPFL
Village of Bolivar	No	25	LND	VFNP
Town of Burns	No	80	LND	VFNP
Village of Canaseraga	No	4	LND	VFNP
Town of Caneadea	No	>50	LND	SPFL
Town of Centerville	No	80	LND	VFNP
Town of Clarksville	No	50	R	SPFL
Town of Cuba	No	29	LND	VFNP
Village of Cuba	No	10	LND	SPFL
Town of Friendship	No	59	LND	SPFL
Town of Genesee	No	55	LND	VFNP
Town of Granger (new)	No	90	LND	SPFL
Town of Grove	No	70	LND	SPFL
Houghton College	No	-	LND	SPFL
Town of Hume	No	80	LND	SRAFL
Town of Independence	No	10	LND	VFNP
Town of New Hudson	No	80	LND	VFNP
Village of Richburg	Yes	0	LND	VFNP
Town of Rushford (new)	No	70	LND	VFNP
Town of Scio	No	10	LND	VFNP
Town of Ward	No	90	LND	VFNP
Town of Wellsville	No	65	LND	VFNP
Village of Wellsville	No	<5	LND	SPFL
Town of West Almond	No	90	LND	SPFL
Town of Willing	No	75	LND	VFNP
Town of Wirt	No	85	R	SPFL

Incorporation of HMP into Existing Planning Mechanisms

Repetitive Loss Properties

Repetitive loss data, as of 4/30/2010, reveals that eight communities within Allegany County have buildings that have been repeatedly damaged by floods. Since 1984 the total loss for these structures/contents is an estimated $127,713.64. Repair or replacement of a structure each time a flood event occurs is costly to the community and government. FEMA will only release location addresses of these properties at the request of the municipality. Each community is encouraged to send for complete data from FEMA to address the possible reasons for this repeated damage and ascertain whether mitigation activities would reduce or eliminate repetitive losses. Included are Town of Almond, Village of Almond, Village of Andover, Town of Grove, Village of Richburg, Town of Scio, Town of Wellsville, and the Village of Wellsville. These jurisdictions have and continue to mitigate to address these hazard areas.

NFIP and the Community Rating System

All communities of Allegany County, with the exception of the Town of Centerville, have become a part of the National Flood Insurance Program. Centerville is at the top of the watershed, FEMA has never identified it as a flood-prone area, and it has no structures in any area that might flood due to storm runoff. It is the intent of this Mitigation Plan to make available to each community, information on becoming part of the Community Rating System (CRS). The CRS was implemented in 1990 as a program for recognizing and encouraging community floodplain-management actions that exceed the minimum NFIP standards. Under the CRS, flood insurance premiums rates adjust to reflect the reduced flood risk resulting from community activities that meet the three goals of the CRS: (1) reduce flood losses; (2) facilitate accurate insurance rating; and (3) promote the awareness of flood insurance. While premium discounts are one of the benefits of the participation in CRS, it is more important that these communities are carrying out activities that save lives and reduce property damage. At this time, no communities within Allegany County are CRS participants.

Comprehensive Plan

The Allegany County Multi-Jurisdictional Hazard Mitigation Plan was entered into the Allegany County Comprehensive Plan in 2007. In order to keep these plans mutually attuned, any updates or revisions of the Comprehensive Plan will take into consideration the county hazard mitigation goals and objectives.

Comprehensive Emergency Management Plan

The Allegany County Multi-Jurisdictional Hazard Mitigation Plan was entered into the Allegany County Comprehensive Emergency Management Plan in 2008. In order to keep these plans mutually attuned, any updates or revisions of the Comprehensive Emergency Management Plan will take into consideration the county hazard mitigation goals and objectives.

New Plan Development and Incorporation into Existing Plans

Allegany County has addressed the incorporation of existing plans/programs and the creation of new plans throughout the Goals, Objectives, and Actions in Section VII. Local jurisdictions and county lawmakers continue to be encouraged to develop or amend laws so that they effectively address hazard mitigation (Objective 1.2). They are also encouraged to develop new policies that enhance the identified hazard mitigation initiatives (Objective 5.4). More specifically, land use maps are addressed as needing to be updated for major stream corridors and floodplains within Allegany County (Objective 6.1). By concentrating on the goals, objectives and actions listed in the Hazard Mitigation Plan, Allegany County will be able to minimize the impact of hazards through planning and development (Objective 6.3). Action 7.2.2 also addresses the integration of goals, objectives, and actions from the plan into existing regulatory documents and programs, where appropriate, including those implementation tools mentioned in Section II, (Table 9, and pages 31-33).

Another mechanism for ensuring changes and incorporation into existing planning mechanisms is the cyclic planning process of the Allegany County Multi-Jurisdictional Hazard Mitigation Plan. During the annual review and 5-year plan update processes, each jurisdiction are asked if they have developed new or changed existing plans and how they utilized the Hazard Mitigation Plan in this process. Each jurisdiction will also be provided with up-to-date preparedness materials for public consumption. These systems will allow for early collaboration during the process of developing new management plans and provide a mechanism for incorporating input as existing plans are implemented or revised; and encourage jurisdictions, state, and local government to create/encourage creation of plans that focus on hazard mitigation during the initial planning process. As the hazard mitigation planning process continues, different mechanisms may be identified and implemented.

Continued Public Involvement

The public continues to be encouraged to continue its interest and involvement in the evolving hazard mitigation process. As each annual review and 5-year plan update is conducted, public notices will be posted in strategic locations throughout each jurisdiction as well as advertisement in newspapers. A draft of this information will be provided online and in hard copy as requested at town, village, and county buildings. A comment sheet will be available at each location to solicit public input. This input will be assembled and provided to the Hazard Mitigation Planning Group for review and incorporation into the Hazard Mitigation Plan. Each jurisdiction will be provided a copy of the statements for incorporation into individual actions that may need to be addressed.

During the annual review and 5-year plan update process, the Hazard Mitigation Planning Group will reconvene to review updates and make comments/suggestions. Stakeholders will be contacted for their input/assistance in the review process; this will include letters sent reacquainting them to the process and an invitation to be an integral part of the process. Should an item in a draft create confusion or generate a large amount of feedback, public meetings will be scheduled to address issues. Public participation will continue to be a priority in the review and update process of the Hazard Mitigation Plan.