

SECTION 2 – PLANNING PROCESS

This section includes a description of the planning process used to develop the Plan, including how it was prepared, who was involved in the process, and how the public was involved.

Because of the similarities between hazards that pose threats to the various communities in Broome County and existing cooperative emergency planning and response approaches, a decision was made early in the Plan development process that this mitigation planning process would be implemented for multiple jurisdictions.

To ensure that the Plan met the requirements of the DMA 2000, the approach to the planning process and documentation was developed to achieve the following two goals:

1. The Plan would be multi-jurisdictional and consider all natural hazards facing the area, thereby satisfying the natural hazards mitigation planning requirements specified in DMA 2000. Broome County and the jurisdictions participating include the following municipalities within Broome County.

Town of Barker	Town of Lisle	City of Binghamton
Town of Binghamton	Town of Maine	Village of Endicott
Town of Chenango	Town of Nanticoke	Village of Johnson City
Town of Colesville	Town of Sanford	Village of Lisle
Town of Dickinson	Town of Triangle	Village of Port Dickinson
Town of Fenton	Town of Vestal	Village of Whitney Point
Town of Kirkwood	Town of Windsor	Village of Windsor

It is noted that the Towns of Conklin and Union have developed DMA 2000 All-Hazard Mitigation Plans independently of this planning process, and as such are not formally adopting this Plan. However, both of these jurisdictions have been involved in this multi-jurisdictional planning effort and have provided their input as appropriate, and described in this Plan. Further, the Village of Deposit, lying partially in Delaware County, participated in and adopted the FEMA approved Delaware County All Hazard Mitigation Plan.

2. The Plan would be developed following the process outlined by DMA 2000, FEMA regulations, and FEMA and NYSEMO guidance. Following this process would ensure all the requirements are met and would support the Plan review.

The Broome County Multi-Jurisdictional HMP was written using the best available information obtained from a wide variety of sources. Throughout the Plan development process, a concerted effort was made to gather information from participating municipal and county agencies and staff as well as stakeholders, federal and state agencies, and the residents of Broome County. The Steering Committee solicited information from local agencies and individuals with specific knowledge of certain natural hazards and past historical events, as well as planning and zoning codes, ordinances, and recent planning decisions. The natural hazard mitigation strategies contained within this Plan have been developed through an extensive planning process involving local jurisdictions and agencies and the citizens of Broome County.

This section of the Broome County Multi-Jurisdictional HMP describes the mitigation planning process, including (1) Steering Committee involvement and efforts; (2) municipal and local involvement; (3) stakeholder and public involvement; and (4) integration of existing data, plans, and information.

2.1 Steering Committee Involvement and Efforts

This section describes the involvement of Broome County and the participating jurisdictions in the mitigation planning process. The development of the HMP grew out of meetings with NYSEMO and the Broome County Department of Planning and Economic Development in 2005. At the suggestion of NYSEMO, Broome County submitted an application to FEMA for funding to prepare the HMP. To draft the Plan, Broome County Department of Planning formed a Steering Committee of local elected officials, highway superintendents, code officials and other involved agencies and individuals. Members of the Steering Committee, with support from municipal staff, outside agencies, and the consultant, identified and profiled hazards; determined hazard rankings; estimated potential exposure or losses; evaluated development trends and jurisdiction-specific risks; and developed appropriate mitigation strategies, goals, and actions at the county and jurisdiction level.

The Steering Committee was also charged with the following:

- Establish Plan development goals
- Establish a timeline for completion of the plan
- Ensure that the Plan meets the requirements of DMA 2000 and FEMA and NYSEMO guidance
- Solicit and encourage the participation of regional agencies, other municipalities, a range of stakeholders, and citizens in the Plan development process
- Assist in gathering information for inclusion in the Plan, including the use of previously developed reports and data
- Organize and oversee the public involvement process
- Develop, revise, adopt, and maintain the Plan

The following agencies and individuals participated on the Steering Committee and contributed to the development of this Plan:

- Broome County Department of Planning and Economic Development (BCPED)
 - Rita Petkash - Commissioner – County Mitigation Coordinator – project oversight, plan review, mitigation strategy input
 - Frank Evangelisti - Chief Planner - Project Lead, preparation of HMP's support sections, grant administration, plan review, mitigation strategy input
 - Douglas English – GIS Administrator – map and database preparation
- Broome County Office of Emergency Services (BCOES)
 - Michael Aswad - Director (former) – provided data for risk assessment, project oversight, plan review
 - Brett Chellis - Director (current) - mitigation strategy input
- NYSEMO – grant assistance, plan review
- NYSDEC - technical assistance
- American Red Cross - provided data
- Michael Aswad, Director of Emergency Services, Broome County
- Brian Kessler, PE, City Engineer, City of Binghamton
- John Mastronardi, Project Engineer, Griffiths Engineering/Town of Conklin
- Rick Woidt, President, Woidt Engineering, Lourdes Hospital
- Timothy Whitesell, Supervisor, Town of Binghamton
- Casey Igo, Code Enforcement Director, Town of Conklin
- Debra Preston, Supervisor, Town of Conklin
- Michael Marinaccio, Supervisor, Town of Dickinson

- Samuel Borruso, Code Enforcement, Town of Kirkwood
- Ronald Lake, PE, Town Engineer, Flood Plain Administrator, Towns of Kirkwood and Sanford
- Richard Jones, Sr., Commissioner of Public Works, Town of Kirkwood
- Paul Nelson, Director of Planning, Town of Union
- Gary Campo, Town Engineer, Town of Vestal
- Rick Miller, Superintendent of Public Works, Village of Endicott
- Robert Bennett, Director of Public Services, Village of Johnson City
- Daria Golazeski, Director of Planning, Floodplain Administrator, Village of Johnson City
- Kevin Burke, Mayor, Village of Port Dickinson
- Edward Corcoran, Commissioner of Water, Sewer and Parks, Village of Port Dickinson
- Bradford McAvoy, Code Enforcement Officer, Floodplain Administrator, Town of Colesville
- Dewey Decker, Supervisor, Town of Sanford
- Robert Macumber, Highway Superintendent, Town of Sanford
- Charles Pierson, Council Member, Town of Windsor
- Bradley Hubbard, Public Works Administrator, Village of Deposit
- Craig Conklin, Fire Chief, Village of Deposit
- Steve Contento, Consultant, Village of Windsor
- Charlie Benedict, Highway Department, Town of Barker
- Joy Kasmarcik, Highway Department, Town of Chenango
- Rhonda Pudiak, Council Person, Town of Chenango
- Thomas Giblin, Hillcrest Fire Chief, Town of Fenton
- Frank Root, Jr., Highway Supervisor, Town of Fenton
- Mitch Quail, Sr, Superintendent of Highways, Town of Lisle
- Michael Dopko, Code Enforcement Officer, Floodplain Administrator, Town of Maine
- Scott Ellis, Supervisor, Town of Nanticoke
- Daniel David, Highway Superintendent, Town of Triangle
- Gerald Mackey, Mayor, Floodplain Administrator, Village of Lisle
- Gerald Whitehead, Mayor, Village of Whitney Point
- Tetra Tech EM, Inc. - Consultant to Broome County – project oversight, preparation of HMP’s risk assessment and mitigation strategy sections

In Broome County, the local NFIP floodplain administrator in each municipality is the Code Enforcement Officer, Building Inspector, or Town Engineer, who reports directly to the Town Supervisor or Village Mayor. In some instances, individuals such as Ron Lake serve as floodplain administrator for more than one jurisdiction. The local floodplain administrators have reviewed draft HMP sections and provided appropriate input including potential mitigation actions. As the above list of contributors indicates, all of the local NFIP floodplain administrators, or their supervisors, participated directly on the Steering Committee.

In addition to public participation meetings there was a great deal of communication between Steering Committee members through electronic mail (email) or by phone, which helped to maintain communication between meetings. Each member of the Committee reviewed the Plan and supported

interaction with other stakeholders and assisted public involvement efforts as discussed in Sections 2.2, 2.3, and 2.4, respectively.

During Steering Committee meetings, the group gathered and shared information, identified hazards, assessed risks, identified critical facilities, assisted in developing mitigation strategies, and provided continuity through the Plan development process to ensure that jurisdiction-specific natural hazards vulnerability information and mitigation strategies were also incorporated into the plan.

After completion of the Plan, the ongoing maintenance of the Plan will become a function of the BCPED. BCPED will review the plan and accept public comment as part of an annual review and 5 year mitigation plan update.

Table 2-1 presents a summary of Steering Committee efforts during the development process of this HMP. Additionally, the table identifies which DMA 2000 requirements the activities satisfy.

Table 2-1. Summary of Steering Committee Efforts

Date	Activity/DMA 2000 Requirement	Key Outcomes/Participants
3/3/05	HAZNY Working Session (3a-c)	<ul style="list-style-type: none"> ▪ Broome County Office of Emergency Services coordinated a HAZNY process in advance of the HMP process. The following agencies participated in the preparation of the HAZNY: Broome County Emergency Services, Broome County Department of Planning and Economic Development, NYS Department of Environmental Conservation, Broome County Historian, National Weather Service, Broome County Division of Environmental Health, New York State Police, NYSEMO, and Broome County Sheriff.
4/21/05	Broome County Legislature Resolution 05-182 (2)	<ul style="list-style-type: none"> ▪ Authorization to apply for funds from FEMA to produce a Multi-jurisdictional HMP for Broome County
9/30/05	Hazard Mitigation Workshop	<ul style="list-style-type: none"> ▪ Cindy Starring (Town of Union), John Bernardo (Town of Union), Debbie Preston (Town of Conklin), Jesse Holmes, John J. Martin, PE (Town of Conklin)
11/15/05	Hazard Mitigation Workshop (1c, 2)	<ul style="list-style-type: none"> ▪ Introduction and overview of the mitigation planning process ▪ Participants: Joyanne Kasmarcik (Town of Chenango), Rhonda Pudiak (Town of Chenango), Bob Bennett (Village of Johnson City), Steve Contento (Village of Windsor), Paul Nelson (Town of Union), Bradford McAvoy (Town of Colesville), Tom Giblin (Town of Fenton), Kevin M. Burke (Village of Port Dickinson), Debbie Preston (Town of Conklin)
1/26/06	Town of Conklin Hazard Mitigation Planning Meeting (2)	<ul style="list-style-type: none"> ▪ Town of Conklin representatives met to discuss the hazard mitigation plan process. Participants: Frank Evangelisti (Broome County), Jerry Minoia (Town of Conklin), John Mastrondardi (Town of Conklin), Rick Woidt (Town of Conklin), Gary Bullock (Town of Conklin), Tom Edmister (Town of Conklin), Tom Voloshen (Town of Conklin), Casey Igo (Town of Conklin), Debbie Preston (Town of Conklin), Larry Lepak (NYSDEC)
2/9/06	Town of Union Hazard Mitigation Planning Meeting (2)	<ul style="list-style-type: none"> ▪ Town of Union representatives met to discuss hazard mitigation plan process. ▪ Reviewed data needs and availability ▪ Participants: Frank Evangelisti (Broome County), Peter A. Olevano (Town of Union), Steve Rafferty (Town of Union), Lou Cafario (Town of Union), John Bernardo (Town of Union), Cindy Starring (Town of Union), Paul Nelson (Town of Union)

Date	Activity/DMA 2000 Requirement	Key Outcomes/Participants
3/23/06	Town of Chenango Hazard Mitigation Planning Meeting (2)	<ul style="list-style-type: none"> ▪ Town of Chenango Hazard Mitigation Plan Committee met to assess the status of the draft Hazard Mitigation Plan and to determine data need and availability ▪ Participants: Frank Evangelisti (Broome County), Sharon Aswad (American Red Cross), Joyanne Kasmarcik (Town of Chenango), Ron Keibel (Town of Chenango), Ron Kinne (Town of Chenango), Aleta Kinne (Town of Chenango), Don Benjamin (Town of Chenango), Michael Kwarther (Town of Chenango), Ed Gent (Town of Chenango), Rhonda Pudiak (Town of Chenango), John Barrett (Town of Chenango), and Roy C. Fynboe (Town of Chenango).
4/25/06	Hazard Mitigation Plan Kick Off Meeting (2, 3a-e)	<ul style="list-style-type: none"> ▪ County-wide Kick-off meeting for plan development with consultant ▪ Frank Evangelisti (Broome County), Mike Aswad (Broome County Office of Emergency Services), Chuck Benedict (Town of Barker), Robert J. Macumber (Town of Sanford), Charles Pierson (Town of Windsor), Frank M. Root, Jr. (Town of Fenton), Brad Hubbard (Village of Deposit), Dale Van Pelt, Richard Jones (Town of Kirkwood), Bob Bennett (Village of Johnson City), Mike Dopko (Town of Maine), Jerry Whitehead (Village of Lisle), Tom Giblin (Town of Fenton), Kevin M. Burke (Village of Port Dickinson), Scott Ellis (Town of Nanticoke), Joy Kasmarcik (Town of Chenango), Gary Campo (Town of Vestal), John Mastronardi (Town of Conklin), Sam Borruso (Town of Kirkwood), Paul Nelson (Town of Union), and Rick Woitd (Lourdes Hospital).
8/16/05	Hazard Mitigation Plan Work Session Northern Broome and Eastern Broome	<ul style="list-style-type: none"> ▪ Two meetings were held, one for Northern Broome and one for Eastern Broome representatives. Consultant presented inventory data collected on past disaster impacts and critical/vulnerable facilities. Representatives input on potential mitigation strategies was sought. ▪ Participants: Frank Evangelisti (Broome County), Rhonda Pudiak (Town of Chenango), Joy Kasmarcik (Town of Chenango), Donald F. Brown (Town of Fenton), Tom Giblin (Town of Fenton), Gerald Whitehead (Village of Lisle), Michael Dopko (Town of Maine), Brad Hubbard (Village of Deposit), Robert Macumber (Town of Sanford), Steven Contento (Village of Windsor), Charles Pierson (Town of Windsor), and Brad McAvoy (Town of Colesville)
8/17/06	Hazard Mitigation Plan Work Session Central Broome (1c, 2, 3a-c)	<ul style="list-style-type: none"> ▪ Work session with representatives of Central Broome. Consultant presented inventory data collected on past disaster impacts and critical/vulnerable facilities. Representatives input on potential mitigation strategies was sought. ▪ Participants: Frank Evangelisti (Broome County), Mike Aswad (Broome County Office of Emergency Services), Ed Corcoran (Village of Port Dickinson), Tom Murphy (Village of Endicott), Paul Nelson (Town of Union), Rick Woitd (Lourdes Hospital), Daria Golazeski (Village of Johnson City), Gary Campo (Town of Vestal), John Mastronardi (Town of Conklin), and Brian Kessler (City of Binghamton).
9/26/2006	Hazard Mitigation Plan Work Session (1c, 2, 3a-c)	<ul style="list-style-type: none"> ▪ Meeting to discuss town specific mitigation activities for towns of Kirkwood, Sanford and Windsor. Participants provided detailed mitigation activities that are underway or planned within their community. All input was incorporated into the final HMP. ▪ Participants: Frank Evangelisti (Broome County); Gordon Kniffen (Town of Kirkwood Supervisor); Ron Lake (Town Engineer for Kirkwood, Sanford, and Windsor).

Date	Activity/DMA 2000 Requirement	Key Outcomes/Participants
10/11/06	Hazard Mitigation Plan Work Session (1c, 2, 3a-c)	<ul style="list-style-type: none"> ▪ Meeting to discuss town specific mitigation activities for City of Binghamton. Participants provided detailed mitigation activities that are underway or planned within their community. All input was incorporated into the final HMP. ▪ Participants: Frank Evangelisti (Broome County); Brian Kessler (Engineer, City of Binghamton)
12/19/06	Hazard Mitigation Plan Steering Committee Wrap Up Work Session (1c, 2, 3a-c)	<ul style="list-style-type: none"> ▪ Meeting to review draft plan and seek final comments from Steering Committee Members. Participants reviewed maps, amended mitigation strategies, and corrected the impact assessment of past events. All input from the HMP Steering Committee was incorporated into the final HMP. ▪ Participants: Frank Evangelisti (Broome County); Jonathan Raser (Tetra Tech, LLC); Donald F. Brown (Fenton); Ed Corcoran; Brett Chellis (Broome County Emergency Services); Tim Whitesell (Town of Binghamton); James Dedrick (Town of Barker); John Mastronardi (Town of Conklin); Rick Woitd (Lourdes Hospital); Daria Golazeski (Village of Johnson City); Brian Kessler (City of Binghamton); Joyanne Kasmarcik (Town of Chenango)
Sept. 2007	Submission of Final Mitigation Plan to NYSEMO and FEMA (1a-c, 2)	<ul style="list-style-type: none"> ▪ Draft final plan submitted to NYSEMO and FEMA with Steering Committee and public comments included
TBD	Final Report revised and adopted (1a-c, 2)	<ul style="list-style-type: none"> ▪ Revise final mitigation plan per NYSEMO and FEMA comments ▪ Plan to be adopted by all jurisdictions and Broome County
TBD	Final Draft Approved by FEMA and NYSEMO (1a, 1b)	<ul style="list-style-type: none"> ▪ As described in the Federal Register (Volume 67, Numbers 38 and 190, Dated February 26, 2002 and October 1, 2002 respectively), Section 322 of DMA 2000 states that after November 1, 2004, only communities, tribes and states with FEMA-approved mitigation plans are eligible to receive mitigation funds following a presidential declared disaster. Having an approved plan in place will assure Broome County and the participating jurisdictions are eligible to receive Hazard Mitigation Grant Program (HMGP) funds.
TBD	Plan Implementation (1c, 2, 4a-d, 5b)	<ul style="list-style-type: none"> ▪ Begin implementation of the mitigation plan

Note: Each number above identifies the DMA 2000 requirement the activity fulfills

1a – Prerequisite – Adoption by the Local Governing Body

1b – Public Participation

1c – Multi-Jurisdictional Participation

2 – Planning Process – Documentation of the Planning Process

3a – Risk Assessment – Identifying Hazards

3b – Risk Assessment – Profiling Hazard Events

3c – Risk Assessment – Assessing Vulnerability: Identifying Assets

3d – Risk Assessment – Assessing Vulnerability: Estimating Potential Losses

3e – Risk Assessment – Assessing Vulnerability: Analyzing Development Trends

4a – Mitigation Strategy – Local Hazard Mitigation Goals

4b – Mitigation Strategy – Identification and Analysis of Mitigation Measures

4c – Mitigation Strategy – Implementation of Mitigation Measures

5a – Plan Maintenance Procedures – Monitoring, Evaluating, and Updating the Plan

5b – Plan Maintenance Procedures – Implementation through Existing Programs

5c – Plan Maintenance Procedures – Continued Public Involvement

2.2 Involved Stakeholders in Mitigation Planning

This section presents (1) municipal involvement, (2) state and regional agency involvement, and (3) public participation – citizen involvement.

2.2.1 Municipal and Local Involvement

Due to the sheer size of Broome County and the number of municipalities participating in the Plan, several methods of local involvement were used rather than direct representation of the participating municipalities on the Steering Committee. In lieu of this direct representation, interaction between the County and the participating municipalities was facilitated through numerous established lines of communication with broad reach throughout the County. It is this communication that will ultimately allow Broome County and the participating jurisdictions to successfully implement the mitigation strategies described in Section 5 of this Plan. Additionally, because of the small population of Broome County, these interactions comprise a great deal of public involvement by default since a large proportion of local residents serve on local planning boards, as part- or full-time municipal administrators, or as volunteer firefighters and emergency technicians, etc. Table 2-2 summarizes the municipal and local involvement that was solely or primarily devoted to hazard mitigation planning.

Table 2-2. Summary of Municipal and Local Involvement

Date	Activity/DMA 2000 Requirement	Key Outcomes/Participants
8/29/06	Flood Task Force Meeting (2)	<ul style="list-style-type: none"> ▪ As a result of the June 2006 flooding, Broome County initiated a Flood Task Force consisting of representatives of local, county, state, and federal government. The purpose is to coordinate governmental response for flood recovery and to mitigate against future disasters. ▪ Participants: Margaret Turna (Town of Chenango), Chris Luther (Sen. Libous office), Daria Golazeski (Village of Johnson City), Mayor Joan Hickey Pulse (Village of Endicott), Henry Weissmann (Broome County Department of Public Works), Michael Baryliski (NYSDEC), Donald Battaglini (Town of Union), Barbara Fiala (Broome County Executive), Peter Olverano (Town of Union), Darcy Fauci (Broome County Executive’s office), Daphne Gathers (City of Binghamton), Pete Andreasen (Town of Vestal), Michael Marinaccio (Town of Dickinson), Debra Preston (Town of Conklin), Ron Lake (Town of Kirkwood), Clifford Crouch (NYS Assemblyman), Rita Petkash (Broome County Planning Commissioner), and Donna Lupardo (NYS Assemblywoman).
9/12/06	Flood Task Force Meeting (2, 3a-c)	<ul style="list-style-type: none"> ▪ Second meeting of Flood Task Force. ▪ Participants: Les Radford (SEMO), Michael Cosbar (FEMA), LeRoy Flohr (FEMA), Paul Williams (FEMA), Debbie Howard (Assemblyman Gary Finch’s office), Patrick Brennan (Broome County Dept. County Executive), Joan Hickey Pulse (Village of Endicott), Tom Libous (NYS Senator), Brian Sanvidge (NYS Department of Labor), Donna Lupardo (NYS Assemblywoman), Chris Luther (Sen. Libous’ office), Mario Nirchi (SEMO), Michael Kennerknecht (Assemblywoman Lupardo’s office), Gordi Kniffen (Town of Kirkwood), Larry Hunt (FEMA), Jerry Dobinson (FEMA), George Schildknecht (FEMA), Peter Andreasen (Town of Vestal), Laurie Gialanella (Assemblyman Clifford Crouch’s office), Stephen Rafferty (Town of Union), Ron Lake (Town of Kirkwood), Bob Bennett (Village of Johnson City), Daria Golazeski (Village of Johnson City), Henry Weissman (Broome County Department of Public Works), and Dan Lamb (US Representative Maurice Hinchey’s office).

Date	Activity/DMA 2000 Requirement	Key Outcomes/Participants
9/21/06	Local Emergency Planning Committee 1c, 4a, 4b	<ul style="list-style-type: none"> ▪ Local Emergency Planning Committee members received an update on the ongoing hazard mitigation plan process and potential mitigation strategies ▪ Participants: Frank Evangelisti (Broome County), Mike Aswad (Broome County Office of Emergency Services), Gary Desko (Ashland Chemical), Connie Corey (Lourdes Hospital), Sharon Aswad (American Red Cross), Mike Lynch (New York State Police), Peter Grunder (New York State Police), Ray Serowik and (Broome County Emergency Services).
10/25/06	Informational Bulletin mailed to Chief Elected Officials (1c)	<ul style="list-style-type: none"> ▪ Informational bulletin mailed to all Chief Elected Officials advising them that the draft Plan was available for review online. In addition, the Executive Summary of the draft plan was including in the mailing, and the officials were advised as to how to comment on the draft as it developed.

Note: Each number in column 2 identifies specific DMA 2000 requirements, as follows:

- 1a – Prerequisite – Adoption by the Local Governing Body
- 1b – Public Participation
- 1c – Multi-Jurisdictional Participation
- 2 – Planning Process – Documentation of the Planning Process
- 3a – Risk Assessment – Identifying Hazards
- 3b – Risk Assessment – Profiling Hazard Events
- 3c – Risk Assessment – Assessing Vulnerability: Identifying Assets
- 3d – Risk Assessment – Assessing Vulnerability: Estimating Potential Losses
- 3e – Risk Assessment – Assessing Vulnerability: Analyzing Development Trends
- 4a – Mitigation Strategy – Local Hazard Mitigation Goals
- 4b – Mitigation Strategy – Identification and Analysis of Mitigation Measures
- 4c – Mitigation Strategy – Implementation of Mitigation Measures
- 5a – Plan Maintenance Procedures – Monitoring, Evaluating, and Updating the Plan
- 5b – Plan Maintenance Procedures – Implementation through Existing Programs
- 5c – Plan Maintenance Procedures – Continued Public Involvement

In addition, the Planning Department undertook a number of activities related to hazard mitigation planning. These included the following:

1) Broome County Legislature and subcommittee meetings

The Broome County Department of Planning and Economic Development staff made two presentations to the Planning and Economic Development committee of the Broome County Legislature. Staff reviewed the process of developing a hazard mitigation plan with the committee. In addition, the Planning and Economic Development committee reviewed the qualifications of the consultants responding to the request for proposals and selected Tetra Tech EM, Inc.

2) Comprehensive Plan Technical Assistance

For over 20 years, the Broome County Department of Planning and Economic Development has provided direct technical assistance to municipalities that are preparing or updating their comprehensive plan.

Through this initiative, the Planning Department contracts with interested municipalities to prepare the Plan or update. While under contract, Planning staff assembles historic and current community information, including population, age, household size and type, income, occupation, industry, housing condition, transportation infrastructure, utilities, public facilities, environmental resources, land use, agriculture and existing ordinances. Within the past 5 years, the Planning Department has prepared the comprehensive plans for the towns of Lisle, Dickinson, Triangle, and Conklin. These plans have all been adopted and implemented. The Planning Department is currently preparing comprehensive plans for the towns of Maine and Fenton. These plans are in their final stages of development. As these documents take shape, Broome County has worked with the Towns to ensure that principles of hazard mitigation guide the planning process. For example, the draft recommendations for the Town of Maine plan include a section on hazard mitigation planning.

3) Geographic Information Systems (GIS)

Broome County Planning has taken the lead in developing a Geographic Information System (GIS). Beginning in 1999, Broome County made a serious commitment to developing a comprehensive GIS system. County planning staff began assembling data and creating a desktop GIS for departmental use. Early in 2003, the County created the position of GIS Administrator. By the end of 2003, the County had an online system for municipalities, and by early 2004 an online GIS was available to the public.

The Broome County GIS has over 60 data layers available online. This includes property lines, ownership and assessment data, zoning, floodplains, wetlands, slope, contours, school districts, Empire Zone, political boundaries and facilities. Users can measure distances and areas, determine latitude and longitude, and label the map. Additionally, if one parcel has been selected, users can create mailing lists of properties, display demographic information, or select facilities within a specified distance of that parcel.

What sets the Broome County GIS apart is the diversity of data available, and the depth of the information that is presented. An external link is provided for virtually every data point provided in the GIS. For example, a link takes you to the official FEMA floodplain map application for any user specified address. Recognizing the importance of this effort, the online GIS was the recipient of the 2006 New York Upstate Chapter of the American Planning Association Professional Award in the category of Public Education.

This extensive GIS has been invaluable in the development of this HMP. Broome County has licensed Tetra Tech EM, Inc. to use all of the data layers that it created. These layers are consistently more accurate and reliable than data available from other public and private sources.

In addition, the online GIS was used extensively during and immediately after the June 2006 flooding. When local municipalities implemented the Code Enforcement Disaster Assistance and Recovery (CEDAR) system, they used the online GIS to develop lists of property owners in affected areas. The Red Cross disaster teams also used the online GIS to aid targeting the mostly heavily impacted areas. The flood inundation area was mapped by New York State Electric and Gas at the peak of the flooding event, and that data layer was provided to the community via the online GIS. Broome County will continue to serve as the coordinating body for GIS development in the area, and this system will be used for future HMP updates and revisions.

2.2.2 State and Regional Agency Involvement

Information regarding hazard identification, risk assessment, and mitigation strategies for this Plan was also requested and received from the following agencies and organizations:

- American Red Cross (ARC)
- FEMA
- Natural Resource Conservation Service (NRCS)
- National Weather Service (NWS)
- NYDEC
- NYSDOL
- NYSEMO
- U.S. Geological Survey (USGS)

2.2.3 Public Participation - Citizen Involvement

In order to facilitate coordination and communication between the Steering Committee and citizens and involve the public in the planning process, the HMP will be available to the public through a variety of venues. A printed version of the full Plan has been placed and will be maintained at these three locations:

Broome County Department of Planning and Economic Development
 Broome County Office Building
 5th Floor
 Binghamton, NY 13901

Broome County Office of Emergency Services
 153 Lt. VanWinkle Drive
 Binghamton, NY 13905

Broome County Public Library
 185 Court Street
 Binghamton, NY 13901

A printed version of the Plan as it relates to each municipality will be provided to each community that adopts the plan. These copies will be maintained at each of the town and village halls in the county. At all of these locations, the Plan will be made available for public review.

As the draft sections of the Plan became available, they were published on the Broome County website. The first section was initially posted on September 25, 2006. On September 28, 2007, the substantially revised Plan was posted in full on the website. As the Plan developed, visitors to the website were able to review the plan online and submit Email comments directly to the project coordinator for the County. No Email comments were received.

Due to the media attention, and the plan being posted online, County Planning staff received one written comment from residents of the Boland Road area in the Town of Dickinson. By a letter dated February 7, 2007, James Bradley and Helena Bradley of 2 Boland Road wrote to inform the County with a copy to the Town of Dickinson, of flooding problems in their neighborhood. In part due to this letter, the Town has included the following mitigation action, *Prepare storm water analysis of Boland Road in vicinity of Broome County Community College to determine feasible mitigation options for recurrent flooding conditions* (Table 5.4.7c).

As part of the plan adoption process, staff of Broome County planning will conduct public meetings in each of the 21 jurisdictions in Broome County that are adopting the Plan.

Table 2-3. Summary of Stakeholder and Public Involvement

Date	Activity/DMA 2000 Requirement	Key Outcomes/Participants
9/19/06	Letter to Chief Elected Officials (1b, 1c)	<ul style="list-style-type: none"> ▪ Broome County Department of Planning distributed a letter to the chief elected officials of all municipalities in the County. The letter summarized the development of the plan to date and requested input on mitigation strategies. A deadline of 9/29/06 was established for receiving comments. No comments are received from the chief elected officials concerning the plan.
9/20/06	Press Release (1b)	<ul style="list-style-type: none"> ▪ Broome County issues press release to all media seeking public comment on the HMP. No comments are received regarding the HMP.
9/25/06	Website Launched (1b)	<ul style="list-style-type: none"> ▪ Website developed to post planning process overview, draft mitigation plan, and receive public comments. ▪ http://www.gobroomecounty.com/planning/PlanningPubs.php ▪ Visitors to the website could submit Email comments directly to the project coordinator for the County. No Email comments are received from the public.
11/6/06	Press Release (1b)	<ul style="list-style-type: none"> ▪ Broome County issues a press release advising residents and stakeholders that the draft plan was available online for review and comment.

Note: Each number in column 2 identifies specific DMA 2000 requirements, as follows:

- 1a – Prerequisite – Adoption by the Local Governing Body
- 1b – Public Participation
- 1c – Multi-Jurisdictional Participation
- 2 – Planning Process – Documentation of the Planning Process
- 3a – Risk Assessment – Identifying Hazards
- 3b – Risk Assessment – Profiling Hazard Events
- 3c – Risk Assessment – Assessing Vulnerability: Identifying Assets
- 3d – Risk Assessment – Assessing Vulnerability: Estimating Potential Losses
- 3e – Risk Assessment – Assessing Vulnerability: Analyzing Development Trends
- 4a – Mitigation Strategy – Local Hazard Mitigation Goals
- 4b – Mitigation Strategy – Identification and Analysis of Mitigation Measures
- 4c – Mitigation Strategy – Implementation of Mitigation Measures
- 5a – Plan Maintenance Procedures – Monitoring, Evaluating, and Updating the Plan
- 5b – Plan Maintenance Procedures – Implementation through Existing Programs
- 5c – Plan Maintenance Procedures – Continued Public Involvement

2.3 Coordination of Planning with Existing Hazard Management and Mitigation Programs

Local municipalities are charged with the development of local HMPs required under Section 322 of the Stafford Act by New York. Therefore, the Steering Committee coordinated the development of this HMP. In New York, Article 2B Section 23 of State Executive Law authorizes local communities to prepare local disaster plans based on the contention that local municipalities are most knowledgeable to assess their strengths and weaknesses, opportunities, and constraints. Local governments have intimate knowledge of the local geography, and in a disaster, are the entity on the front lines with personnel and equipment.

Broome County and the participating jurisdictions are involved in the above program, hence the development of this Plan.

Examples of other hazard mitigation programs in which Broome County and the jurisdictions are involved are the Flood Hazard Mitigation Program (FHMP) and the National Flood Insurance Program (NFIP). These programs assist Broome County and the jurisdictions in receiving funding for flood

mitigation projects and flood insurance. Data from Broome County and the participating jurisdictions, based on participation in these flood-related programs, was incorporated in the risk assessment in Section 4 and resulted in mitigation activities in Section 5. Continued involvement in these flood-related programs will help to administer funds and resources to support this HMP.

Flood Hazard Mitigation Program

National Flood Insurance Program

Established in 1968, the NFIP provides federally-backed flood insurance to residents of communities that enact and enforce regulations that more carefully regulate development within floodplain areas. For individual property owners to be eligible to buy the federally-backed flood insurance, their property must be located within a community that participates in NFIP.

For a community to be eligible in NFIP, it must adopt and enforce a floodplain management ordinance to regulate proposed development in floodplains and officially designate a local floodplain coordinator/administrator. The intent of the program is to ensure that new construction does not exacerbate existing flood hazards and is designed to better withstand flooding. All jurisdictions responsible for this plan participate in NFIP. Each of those communities has enacted and enforced floodplain management ordinances as required. Each community has in place Flood Insurance Rate Maps (FIRM) that at a minimum show floodways, 100-year flood zones and 500-year flood zones, and each has designated their respective building and code enforcement official as the local floodplain coordinator/administrator. Mitigation activities related to this program are included in Section 5 and data from FEMA Region II regarding NFIP Insurance Reports was used in the risk assessment in Section 4. The local NFIP floodplain administrator in each municipality is the Code Enforcement Officer or Building Inspector, who reports directly to the Town Supervisor or Village Mayor. The local floodplain administrators have, at a minimum, reviewed the draft HMP sections and provided appropriate input including potential mitigation actions.

Community Rating System

The NFIP has been successful in protecting property owners who acquire flood insurance through the program from catastrophic financial losses due flooding, and in requiring that new buildings constructed within 100-year flood plains are better protected from flood damage.

In the 1990's, as a way to encourage local governments to increase their standards for floodplain development, the Flood Insurance Administration (FIA) established the Community Rating System (CRS). The goal of this program is to encourage communities, through flood insurance rate adjustments to implement standards above and beyond the minimum required in order to:

- Reduce losses from floods
- Facilitate accurate insurance ratings
- Promote public awareness of the availability of flood insurance

CRS is a voluntary program designed to reward participating jurisdictions for their efforts to create more disaster-resistant communities using the principles of sustainable development and management. While not currently participating in the program, by enrolling in CRS, Broome County and the participating jurisdictions can leverage greater flood protection while receiving flood insurance discounts. Active involvement in this program for communities enrolled in NFIP is included as a mitigation activity in Section 5.

2.4 Integration of Existing Data and Plans into Mitigation Plan

This HMP integrates local and federal data as discussed below.

2.4.1 Local Data

The Steering Committee reviewed and incorporated existing data and plans to support the mitigation plan. A number of electronic and hard copy documents were made available to support the planning process including:

- HAZNY analyses
- Broome County GIS data
- Documentation of past mitigation actions and grant applications
- Historic maps and local inventory data
- Comprehensive plans for participating jurisdictions
- Broome County Comprehensive Emergency Management Plan (CEMP)

Cross referencing this plan by updating these documents and others like it will need to occur and has been included in Section 5 as mitigation activities.

2.4.2 Federal Data

Federal data was collected and used throughout the mitigation process including:

- US Census data
- HAZUS-MH provided data
- FEMA “How To” Series (386-1 to 386-4, and 386-7)
- Data from NOAA
- USGS topographic data
- Public laws and other programs such as the NFIP were examined to complete this Plan.

A complete list of the existing data and plans used to support this mitigation plan is included in the references section of the Plan. By incorporating data from existing programs into this HMP, Broome County and the participating jurisdictions identified the relevance of mitigation planning in these existing programs. Implementation of this plan through these existing plans is identified as a specific mitigation action in several areas in Section 5 of this Plan. A more detailed explanation of how the Plan will be implemented through existing programs and plans and a description of additional potential resources of funding are included in the following section.

2.5 Continued Public Involvement

Broome County and the participating jurisdictions are committed to the continued involvement of the public in the hazard mitigation process. Copies of the Broome County Multi-Jurisdictional All Hazard Mitigation Plan will be kept and made available for review at the locations listed in Section 2.2.3 as well as maintained on the Broome County website.

A notice regarding annual updates of the Plan and the location of copies of the HMP will be publicized annually after the planning group’s annual evaluation in the Binghamton Press and Sun-Bulletin and posted on the Broome County web site.

Each jurisdiction will be responsible for receiving, tracking, and filing public comments regarding this plan. Contact information for the Broome County Planning Department is included in the Point of Contact information at the end of the executive summary of this Plan.

BCPED will review the HMP and accept public comment as part of an annual review and 5-year Plan update. The Commissioner of Planning and Economic Development serves as the County Mitigation Officer, and will be responsible for soliciting feedback, collecting and reviewing the comments, and ensuring their incorporation in the 5-year Plan update as appropriate. Additional meetings may also be held as deemed necessary. The purpose of these meetings would be to provide the public an opportunity to express concerns, opinions, and ideas about the HMP.

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