



Prepared for the  
Federal Emergency Management Agency, Region 1, and the  
Maine Floodplain Management Program, State Planning Office

## Scoping of Flood Hazard Mapping Needs for Kennebec County, Maine



Open-File Report 2006-1099

U.S. Department of the Interior  
U.S. Geological Survey



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By Robert W. Dudley and Charles W. Schalk

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U.S. Geological Survey  
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U.S. Geological Survey, Reston, Virginia 2006

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Suggested citation:  
Dudley, R.W., and Schalk, C.W., 2006, Scoping of flood hazard mapping needs for Kennebec County,  
Maine: U.S. Geological Survey Open-File Report 2006-1099, 120 p.

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## CONVERSION FACTORS AND ABBREVIATIONS

Multiply	By	To obtain
Length		
inch (in.)	25.4	millimeter (mm)
foot (ft)	0.3048	meter (m)
mile (mi)	1.609	kilometer (km)
Area		
square foot (ft <sup>2</sup> )	0.09290	square meter (m <sup>2</sup> )
square mile (mi <sup>2</sup> )	2.590	square kilometer (km <sup>2</sup> )
Volume		
cubic foot (ft <sup>3</sup> )	0.02832	cubic meter (m <sup>3</sup> )
Slope		
foot per mile (ft/mi)	0.1894	meter per kilometer (m/km)
Velocity and Flow		
foot per second (ft/s)	0.3048	meter per second (m/s)
cubic foot per second (ft <sup>3</sup> /s)	0.02832	cubic meter per second (m <sup>3</sup> /s)

## OTHER ABBREVIATIONS USED IN REPORT

CAC	Community Assistance Contact
CAV	Community Assistance Visit
DFIRM	Digital Flood Insurance Rate Map
FEMA	Federal Emergency Management Agency
FIS	Flood Insurance Study
MEGIS	Maine Office of Geographic Information Systems
NFIP	National Flood Insurance Program
USGS	United States Geological Survey

# Scoping of Flood Hazard Mapping Needs for Kennebec County, Maine

By Robert W. Dudley and Charles W. Schalk

## Section 1. Introduction

This report was prepared by the U.S. Geological Survey (USGS) Maine Water Science Center as the deliverable for scoping of flood hazard mapping needs for Kennebec County, Maine, under Federal Emergency Management Agency (FEMA) Inter-Agency Agreement Number HSFE01-05-X-0018. This section of the report explains the objective of the task and the purpose of the report.

### Background

The Federal Emergency Management Agency (FEMA) developed a plan in 1997 to modernize the FEMA flood mapping program. FEMA flood maps delineate flood hazard areas in support of the National Flood Insurance Program (NFIP). FEMA's plan outlined the steps necessary to update FEMA's flood maps for the nation to a seamless digital format and streamline FEMA's operations in raising public awareness of the importance of the maps and responding to requests to revise them. The modernization of flood maps involves conversion of existing information to digital format and integration of improved flood hazard data as needed. To determine flood mapping modernization needs, FEMA has established specific scoping activities to be done on a county-by-county basis for identifying and prioritizing requisite flood-mapping activities for map modernization. The U.S. Geological Survey (USGS), in cooperation with FEMA and the Maine State Planning Office Floodplain Management Program, began scoping work in 2005 for Kennebec County. Scoping activities included assembling existing data and map needs information for communities in Kennebec County (efforts were made to not duplicate those of pre-scoping completed in March 2005), documentation of data, contacts, community meetings, and prioritized mapping needs in a final scoping report (this document), and updating the Mapping Needs Update Support System (MNUSS) Database or its successor with information gathered during the scoping process.

The average age of the FEMA floodplain maps in Kennebec County, Maine is 16 years. Most of these studies were in the late 1970's to the mid 1980s. However, in the ensuing 20-30 years, development has occurred in many of the watersheds, and the characteristics of the watersheds have changed with time. Therefore, many of the older studies may not depict current conditions nor accurately estimate risk in terms of flood heights.

## Scope of Work

The following is the scope of work as defined in the FEMA/USGS Statement of Work:

Task 1: Collect data from a variety of sources including community surveys, other Federal and State Agencies, National Flood Insurance Program (NFIP) State Coordinators, Community Assistance Visits (CAVs) and FEMA archives. Lists of mapping needs will be obtained from the MNUSS database, community surveys, and CAVs, if available. FEMA archives will be inventoried for effective FIRM panels, FIS reports, and other flood-hazard data or existing study data. Best available base map information, topographic data, flood-hazard data, and hydrologic and hydraulic data will be identified. Data from the Maine Floodplain Management Program database also will be utilized.

Task 2: Contact communities in Kennebec County to notify them that FEMA and the State have selected them for a map update, and that a project scope will be developed with their input. Topics to be reviewed with the communities include (1) Purpose of the Flood Map Project (for example, the update needs that have prompted the map update); (2) The community's mapping needs; (3) The community's available mapping, hydrologic, hydraulic, and flooding information; (4) target schedule for completing the project; and (5) The community's engineering, planning, and geographic information system (GIS) capabilities.

On the basis of the collected information from Task 1 and community contacts/meetings in Task 2, the USGS will develop a Draft Project Scope for the identified mapping needs of the communities in Kennebec County. The following items will be addressed in the Draft Project Scope: review of available information, determine if and how effective FIS data can be used in new project, and identify other data needed to complete the Project and its source. The Draft Project Scope will establish priority levels for flooding sources to be analyzed and mapped, and estimate schedules and associated costs for completion of the components of flood mapping.

The following subject areas are documented in this report as set forth in the statement of work: available flood-mapping-related data and documented mapping needs, community meetings and contacts, scope and prioritization of mapping needs, and project methods. Scoping-level time and costs for identified mapping needs will be provided as a document separate from this report. The appendix section of this report provides a community by community summary of information obtained and used in the scoping process for all 30 communities in Kennebec County that have Flood Insurance Rate Maps (FIRMs) and (or) Flood Insurance Studies (FISs) (table 1).



**Table 1. Organized communities and unorganized territories in Kennebec County, Maine.**

[CID, Community identification number; NSFA, No Specific Flood Hazard Area; FIRM, Flood Insurance Rate Map; \*, Community has a published Flood Insurance Study; ®, Community has a flood insurance rate map largely mapped with unnumbered A-zones but with a water body that has a base flood elevation]

Community	CID	Population (year 2000)	FIRM date
Albion, Town of	230231	1,946	9/27/1985
Augusta, City of	230067	18,560	6/15/1994*
Belgrade, Town of	230232	2,978	1/16/1987*
Benton, Town of	230233	2,557	5/7/2001*
Chelsea, Town of	230234	2,559	6/15/1994*
China, Town of	230235	4,106	6/5/1989*
Clinton, Town of	230236	3,340	5/3/1990*
Farmingdale, Town of	230164	2,804	5/2/1994*
Fayette, Town of	230237	1,040	10/1/2002*
Gardiner, City of	230068	6,198	7/18/1994*
Hallowell, City of	230069	2,467	7/18/1994*
Litchfield, Town of	230238	3,110	11/19/1986*
Manchester, Town of	230239	2,465	10/15/1980*
Monmouth, Town of	230240	3,785	9/3/1980*
Mt. Vernon, Town of	230241	1,524	9/7/2001®
Oakland, Town of	230242	5,959	6/15/1988*
Pittston, Town of	230243	2,548	4/6/1998*
Randolph, Town of	230244	1,911	7/5/1994*
Readfield, Town of	230245	2,360	12/16/1980*
Rome, Town of	230246	980	5/17/1988*
Sidney, Town of	230247	3,514	11/20/1998*
Unity TWP	230602	31	NSFHA
Vassalboro, Town of	230248	4,047	2/7/1975
Vienna, Town of FIRM panels only and study data	230249	527	11/20/1998®
Waterville, City of	230070	15,605	5/7/2001*
Wayne, Town of	230188	1,112	4/3/1989*
West Gardiner, Town of	230250	2,902	3/28/1980*
Windsor, Town of	230251	2,204	2/4/1987
Winslow, Town of	230071	7,743	5/7/2001*
Winthrop, Town of	230072	6,232	8/15/1980*
TOTAL		117,114	

## Description of Kennebec County

Kennebec County in south-central Maine (fig. 1) encompasses an area of 940 square miles ( $\text{mi}^2$ ) and comprises 29 municipalities (towns and (or) cities) and 1 township (table 1, fig. 1). The total population in Kennebec County reported by the 2000 census was approximately 117,000 people. The population for the 2000 census represents a 1-percent increase over the population reported in the 1990 census (115,900 people) and a 6.5-percent increase over the population reported in the 1980 census (109,900 people) (University of Maine, 2004; U.S. Census Bureau, 2002).

There are approximately 223 ponds and lakes in Kennebec County ranging in surface area from 0.11 acres (Unnamed Pond, in Albion) to 8,530 acres ( $13.3 \text{ mi}^2$ ) (Great Pond, in the communities of Belgrade and Rome) for a total surface area of 54,770 acres ( $85.6 \text{ mi}^2$ ) (Maine Office of Geographic Information Systems written commun., November 2005). The median pond size is 15.4 acres. There are approximately 1,020 mi of rivers and streams in Kennebec County (fig 2). The largest river in the county, Kennebec River, flows from north to south through the (approximate) middle of the county and through the state capital, Augusta where it has a drainage area of  $5,500 \text{ mi}^2$  (fig. 2). The Kennebec River composes the corporate boundaries of Waterville, Winslow, Sidney, Vassalboro, Hallowell, Farmingdale, Chelsea, Randolph, Gardiner, and Pittston. Cobbosseecontee Stream, a tributary to the Kennebec River, drains a chain of lakes in Kennebec County including Cobbosseecontee, Annabessacook, and Maranacook Lakes. Messalonskee Stream, a tributary to the Kennebec River, drains a chain of lakes in Kennebec County including Messalonskee Lake, Great Pond, and Long Pond.

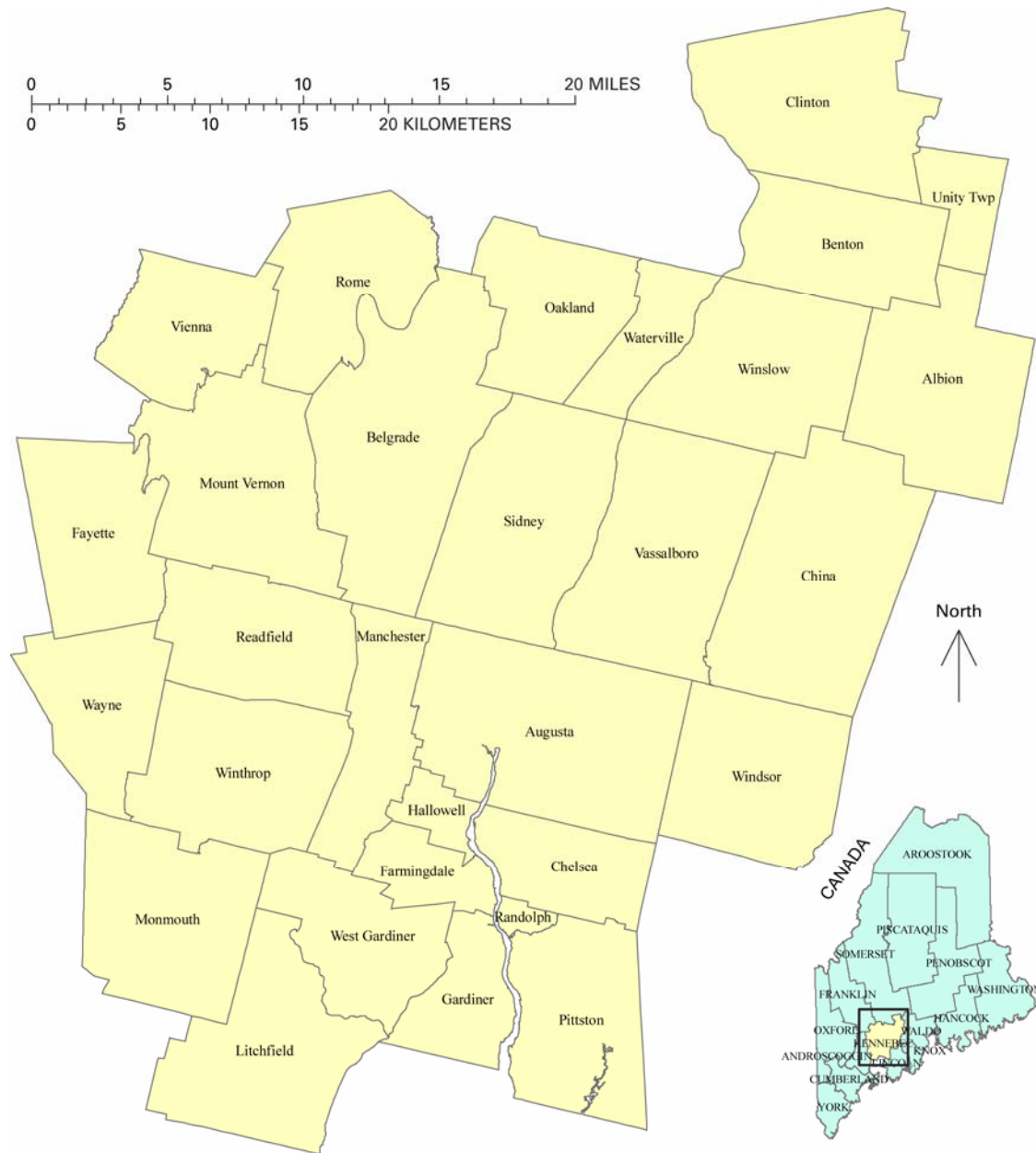


Figure 1. Communities in Kennebec County, Maine.

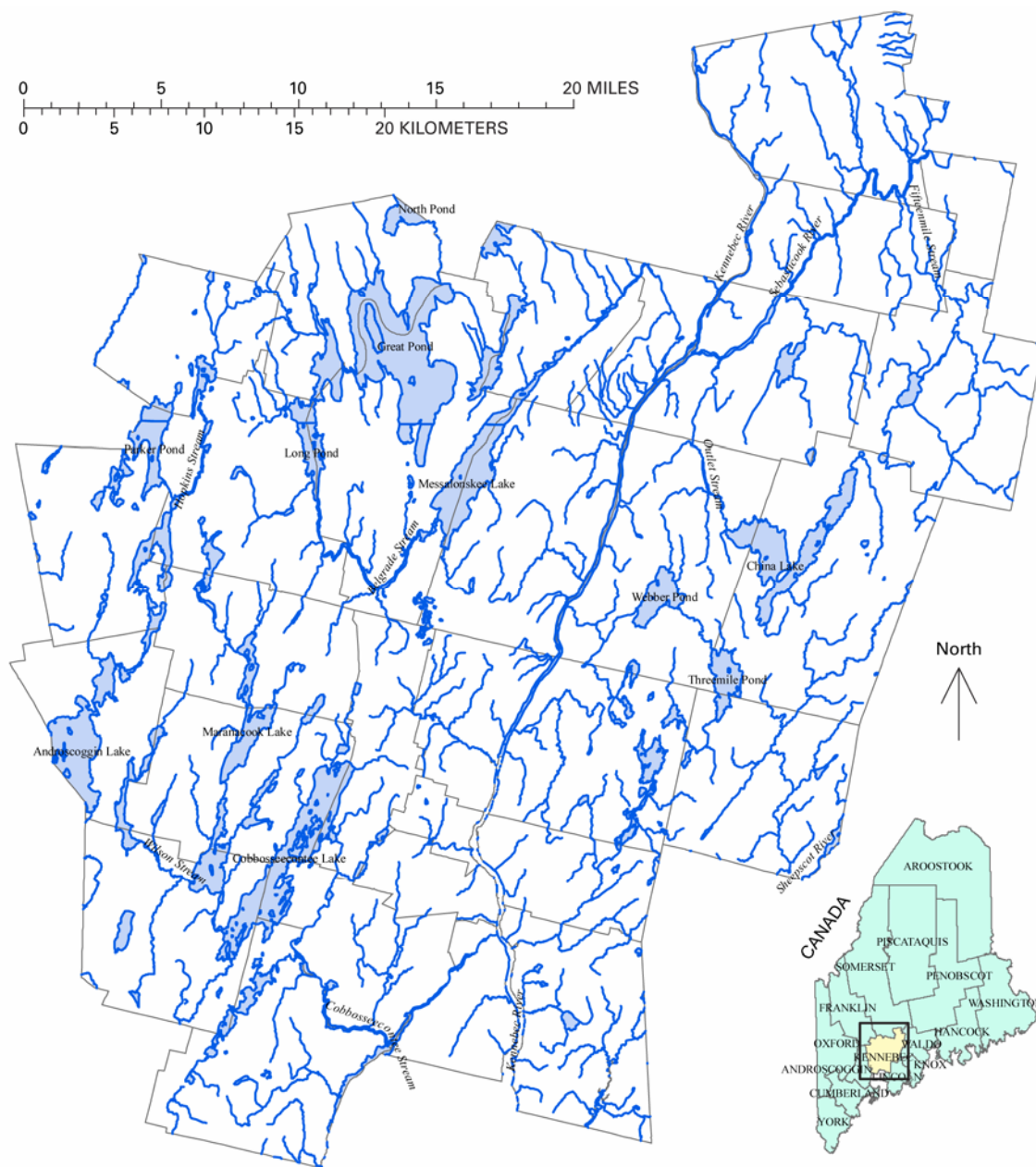


Figure 2. Hydrology of Kennebec County, Maine.

## Section 2. Available Flood-Mapping Data and Mapping Needs

Flood-mapping data and mapping needs available prior to community scoping meetings were identified in prescoping efforts as part of National Services Provider (NSP) Task Order Number 4 (Burm, 2005). For the scoping activities documented in this report, the USGS reviewed the prescoping report to ensure the data contained in this report is utilized to the maximum extent possible and to avoid duplication of effort.

### Community FISs and FIRMs

There are 23 communities that have FIRMs with active FIS reports in Kennebec county (table 1). Two communities (Towns of Vienna and Mount Vernon) have FIRMs largely mapped with unnumbered A-zones, each with a water body that has a BFE (AE Zone). Four communities (Towns of Albion, Fayette, Vassalboro, Windsor) have FIRMs or Flood-Hazard Boundary Maps with only unnumbered A-zones. One community (Unity Township) is designated as having no specific flood hazard areas (NSFHA) (table 1; Burm, 2005). There are 78 riverine flood profiles for Kennebec County. Communities with FIS reports and communities with unmapped NSFHAs are itemized and flood profiles are summarized by community in the March 2005 Prescoping Report for Kennebec County (Burm, 2005).

The effective map dates range from November 29, 1974, in the town of Fayette to September 7, 2001, in the town of Mount Vernon. Twenty-seven percent of the FIRMs in Kennebec County are 20 years old or older; 73 percent are 10 years or older. The oldest FIRM is 31 years old, the most recent is 4.5 years old, and the average age is approximately 16 years. It is important to note that the effective map date is the date the map was last revised. Some revisions were minor adjustments and did not affect entire map panels. As a result, much of the information depicted on the county's floodplain maps is likely to be older than 16 years.

### State of Maine Best Available Data (BAD) for Unnumbered A-Zones

The Maine Floodplain Management Program has developed, over several years, a data set that tabulates information about the best available data (base flood elevations) for water bodies designated as unnumbered "A" zones on flood maps for communities throughout the State. The base flood elevations tabulated in this data set are derived from hydrologic and (or) hydraulic studies of water bodies that may be published in FISs for adjacent communities or published as part of flood studies not directly related to FEMA FISs (e.g. Army Corps of Engineer projects, Natural Resources Conservation Service projects, and Letter of Map Changes). These data are used in this report as part of the prioritization of mapping needs for a community (see section: Scope and Prioritization of Mapping Needs in Kennebec County). The existence of these data was documented in the March 2005 Prescoping Report for Kennebec County (Burm, 2005) and are documented in the appendix of this report on a community-by-community basis. Information about these data is available from the Maine Floodplain Management Program web site at: <http://www.state.me.us/spo/flood/bad/>

### Letters of Map Change (LOMCs)

A Letter of Map Change (LOMC) is a letter issued by FEMA in response to a request to revise or amend an effective National Flood Insurance Program (NFIP) map to remove a property or reflect changed flooding conditions on the effective map. LOMCs may include Letters of Amendments (LOMAs), Letters of Map Revisions (LOMRs), and Letter of Map Revision based on Fill (LOMR-F) as defined below:

- LOMAs: A LOMA is an official amendment, by letter, to an effective NFIP map. A LOMA establishes the property location in relation to the Special Flood Hazard Area (SFHA). There is no appeal period for LOMAs, and the letter becomes effective the date that it is sent.
- LOMRs: A LOMR is an official revision, by letter, to an effective NFIP map. A LOMR may change flood-insurance risk zones, floodplain and (or) floodway boundary delineations, planimetric features, and (or) Base Flood Elevations (BFEs). The effective date of a LOMR depends on the type of change requested. For example, some LOMR's are effective on the date that the letter is issued and others become effective following an appeal period (typically 30 to 90 days or 6 months).
- LOMR-F: A Letter of Map Revision based on Fill (LOMR-F) may be filed as a special case of the LOMR. A LOMR-F provides FEMA's determination concerning whether a structure or parcel has been elevated on fill above the BFE and excluded from the SFHA. A LOMR-F is an official revision, by letter, to an effective NFIP map. The letter becomes effective on the date that it is sent.

In addition to the categories above, *conditional* LOMAs, LOMRs, and LOMR-Fs may be issued by FEMA to comment on a proposed project. The letter does not revise an effective NFIP map, but indicates whether the project, if built as proposed, would be recognized by FEMA.

## LOMCs in Kennebec County

The presence and number of LOMCs in a community can be an indication of increasing development in a community and (or) problematic flood hazard boundaries. LOMCs are used in this report as part of the prioritization of mapping needs for a community (see section: Scope and Prioritization of Mapping Needs in Kennebec County). The March 2005 Prescoping Report for Kennebec County (Burm, 2005) tabulates LOMC data for the county. A Geographic Information System (GIS) digital data set representing georeferenced locations of LOMCs within Kennebec County was created as part of the pre-scoping effort.

## Community Flood Ordinances

The Maine Floodplain Management Program provides all participating communities (92 percent of the State's communities) with model floodplain management ordinances, guidance and review, and maintains all community flood ordinances on file. As documented in the March 2005 Prescoping Report for Kennebec County (Burm, 2005), the contact for community flood ordinances is the Maine Floodplain Management Program:

Brigitte Ndikum-Nyada  
 Planning and Research Associate  
 Maine Floodplain Management Program  
 State Planning Office  
 184 State Street, 38 SHS  
 Augusta, ME 04333  
 Tel: 207-287-8932  
 Fax: 207-287-6489

## Mapping Needs Update Support System (MNUSS)

In accordance with section 575 of the National Flood Insurance Reform Act of 1994, FEMA assesses "...the need to revise and update all floodplain areas and flood risk zones identified, delineated, or established based on an analysis of all natural hazards affecting flood risks." FEMA initiated the Mapping Needs Assessment (MNA) process, which identifies and prioritizes flood hazard mapping needs for communities nationwide. As part of this effort, FEMA developed the Mapping Needs Update Support System (MNUSS), which is an interactive, web-based software application that maintains an inventory of needs for future map updates. In particular, MNUSS stores information on the following two types of update needs:

- **Map Maintenance Needs:** Includes changes to base map information, such as the addition of new roads, changes to corporate limits, and incorporation of LOMCs.
- **Flood Data Update Needs:** Includes changes to flood hazard areas as a result of changes in hydrologic and hydraulic conditions, changes to Base Flood Elevations (BFEs), and (or) changes in the floodplain delineation.

Mapping needs may be viewed and entered into MNUSS by a variety of parties, including FEMA Headquarters and Regional offices, state NFIP coordinators, study contractors, Cooperating Technical Partners (CTPs), and other Federal agencies, such as the U.S. Army Corps of Engineers (USACE) and the USGS. All new or edit needs are reviewed and approved by the FEMA MNUSS controller prior to entry into the system.

The March 2005 Prescoping Report for Kennebec County (Burm, 2005) tabulates MNUSS entries for the county. As part of the scoping process, existing entries in MNUSS were retrieved by USGS and reviewed with the State Planning Office Floodplain Management Program and community representatives. The review process resulted in the identification of duplicate, outdated, missing, and (or) erroneous entries. These findings will provide the basis for updates to MNUSS or its successor upon completion of the scoping report. Existing MNUSS entries are compiled in appendix D.

## Community Assistance Visits (CAVs) and Community Assessment Contacts (CACs)

CAVs and CACs provide assistance to communities regarding the administration and enforcement of their floodplain management ordinances. CAV and CAC data for the county are tabulated in the March 2005 Prescoping Report for Kennebec County (Burm, 2005) and are listed in the appendix of this report (Appendix A).

## GIS Data

Most GIS data in Maine reside with the Maine Office of GIS (MEGIS) as the agency acts as a central repository for these data. Although not every community shares their GIS data with MEGIS, many data sets are shared and served over the Internet. Data can be accessed on the MEGIS web site at: <http://apollo.ogis.state.me.us/>. Community-specific data that is not shared with MEGIS are documented as part of the community scoping-meeting process (see interview data in Appendix). All data served by MEGIS are referenced to North American Datum 1983 (NAD83), Universal Transverse Mercator (UTM) Zone 19, in meters, and are available to FEMA.

## Base Map Data

Base map layers maintained by MEGIS include features such as roads, streams, and political boundaries. Base map data layers have been acquired from a variety of sources including the USGS data and represent many of the feature types found on USGS topographic maps. More recently developed data were derived from various sources providing improved base map accuracy. Existing coverages maintained by MEGIS can be linked to or viewed at the following URL:

<http://apollo.ogis.state.me.us/>

The most detailed orthophotography (0.5-foot resolution) is in the southwestern quadrant of the town of Monmouth (fig. 3); the 0.5-foot (each image pixel representing a planimetric square 0.5 foot on a side) imagery data set is accurate for 1"=100' mapping applications and is a true-color mosaic of high-resolution digital orthophotographs. Flown in April 2001, from Portland to Auburn ME the ortho-rectified digital imagery covers nearly all of Cumberland County and part of Androscoggin County. Central Kennebec County is covered by 1-foot high resolution digital orthophotographs produced from aerial photos collected over southwest Maine in spring 2003 (fig. 3). The remainder of the county is covered by 2-foot resolution digital orthophotographs produced from aerial photos collected over southwest Maine in spring 2003 (fig. 3).

Community-specific aerial photography is documented as part of the community scoping-meeting process (see Appendix). The town of Chelsea indicated that they have black and white aerial photography shot May 13, 1972 at a scale of 1 in. equals 400 ft. The town of Oakland indicated that they shoot black and white aerial photography of the entire town on an annual basis, scale unspecified. The town of Readfield indicated they have aerial photography from 1998 following the ice storm in January of that year, as well as photography shot in 2003 for GIS use – scale and color formats were unspecified. The town of Winslow indicated they have aerial photography shot in 1993, scale and color format unspecified.



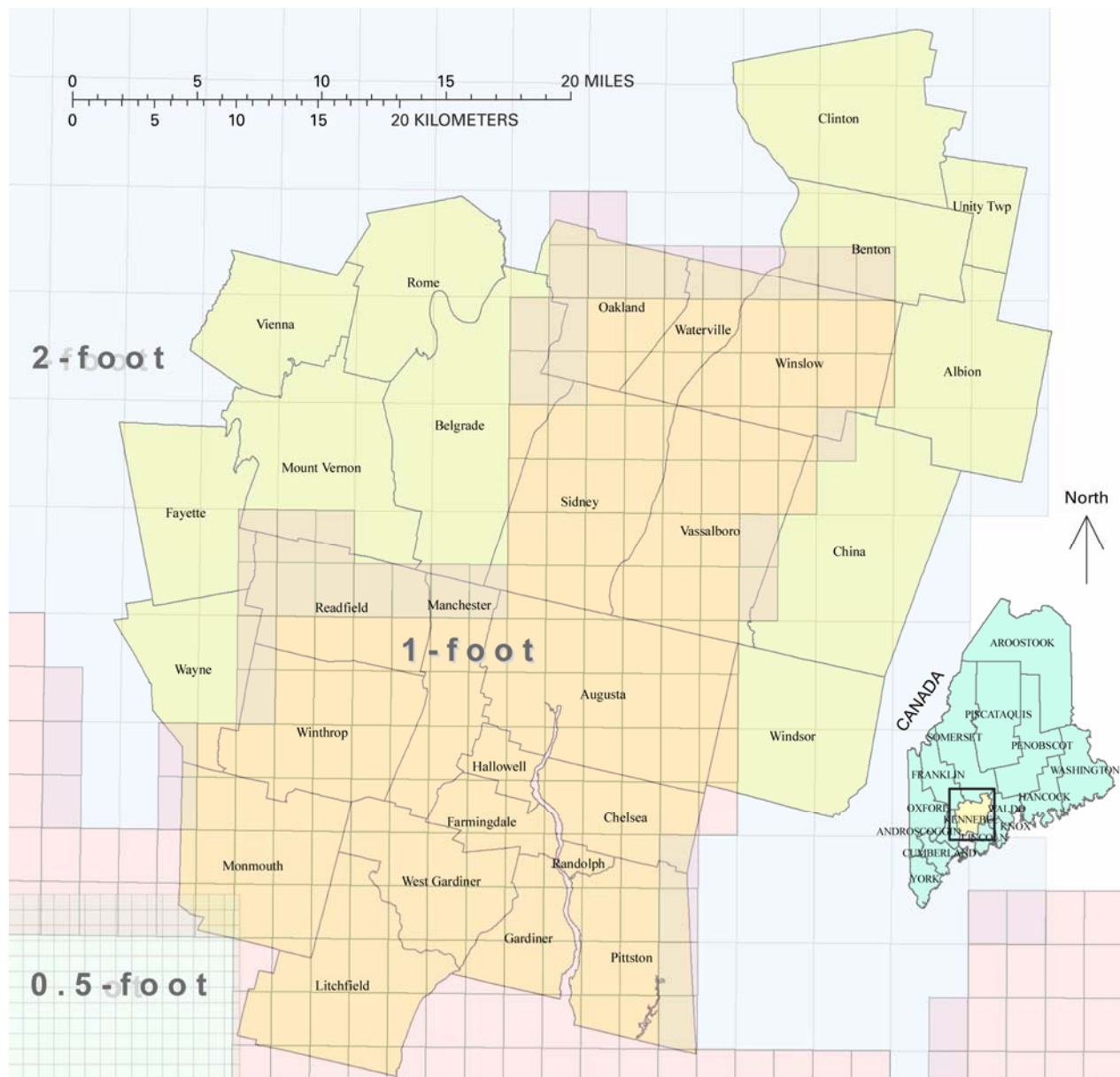


Figure 3. Orthophotography indices for Kennebec County, Maine. Indices indicate coverage of 0.5-foot (each image pixel representing a planimetric square 0.5 foot on a side), 1-foot, and 2-foot orthophotography archived and served through the internet by the Maine Office of Geographic Information Systems (MEGIS).

## Topographic Data

Digitally scanned USGS 7.5-minute quadrangles provide topographic data for the entire state of Maine with 10- and 20-ft contour intervals, variable by location. Digital Elevation Models (DEM) also are available through the USGS National Elevation Dataset (NED). The NED has been developed by merging the highest-resolution, best quality elevation data available across the United States into a seamless raster format. NED horizontal datum for Maine is NAD83 and vertical datum is North American Vertical Datum 1988 (NAVD88). The NED is continually updated as best available DEM data become available. DEM data with 30 meter (m) resolution (each raster pixel represents a planimetric square 30 meters on a side) are available for the entire state of Maine. DEM data with 10-m resolution (1/3 arc second) are available for the entire state of Maine except for extreme northern Somerset and Oxford Counties. DEM data can be downloaded through the USGS Seamless Data Distribution Web site at <http://seamless.usgs.gov/web site/seamless/viewer.ph>.

The Maine Department of Transportation (MDOT) routinely collects detailed topographic data for highway projects. The data are typically limited to an area within 300 ft of the centerline of the highway. The scope, scale, and accuracy of the data are project specific and depend on the flight level of the survey. MDOT does not maintain any kind of searchable database cataloging these data. The MDOT Survey and Photogrammetric Group is willing to search their files for available data if they are provided a GIS shapefile of an area of interest. As of this draft, MDOT has been provided GIS shapefiles of scoped study areas for Kennebec County. Availability of data is pending. The primary contact for topographic data from the MDOT Survey and Photogrammetric Group is Tim Liseige, Photogrammetric and Control Engineer, (207) 624-3493, [tim.liseige@maine.gov](mailto:tim.liseige@maine.gov).

Community-specific topographic data are documented as part of the community scoping-meeting process (see Appendix). None of the interviewed communities indicated that they had any community-specific topographic data available.

## Hydrography Data

MEGIS, in cooperation with the USGS, is currently enhancing Maine's 1:24,000 digital hydrography data to create National Hydrography Dataset (NHD) high-resolution data (spatial data describing hydrologic features). The NHD data are partitioned into the following layers: streams, ponds, rivers, coast, and National Wetlands Inventory (NWI) data. Progress in this effort is ongoing—the current status of these data can be determined by contacting MEGIS at (207) 624-8800 or by visiting their web site <http://apollo.ogis.state.me.us/>. NHD data are available for download from the NHD geodatabase at <http://nhdgeo.usgs.gov/viewer.htm>.

Community-specific hydrography data are documented as part of the community scoping-meeting process (see Appendix). The town of Winslow indicated that Florida Power and Light is doing a study of Halifax Dam as part of the procedures to have it removed. The process to have the Halifax Dam removed is currently ongoing (2006) and there is no guarantee that the dam will be removed. Should it be removed (earliest 2007), this will affect the Sebec River FIS for Winslow and upstream perhaps as far as the Benton Falls Dam in Benton; in which case, there will be a need to have this affected reach of river re-studied.

## Community GIS Contact Information

The March 2005 Prescoping Report for Kennebec County (Burm, 2005) documented the GIS capabilities of communities in Kennebec County. Additional GIS contact information obtained through community scoping meetings is provided in the Appendix on a community by community basis as part of the interview data. The town of Readfield is currently (2006) budgeting for dedicated GIS capabilities. Of all the interviewed communities, only the towns of Winslow and Chelsea indicated that they have dedicated GIS capabilities. Augusta did not attend the meeting but is known to have GIS capabilities by the Maine Floodplain Management Program.

## Community Meetings and Contacts

One community scoping meeting was held for Kennebec County at the USGS Maine Water Science Center in Augusta, Maine, on Monday, November 7th, from 1 to 3 p.m. A second meeting time was planned for November 7th, from 6 to 8 p.m. at the Kennebec Valley Council of Governments (KVCOG) office in Fairfield, Maine, but was cancelled due to lack of interest from town representatives. An invitation letter (with agenda) specifying the time and place and purpose of the meeting was mailed to at least two community officials in every municipality. The letters were addressed to the community code enforcement officer and to the community manager or first selectperson. Planners and surveyors were invited if they were known to the Maine Floodplain Management Program to be involved in floodplain management for their community. Letters were mailed to the Land Use Regulatory Commission (LURC) which oversees land use and other governmental functions for the unorganized territories and townships, and to regional planning commissions, and the county emergency management agency (EMA) director. Example copies of the letter and meeting agenda are attached to this report.

The goals of these meetings were to

- Inform the communities of the nature and the intent of the flood map update process, and
- Solicit community input and discuss the flood-prone areas that communities would like to include as a part of the flood map update.

Robert Dudley, USGS Maine Water Science Center, Bonnie Cowle, Maine Floodplain Management Program, and Stuart Rooney, Watershed Concepts representing FEMA, conducted the meeting. Community representatives were provided an overview of the Map Modernization Program and the map production schedule and technical process.

The latter part of the meeting involved breaking out into small groups with group leaders from USGS, Maine Floodplain Management Program, and Watershed Concepts. The group leaders administered and assisted with the completion of map needs interview forms (example attached, Appendix E). Community representatives were provided copies of their community's flood maps and were encouraged to mark them up as necessary. These marked-up flood maps reside with the Maine Floodplain Management Program. Community representatives were asked to explain and prioritize their needs if possible.

MNUSS entries were reviewed with community representatives for verification. The following two common issues were identified: (1) most MNUSS entries address needs which would be fulfilled with improved base maps such as street locations, street names, and overall difficulty using the map due to lack of distinguishing ground features; and (2) the field indicating "anticipated BFE change" was commonly confused with how much the community thought the BFE was in error — for example, the field may indicate "Increased By 1 to 5 feet" but the need notes may indicate a hydraulic

structure change that would result in a lower BFE, so in this case the “anticipated BFE change” field is populated with a value of how much the community thinks the BFE is in error rather than how much the BFE is expected to change should the reach be restudied.

During the scoping meetings, the Maine Floodplain Management Program’s Best Available Data (BAD) were reviewed with each community representative if BAD data existed for that community. The review was done to make the community aware of the information if they were not already aware of it, and to solicit input on BAD data if any additional information was available to the community that was not listed in the State Planning Office’s (SPO) BAD database.

The following three subject areas encompass the data gathered from the scoping meeting process and completion of interview forms: (1) community contact information, (2) areas of the existing flood maps where there are significant problems (poor mapping or development pressures) or changes to hydrologic/hydraulic conditions, and (3) community mapping resources. Communities that did not attend the meetings were sent interview forms, MNUSS entries, and BAD data and asked to review, complete, and return them. The data from the scoping meetings were entered into the watershed information system (WISE) scoping application and are reported for each community in the Appendix as part of the interview data (Appendix B, C, and D).

## Scope and Prioritization of Mapping Needs in Kennebec County

USGS staff (Robert Dudley, Charles Schalk) met with Maine Floodplain Management Program staff (Lou Sidell, Bonnie Cowle) in September 2005 as an initial kick-off meeting for the scoping process. An action item resulting from that meeting involved Maine Floodplain Management Program staff arriving at a list of factors that should be considered for prioritizing potential mapping needs in the county. Table 2 lists the factors and their qualitative weight, as determined by Maine Floodplain Management Program staff, to be considered for prioritization of flood mapping needs in the county.

**Table 2. Maine Floodplain Management Program factors and qualitative weight for prioritization of community-based flood mapping needs in Kennebec County.**

[Prioritization factors are listed approximately in order from highest to lowest importance; LOMCs, Letters of map change; MNUSS, Mapping needs update support system]

Community Prioritization Factors	Weight
Map age	Very High
Map type	Very High
Population	High
Population growth	High
Number of LOMCs	High
Number of insurance policies	High
Ratio of insurance policies to claims	Medium
Presence of best available data	Medium
Number of shoreland zoning permits in the vicinity of the water body	Medium
Community-specified map needs that coincide with map needs documented in the Maine Floodplain Management Database and MNUSS	Medium to Low
Repetitive loss	Medium

Mapping needs were grouped into one of four different types of studies required to create or update flood hazard zones.

- **Baseline–DFIRM only:** The most economical method of creating a countywide DFIRM is through digitizing flood-hazard information from the effective FIRMs and FISs onto new mapping. This baseline option is currently being undertaken by MEGIS and other FEMA contractors.
- **Redelineation:** Existing hydrologic and hydraulic studies of the water body are adequate and the water body requires only the redelineation of the base flood elevations using updated topographic data.
- **Limited Detailed Study:** Automated tools are used to produce digital information or floodmapping for the water body in question has already been studied in detail and requires limited technical reworking of the hydrologic and (or) hydraulic analysis or the water body in question has not been studied in detail but it is expected that approximate methods would suffice to adequately map the flood hazard.
- **Detailed Study:** Can be performed to develop the digital information, including field surveyed cross-sections and structures. Because this is the most expensive type of study that FEMA can perform, the scope of the detailed study may be limited.

Note that Detail and Limited Detail studies are also assumed to need redelineation using updated topographic data, incorporating results from the new hydrologic and (or) hydraulic analyses.

USGS staff (Robert Dudley, Charles Schalk) met with Maine Floodplain Management Program staff (Bonnie Cowle) December 8, 2005 to review interview data and marked-up maps and to arrive at an initial list of mapping needs for the county. The map needs derived through this meeting were entered into the WISE scoping application. During this meeting, Maine Floodplain Management Program staff provided first-cut prioritization on a scale from 1 to 3 (1=highest) on the basis of community need and historical community involvement in floodplain management.

Other first-cut prioritization factors included BAD, connectivity, and historically documented mapping needs. Higher priority was given to A-zone waterbodies with existing BAD where maps could be created or greatly improved by simply collecting improved topographic information and redelineating existing detailed base flood elevations. Higher priority was given to waterbodies with high connectivity, where connectivity is a measure of the number of neighboring communities that are adjacent to or would otherwise benefit from improved mapping of a particular water body. For example, an A-zone river reach that connected to a detail study upstream or spanned multiple communities or a lake that bordered multiple communities would receive higher priority than a pond contained within the corporate limits of a single community. Higher priority was given to waterbodies that had been historically documented as a mapping need in either the Maine Floodplain Management Program's Database or MNUSS or both. Historical documentation of a mapping need is indicative of an ongoing need that has been known to be a need in the past.

## Prioritized Mapping Needs and Scopes

Mapping needs for the county compiled in consultation with the Maine Floodplain Management Program were ranked on the basis of prioritization scoring factors (table 3). Summing the scoring factors produced a community-based prioritized list of mapping needs involving redelineation, limited detail study, or detail study (table 4, fig. 4).

A second community-based prioritized list was created for map digitization only (table 5, fig. 4). This second list provides a way to prioritize communities that need modernized maps but do not necessarily have map revision needs (redelineation, limited detail study, or detail study). The scoring formula for this prioritized list used the same factors as those used for table 4 except for presence of BAD, historical mapping needs, water body priority, and water body connectivity.

**Table 3. Scoring formula for prioritization of community-based flood mapping needs in Kennebec County.**

[Min, minimum data value for the variable of interest; Max, maximum data value for the variable of interest; N/A, not applicable; mi<sup>2</sup>, square miles; BAD, best available data; LOMCs, letters of map change; Maine Floodplain Management map type codes: b, unnumbered A-zones only; c, base-flood elevations without floodway; d, base- flood elevations with floodway; e, coastal]

Community population1		Presence of BAD		Historical mapping need coincides with community-specified need	
Range	Score	Range	Score	Range	Score
Min = 83 Max= 4,214	1 point per 500 people; maximum of 50 points	Yes	10 points	Yes	5 points
		No	0	No	0
Population Density (people/mi2)		Number of insurance policies		Number of LOMCs	
Range	Score	Range	Score	Range	Score
Min= 4 Max= 89	1 point per 10 people/mi²; maximum of 50 points	Min= 0 Max= 27	1 point per policy	Min= 0 Max= 42	1 point per LOMC
Population Growth2 (percent)		Ratio of claims to policies		Number of shoreland zoning permits	
Range	Score	Range	Score	Range	Score
Min= -28 Max= 70	1 point per 5 percent (can be negative)	Min= 0 Max= 1.2	5 points x the ratio of claims to policies	Min= 0 Max= 68	0.2 point per shoreland zoning permit
Map age (years)		Number of repetitive loss claims		Water body connectivity	
Range	Score	Range	Score	Range	Score
Min= 10 Max= 21	1 point per year	Min= 0 Max= 2	1 point per repetitive loss claim	Min= 1 Max= 16	1 point per connected community
Map type		Water body priority			
Range	Score	Range	Score		
b	20 points	1 (highest)	10 points		
c	10	2	6		
d	5	3 (lowest)	3		
e	5				

<sup>1</sup> On the basis of the 2000 census.

<sup>2</sup> Population growth computed for the period 1980-2000.

**Table 4. Prioritized community-based flood mapping needs in Kennebec County requiring redelineation, limited detail study, or detail study.**

Rank	Water body	Community	Study Type	Score
1	Kennebec River	Waterville, City of	Limited Detail Study	132.2
2	Patee Pond	Winslow, Town of	Detail Study	99.9
3	Kennebec River	Vassalboro, Town of	Redelineation	97.9
4	Messalonskee Stream	Oakland, Town of	Detail Study	94.4
5	Echo Lake	Fayette, Town of	Redelineation	91.9
6	Three-mile Pond	Windsor, Town of	Redelineation	83.2
7	Maranacook Lake	Readfield, Town of	Redelineation	82.9
8	Outlet Stream	Vassalboro, Town of	Detail Study	82.9
9	Long Pond	Windsor, Town of	Redelineation	82.2
10	Torsey Lake	Readfield, Town of	Limited Detail Study	75.9
11	Flying Pond	Mt. Vernon, Town of	Redelineation	75.3
12	Parker Pond	Mt. Vernon, Town of	Detail Study	60.3
13	Flying Pond	Vienna, Town of	Redelineation	48.6
14	Fifteen-mile Stream	Benton, Town of	Detail Study	47.0
15	Parker Pond	Vienna, Town of	Detail Study	35.6

**Table 5. Prioritized community-based flood mapping need in Kennebec County on the basis of nonrevised baseline-DFIRM production only.**

Rank	Community	Score
1	Augusta, City of	178.0
2	Gardiner, City of	143.1
3	Hallowell, City of	130.3
4	Belgrade, Town of	128.9
5	Waterville, City of	112.2
6	Winthrop, Town of	106.8
7	Randolph, Town of	95.9
8	Winslow, Town of	93.9
9	Litchfield, Town of	92.0
10	Oakland, Town of	87.4
11	China, Town of	85.7
12	Wayne, Town of	85.4
13	Monmouth, Town of	77.3
14	Vassalboro, Town of	75.9
15	West Gardiner, Town of	75.6
16	Rome, Town of	71.9
17	Fayette, Town of	68.9
18	Readfield, Town of	63.9
19	Albion, Town of	63.9
20	Windsor, Town of	63.2
21	Manchester, Town of	62.8
22	Mt. Vernon, Town of	60.3
23	Farmingdale, Town of	58.3
24	Clinton, Town of	54.0
25	Sidney, Town of	53.4
26	Benton, Town of	42.0
27	Chelsea, Town of	41.8
28	Pittston, Town of	31.5
29	Vienna, Town of	26.6
30	Unity TWP	5.5





## Project Time and Costs for Identified Mapping Needs

The USGS Maine Water Science Center will provide scoping-level time and cost estimates for the identified study needs for each water body listed in table 4. The time and cost estimates will include costs for hydrologic, hydraulic, and topographic data collection and analyses and mapping, depending on the identified type of study needed for each water body. The time and cost estimates will be submitted to the cooperating agencies (FEMA, Maine Floodplain Management Program) as a separate document as set forth in the scope of work.

## Project Alternatives

Costs can be reduced by cutting back on the level of effort for the hydrologic and hydraulic (H&H) analyses and (or) reducing the number of DFIRM panels.

Alternative H&H options that would help FEMA to reduce costs include reducing the study scope from a detailed study to a limited detail study or redelineation of current flood information only. Reducing the number of DFIRM panels by altering the mix of panel scales would lower the total panel count and reduce the estimated DFIRM production cost.

## Section 3. Options for Future Mapping and DTM Preparation

### Mapping Requirements

This section provides an assessment of the costs and benefits of utilizing the data cataloged in the previous section for the preparation of Digital Flood Insurance Rate Maps (DFIRMs) for Kennebec County. Options are presented for using these data sets in various combinations and supplementing them with new data sets.

DFIRMs are produced from three broad categories of geospatial data: (1) Base Map, (2) Digital Terrain Model (DTM), and (3) Flood-Insurance Risk Zones. The spatial accuracy of each of these three categories is fixed by the specifications contained in the Guidelines and Specifications for Flood Hazard Mapping Partners, April 2003 (Guidelines and Specifications).

- **Base Maps:** Base maps are acquired from MEGIS and will be used by FEMA as a “backdrop” to the flood-insurance risk zones shown on the DFIRMs.
- **Digital Terrain Models (DTMs):** DTMs are used in conjunction with hydrologic and hydraulic models to interpret the limits of flood-insurance risk zones. DTMs represent terrain with irregularly-spaced spot elevations (x, y, z) and breaklines that indicate changes in ground slope at features such as the toe or top of channel banks or ridge lines. These data sets are generally photogrammetrically compiled by a mapping contractor from stereo photos and utilized in the form of a Triangulated Irregular Network (TIN) or a Digital Elevation Model (DEM). A DEM uses a regular grid, or raster, spacing of (x, y, z) points to represent the land surface. Each grid cell is assigned an average elevation to represent the elevation of the ground that is covered by the grid cell. A DEM represents the terrain surface with a mesh of regularly spaced points, whereas a TIN uses contiguous triangular planes.
- **Flood-Insurance Risk Zones:** Geographic boundaries produced by FEMA and provided in digital format.

### Base Map

Base maps are defined in the Guidelines and Specifications as the “map of the community that depicts cultural features (roads, railroad, bridges, dams, culverts), drainage features, and corporate limits.” Depending on the source of the base map, the specific features found on DFIRMs may include the following data and features:

- **Roads:** centerlines, edge-of-pavement, right-of-way, names.
- **Railroads:** names.
- **Bridges:** names.
- **Flood Control Structures:** headwall, dam, levee, names.
- **Airport Boundaries:** names.
- **Rivers:** centerlines, banks, names.
- **Streams:** names.

- Lakes: names.
- Political Boundaries: county, municipality, special districts, wards, military reservations, Native American lands, names.
- Land Use: parks, individual land parcels, names.

The Guidelines and Specifications specify “absolute horizontal accuracy” for base map features to establish horizontal accuracy for the position of the digital data set to its actual location on the earth’s surface. The horizontal accuracy is specified as a statistical error distribution at the 95-percent confidence level and is specified in the Guidelines and Specifications as a function of finished map scale, as shown in table 3-1:

**Table 6. Flood Insurance Rate Map (FIRM)  
Horizontal Accuracy.**

[FIRM, Flood Insurance Rate Map]FIRM map scale	Absolute horizontal accuracy at the 95-percent confidence level, in feet
1 in = 500 feet	19.0
1 in = 1,000 feet	38.0
1 in = 2,000 feet	45.6

MEGIS can provide digital data base mapping data for Kennebec County for DFIRM production.

## Digital Terrain Models (DTMs)

FEMA typically develops DTMs for the production of DFIRMS as they are not widely available at the accuracies required by FEMA. The DTMs are used in conjunction with hydrologic and hydraulic models to interpret flood boundaries and can be used by the community for many other purposes other than flood management.

Guidelines and Specifications identify the following four types of DTMs: (1) Digital contours, (2) Digital Elevation Models (DEMs), (3) Mass points and breaklines, and (4) Triangulated Irregular Networks (TIN). Each of these models can be created from the other and their use is application dependent.

Under FEMA guidelines, the allowable DTMs are as follows:

- Digital contours: continuous, nonintersecting lines of equal elevation separated by a specified elevation interval.
- Digital Elevation Model (DTM): x, y, and z coordinates of regularly spaced points that form a grid.
- Mass Points and Breaklines: x, y, and z coordinates of irregularly spaced points.
- Triangulated Irregular Network (TIN): contiguous triangles with x, y, and z values at the vertices and faces with slope and aspect.

The Guidelines and Specifications specify what is referred to as “absolute vertical accuracy” for DTMs, which relates the elevation of the land surface in the digital data set to its actual elevation relative to a specific vertical datum. The National Standard for Spatial Data Accuracy (NSSDA) is specified as a statistical error distribution at the 90- and 95-percent confidence level as a function of the specified contour interval as shown in table 7:

**Table 7. National Standard for Spatial Data Accuracy (NSSDA).**

NSSDA Contour interval	NSSDA 90-percent confidence interval	NSSDA 95-percent confidence interval
2 feet	1 foot	1.2 feet
4 feet	2 feet	2.4 feet

Contouring and DEMs are not printed on DFIRMS so their vertical accuracy is not labeled on the DFIRMS, but it is recorded in the metadata of elevation datasets used for hydrologic and hydraulic modeling.

Neither USGS nor MEGIS has elevation data suitable for hydraulic modeling and communities were contacted to find topographic or elevation data suitable for hydraulic modeling (e.g. 2-foot or 4-foot contours). Community specific topographic data will be used if it meets FEMA standards. New elevation data will be developed as necessary.

DTM development options include (1) obtaining countywide DTM data that covers all communities and (2) obtaining DTM data only for selected floodplain areas as needed to support a detailed study, limited detailed study, restudy or re-delineation of flood hazard areas. Obtaining DTM data on a countywide basis is expensive; most of the acquired data would be outside of the floodplain and not needed for hydraulic analysis. If FEMA obtains new DTM data for selected areas as needed, keeping in mind that is most cost effective to consolidate areas, where possible, and optimizes flights, the unit costs could be reduced.

## Flood-Insurance Risk Zones

Flood-insurance risk zones are created by FEMA to set insurance rates and manage the floodplain. Flood-insurance risk zone accuracy requirements are not specified in the Guidelines and Specifications but can be described in terms of the combined accuracies of the base map, DTM, and the hydrology and hydraulic simulation models.

FEMA flood insurance rate 100- and 500-year flood zones are being converted to digital data layers by MEGIS for each community participating in the National Flood Insurance Program (NFIP) in Maine. These datasets were developed by direct digitization of FIRM maps using data registration techniques that produced the best-fit registration to community boundaries or other suitable features.

The most common comment by community representatives was that a better base map is needed to allow easier determination of where the risk zone boundaries are relative to the existing features such as roads and buildings.

## Section 4. References Cited

- Burm, J.D., 2005, Pre-Scoping Report for Kennebec County, March 2005: Mapping On Demand, NSP Task Order 0004 Deliverable, 70 p.
- University of Maine, 2004, Maine census data, population totals: Fogler Library, University of Maine, accessed on September 16, 2004 at <http://www.library.umaine.edu/census/>
- U.S. Census Bureau, 2002, Maine 2000: Summary population and housing characteristics: 2000 Census of Population and Housing, PH-1-21, 275 p.

## Appendixes

## Appendix A: Community Assistance Contacts and Visits: Kennebec County



# Community Assistance Contacts in Kennebec County

As of 12/2005

	Open Date	Agency	Conducted By	Type	Closed_Date
ALBION, TOWN OF	12/12/1994	STATE	BCB	PHONE	3/13/1995
	9/24/2004	STATE	SLB	PHONE	
BELGRADE, TOWN OF	9/14/1999	STATE	SB	PHONE	11/29/1999
BENTON, TOWN OF	9/25/1992	STATE	WLS	PHONE	
	8/30/1999	STATE	BCB	PHONE	11/29/1999
CHELSEA, TOWN OF	9/17/1991	STATE	TK	PHONE	9/30/1991
CHINA, TOWN OF	9/22/1992	STATE	TJK	PHONE	9/29/1992
	8/15/2001	STATE	SB	PHONE	
HALLOWELL, CITY OF	8/20/1998	STATE	sb	PHONE	1/6/1999
LITCHFIELD, TOWN OF	9/18/1991	STATE	TK	PHONE	9/30/1991
MANCHESTER, TOWN OF	9/7/1995	STATE	BCB	PHONE	4/22/1996
MONMOUTH, TOWN OF	9/21/1992	STATE	TK	PHONE	9/24/1992
	9/23/1998	STATE	sb	PHONE	6/7/1999
MT. VERNON, TOWN OF	3/4/1994	STATE	TJK	PHONE	4/4/1994
OAKLAND, TOWN OF	7/20/1993	STATE	TJK	PHONE	
	8/31/2004	STATE	SLB	PHONE	
PITTSTON, TOWN OF	6/1/1994	STATE	TJK	PHONE	8/1/1994
RANDOLPH, TOWN OF	7/26/1994	STATE	BCB	PHONE	9/13/1994
ROME, TOWN OF	5/12/1994	STATE	TJK	PHONE	

	Open Date	Agency	Conducted By	Type	Closed_Date
<b>SIDNEY, TOWN OF</b>	9/27/2000	STATE	sue baker	PHONE	12/15/2000
	8/15/1994	STATE	TJK	PHONE	
<b>VIENNA, TOWN OF</b>	8/19/1996	STATE	MB	PHONE	10/22/1996
<b>WATERVILLE, CITY OF</b>	5/6/1991	STATE	TK	PHONE	5/13/1991
	6/29/1993	STATE	TJK	PHONE	
	9/16/1999	STATE	SB	PHONE	11/29/1999
<b>WAYNE, TOWN OF</b>	2/18/2001	STATE	Sue baker	PHONE	
<b>WEST GARDINER, TOWN OF</b>	5/21/1991	STATE	TK	PHONE	6/3/1991
<b>WINDSOR, TOWN OF</b>	9/27/1994	STATE	TJK	PHONE	10/20/1994
	9/28/2004	STATE	SLB	PHONE	
<b>WINTHROP, TOWN OF</b>	9/26/2002	STATE	SB	PHONE	

## Community Assistance Visits in Kennebec County

As of 12/2005

	Open Date	Agency	Conducted By	Closed_Date
<b>AUGUSTA, CITY OF</b>	6/29/2004	FEMA	David Kn	
<b>BELGRADE, TOWN OF</b>	4/23/1991	STATE	LS	10/17/1991
<b>CHINA, TOWN OF</b>	9/16/1993	STATE	JD	3/7/1994
<b>GARDINER, CITY OF</b>	9/6/1993	STATE	WLS	
<b>HALLOWELL, CITY OF</b>	9/17/1993	STATE	WLS	12/3/1993
<b>LITCHFIELD, TOWN OF</b>	11/26/1991	STATE	WLS	9/8/1992
<b>MANCHESTER, TOWN OF</b>	12/1/2000	STATE	Lou Sidell	2/9/2001
<b>WEST GARDINER, TOWN OF</b>	9/26/1994	STATE	WLS	12/8/1994

Appendix B: Community Contacts and Best Available Data:  
Kennebec County

# Albion, Town of

## Community Profile

**All LOMCs: 1**

COMMUNITY CONTACTS AND BEST AVAILABLE DATA: KENNEBEC COUNTY

## Augusta, City of

CID 230067

Community Profile

**Map Type:** Floodways

**Current FIRM/FIS Map Date:** 6/15/1994

**Participating=**Yes    **LURC:** No

**Ordinance Date:** 6/20/1994

**Total No. NFIP Policies=**62    **No. Claims Since 1978=** 97

**All LOMCs:** 3

**William      Bridgeo**

(207) 626-2300

City Manager

City of Augusta

16 Cony St.

Augusta                      ME    04330

**Richard      Dolby, CEO**

207-626-2368

8 Mayflower Rd

Hallowell                      ME    04347

**Best Available Data:** ND

**Mapping Status:** ND

**Mapping Needs:** ND

ND, No Data; NSFHA, No Specific Flood Hazard Area

COMMUNITY CONTACTS AND BEST AVAILABLE DATA: KENNEBEC COUNTY

## Belgrade, Town of

CID 230232

Community Profile

**Map Type:** No Floodways

**Current FIRM/FIS Map Date:** 1/16/1987

**Participating=**Yes    **LURC:** No

**Ordinance Date:** 3/6/1999

**Total No. NFIP Policies=**38    **No. Claims Since 1978=** 4

**All LOMCs:** 30

**Mark Turner** 207-495-2258

Town Manager

Town of Belgrade

6 Manchester Rd.

Belgrade ME 04917

**Gary Fuller, CEO** 207-493-2258

16 Cony St

Augusta ME 04330

**Best Available Data:**Barnette Acres, 11-lot subdivision off Wings Mills Rd. on  
unnamed tributary to Belgrade Stream. A.E.  
Hodsdon subdivision flood study, 10/99.

**Mapping Status:** ND

**Mapping Needs:** ND

ND, No Data; NSFHA, No Specific Flood Hazard Area

COMMUNITY CONTACTS AND BEST AVAILABLE DATA: KENNEBEC COUNTY

**Benton, Town of**

**CID 230233**

Community Profile

**Map Type:** Floodways

**Current FIRM/FIS Map Date:** 5/7/2001

**Participating=**Yes    **LURC:** No

**Ordinance Date:** 3/10/2001

**Total No. NFIP Policies=**3    **No. Claims Since 1978=** 7

**All LOMCs:** 0

**Richard        Lawrence**

207-453-7191

Selectmen

Town of Benton

1279 Clinton Ave.

Benton                    ME    04901

**Betsy            Fitzgerald, CEO**

207-445-2996

447 Vassalboro Rd

South China            ME    04358

**Best Available Data:** ND

**Mapping Status:** ND

**Mapping Needs:** ND

ND, No Data; NSFHA, No Specific Flood Hazard Area

# Chelsea, Town of

## Community Profile

**All LOMCs: 0**



COMMUNITY CONTACTS AND BEST AVAILABLE DATA: KENNEBEC COUNTY

## China, Town of

CID 230235

Community Profile

**Map Type:** No Floodways

**Current FIRM/FIS Map Date:** 6/5/1989

**Participating=**Yes      **LURC:** No

**Ordinance Date:** 4/11/1990

**Total No. NFIP Policies=**19      **No. Claims Since 1978=** 3

**All LOMCs:** 15

**Daniel L'Heureux**

207-445-2014

Town Manager

Town of China

571 Lakeview Dr.

China ME 04358

**Scott Pierz, CEO**

207-445-3540

571 Lakeview Dr

South China ME 04358

**Best Available Data:**ND

**Mapping Status:** D&D will look at for XDS projects in '97/'98. (didn't happen)

**Mapping Needs:** Refer to Map File:  
Discrepancy in map corporate limits between the towns of China and Vassalboro. The correct corporate limits is along the western shore of Three Mile Pond, shown in 2/7/75 Flood Hazard Boundary Map for the town of Vassalboro. FIRM Panel 0005 B needs to be revised.

ND, No Data; NSFHA, No Specific Flood Hazard Area

COMMUNITY CONTACTS AND BEST AVAILABLE DATA: KENNEBEC COUNTY

## Clinton, Town of

CID 230236

Community Profile

**Map Type:** Floodways

**Current FIRM/FIS Map Date:** 5/3/1990

**Participating=**Yes    **LURC:** No

**Ordinance Date:** 3/10/1990

**Total No. NFIP Policies=**6    **No. Claims Since 1978=** 8

**All LOMCs:** 0

**D. Dwight Dogherty**

207-426-8511

Town Manager

Town of Clinton

PO Box 219

Clinton ME 04927

**Kenneth Hogate, CEO**

207-426-8511

161 West Ridge Rd

Cornville ME 04976

**Best Available Data:** ND

**Mapping Status:** ND

**Mapping Needs:** ND

ND, No Data; NSFHA, No Specific Flood Hazard Area

COMMUNITY CONTACTS AND BEST AVAILABLE DATA: KENNEBEC COUNTY

## Farmingdale, Town of

CID 230164

Community Profile

**Map Type:** Floodways

**Current FIRM/FIS Map Date:** 5/2/1994

**Participating=**Yes    **LURC:** No

**Ordinance Date:** 3/9/1994

**Total No. NFIP Policies=**7    **No. Claims Since 1978=** 3

**All LOMCs:** 0

**Phyllis Weeks** 207-582-2225  
Selectmen  
Town of Farmingdale  
289 Maine Ave.  
Farmingdale ME 04344

**Robert St. Pierre, Sr., CEO** 207-582-4802  
Rt. 9 Box 1320  
Chelsea ME 04330

**Best Available Data:** ND

**Mapping Status:** ND

**Mapping Needs:** ND

ND, No Data; NSFHA, No Specific Flood Hazard Area

# Fayette, Town of

## Community Profile

**All LOMCs: 0**

COMMUNITY CONTACTS AND BEST AVAILABLE DATA: KENNEBEC COUNTY

**Gardiner, City of**

**CID 230068**

Community Profile

**Map Type:** Floodways

**Current FIRM/FIS Map Date:** 7/18/1994

**Participating=**Yes    **LURC:** No

**Ordinance Date:** 6/28/2003

**Total No. NFIP Policies=**48    **No. Claims Since 1978=** 79

**All LOMCs:** 0

**Jeffrey Kobrock**

207-582-4460

City Manager

City of Gardiner

6 Church St.

Gardiner ME 04345

**Jeffrey Hinderliter, CEO**

207-582-6892

51 Bath Rd.

Wiscasset ME 04578

**Best Available Data:** ND

**Mapping Status:** ND

**Mapping Needs:** ND

ND, No Data; NSFHA, No Specific Flood Hazard Area

# Hallowell, City of

**CID 230069**

## Community Profile

**Map Type:** Floodways

**Current FIRM/FIS Map Date:** 7/18/1994

**Participating=**Yes      **LURC:** No

**Ordinance Date:** 12/8/2003

**Total No. NFIP Policies=43    No. Claims Since 1978= 47**

**All LOMCs: 1**

James Rhodes

207-623-4021

City Manager

City of Hallowell

1 Winthrop St.

Hallowell ME 04347

David Giroux, CEO

207-685-4373

PO Box 182

Readfield ME 04355

**Best Available Data:** ND

Mapping Status: ND

Mapping Needs: ND

ND, No Data; NSFHA, No Specific Flood Hazard Area

# Litchfield, Town of

## Community Profile

**All LOMCs: 10**

# Manchester, Town of

## Community Profile

**All LOMCs: 2**

**Mapping Needs:** see letter from town dated 5/21/97



COMMUNITY CONTACTS AND BEST AVAILABLE DATA: KENNEBEC COUNTY

## Monmouth, Town of

CID 230240

Community Profile

**Map Type:** No Floodways

**Current FIRM/FIS Map Date:** 9/3/1980

**Participating=**Yes    **LURC:** No

**Ordinance Date:** 4/28/1998

**Total No. NFIP Policies=**12    **No. Claims Since 1978=** 5

**All LOMCs:** 4

**Pauline McDougald**

207-933-2206

Selectmen

Town of Monmouth

PO Box 270

Monmouth ME 04259

**David Leeman, CEO**

207-946-7772

337 Norris Hill Rd

Monmouth ME 04259

**Best Available Data:** ND

**Mapping Status:** ND

**Mapping Needs:** ND

ND, No Data; NSFHA, No Specific Flood Hazard Area

COMMUNITY CONTACTS AND BEST AVAILABLE DATA: KENNEBEC COUNTY

**Mt. Vernon, Town of**

**CID 230241**

Community Profile

**Map Type:** No Floodways

**Current FIRM/FIS Map Date:** 9/7/2001

**Participating=**Yes **LURC:** No

**Ordinance Date:** 9/5/2001

**Total No. NFIP Policies=**11 **No. Claims Since 1978=** 0

**All LOMCs:** 9

**Denise Williams**

207-293-2379

Selectmen

Town of Mt. Vernon

1997 North Rd.

Mt. Vernon ME 04352

**Richard Marble, CEO**

207-293-2636

853 Holley Rd

Farmington ME 04938

**Best Available Data:** ND

**Mapping Status:** ND

**Mapping Needs:** ND

ND, No Data; NSFHA, No Specific Flood Hazard Area

COMMUNITY CONTACTS AND BEST AVAILABLE DATA: KENNEBEC COUNTY

## Oakland, Town of

CID 230242

Community Profile

**Map Type:** No Floodways

**Current FIRM/FIS Map Date:** 6/15/1988

**Participating=**Yes **LURC:** No

**Ordinance Date:** 11/10/2004

**Total No. NFIP Policies=**4 **No. Claims Since 1978=** 0

**All LOMCs:** 0

**Steven Dyer**

207-465-7357

Town Manager

Town of Oakland

PO Box 187

Oakland ME 04963

**Robert Ellis, CEO**

207-465-2842

P.O. Box 187

Oakland ME 04963

**Best Available Data:** ND

**Mapping Status:** ND

**Mapping Needs:** ND

ND, No Data; NSFHA, No Specific Flood Hazard Area

# Pittston, Town of

## Community Profile

**All LOMCs: 0**

Gardiner ME 04345

COMMUNITY CONTACTS AND BEST AVAILABLE DATA: KENNEBEC COUNTY

## Randolph, Town of

CID 230244

Community Profile

**Map Type:** Floodways

**Current FIRM/FIS Map Date:** 7/5/1994

**Participating=**Yes    **LURC:** No

**Ordinance Date:** 6/2/1994

**Total No. NFIP Policies=**22    **No. Claims Since 1978=** 9

**All LOMCs:** 0

**R. Gloria Fitzherbert**

207-582-5808

Selectmen

Town of Randolph

121 Kinderhook St.

Randolph ME 04346

**Robert St. Pierre, Sr., CEO**

207-582-4802

Rt. 9 Box 1320

Chelsea ME 04330

**Best Available Data:** ND

**Mapping Status:** ND

**Mapping Needs:** ND

ND, No Data; NSFHA, No Specific Flood Hazard Area

# Readfield, Town of

## Community Profile

**All LOMCs: 2**

Mapping Needs: ND

COMMUNITY CONTACTS AND BEST AVAILABLE DATA: KENNEBEC COUNTY

## Rome, Town of

CID 230246

Community Profile

**Map Type:** No Floodways

**Current FIRM/FIS Map Date:** 5/17/1988

**Participating=**Yes **LURC:** No

**Ordinance Date:** 3/9/2002

**Total No. NFIP Policies=**9 **No. Claims Since 1978=** 0

**All LOMCs:** 19

**Robert Moreau Sr.** 207-397-4011

Selectmen

Town of Rome

8 Mercer Rd.

Rome ME 04963

**Scott Campbell, CEO** 207-634-4778

P.O. Box 465

Norridgewock ME 04957

**Best Available Data:**North Pond: Bfe 256' (Mercer FIRM 5/2/94) Little Pond:  
Bfe 256' (Mercer FIRM 5/2/94)

**Mapping Status:** ND

**Mapping Needs:** ND

ND, No Data; NSFHA, No Specific Flood Hazard Area

COMMUNITY CONTACTS AND BEST AVAILABLE DATA: KENNEBEC COUNTY

## Sidney, Town of

CID 230247

Community Profile

**Map Type:** No Floodways

**Current FIRM/FIS Map Date:** 11/20/1998

**Participating=**Yes **LURC:** No

**Ordinance Date:** 3/20/1999

**Total No. NFIP Policies=**ND **No. Claims Since 1978=** ND

**All LOMCs:** 0

**Gloria Ripley** 207-547-3340  
Selectmen  
Town of Sidney  
2986 Middle Rd.  
Sidney ME 04330

**Gary Fuller, CEO** 207-493-2258  
16 Cony St  
Augusta ME 04330

**Best Available Data:** ND

**Mapping Status:** ND

**Mapping Needs:** ND

ND, No Data; NSFHA, No Specific Flood Hazard Area



COMMUNITY CONTACTS AND BEST AVAILABLE DATA: KENNEBEC COUNTY

## Unity TWP

CID 230602

Community Profile

**Map Type:** NSFHA

**Current FIRM/FIS Map Date:**

**Participating=**Yes      **LURC:** Yes

**Ordinance Date:**

**Total No. NFIP Policies=**ND      **No. Claims Since 1978=** ND

**All LOMCs:** 0

**Fred**              **Todd**

Manager

Land Use Regulatory Commission

SHS 22

Augusta              ME      04333

**Charles**              **Porter, Jr., CEO**

207-437-6325

PO Box 22

Unity              ME      04988

**Best Available Data:**ND

**Mapping Status:** ND

**Mapping Needs:** ND

ND, No Data; NSFHA, No Specific Flood Hazard Area

COMMUNITY CONTACTS AND BEST AVAILABLE DATA: KENNEBEC COUNTY

## Vassalboro, Town of

CID 230248

Community Profile

**Map Type:** Unnumbered A-Zone

**Current FIRM/FIS Map Date:** 2/7/1975

**Participating=**No      **LURC:** No

**Ordinance Date:** 6/15/2005

**Total No. NFIP Policies=**ND    **No. Claims Since 1978=** ND

**All LOMCs:** 1

**Michael Vashon**

207-872-2826

Town Manager

Town of Vassalboro

PO Box 129

North Vassalboro ME 04962

**Betsy Fitzgerald, CEO**

207-445-2996

447 Vassalboro Rd

South China ME 04358

**Best Available Data:**ND

**Mapping Status:** D&D will look at for XDS projects in '97/'98. (didn't happen)

**Mapping Needs:** Corporate boundary? Needs detailed study utilizing data from Augusta & Sidney FIS

ND, No Data; NSFHA, No Specific Flood Hazard Area

COMMUNITY CONTACTS AND BEST AVAILABLE DATA: KENNEBEC COUNTY

**Vienna, Town of**

**CID 230249**

Community Profile

**Map Type:** No Floodways

**Current FIRM/FIS Map Date:** 11/20/1998

**Participating=**Yes **LURC:** No

**Ordinance Date:** 3/6/1999

**Total No. NFIP Policies=**1 **No. Claims Since 1978=** 0

**All LOMCs:** 0

**Randall Carl** 207-293-2087  
Selectmen  
Town of Vienna  
PO Box 38  
Vienna ME 04360

**John Archard, CEO** 207-293-2674  
RR 1 Box 615  
Vienna ME 04360

**Best Available Data:** ND

**Mapping Status:** ND

**Mapping Needs:** ND

ND, No Data; NSFHA, No Specific Flood Hazard Area

COMMUNITY CONTACTS AND BEST AVAILABLE DATA: KENNEBEC COUNTY

## Waterville, City of

CID 230070

Community Profile

**Map Type:** Floodways

**Current FIRM/FIS Map Date:** 5/7/2001

**Participating=**Yes    **LURC:** No

**Ordinance Date:** 4/23/2001

**Total No. NFIP Policies=**21    **No. Claims Since 1978=** 7

**All LOMCs:** 1

**Michael Roy**

207-873-7131

Administrator

City of Waterville

One Common St.

Waterville ME 04901

**Garth Collins, CEO**

207-873-7131

1 Common St

Waterville ME 04901

**Best Available Data:** ND

**Mapping Status:** ND

**Mapping Needs:** ND

ND, No Data; NSFHA, No Specific Flood Hazard Area

COMMUNITY CONTACTS AND BEST AVAILABLE DATA: KENNEBEC COUNTY

## Wayne, Town of

CID 230188

Community Profile

**Map Type:** No Floodways

**Current FIRM/FIS Map Date:** 4/3/1989

**Participating=**Yes **LURC:** No

**Ordinance Date:** 6/11/2003

**Total No. NFIP Policies=**19 **No. Claims Since 1978=** 25

**All LOMCs:** 1

**Gregory Davis**

207-685-4983

Town Manager

Town of Wayne

3 Lovejoy Pond Rd

Wayne ME 04284

**Kenneth Pratt, CEO**

207-685-4983

250 Patten Rd

Greene ME 04236

**Best Available Data:** ND

**Mapping Status:** ND

**Mapping Needs:** ND

ND, No Data; NSFHA, No Specific Flood Hazard Area

COMMUNITY CONTACTS AND BEST AVAILABLE DATA: KENNEBEC COUNTY

## West Gardiner, Town of

CID 230250

Community Profile

**Map Type:** Floodways

**Current FIRM/FIS Map Date:** 3/28/1980

**Participating=**Yes    **LURC:** No

**Ordinance Date:** 3/25/1995

**Total No. NFIP Policies=**13    **No. Claims Since 1978=** 5

**All LOMCs:** 0

**Nancy O'Laughlin**

207-724-3945

Selectmen

Town of West Gardiner

318 Spears Corner Rd.

West Gardiner ME 04345

**Waldo Gilpatrick, CEO**

207-724-3945

68 Bog Hill Rd

W. Gardiner ME 04345

**Best Available Data:** ND

**Mapping Status:** ND

**Mapping Needs:** ND

ND, No Data; NSFHA, No Specific Flood Hazard Area

COMMUNITY CONTACTS AND BEST AVAILABLE DATA: KENNEBEC COUNTY

## Windsor, Town of

CID 230251

Community Profile

**Map Type:** Unnumbered A-Zone

**Current FIRM/FIS Map Date:** 2/4/1987

**Participating=**Yes      **LURC:** No

**Ordinance Date:** 6/24/1987

**Total No. NFIP Policies=**4      **No. Claims Since 1978=** 0

**All LOMCs:** 3

**Carl Pease**      207-445-2998  
Town Manager  
Town of Windsor  
PO Box 179  
Windsor ME 04363

**Robert Mills, CEO**      207-445-2998  
431 Weeks Mills Rd  
Windsor ME 04363

**Best Available Data:** Long Pond: Bfe 187.4' NVGD per Somerville FIS 8/19/91  
Threemile Pond: Bfe 185.4' NGVD per China FIS 6/5/89

**Mapping Status:** ND

**Mapping Needs:** ND

ND, No Data; NSFHA, No Specific Flood Hazard Area

COMMUNITY CONTACTS AND BEST AVAILABLE DATA: KENNEBEC COUNTY

## Winslow, Town of

CID 230071

Community Profile

**Map Type:** Floodways

**Current FIRM/FIS Map Date:** 5/7/2001

**Participating=**Yes    **LURC:** No

**Ordinance Date:** 6/11/2001

**Total No. NFIP Policies=**28    **No. Claims Since 1978=** 40

**All LOMCs:** 1

**Edward        Gagnon**

207-872-2776

Town Manager

Town of Winslow

114 Benton Ave.

Winslow                      ME    04901

**Frank        Stankevitz, CEO**

207-872-2776

16 Benton Ave.

Winslow                      ME    04901

**Best Available Data:** ND

**Mapping Status:** ND

**Mapping Needs:** ND

ND, No Data; NSFHA, No Specific Flood Hazard Area



COMMUNITY CONTACTS AND BEST AVAILABLE DATA: KENNEBEC COUNTY

## Winthrop, Town of

CID 230072

Community Profile

**Map Type:** No Floodways

**Current FIRM/FIS Map Date:** 8/15/1980

**Participating=**Yes **LURC:** No

**Ordinance Date:** 1/29/1997

**Total No. NFIP Policies=**31 **No. Claims Since 1978=** 12

**All LOMCs:** 9

**Cornell Knight**

207-377-7200

Town Manager

Town of Winthrop

17 Highland Ave.

Winthrop ME 04364

**S. Elizabeth**

**Young, CEO** 207-377-2235

PO Box 418

Winthrop ME 04364

**Best Available Data:** ND

**Mapping Status:** ND

**Mapping Needs:** ND

ND, No Data; NSFHA, No Specific Flood Hazard Area

## Appendix C: Community Scoping Interview Data: Kennebec County

**SCOPING INTERVIEW DATA FOR: Benton, Town of**

**CID:** 230233      **Council Govt:**      **Annual Town Meeting Date:**  
**Town Govt:** March

**Community Representative Interviewed**

Betsy Fitzgerald

Code Enforcement Officer

**Email:** bfitz447@adelphia.net

**Tel:** (207) 453-7191      **Fax:** (207) 453-4428

**Floodplain Management Community Contact (if different from above)**

**Known problems with flood maps for your community**

**Do you have specific areas that don't flood (1% chance) but are currently in the floodplain?**

No

**Do you have specific areas that flood (1% chance) but are not mapped in the floodplain?**

Yes, Fowler Brook; 15-Mile Stream

**Note any significant changes in hydraulic structures (bridges, culverts, dams)**

Yes, new culvert on 15 Mile Stream

**Do you have (or are you proposing) high-development areas where you need new or restudied flood elevations or improved map scale?**

Yes, Fowler Brook and 15-Mile Stream

**Community Resources**

**Do you have aerial photography (or plans for any) (flight date, scale, color/bw)?**

No

**Do you have any topographic data (or plans for collecting) (digital terrain, contour maps)?**

No

**Do you have any data related to hydrologic/hydraulic studies (or plans for such studies)?**

Yes. DOT?

**Do you have dedicated GIS capabilities, and if so, provide contact information?**

No

**Notes**

Study: Fowler Brook in detail; 15-Mile Stream in detail. Both high priority, but if push came to shove would pick Fowler as the higher priority.

**SCOPING INTERVIEW DATA FOR: Chelsea, Town of**

**CID:** 230234      **Council Govt:**      **Annual Town Meeting Date:**  
**Town Govt:**

**Community Representative Interviewed**

Bob StPierre

CEO

**Email:**

**Tel:** (207) 582-4802    **Fax:** (207) 588-0025

**Floodplain Management Community Contact (if different from above)**

same

**Known problems with flood maps for your community**

**Do you have specific areas that don't flood (1% chance) but are currently in the floodplain?**

None that the CEO has been made aware of.

**Do you have specific areas that flood (1% chance) but are not mapped in the floodplain?**

No

**Note any significant changes in hydraulic structures (bridges, culverts, dams)**

None identified

**Do you have (or are you proposing) high-development areas where you need new or restudied flood elevations or improved map scale?**

No

**Community Resources**

**Do you have aerial photography (or plans for any) (flight date, scale, color/bw)?**

Yes. 5-13-72, 1"=400ft(+ or -), black and white

**Do you have any topographic data (or plans for collecting) (digital terrain, contour maps)?**

No

**Do you have any data related to hydrologic/hydraulic studies (or plans for such studies)?**

No

**Do you have dedicated GIS capabilities, and if so, provide contact information?**

Yes. Enhanced 9-1-1 Maintenance Map Book (for Chelsea) from Maine State Office of GIS

**Notes**

**SCOPING INTERVIEW DATA FOR: Gardiner, City of**

**CID:** 230068      **Council Govt:**      **Annual Town Meeting Date:**  
**Town Govt:**      None- City Council

**Community Representative Interviewed**

Waldo Gilpatrick  
Code Officer

**Email:** ceo@gardinermaine.com      **Tel:** (207) 582-6892      **Fax:** (207) 582-6895

**Floodplain Management Community Contact (if different from above)**

**Known problems with flood maps for your community**

**Do you have specific areas that don't flood (1% chance) but are currently in the floodplain?**

Yes, outer Marston Road

**Do you have specific areas that flood (1% chance) but are not mapped in the floodplain?**

No

**Note any significant changes in hydraulic structures (bridges, culverts, dams)**

No

**Do you have (or are you proposing) high-development areas where you need new or restudied flood elevations or improved map scale?**

Yes, expanded super market and expanded elevated parking area

**Community Resources**

**Do you have aerial photography (or plans for any) (flight date, scale, color/bw)?**

No

**Do you have any topographic data (or plans for collecting) (digital terrain, contour maps)?**

No

**Do you have any data related to hydrologic/hydraulic studies (or plans for such studies)?**

No

**Do you have dedicated GIS capabilities, and if so, provide contact information?**

No

**Notes**

**SCOPING INTERVIEW DATA FOR: Mount Vernon, Town of**

**CID:** 230241      **Council Govt:**      **Annual Town Meeting Date:**  
**Town Govt:**      ?

**Community Representative Interviewed**

Creston Gaither

Land Surveyor (not a town official)

**Email:** crestong@yahoo.com

**Tel:** (207) 293-2909    **Fax:** (207) 293-9393

**Floodplain Management Community Contact (if different from above)**

Richard Marble, CEO (207) 293-2636

**Known problems with flood maps for your community**

**Do you have specific areas that don't flood (1% chance) but are currently in the floodplain?**

Yes. French's Point, the peninsula in Flying Pond at the northwest corner of town (panel 5b), does not flood.

**Do you have specific areas that flood (1% chance) but are not mapped in the floodplain?**

?

**Note any significant changes in hydraulic structures (bridges, culverts, dams)**

?

**Do you have (or are you proposing) high-development areas where you need new or restudied flood elevations or improved map scale?**

?

**Community Resources**

**Do you have aerial photography (or plans for any) (flight date, scale, color/bw)?**

Don't know

**Do you have any topographic data (or plans for collecting) (digital terrain, contour maps)?**

Don't know

**Do you have any data related to hydrologic/hydraulic studies (or plans for such studies)?**

Don't know

**Do you have dedicated GIS capabilities, and if so, provide contact information?**

Don't know

**Notes**

**SCOPING INTERVIEW DATA FOR: Oakland, Town of**

**CID:** 230242      **Council Govt:**      **Annual Town Meeting Date:**  
**Town Govt:** 1st week in May

**Community Representative Interviewed**

Bob Ellis

Code Enforcement Officer

**Email:** bellis@oaklandmaine.com

**Tel:** (207) 465-2842    **Fax:** (207) 465-9118

**Floodplain Management Community Contact (if different from above)**

Bob Ellis

**Known problems with flood maps for your community**

**Do you have specific areas that don't flood (1% chance) but are currently in the floodplain?**

No

**Do you have specific areas that flood (1% chance) but are not mapped in the floodplain?**

No

**Note any significant changes in hydraulic structures (bridges, culverts, dams)**

No

**Do you have (or are you proposing) high-development areas where you need new or restudied flood elevations or improved map scale?**

No

**Community Resources**

**Do you have aerial photography (or plans for any) (flight date, scale, color/bw)?**

Yes. Yearly Update; Black and white; entire town

**Do you have any topographic data (or plans for collecting) (digital terrain, contour maps)?**

No

**Do you have any data related to hydrologic/hydraulic studies (or plans for such studies)?**

No

**Do you have dedicated GIS capabilities, and if so, provide contact information?**

No

**Notes**

**SCOPING INTERVIEW DATA FOR: Readfield, Town of**

**CID:** 230245      **Council Govt:**      **Annual Town Meeting Date:**  
**Town Govt:**

**Community Representative Interviewed**

Clif Buuck

Code Enforcement Officer

**Email:** readfield.ceo@adelphia.net

**Tel:** (207) 685-3290    **Fax:** (207) 685-3420

**Floodplain Management Community Contact (if different from above)**

**Known problems with flood maps for your community**

**Do you have specific areas that don't flood (1% chance) but are currently in the floodplain?**

Yes. Areas on Torsey Lake (affects Torsey Lake on 1b), also 6b (island).

**Do you have specific areas that flood (1% chance) but are not mapped in the floodplain?**

Yes. See panel 5b (road)

**Note any significant changes in hydraulic structures (bridges, culverts, dams)**

Yes. See panel 6b. All of Marancecook Lake is flooding now because dam in next town was rebuilt 15" too high. Expect to be resolved and cut by September 2006.

**Do you have (or are you proposing) high-development areas where you need new or restudied flood elevations or improved map scale?**

No

**Community Resources**

**Do you have aerial photography (or plans for any) (flight date, scale, color/bw)?**

Yes. 1998 Ice-storm photos, 2003 GIS photos.

**Do you have any topographic data (or plans for collecting) (digital terrain, contour maps)?**

No

**Do you have any data related to hydrologic/hydraulic studies (or plans for such studies)?**

No

**Do you have dedicated GIS capabilities, and if so, provide contact information?**

Being budgeted

**Notes**



**SCOPING INTERVIEW DATA FOR: Vassalboro, Town of**

**CID:** 230248      **Council Govt:**      **Annual Town Meeting Date:**  
**Town Govt:** June 2006

**Community Representative Interviewed**

Betsy Fitzgerald

Code Enforcement Officer

**Email:** bfitz@vassalboro.net

**Tel:** (207) 872-2826      **Fax:** (207) 872-5414

**Floodplain Management Community Contact (if different from above)**

**Known problems with flood maps for your community**

**Do you have specific areas that don't flood (1% chance) but are currently in the floodplain?**

No

**Do you have specific areas that flood (1% chance) but are not mapped in the floodplain?**

No; rate map; Outlet stream?

**Note any significant changes in hydraulic structures (bridges, culverts, dams)**

Yes, Outlet stream

**Do you have (or are you proposing) high-development areas where you need new or restudied flood elevations or improved map scale?**

Yes, Outlet Stream needs to be mapped

**Community Resources**

**Do you have aerial photography (or plans for any) (flight date, scale, color/bw)?**

No

**Do you have any topographic data (or plans for collecting) (digital terrain, contour maps)?**

No

**Do you have any data related to hydrologic/hydraulic studies (or plans for such studies)?**

No

**Do you have dedicated GIS capabilities, and if so, provide contact information?**

No, but maybe in the future

**Notes**

See BAD summary sheet. Webber Pond, BFE exists?, some development on the outlet stream.

**SCOPING INTERVIEW DATA FOR: Vienna, Town of**

**CID:** 230249      **Council Govt:**      **Annual Town Meeting Date:**  
**Town Govt:** 1st Saturday in March

**Community Representative Interviewed**

Creston Gaither

Planning Board Secretary, Land Surveyor

**Email:** crestong@yahoo.com

**Tel:** (207) 293-2909      **Fax:** (207) 293-9393

**Floodplain Management Community Contact (if different from above)**

same

**Known problems with flood maps for your community**

**Do you have specific areas that don't flood (1% chance) but are currently in the floodplain?**

Yes. Based on planning board observations and discussions it appears that the eastern shore of Parker Pond does not flood.

**Do you have specific areas that flood (1% chance) but are not mapped in the floodplain?**

No

**Note any significant changes in hydraulic structures (bridges, culverts, dams)**

Yes. A substantially larger culvert has been placed at Stetson's Brook at Seaveys Corner Road (on panel 5c about 1200 feet south from the route 41 intersection).

**Do you have (or are you proposing) high-development areas where you need new or restudied flood elevations or improved map scale?**

No

**Community Resources**

**Do you have aerial photography (or plans for any) (flight date, scale, color/bw)?**

No, but these are readily available elsewhere.

**Do you have any topographic data (or plans for collecting) (digital terrain, contour maps)?**

No, but these are readily available elsewhere.

**Do you have any data related to hydrologic/hydraulic studies (or plans for such studies)?**

No

**Do you have dedicated GIS capabilities, and if so, provide contact information?**

No

**Notes**

**SCOPING INTERVIEW DATA FOR: West Gardiner, Town of**

**CID:** 230250      **Council Govt:**      **Annual Town Meeting Date:**  
**Town Govt:** March

**Community Representative Interviewed**

Waldo Gilpatrick  
Code officer

**Email:**      **Tel:** (207) 724-3945      **Fax:** (207) 724-6000

**Floodplain Management Community Contact (if different from above)**

**Known problems with flood maps for your community**

**Do you have specific areas that don't flood (1% chance) but are currently in the floodplain?**

No

**Do you have specific areas that flood (1% chance) but are not mapped in the floodplain?**

No

**Note any significant changes in hydraulic structures (bridges, culverts, dams)**

No

**Do you have (or are you proposing) high-development areas where you need new or restudied flood elevations or improved map scale?**

Yes. Most all developed around lake and stream.

**Community Resources**

**Do you have aerial photography (or plans for any) (flight date, scale, color/bw)?**

No

**Do you have any topographic data (or plans for collecting) (digital terrain, contour maps)?**

No

**Do you have any data related to hydrologic/hydraulic studies (or plans for such studies)?**

No

**Do you have dedicated GIS capabilities, and if so, provide contact information?**

No

**Notes**

**SCOPING INTERVIEW DATA FOR: Winslow, Town of**

**CID:** 230071      **Council Govt:**      **Annual Town Meeting Date:**  
**Town Govt:** Monthly

**Community Representative Interviewed**

Frank Stankevitz  
Code officer

**Email:** frank@winslowmaine.org      **Tel:** (207) 872-2776      **Fax:** (207) 872-1999

**Floodplain Management Community Contact (if different from above)**

**Known problems with flood maps for your community**

**Do you have specific areas that don't flood (1% chance) but are currently in the floodplain?**

Yes, Pattee Pond

**Do you have specific areas that flood (1% chance) but are not mapped in the floodplain?**

No

**Note any significant changes in hydraulic structures (bridges, culverts, dams)**

Yes. FPLE to remove the Halifax dam (Application in process); 3rd Bridge on Kennebec River.

**Do you have (or are you proposing) high-development areas where you need new or restudied flood elevations or improved map scale?**

No

**Community Resources**

**Do you have aerial photography (or plans for any) (flight date, scale, color/bw)?**

Yes, Town flown in 1993

**Do you have any topographic data (or plans for collecting) (digital terrain, contour maps)?**

No

**Do you have any data related to hydrologic/hydraulic studies (or plans for such studies)?**

Yes, FPL being required to restudy for Halifax Dam

**Do you have dedicated GIS capabilities, and if so, provide contact information?**

Yes

**Notes**

## Appendix D: Existing MNUSS Data Entries: Kennebec County

EXISTING MNUSS ENTRIES FOR KENNEBEC COUNTY

**BENTON, TOWN OF**

**CID 230233** MNUSS Summary

**MNUSS NeedID** 100000000010194

**Date of Need:** 8/4/1997

**Sebasticook River**

**Panel:** 2302330004B

**Need Desc:** Changes to hydraulic analysis

**Length:** 0.9 mi

**Anticipated BFE Change:** Increased By Greater Than 5 feet

**Location of Floodplain:**

**Need Notes:** Have added a dam on Sebasticook River.

**SPO Comments:** valid

**MNUSS NeedID** 100000000010194

**Date of Need:** 8/4/1997

**Sebasticook River**

**Panel:** 2302330004B

**Need Desc:** Changes to hydraulic analysis

**Length:** 0.9 mi

**Anticipated BFE Change:** Increased By Greater Than 5 feet

**Location of Floodplain:**

**Need Notes:** Have added a dam on Sebasticook River.

**SPO Comments:** valid

EXISTING MNUSS ENTRIES FOR KENNEBEC COUNTY

**BENTON, TOWN OF**

**CID 230233** MNUSS Summary

**MNUSS NeedID** 100000000010194

**Date of Need:** 8/4/1997

**Sebasticook River**

**Panel:** 2302330004B

**Need Desc:** Changes to hydraulic analysis

**Length:** 0.9 mi

**Anticipated BFE Change:** Increased By Greater Than 5 feet

**Location of Floodplain:**

**Need Notes:** Have added a dam on Sebasticook River.

**SPO Comments:** valid

EXISTING MNUSS ENTRIES FOR KENNEBEC COUNTY  
**CHINA, TOWN OF**

**MNUSS NeedID** 100000000010240

**Need Desc:** Add LOMCs (per panel)

**Anticipated BFE Change:** Not Applicable

**Location of Floodplain:**

**Need Notes:**

**SPO Comments:** DFIRM will address

**CID 230235** MNUSS Summary

**Date of Need:** 11/11/1997

**Panel:** 2302350005B

**Length:** 0 mi

**MNUSS NeedID** 100000000010240

**Need Desc:** Add LOMCs (per panel)

**Anticipated BFE Change:** Not Applicable

**Location of Floodplain:**

**Need Notes:**

**SPO Comments:** DFIRM will address

**Date of Need:** 11/11/1997

**Panel:** 2302350010B

**Length:** 0 mi



EXISTING MNUSS ENTRIES FOR KENNEBEC COUNTY

## CHINA, TOWN OF

CID 230235 MNUSS Summary

**MNUSS NeedID** 100000000010373

**Date of Need:** 6/8/1999

**Panel:** 2302350005B

**Need Desc:** Annexation and corporate limits (per panel)

**Length:** 0 mi

**Anticipated BFE Change:** Not Applicable

**Location of Floodplain:**

**Need Notes:**

**SPO Comments:** DFIRM will address

**MNUSS NeedID** 100000000010373

**Date of Need:** 6/8/1999

**Panel:** 2302350010B

**Need Desc:** Annexation and corporate limits (per panel)

**Length:** 0 mi

**Anticipated BFE Change:** Not Applicable

**Location of Floodplain:**

**Need Notes:**

**SPO Comments:** DFIRM will address

EXISTING MNUSS ENTRIES FOR KENNEBEC COUNTY

## CHINA, TOWN OF

CID 230235 MNUSS Summary

**MNUSS NeedID** 100000000010373

**Date of Need:** 6/8/1999

**Panel:** 2302350015B

**Need Desc:** Annexation and corporate limits (per panel)

**Length:** 0 mi

**Anticipated BFE Change:** Not Applicable

**Location of Floodplain:**

**Need Notes:**

**SPO Comments:** DFIRM will address

**MNUSS NeedID** 100000000025857

**Date of Need:** 8/29/2001

**Panel:** 2300690004C

**Need Desc:** Add an ERM

**Length:** 0 mi

**Anticipated BFE Change:** Not Applicable

**Location of Floodplain:**

**Need Notes:** The elevation for RM 3 may or may not be correct. It is published at 60.91 NGVD, but Mr. Laughlin claims it is really 68.91 NGVD.

**SPO Comments:** valid

EXISTING MNUSS ENTRIES FOR KENNEBEC COUNTY

## MANCHESTER, TOWN OF

**MNUSS NeedID** 100000000010160

**Need Desc:** Add streets to panel

**Anticipated BFE Change:** Not Applicable

**Location of Floodplain:**

**Need Notes:**

**SPO Comments:** DFIRM will address

**CID 230239** MNUSS Summary

**Date of Need:** 8/4/1997

**Panel:** 2302390004B

**Length:** 0 mi

**MNUSS NeedID** 100000000010160

**Need Desc:** Add streets to panel

**Anticipated BFE Change:** Not Applicable

**Location of Floodplain:**

**Need Notes:**

**SPO Comments:** DFIRM will address

**Date of Need:** 8/4/1997

**Panel:** 2302390010B

**Length:** 0 mi

EXISTING MNUSS ENTRIES FOR KENNEBEC COUNTY

## MANCHESTER, TOWN OF

**MNUSS NeedID** 100000000010160

**Need Desc:** Add streets to panel

**Anticipated BFE Change:** Not Applicable

**Location of Floodplain:**

**Need Notes:**

**SPO Comments:** DFIRM will address

**CID 230239** MNUSS Summary

**Date of Need:** 8/4/1997

**Panel:** 2302390009B

**Length:** 0 mi

**MNUSS NeedID** 100000000010160

**Need Desc:** Add streets to panel

**Anticipated BFE Change:** Not Applicable

**Location of Floodplain:**

**Need Notes:**

**SPO Comments:** DFIRM will address

**Date of Need:** 8/4/1997

**Panel:** 2302390008B

**Length:** 0 mi

EXISTING MNUSS ENTRIES FOR KENNEBEC COUNTY  
**MANCHESTER, TOWN OF**

**MNUSS NeedID** 100000000010160

**Need Desc:** Add streets to panel

**Anticipated BFE Change:** Not Applicable

**Location of Floodplain:**

**Need Notes:**

**SPO Comments:** DFIRM will address

**CID 230239** MNUSS Summary

**Date of Need:** 8/4/1997

**Panel:** 2302390007B

**Length:** 0 mi

**MNUSS NeedID** 100000000010160

**Need Desc:** Add streets to panel

**Anticipated BFE Change:** Not Applicable

**Location of Floodplain:**

**Need Notes:**

**SPO Comments:** DFIRM will address

**Date of Need:** 8/4/1997

**Panel:** 2302390005B

**Length:** 0 mi

EXISTING MNUSS ENTRIES FOR KENNEBEC COUNTY  
**MANCHESTER, TOWN OF**

**MNUSS NeedID** 100000000010160

**Need Desc:** Add streets to panel

**Anticipated BFE Change:** Not Applicable

**Location of Floodplain:**

**Need Notes:**

**SPO Comments:** DFIRM will address

**CID 230239** MNUSS Summary

**Date of Need:** 8/4/1997

**Panel:** 2302390011B

**Length:** 0 mi

**MNUSS NeedID** 100000000010160

**Need Desc:** Add streets to panel

**Anticipated BFE Change:** Not Applicable

**Location of Floodplain:**

**Need Notes:**

**SPO Comments:** DFIRM will address

**Date of Need:** 8/4/1997

**Panel:** 2302390003B

**Length:** 0 mi

EXISTING MNUSS ENTRIES FOR KENNEBEC COUNTY  
**MANCHESTER, TOWN OF**

**MNUSS NeedID** 100000000010160

**Need Desc:** Add streets to panel

**Anticipated BFE Change:** Not Applicable

**Location of Floodplain:**

**Need Notes:**

**SPO Comments:** DFIRM will address

**CID 230239** MNUSS Summary

**Date of Need:** 8/4/1997

**Panel:** 2302390001B

**Length:** 0 mi

**MNUSS NeedID** 100000000010160

**Need Desc:** Add streets to panel

**Anticipated BFE Change:** Not Applicable

**Location of Floodplain:**

**Need Notes:**

**SPO Comments:** DFIRM will address

**Date of Need:** 8/4/1997

**Panel:** 2302390006B

**Length:** 0 mi

EXISTING MNUSS ENTRIES FOR KENNEBEC COUNTY

**MONMOUTH, TOWN OF**

**CID 230240** MNUSS Summary

**MNUSS NeedID** 100000000010292

**Date of Need:** 12/15/1997

**NUMEROUS ZONE A's**

**Panel:** 2302400010A

**Need Desc:** Changes to hydrologic conditions

**Length:** 19.6 mi

**Anticipated BFE Change:** Increased By Greater Than 5 feet

**Location of Floodplain:**

**Need Notes:** COMMUNITY REUESTS A RESTUDY TO INCLUDE FLOODWAYS

**SPO Comments:** any chg due to dam failure?

**MNUSS NeedID** 100000000010292

**Date of Need:** 12/15/1997

**NUMEROUS ZONE A's**

**Panel:** 2302400015A

**Need Desc:** Changes to hydrologic conditions

**Length:** 19.6 mi

**Anticipated BFE Change:** Increased By Greater Than 5 feet

**Location of Floodplain:**

**Need Notes:** COMMUNITY REUESTS A RESTUDY TO INCLUDE FLOODWAYS

**SPO Comments:** unsure



EXISTING MNUSS ENTRIES FOR KENNEBEC COUNTY

**MONMOUTH, TOWN OF**

**CID 230240** MNUSS Summary

**MNUSS NeedID** 100000000010292

**Date of Need:** 12/15/1997

**NUMEROUS ZONE A's**

**Panel:** 2302400015A

**Need Desc:** Changes to hydrologic conditions

**Length:** 19.6 mi

**Anticipated BFE Change:** Increased By Greater Than 5 feet

**Location of Floodplain:**

**Need Notes:** COMMUNITY REUESTS A RESTUDY TO INCLUDE FLOODWAYS

**SPO Comments:** unsure

**MNUSS NeedID** 100000000010292

**Date of Need:** 12/15/1997

**NUMEROUS ZONE A's**

**Panel:** 2302400010A

**Need Desc:** Changes to hydrologic conditions

**Length:** 19.6 mi

**Anticipated BFE Change:** Increased By Greater Than 5 feet

**Location of Floodplain:**

**Need Notes:** COMMUNITY REUESTS A RESTUDY TO INCLUDE FLOODWAYS

**SPO Comments:** unsure

EXISTING MNUSS ENTRIES FOR KENNEBEC COUNTY

**MONMOUTH, TOWN OF**

**CID 230240** MNUSS Summary

**MNUSS NeedID** 100000000010292

**Date of Need:** 12/15/1997

**NUMEROUS ZONE A's**

**Panel:** 2302400005A

**Need Desc:** Changes to hydrologic conditions

**Length:** 19.6 mi

**Anticipated BFE Change:** Increased By Greater Than 5 feet

**Location of Floodplain:**

**Need Notes:** COMMUNITY REUESTS A RESTUDY TO INCLUDE FLOODWAYS

**SPO Comments:** unsure

**MNUSS NeedID** 100000000010292

**Date of Need:** 12/15/1997

**NUMEROUS ZONE A's**

**Panel:** 2302400005A

**Need Desc:** Changes to hydrologic conditions

**Length:** 19.6 mi

**Anticipated BFE Change:** Increased By Greater Than 5 feet

**Location of Floodplain:**

**Need Notes:** COMMUNITY REUESTS A RESTUDY TO INCLUDE FLOODWAYS

**SPO Comments:** unsure

EXISTING MNUSS ENTRIES FOR KENNEBEC COUNTY

## MONMOUTH, TOWN OF

**MNUSS NeedID** 100000000010291

**Need Desc:** Add LOMCs (per panel)

**Anticipated BFE Change:** Not Applicable

**Location of Floodplain:**

**Need Notes:**

**SPO Comments:** DFIRM will address

**CID 230240** MNUSS Summary

**Date of Need:** 12/15/1997

**Panel:** 2302400015A

**Length:** 0 mi

**MNUSS NeedID** 100000000010291

**Need Desc:** Add LOMCs (per panel)

**Anticipated BFE Change:** Not Applicable

**Location of Floodplain:**

**Need Notes:**

**SPO Comments:** DFIRM will address

**Date of Need:** 12/15/1997

**Panel:** 2302400005A

**Length:** 0 mi

EXISTING MNUSS ENTRIES FOR KENNEBEC COUNTY  
**MONMOUTH, TOWN OF**

**MNUSS NeedID** 100000000010291

**Need Desc:** Add LOMCs (per panel)

**Anticipated BFE Change:** Not Applicable

**Location of Floodplain:**

**Need Notes:**

**SPO Comments:** DFIRM will address

**CID 230240** MNUSS Summary

**Date of Need:** 12/15/1997

**Panel:** 2302400010A

**Length:** 0 mi

EXISTING MNUSS ENTRIES FOR KENNEBEC COUNTY

**MT. VERNON, TOWN OF**

**CID 230241** MNUSS Summary

**MNUSS NeedID** 100000000010331

**Date of Need:** 12/22/1997

**ALL A-ZONES**

**Panel:** 2302410005B

**Need Desc:** Changes to hydraulic analysis

**Length:** 17 mi

**Anticipated BFE Change:** Increased By Greater Than 5 feet

**Location of Floodplain:**

**Need Notes:** TOWN WOULD LIKE TO HAVE BFE'S DETERMINED FOR ALL ZONE A FLOODING SOURCES.

**SPO Comments:** new FIS in 2001

**MNUSS NeedID** 100000000010331

**Date of Need:** 12/22/1997

**ALL A-ZONES**

**Panel:** 2302410005B

**Need Desc:** Changes to hydraulic analysis

**Length:** 17 mi

**Anticipated BFE Change:** Increased By Greater Than 5 feet

**Location of Floodplain:**

**Need Notes:** TOWN WOULD LIKE TO HAVE BFE'S DETERMINED FOR ALL ZONE A FLOODING SOURCES.

**SPO Comments:** new FIS in 2001

EXISTING MNUSS ENTRIES FOR KENNEBEC COUNTY

**MT. VERNON, TOWN OF**

**CID 230241** MNUSS Summary

**MNUSS NeedID** 100000000010331

**Date of Need:** 12/22/1997

**ALL A-ZONES**

**Panel:** 2302410025B

**Need Desc:** Changes to hydraulic analysis

**Length:** 17 mi

**Anticipated BFE Change:** Increased By Greater Than 5 feet

**Location of Floodplain:**

**Need Notes:** TOWN WOULD LIKE TO HAVE BFE'S DETERMINED FOR ALL ZONE A FLOODING SOURCES.

**SPO Comments:** new FIS in 2001

**MNUSS NeedID** 100000000010331

**Date of Need:** 12/22/1997

**ALL A-ZONES**

**Panel:** 2302410025B

**Need Desc:** Changes to hydraulic analysis

**Length:** 17 mi

**Anticipated BFE Change:** Increased By Greater Than 5 feet

**Location of Floodplain:**

**Need Notes:** TOWN WOULD LIKE TO HAVE BFE'S DETERMINED FOR ALL ZONE A FLOODING SOURCES.

**SPO Comments:** new FIS in 2001

EXISTING MNUSS ENTRIES FOR KENNEBEC COUNTY

**READFIELD, TOWN OF**

**CID 230245** MNUSS Summary

**MNUSS NeedID** 100000000010220

**Date of Need:** 11/6/1997

**Panel:** 2302450006B

**Length:** 0 mi

**Need Desc:** Add streets to panel

**Anticipated BFE Change:** Not Applicable

**Location of Floodplain:**

**Need Notes:** MARANACOOK MISLABELED IN THE MIDDLE OF THE PANEL

**SPO Comments:** DFIRM will address

**MNUSS NeedID** 100000000010220

**Date of Need:** 11/6/1997

**Panel:** 2302450006B

**Length:** 0 mi

**Need Desc:** Add streets to panel

**Anticipated BFE Change:** Not Applicable

**Location of Floodplain:**

**Need Notes:** MARANACOOK MISLABELED IN THE MIDDLE OF THE PANEL

**SPO Comments:** DFIRM will address

EXISTING MNUSS ENTRIES FOR KENNEBEC COUNTY

## READFIELD, TOWN OF

**MNUSS NeedID** 100000000010220

**Need Desc:** Add streets to panel

**Anticipated BFE Change:** Not Applicable

**Location of Floodplain:**

**Need Notes:** MARANACOOK MISLABELED IN THE MIDDLE OF THE PANEL

**SPO Comments:** DFIRM will address

**CID 230245** MNUSS Summary

**Date of Need:** 11/6/1997

**Panel:** 2302450006B

**Length:** 0 mi

**MNUSS NeedID** 100000000025734

**Need Desc:** Align map panels

**Anticipated BFE Change:** Not Applicable

**Location of Floodplain:**

**Need Notes:** Zone A mismatch with Mount Vernon near Belgrade Road.

**SPO Comments:** DFIRM will address

**Date of Need:** 8/23/2001

**Panel:** 2302460005B

**Length:** 0 mi



EXISTING MNUSS ENTRIES FOR KENNEBEC COUNTY

**VIENNA, TOWN OF**

**MNUSS NeedID** 100000000010370

**PARKER POND**

**Need Desc:** Changes to floodplain width

**CID 230249** MNUSS Summary

**Date of Need:** 3/18/1999

**Panel:** 2302490010C

**Length:** 1.57 mi

**Anticipated BFE Change:** Increased By Greater Than 5 feet

**Location of Floodplain:**

**Need Notes:**

**SPO Comments:** ?

EXISTING MNUSS ENTRIES FOR KENNEBEC COUNTY

**WATERVILLE, CITY OF**

**CID 230070** MNUSS Summary

**MNUSS NeedID** 100000000010207

**Date of Need:** 10/6/1997

**KENNEBEC RIVER**

**Panel:** 2300700003B

**Need Desc:** Changes to hydrologic conditions

**Length:** 6.8 mi

**Anticipated BFE Change:** Increased By Greater Than 5 feet

**Location of Floodplain:**

**Need Notes:**

**SPO Comments:** new FIS in 2001

**MNUSS NeedID** 100000000010207

**Date of Need:** 10/6/1997

**KENNEBEC RIVER**

**Panel:** 2300700005B

**Need Desc:** Changes to hydrologic conditions

**Length:** 6.8 mi

**Anticipated BFE Change:** Increased By Greater Than 5 feet

**Location of Floodplain:**

**Need Notes:**

**SPO Comments:** new FIS in 2001

EXISTING MNUSS ENTRIES FOR KENNEBEC COUNTY

**WATERVILLE, CITY OF**

**CID 230070** MNUSS Summary

**MNUSS NeedID** 100000000010207

**Date of Need:** 10/6/1997

**KENNEBEC RIVER**

**Panel:** 2300700006B

**Need Desc:** Changes to hydrologic conditions

**Length:** 6.8 mi

**Anticipated BFE Change:** Increased By Greater Than 5 feet

**Location of Floodplain:**

**Need Notes:**

**SPO Comments:** new FIS in 2001

**MNUSS NeedID** 100000000010207

**Date of Need:** 10/6/1997

**KENNEBEC RIVER**

**Panel:** 2300700008B

**Need Desc:** Changes to hydrologic conditions

**Length:** 6.8 mi

**Anticipated BFE Change:** Increased By Greater Than 5 feet

**Location of Floodplain:**

**Need Notes:**

**SPO Comments:** new FIS in 2001

EXISTING MNUSS ENTRIES FOR KENNEBEC COUNTY

## WATERVILLE, CITY OF

**MNUSS NeedID** 100000000010206

**Need Desc:** Add LOMCs (per panel)

**Anticipated BFE Change:** Not Applicable

**Location of Floodplain:**

**Need Notes:**

**SPO Comments:** new FIS in 2001

**CID 230070** MNUSS Summary

**Date of Need:** 10/6/1997

**Panel:** 2300700005B

**Length:** 0 mi

EXISTING MNUSS ENTRIES FOR KENNEBEC COUNTY

## WEST GARDINER, TOWN OF

**MNUSS NeedID** 100000000010212

**Need Desc:** Align map panels

**Anticipated BFE Change:** Not Applicable

**Location of Floodplain:**

**Need Notes:** UPDATE TO MAP INITIATIVES FORMAT

**SPO Comments:** DFIRM will address

**CID 230250** MNUSS Summary

**Date of Need:** 11/6/1997

**Panel:** 2302500009B

**Length:** 0 mi

**MNUSS NeedID** 100000000010212

**Need Desc:** Align map panels

**Anticipated BFE Change:** Not Applicable

**Location of Floodplain:**

**Need Notes:** UPDATE TO MAP INITIATIVES FORMAT

**SPO Comments:** DFIRM will address

**Date of Need:** 11/6/1997

**Panel:** 2302500007B

**Length:** 0 mi

EXISTING MNUSS ENTRIES FOR KENNEBEC COUNTY

## WEST GARDINER, TOWN OF

**MNUSS NeedID** 100000000010212

**Need Desc:** Align map panels

**Anticipated BFE Change:** Not Applicable

**Location of Floodplain:**

**Need Notes:** UPDATE TO MAP INITIATIVES FORMAT

**SPO Comments:** DFIRM will address

**CID 230250** MNUSS Summary

**Date of Need:** 11/6/1997

**Panel:** 2302500007B

**Length:** 0 mi

**MNUSS NeedID** 100000000010212

**Need Desc:** Align map panels

**Anticipated BFE Change:** Not Applicable

**Location of Floodplain:**

**Need Notes:** UPDATE TO MAP INITIATIVES FORMAT

**SPO Comments:** DFIRM will address

**Date of Need:** 11/6/1997

**Panel:** 2302500007B

**Length:** 0 mi

EXISTING MNUSS ENTRIES FOR KENNEBEC COUNTY

## WEST GARDINER, TOWN OF

**MNUSS NeedID** 100000000010212

**Need Desc:** Align map panels

**Anticipated BFE Change:** Not Applicable

**Location of Floodplain:**

**Need Notes:** UPDATE TO MAP INITIATIVES FORMAT

**SPO Comments:** DFIRM will address

**CID 230250** MNUSS Summary

**Date of Need:** 11/6/1997

**Panel:** 2302500008B

**Length:** 0 mi

**MNUSS NeedID** 100000000010212

**Need Desc:** Align map panels

**Anticipated BFE Change:** Not Applicable

**Location of Floodplain:**

**Need Notes:** UPDATE TO MAP INITIATIVES FORMAT

**SPO Comments:** DFIRM will address

**Date of Need:** 11/6/1997

**Panel:** 2302500008B

**Length:** 0 mi

EXISTING MNUSS ENTRIES FOR KENNEBEC COUNTY

## WEST GARDINER, TOWN OF

**MNUSS NeedID** 100000000010212

**Need Desc:** Align map panels

**Anticipated BFE Change:** Not Applicable

**Location of Floodplain:**

**Need Notes:** UPDATE TO MAP INITIATIVES FORMAT

**SPO Comments:** DFIRM will address

**CID 230250** MNUSS Summary

**Date of Need:** 11/6/1997

**Panel:** 2302500008B

**Length:** 0 mi

**MNUSS NeedID** 100000000010212

**Need Desc:** Align map panels

**Anticipated BFE Change:** Not Applicable

**Location of Floodplain:**

**Need Notes:** UPDATE TO MAP INITIATIVES FORMAT

**SPO Comments:** DFIRM will address

**Date of Need:** 11/6/1997

**Panel:** 2302500006B

**Length:** 0 mi



EXISTING MNUSS ENTRIES FOR KENNEBEC COUNTY

## WEST GARDINER, TOWN OF

**MNUSS NeedID** 100000000010212

**Need Desc:** Align map panels

**Anticipated BFE Change:** Not Applicable

**Location of Floodplain:**

**Need Notes:** UPDATE TO MAP INITIATIVES FORMAT

**SPO Comments:** DFIRM will address

**CID 230250** MNUSS Summary

**Date of Need:** 11/6/1997

**Panel:** 2302500009B

**Length:** 0 mi

**MNUSS NeedID** 100000000010212

**Need Desc:** Align map panels

**Anticipated BFE Change:** Not Applicable

**Location of Floodplain:**

**Need Notes:** UPDATE TO MAP INITIATIVES FORMAT

**SPO Comments:** DFIRM will address

**Date of Need:** 11/6/1997

**Panel:** 2302500005B

**Length:** 0 mi

EXISTING MNUSS ENTRIES FOR KENNEBEC COUNTY

## WEST GARDINER, TOWN OF

**MNUSS NeedID** 100000000010212

**Need Desc:** Align map panels

**Anticipated BFE Change:** Not Applicable

**Location of Floodplain:**

**Need Notes:** UPDATE TO MAP INITIATIVES FORMAT

**SPO Comments:** DFIRM will address

**CID 230250** MNUSS Summary

**Date of Need:** 11/6/1997

**Panel:** 2302500010B

**Length:** 0 mi

**MNUSS NeedID** 100000000010212

**Need Desc:** Align map panels

**Anticipated BFE Change:** Not Applicable

**Location of Floodplain:**

**Need Notes:** UPDATE TO MAP INITIATIVES FORMAT

**SPO Comments:** DFIRM will address

**Date of Need:** 11/6/1997

**Panel:** 2302500010B

**Length:** 0 mi

EXISTING MNUSS ENTRIES FOR KENNEBEC COUNTY

## WEST GARDINER, TOWN OF

CID 230250 MNUSS Summary

**MNUSS NeedID** 100000000010212

**Date of Need:** 11/6/1997

**Panel:** 2302500010B

**Length:** 0 mi

**Need Desc:** Align map panels

**Anticipated BFE Change:** Not Applicable

**Location of Floodplain:**

**Need Notes:** UPDATE TO MAP INITIATIVES FORMAT

**SPO Comments:** DFIRM will address

**MNUSS NeedID** 100000000010213

**Date of Need:** 11/6/1997

**Panel:** 2302500002B

**Length:** 0 mi

**Need Desc:** Annexation and corporate limits (per panel)

**Anticipated BFE Change:** Not Applicable

**Location of Floodplain:**

**Need Notes:**

**SPO Comments:** DFIRM will address

EXISTING MNUSS ENTRIES FOR KENNEBEC COUNTY

## WEST GARDINER, TOWN OF

**MNUSS NeedID** 100000000010212

**Need Desc:** Align map panels

**Anticipated BFE Change:** Not Applicable

**Location of Floodplain:**

**Need Notes:** UPDATE TO MAP INITIATIVES FORMAT

**SPO Comments:** DFIRM will address

**CID 230250** MNUSS Summary

**Date of Need:** 11/6/1997

**Panel:** 2302500009B

**Length:** 0 mi

**MNUSS NeedID** 100000000010212

**Need Desc:** Align map panels

**Anticipated BFE Change:** Not Applicable

**Location of Floodplain:**

**Need Notes:** UPDATE TO MAP INITIATIVES FORMAT

**SPO Comments:** DFIRM will address

**Date of Need:** 11/6/1997

**Panel:** 2302500006B

**Length:** 0 mi

EXISTING MNUSS ENTRIES FOR KENNEBEC COUNTY

## WEST GARDINER, TOWN OF

**MNUSS NeedID** 100000000010212

**Need Desc:** Align map panels

**Anticipated BFE Change:** Not Applicable

**Location of Floodplain:**

**Need Notes:** UPDATE TO MAP INITIATIVES FORMAT

**SPO Comments:** DFIRM will address

**CID 230250** MNUSS Summary

**Date of Need:** 11/6/1997

**Panel:** 2302500005B

**Length:** 0 mi

**MNUSS NeedID** 100000000010212

**Need Desc:** Align map panels

**Anticipated BFE Change:** Not Applicable

**Location of Floodplain:**

**Need Notes:** UPDATE TO MAP INITIATIVES FORMAT

**SPO Comments:** DFIRM will address

**Date of Need:** 11/6/1997

**Panel:** 2302500005B

**Length:** 0 mi

EXISTING MNUSS ENTRIES FOR KENNEBEC COUNTY

## WEST GARDINER, TOWN OF

**MNUSS NeedID** 100000000010212

**Need Desc:** Align map panels

**Anticipated BFE Change:** Not Applicable

**Location of Floodplain:**

**Need Notes:** UPDATE TO MAP INITIATIVES FORMAT

**SPO Comments:** DFIRM will address

**CID 230250** MNUSS Summary

**Date of Need:** 11/6/1997

**Panel:** 2302500003B

**Length:** 0 mi

**MNUSS NeedID** 100000000010212

**Need Desc:** Align map panels

**Anticipated BFE Change:** Not Applicable

**Location of Floodplain:**

**Need Notes:** UPDATE TO MAP INITIATIVES FORMAT

**SPO Comments:** DFIRM will address

**Date of Need:** 11/6/1997

**Panel:** 2302500003B

**Length:** 0 mi

EXISTING MNUSS ENTRIES FOR KENNEBEC COUNTY

## WEST GARDINER, TOWN OF

**MNUSS NeedID** 100000000010212

**Need Desc:** Align map panels

**Anticipated BFE Change:** Not Applicable

**Location of Floodplain:**

**Need Notes:** UPDATE TO MAP INITIATIVES FORMAT

**SPO Comments:** DFIRM will address

**CID 230250** MNUSS Summary

**Date of Need:** 11/6/1997

**Panel:** 2302500003B

**Length:** 0 mi

**MNUSS NeedID** 100000000010212

**Need Desc:** Align map panels

**Anticipated BFE Change:** Not Applicable

**Location of Floodplain:**

**Need Notes:** UPDATE TO MAP INITIATIVES FORMAT

**SPO Comments:** DFIRM will address

**Date of Need:** 11/6/1997

**Panel:** 2302500002B

**Length:** 0 mi

EXISTING MNUSS ENTRIES FOR KENNEBEC COUNTY

## WEST GARDINER, TOWN OF

**MNUSS NeedID** 100000000010212

**Need Desc:** Align map panels

**Anticipated BFE Change:** Not Applicable

**Location of Floodplain:**

**Need Notes:** UPDATE TO MAP INITIATIVES FORMAT

**SPO Comments:** DFIRM will address

**CID 230250** MNUSS Summary

**Date of Need:** 11/6/1997

**Panel:** 2302500002B

**Length:** 0 mi

**MNUSS NeedID** 100000000010212

**Need Desc:** Align map panels

**Anticipated BFE Change:** Not Applicable

**Location of Floodplain:**

**Need Notes:** UPDATE TO MAP INITIATIVES FORMAT

**SPO Comments:** DFIRM will address

**Date of Need:** 11/6/1997

**Panel:** 2302500002B

**Length:** 0 mi



EXISTING MNUSS ENTRIES FOR KENNEBEC COUNTY

## WEST GARDINER, TOWN OF

CID 230250 MNUSS Summary

**MNUSS NeedID** 100000000010212

**Date of Need:** 11/6/1997

**Panel:** 2302500001B

**Length:** 0 mi

**Need Desc:** Align map panels

**Anticipated BFE Change:** Not Applicable

**Location of Floodplain:**

**Need Notes:** UPDATE TO MAP INITIATIVES FORMAT

**SPO Comments:** DFIRM will address

**MNUSS NeedID** 100000000010212

**Date of Need:** 11/6/1997

**Panel:** 2302500001B

**Length:** 0 mi

**Need Desc:** Align map panels

**Anticipated BFE Change:** Not Applicable

**Location of Floodplain:**

**Need Notes:** UPDATE TO MAP INITIATIVES FORMAT

**SPO Comments:** DFIRM will address

EXISTING MNUSS ENTRIES FOR KENNEBEC COUNTY

## WEST GARDINER, TOWN OF

CID 230250 MNUSS Summary

**MNUSS NeedID** 100000000010212

**Date of Need:** 11/6/1997

**Panel:** 2302500001B

**Length:** 0 mi

**Need Desc:** Align map panels

**Anticipated BFE Change:** Not Applicable

**Location of Floodplain:**

**Need Notes:** UPDATE TO MAP INITIATIVES FORMAT

**SPO Comments:** DFIRM will address

**MNUSS NeedID** 100000000010211

**Date of Need:** 11/6/1997

**Panel:** 2302500005B

**Length:** 0 mi

**Need Desc:** Add streets to panel

**Anticipated BFE Change:** Not Applicable

**Location of Floodplain:**

**Need Notes:**

**SPO Comments:** DFIRM will address

EXISTING MNUSS ENTRIES FOR KENNEBEC COUNTY

## WEST GARDINER, TOWN OF

**MNUSS NeedID** 100000000010211

**Need Desc:** Add streets to panel

**Anticipated BFE Change:** Not Applicable

**Location of Floodplain:**

**Need Notes:**

**SPO Comments:** DFIRM will address

**CID** 230250      MNUSS Summary

**Date of Need:** 11/6/1997

**Panel:** 23025000002B

**Length:** 0      mi

**MNUSS NeedID** 100000000010212

**Need Desc:** Align map panels

**Anticipated BFE Change:** Not Applicable

**Location of Floodplain:**

**Need Notes:** UPDATE TO MAP INITIATIVES FORMAT

**SPO Comments:** DFIRM will address

**Date of Need:** 11/6/1997

**Panel:** 23025000006B

**Length:** 0      mi

## Appendix E: Attachments



STATE OF MAINE  
EXECUTIVE DEPARTMENT  
MAINE STATE PLANNING OFFICE  
38 STATE HOUSE STATION  
AUGUSTA, ME 04333



FEMA

Bruce Keller, City Planner  
City of Augusta  
16 Cony Street  
Augusta, Maine 04330

October 25, 2005

Subject: **IMPORTANT MEETING** – Flood Map Update – Scoping & Data Collection for Kennebec County

Dear Sir/Madam:

As part of their Flood Map Modernization initiative, the Maine Floodplain Management Program and the Federal Emergency Management Agency (FEMA) will be updating the Flood Insurance Rate Maps (FIRMs) for Kennebec County communities and will be producing a county-wide digital FIRM (DFIRM). In an effort to share information on the flood map update process and provide an opportunity for local input, we would like to meet collectively with the local officials involved in floodplain management from the Kennebec County communities (i.e., code enforcement officers/planners/planning board member/GIS staff). We hope for active participation at the meetings, which will help us establish the scope of the mapping project for Kennebec County. Toward that effort, we have mailed this letter to code enforcement officers as well as chief elected officials. Your community's input is very important if you wish to contribute to improving the flood maps. If you choose not to provide input, a new map will still be generated but may or may not reflect changes you would have liked. To accommodate local officials' schedules, both an afternoon and evening meeting have been scheduled. Please use the FAX-back form to confirm attendance at one of the meetings.

**Kennebec County: Office of USGS, 196 Whitten Rd., Augusta, Monday, Nov. 7<sup>th</sup>, 1-3 p.m.**

**Kennebec County: Office of KVCOG, 17 Main St., Fairfield, Monday, Nov. 7<sup>th</sup>, 6-8 p.m.**

The State of Maine Floodplain Management Program, the US Geological Survey (USGS) and FEMA or its representative will conduct the Scoping Meetings. The purpose of the meetings is to:

Inform the communities of the nature and the intent of the flood map update process and new digital product,

Make introductions and establish points of contact between the communities, the State of Maine Floodplain Management Program, USGS, and FEMA,

Break into small groups and solicit community input regarding community concerns with the current mapping of the special flood hazard areas (i.e., areas where there is a need for flood elevation data, areas that never flood but are currently mapped in the floodplain and vice versa),

[Note: the majority of current problems with the base map, such as lack of roads and labelling errors, will be resolved due to use of new aerial photo and digital base map, as explained below]

Identify and prioritize problem areas on current maps (copies will be supplied),

Discuss and record the availability of any community specific data, such as:

- digital orthophotography and (or) topographic mapping data undertaken by the community,
- local flood hazard studies undertaken by the developers, property owners or the community for permitting purposes as required in the local floodplain ordinance OR for the purposes of obtaining a Letter of Map Amendment/Letter of Map Revision from FEMA, any of which provides flood elevation data,
- verified historical data from past flooding events such as surveyed high water marks, photos taken at the time of high water, or post-disaster documents,
- any community plans for, or interest in, acquiring or contributing to new data

Discuss any changes that have been made to hard structures (culverts, bridges, dams, etc.) within the community that may affect water flow/flooding, or any proposed large developments in the floodplain,

The updated Flood Insurance Rate Maps (FIRMs) will be in a county-wide inclusive format (with many panels), and will be produced in a digital format, known as a DFIRM. The DFIRM will also include an extensive GIS database, and the digital floodplain boundaries will be depicted on an aerial photo base map. The truly digital product will be able to be overlaid on existing GIS base maps of the community/county (i.e. tax map, shoreland zoning map, infrastructure or other GIS based maps), which will improve the use of flood hazard data at the local and regional level. Also, using the new flood map in either paper form or with GIS, will definitely allow for easier and faster flood map determinations.

It is very important that a representative(s) of your community attend one of the Scoping Meetings (the lead floodplain management person - usually the code enforcement officer, the planner/planning board chair, GIS staff, public works director and (or) other involved elected official). It is also important that information regarding the time and place of the Scoping Meeting be disseminated so that anyone who could provide engineering, topographic or mapping data, and is interested in the mapping results, can attend.

To prepare for the Scoping Meeting, we would like for your community to identify flood mapping issues that you would like to be considered for (re)study or review. It would be helpful to have the flooding issues prioritized and be prepared to precisely locate the areas of concern on the flood maps at the meeting. In addition, it would also be very beneficial to bring a brief narrative describing the reasons for the requested (re)studies or reviews. This information will help facilitate the meeting and assist us in finalizing the scope of work. This information may also be sent to the lead scoping agency working in collaboration with the Maine Floodplain Management Program and FEMA: USGS, 196 Whitten Road, Augusta, ME 04330.

Attached with this letter please find a **FAX-back sign-up form** and maps for the meeting locations. Please submit the FAX-back form by **November 3, 2005** so that we can plan accordingly. Your prompt attention to this matter is appreciated, and will help ensure that an accurate and efficient project scope for the flood hazard mapping update for Kennebec County is developed. If you have any questions regarding the Scoping Meetings or desire additional information, please feel free to contact Bonnie at the State Planning Office at 287-8052 or Rob Dudley, from USGS, at 622-8201 ext 115.

Bonnie Cowle, CFM  
Maine Map Modernization Project Coordinator

G. Fred Vanderschmidt IV, CFM  
FEMA Region I

Maine Floodplain Management Program

FEMA Map Mod Scoping Meeting Agenda: Kennebec County, Maine

Rob Dudley, P.E.

USGS Maine Water Science Center

<b>Meeting 1: Date/Time: 11/7/05, 1-3 P.M.</b>	
<b>Meeting 2: Date/Time: 11/7/05, 6-8 P.M.</b>	
<b>Location of Meetings:</b>	
<b>Meeting1: USGS Office, Augusta</b>	
<b>Meeting 2: KVCOG Office, Fairfield</b>	
<b>Agenda Items</b>	<b>Estimated Time</b>
1. Welcome and Introductions – Bonnie Cowle – State Planning Office	5 minutes
2. Overview of Scoping Meeting Agenda	5 minutes
3. Map Modernization Overview	
Stuart Rooney – FEMA Representative from Watershed Concepts	5 minutes
Bonnie Cowle – SPO, Maine Floodplain Management Program	5 minutes
4. Flood Mapping Schedule and Process	5 minutes
Bonnie Cowle – Schedule	
Rob Dudley – Process – USGS, FEMA's Scoping and Mapping Contractor	
5. Map Details – Rob and Bonnie	10 minutes
Discussion of specific DFIRM issues: <ul style="list-style-type: none"> <li>Map data layers</li> <li>Various levels of map detail</li> <li>New appearance of DFIRM <ul style="list-style-type: none"> <li>MEGIS orthophoto quad</li> <li>Scale and paneling scheme</li> <li>Map adoption</li> </ul> </li> <li>What we need from you</li> </ul>	
6. Breakout Sessions to Identify Community Mapping Needs	60-90 minutes
In small working groups with assigned leader: <ul style="list-style-type: none"> <li>Review and comment on USGS/SPO data sheet for your community</li> <li>With input from leader complete the community interview form <ul style="list-style-type: none"> <li>Discuss mapping update needs for each community</li> <li>Provide rationales for each update needed</li> </ul> </li> <li>On flood maps, highlight specific areas of need and indicate priorities</li> </ul>	
7. Turn in Forms & Maps	
Speakers will be available for any final questions	

**Kennebec County Community Interview Form  
FEMA Map Modernization Program  
November 7, 2005**

Community: \_\_\_\_\_ Effective FIS/FIRM Date: \_\_\_\_\_

CID#: 230 \_\_\_\_ GOVT: ☐ Town OR ☐ Council

If Town Government, Date of Annual Town Meeting: \_\_\_\_\_

Community Representative(s) attending meeting:

Name(s): \_\_\_\_\_

Title(s): \_\_\_\_\_

Tel: \_\_\_\_\_ Email(s): \_\_\_\_\_

Fax: \_\_\_\_\_

Floodplain Mgt Community Contact (and contact info if different from above): \_\_\_\_\_

**Known problems with flood maps for your community (note FIRM panel numbers)**

(Note: Most base-map issues such as street names, roads, corporate boundaries, and spatial issues will be fixed when new digital FIRMS are produced) PLEASE PROVIDE ADDITIONAL INFORMATION FOR ANY **YES** ANSWERS BELOW

Do you have specific areas that don't flood (1% chance) but are currently in the floodplain? ☐ Yes ☐ No

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Do you have specific areas that flood (1% chance) but are not mapped in the floodplain or not mapped at all?

☐ Yes ☐ No

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Have any changes in hydraulic structures (bridges, culverts, dams) taken place that would change the maps?

☐ Yes ☐ No

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Do you currently have (or are you proposing) high-development areas where you need new or restudied flood elevations or improved map scale? ☐ Yes ☐ No

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**Community resources:**

Do you have aerial photography or plans for any (flight date, scale, color/black & white)? ☐ Yes ☐ No

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Do you have topographic data or plans for collecting any (digital terrain, contour maps)? ☐ Yes ☐ No

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Do you have any other data like special hydrologic/hydraulic studies (or plans for studies)? ☐ Yes ☐ No

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Do you have dedicated GIS capabilities? ☐ Yes ☐ No (Provide GIS contact info if different from front page)

**Interviewer: Review MNUSS entries and BAD with community rep.**

☐ Done and all OK, or  
☐ Done and see notes

NOTES: \_\_\_\_\_