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Scoping of Flood Hazard Mapping Needs for Penobscot County, Maine

By Charles W. Schalk and Robert W. Dudley

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Contents

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^2)	0.09290	square meter (m^2)
square mile (mi^2)	2.590	square kilometer (km^2)
Volume		
cubic foot (ft^3)	0.02832	cubic meter (m^3)
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^3/s)	0.02832	cubic meter per second (m^3/s)

OTHER ABBREVIATIONS USED IN REPORT

BAD	Best Available Data
BFE	Base Flood Elevation
CAC	Community Assistance Contact
CAV	Community Assistance Visit
DFIRM	Digital Flood Insurance Rate Map
FEMA	Federal Emergency Management Agency
FHBM	Flood Hazard Boundary Map
FIRM	Flood Insurance Rate Map
FIS	Flood Insurance Study
GIS	Geographic Information System
LOMC	Letter of Map Change
MEGIS	Maine Office of Geographic Information Systems
MFMP	Maine Floodplain Management Program
MNUSS	Mapping Needs Update Support System
NFIP	National Flood Insurance Program
USGS	United States Geological Survey

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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 Flood Insurance Study revision in Penobscot County, Maine, under Federal Emergency Management Agency (FEMA) Inter-Agency Agreement Number HSFE01-06-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 (MFMP), began scoping work in 2006 for Penobscot County. Scoping activities included assembling existing data and map needs information for communities in Penobscot County, 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 with information gathered during the scoping process.

As of 2007, the average age of the FEMA floodplain maps in Penobscot County, Maine, is 22 years, based on the most recent revisions to the maps. Because the revisions did not affect all the map panels in each town, however, the true average date probably is more than 22 years. Many of the studies were published in the mid-1980s. Since the studies were completed, 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 or flood mapping.

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 MFMP database also will be utilized.

Task 2: Contact communities in Penobscot 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 changes 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 Penobscot County. The draft project scope will summarize available information, evaluate effective FIS data in the new project, and identify other data needed to complete the project. The draft project scope will establish prioritized mapping needs according to census and waterbody criteria 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 59 communities in Penobscot County that have flood insurance rate maps (FIRMs), flood hazard boundary maps (FHBMs), and(or) flood insurance studies (FISs) (table 1). Hopkins Academy Grant formerly was divided into East (230836 CID) and West (CID 230837) Townships having separate community identification numbers (CID). The towns of Carmel, Charleston, Exeter, Lagrange, Newburgh (suspended), Springfield, and Woodville are not in the flood insurance program.

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

[CID, Community identification number; FIRM, flood insurance rate map; FHBM, flood hazard boundary map; NSFHA, no specific flood hazard; *, community has a published flood insurance study; --, not applicable]

Community	CID	Land area, in square miles	Population (year 2000)	Population density, 2000, in people per square mile	Map type	Map date
Alton	230101	42.5	816	19.2	FIRM	9/18/1985
Argyle Township	230464	28.8	--	--	FIRM	9/18/1985
Bangor	230102	34.2	31,473	919	FIRM	3/4/2002*
Bradford	230373	41.2	1,186	28.8	FIRM	7/4/1978
Bradley	230103	50.6	1,242	24.5	FIRM	5/1/1978*
Brewer	230104	15.2	8,987	590	FIRM	6/1/1978*
Burlington	230374	56.2	351	6.24	FHBM	2/7/1975
Carmel	230375	36.9	2,416	65.5	FHBM	2/28/1975
Carroll Plantation	230461	44.1	--	--	FIRM	8/19/1985
Charleston	230376	40.5	1,397	34.5	FHBM	2/21/1975
Chester	230377	47.4	525	11.1	FIRM	2/4/1987
Clifton	230378	35.9	743	20.7	FIRM	5/2/1994*
Corinna	230397	39.4	2,145	54.4	FIRM	9/18/1985
Corinth	230380	40.2	2,511	62.4	FIRM	7/1/1991
Dexter	230105	37.1	3,890	104	FIRM	7/16/1990*
Dixmont	230381	36.4	1,065	29.3	FIRM	2/4/1987
Drew Plantation	230479	39.1	--	--	NSFHA	--
East Millinocket	230163	7.92	1,828	231	FIRM	2/4/1987
Eddington	230382	26.5	2,052	77.4	FIRM	7/3/1978*
Edinburg	230383	36.3	98	2.70	NSFHA	--
Enfield	230384	33.8	1,616	47.8	FIRM	5/15/1991*
Etna	230385	25.0	1,012	40.6	FHBM	1/17/1975
Exeter	230386	38.6	997	25.9	FHBM	2/21/1975
Garland	230387	37.9	990	26.1	FIRM	9/18/1985
Glenburn	230106	29.1	3,964	136	FIRM	8/16/1993*
Grand Falls Plantation	230608	39.7	--	--	NSFHA	--
Greenbush	230107	47.0	1,421	30.2	FIRM	9/4/1987*
Greenfield	230388	37.7	--	--	FHBM	2/21/1975
Grindstone Township, T1 R7 WELS	230612	37.9	--	--	NSFHA	--
Hampden	230168	38.1	6,327	166	FIRM	9/4/1987*
Hermon	230389	36.8	4,437	121	FIRM	9/27/1985
Herseytown Township, T2 R6 WELS	230613	41.3	--	--	NSFHA	--
Holden	230390	32.5	2,827	87.0	FIRM	7/3/1995*
Hopkins Academy Grant	230836	23.2	--	--	NSFHA	--
Howland	230391	36.4	1,362	37.4	FIRM	5/20/1996*
Hudson	230392	40.0	1,393	34.8	FIRM	4/17/1987*
Indian Island	230919	2.81	--	--	FIRM	1/04/2002
Indian Purchase 3 Township	230614	31.9	--	--	NSFHA	--
Indian Purchase 4 Township	230615	43.3	--	--	NSFHA	--
Kenduskeag	230108	16.7	1,171	70.0	FIRM	9/18/1985

Kingman Township	230474	25.3	--	--	FIRM	1/17/1985
Lagrange	230393	49.5	747	15.1	FHBM	2/28/1975
Lakeville	230609	65.7	63	0.96	NSFHA	--
Lee	230394	39.7	845	21.3	FIRM	9/18/1985
Levant	230912	30.1	2,171	72.3	FIRM	7/1/1991
Lincoln	230109	76.1	5,221	68.6	FIRM	9/18/1987*
Long A Township, TA R8 & R9 WELS	230616	37.7	--	--	NSFHA	--
Lowell	230395	40.2	291	7.24	FHBM	2/21/1975
Mattamiscontis Township, T1 R7 NWP	230617	15.1	--	--	NSFHA	--
Mattawamkeag	230174	38.4	825	21.5	FIRM	5/4/1988*
Maxfield	230396	19.2	87	4.53	FIRM	11/15/1985
Medway	230175	43.4	1,489	34.3	FIRM	9/30/1987*
Milford	230110	46.1	2,950	64.0	FIRM	4/17/1978*
Millinocket	230111	18.2	5,203	286	FIRM	12/5/1989*
Mount Chase Town	230462	37.7	247	6.55	FIRM	9/18/1985
Newburgh	230379	31.0	1,394	45.0	FIRM	12/4/1985
Newport	230398	36.9	3,017	81.7	FIRM	9/18/1985
Old Town	230112	44.8	8,130	181	FIRM	4/17/1978*
Orono	230113	19.6	9,112	465	FIRM	7/3/1978*
Orrington	230180	26.4	3,526	134	FIRM	7/17/2002*
Passadumkeag	230114	23.9	441	18.5	FIRM	5/17/1988*
Patten	230115	38.2	1,111	29.1	FIRM	9/18/1985
Plymouth	230399	31.0	562	18.1	FIRM	7/1/1991
Prentiss Plantation	230463	38.2	214	5.60	FIRM	8/19/1985
Seboeis Plantation	230610	41.8	--	--	NSFHA	--
Soldiertown Township, T2 R7 WELS	230618	42.2	--	--	NSFHA	--
Springfield	230400	38.5	1,257	32.7	FHBM	1/24/1975
Stacyville	230401	39.5	379	9.59	FIRM	9/18/1985
Stetson	230402	36.6	405	11.1	FIRM	8/19/1991*
Summit Township, T01 ND	230838	38.2	--	--	NSFHA	--
T01 R06 WELS	230620	39.7	--	--	NSFHA	--
T01 R08 WELS	230840	28.9	--	--	NSFHA	--
T02 R08 NWP	230621	30.0	--	--	NSFHA	--
T02 R08 WELS	230622	41.4	--	--	NSFHA	--
T02 R09 NWP	230623	56.9	--	--	NSFHA	--
T03 R01 NBPP	230841	45.2	--	--	NSFHA	--
T03 R07 WELS	230624	40.7	--	--	NSFHA	--
T03 R08 WELS	230625	38.7	--	--	NSFHA	--
T03 R09 NWP	230842	58.3	--	--	NSFHA	--
T04 R07 WELS	230626	40.4	--	--	NSFHA	--
T04 R08 WELS	230843	38.4	--	--	NSFHA	--
T05 R01 NBPP	230844	18.1	--	--	NSFHA	--
T05 R07 WELS	230845	38.7	--	--	NSFHA	--
T05 R08 WELS	230627	38.6	--	--	NSFHA	--
T06 R06 WELS	230628	34.5	--	--	NSFHA	--
T06 R07 WELS	230629	35.6	--	--	NSFHA	--

T06 R08 WELS		230630	37.8	--	--	NSFHA	--
T07 R06 WELS		230846	37.3	--	--	NSFHA	--
T07 R07 WELS		230847	37.1	--	--	NSFHA	--
T07 R08 WELS		230848	37.6	--	--	NSFHA	--
T08 R06 WELS		230849	37.9	--	--	NSFHA	--
T08 R07 WELS		230850	37.1	--	--	NSFHA	--
T08 R08 WELS		230851	37.4	--	--	NSFHA	--
TA R07 WELS		230619	20.6	--	--	NSFHA	--
Veazie Gore Township		230839	1.88	--	--	NSFHA	--
Veazie		230403	3.13	1,744	557	FIRM	5/1/1978*
Webster Plantation		230611	36.7	--	--	NSFHA	--
Winn		230404	44.5	420	9.44	FHBM	1/24/1975
Woodville		230405	43.2	286	6.62	--	--
	Total	--	3,552	144,919	40.8 (average)	--	--

Description of Penobscot County

Penobscot County in eastern Maine (fig. 1) encompasses an area of 3,552 square miles (mi^2) and comprises 100 municipalities (plantations, townships, towns, and cities) (table 1, fig. 1). The total population in Penobscot County reported by the 2000 census was approximately 144,920 people. The population for the 2000 census represents a 1-percent decrease from the population reported in the 1990 census (146,600 people) and a 6-percent increase over the population reported in the 1980 census (137,020 people) (University of Maine, 2004).

Penobscot County contains or borders 3,605 mapped ponds and lakes ranging in surface area from less than 0.1 acre to 7,750 acres (12.1 mi^2) for a total surface area of 90,300 acres (141 mi^2) (from GIS analysis). The mean pond size is 25 acres; Millinocket Lake, in the townships of T1 R8 WELS and T2 R8 WELS, is the largest body of water. Floods Pond (Bangor), Hatcase Pond (Brewer), Lake Wassookeag (Dexter), Ferguson Pond (Aqua Maine, Inc., Millinocket), and Nokomis Pond (Newport) serve as sources of municipal water to about 64,000 people in Penobscot County (Maine Department of Health and Human Services, 2006; City of Bangor, 2006; City of Brewer, 2006; Town of Dexter, 2006; Aqua Maine, Inc., 2006; Town of Newport, 2006).

Penobscot County includes approximately 5,180 mi of rivers and streams, the most important of which include Penobscot, East Branch Penobscot, Mattawamkeag, Passadumkeag, Piscataquis, and Seboeis Rivers and Kenduskeag, Souadabscook, Pushaw, and Millinocket Streams. Penobscot River is the largest river in Maine and Penobscot County; its drainage area near Eddington (USGS station 01036390) is more than 7,500 mi^2.

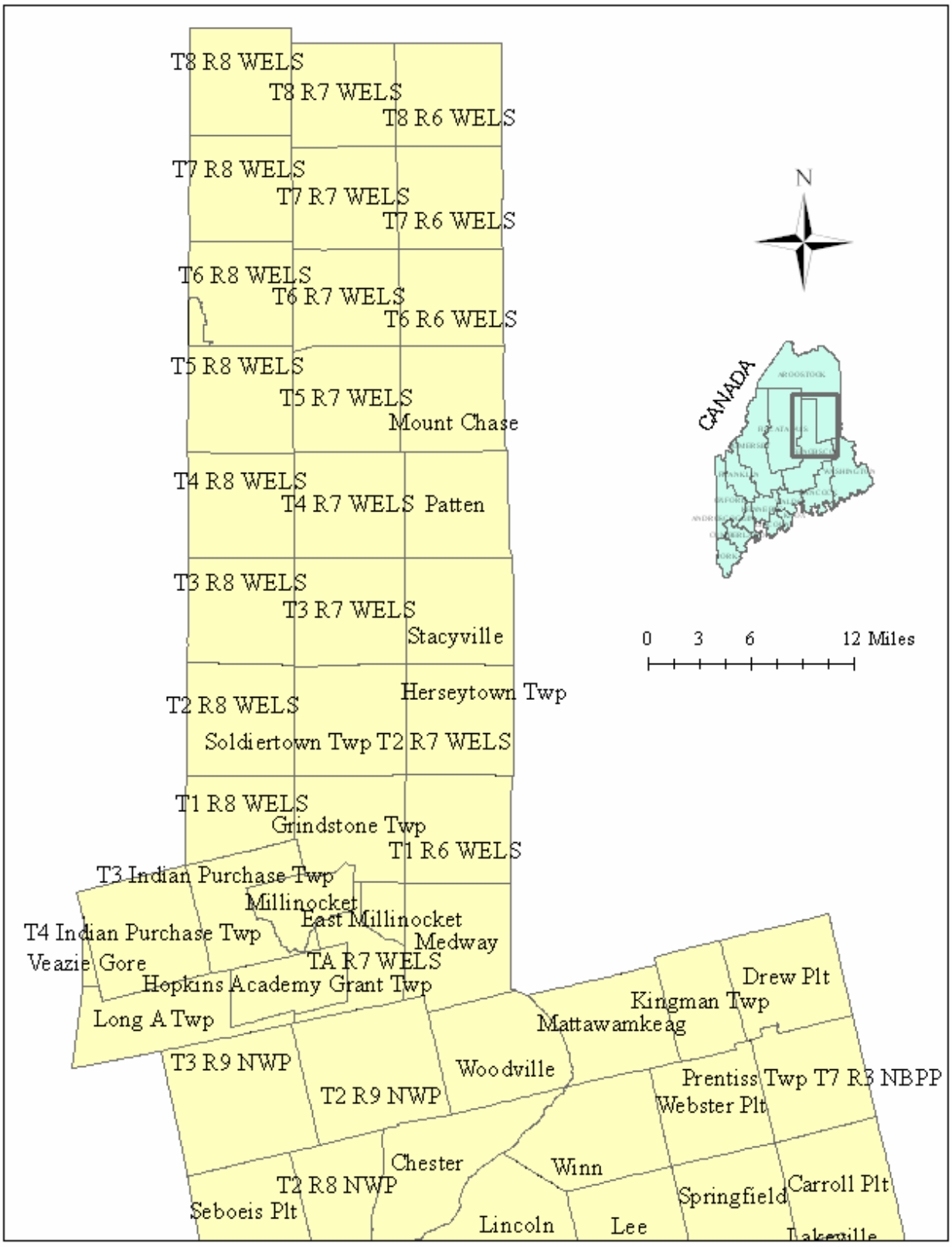

Figure 1. Communities in Penobscot County, Maine: (a) northern.

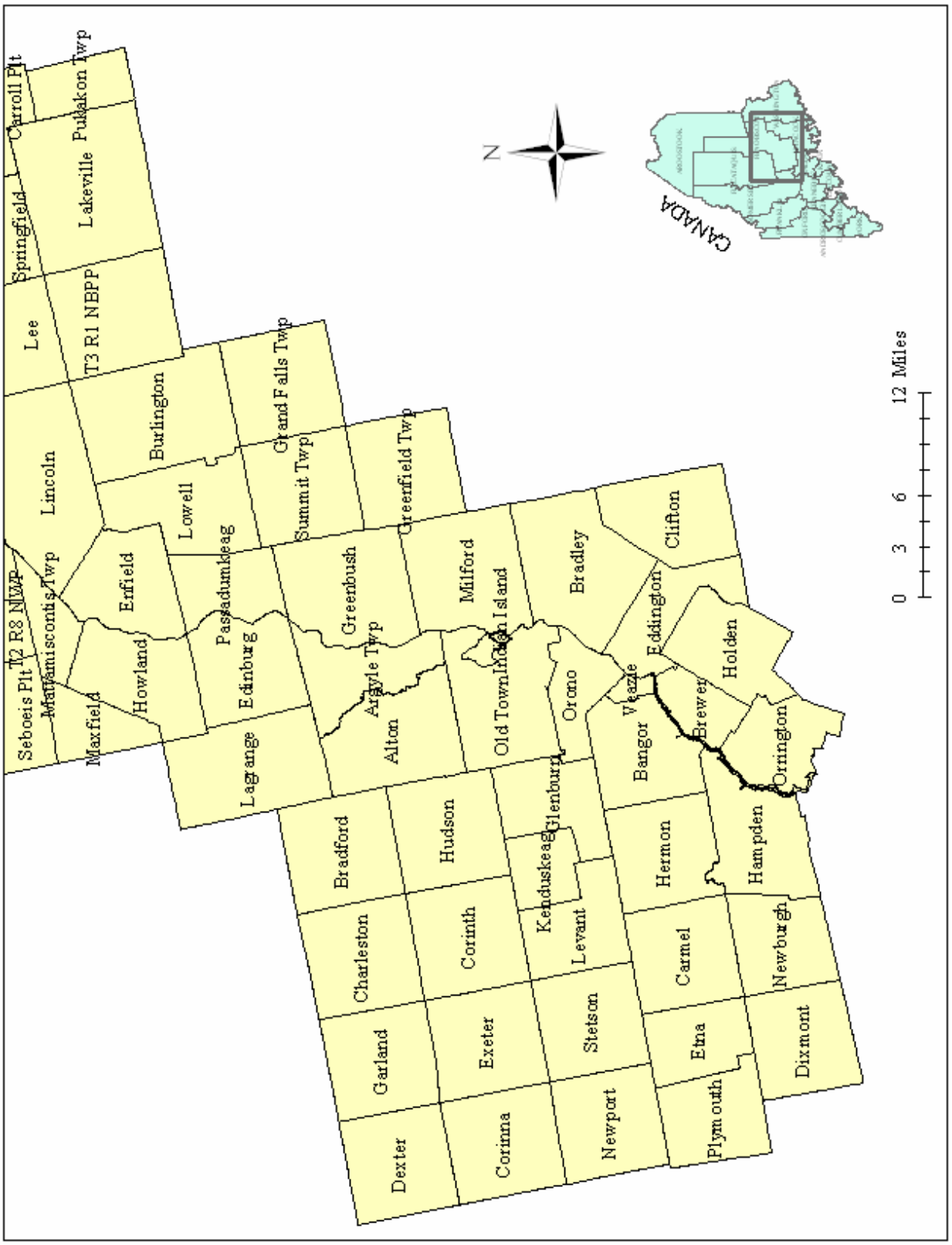

Figure 1. Communities in Penobscot County, Maine: (b) southern.

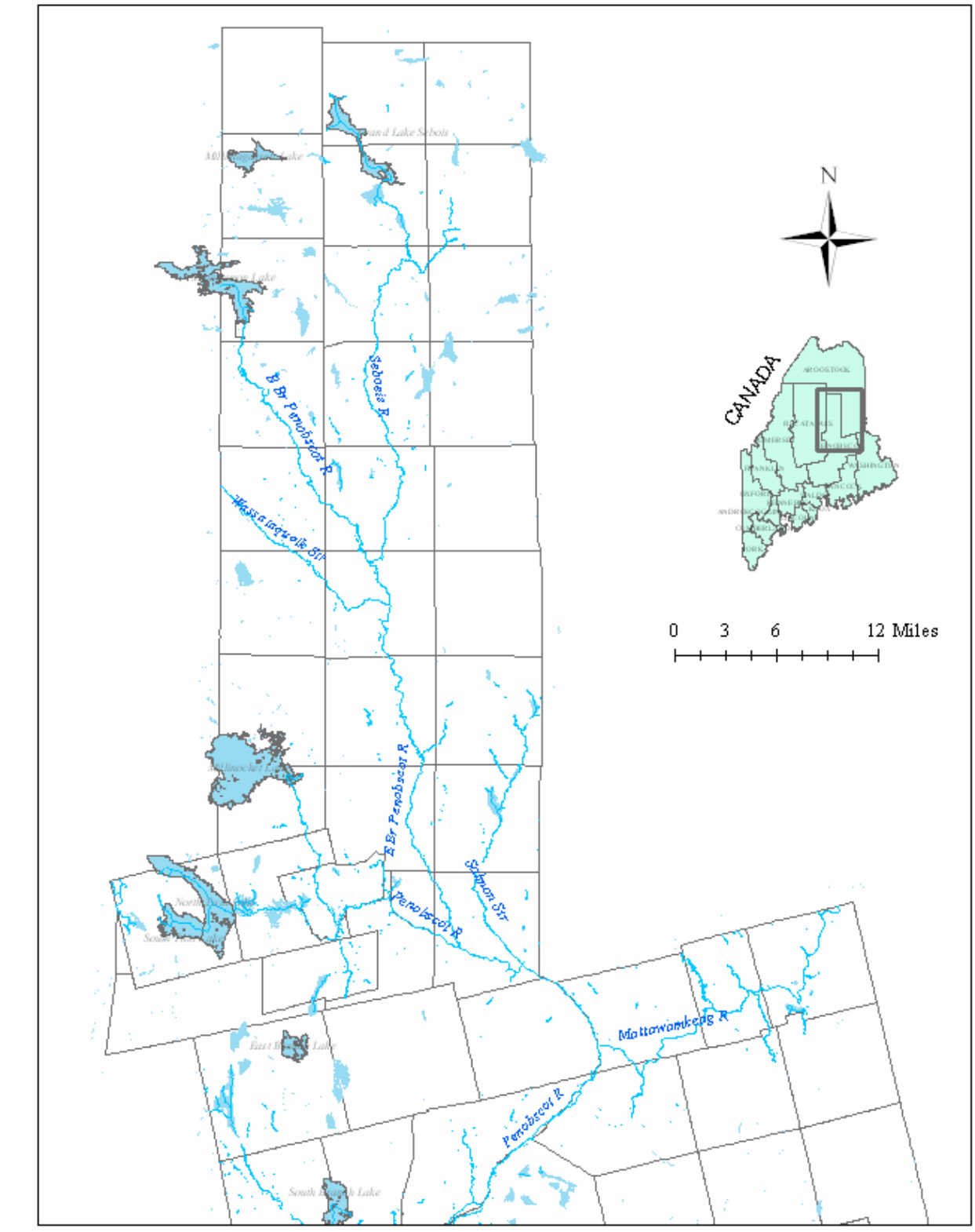

Figure 2. Hydrology of Penobscot County, Maine: (a) northern.

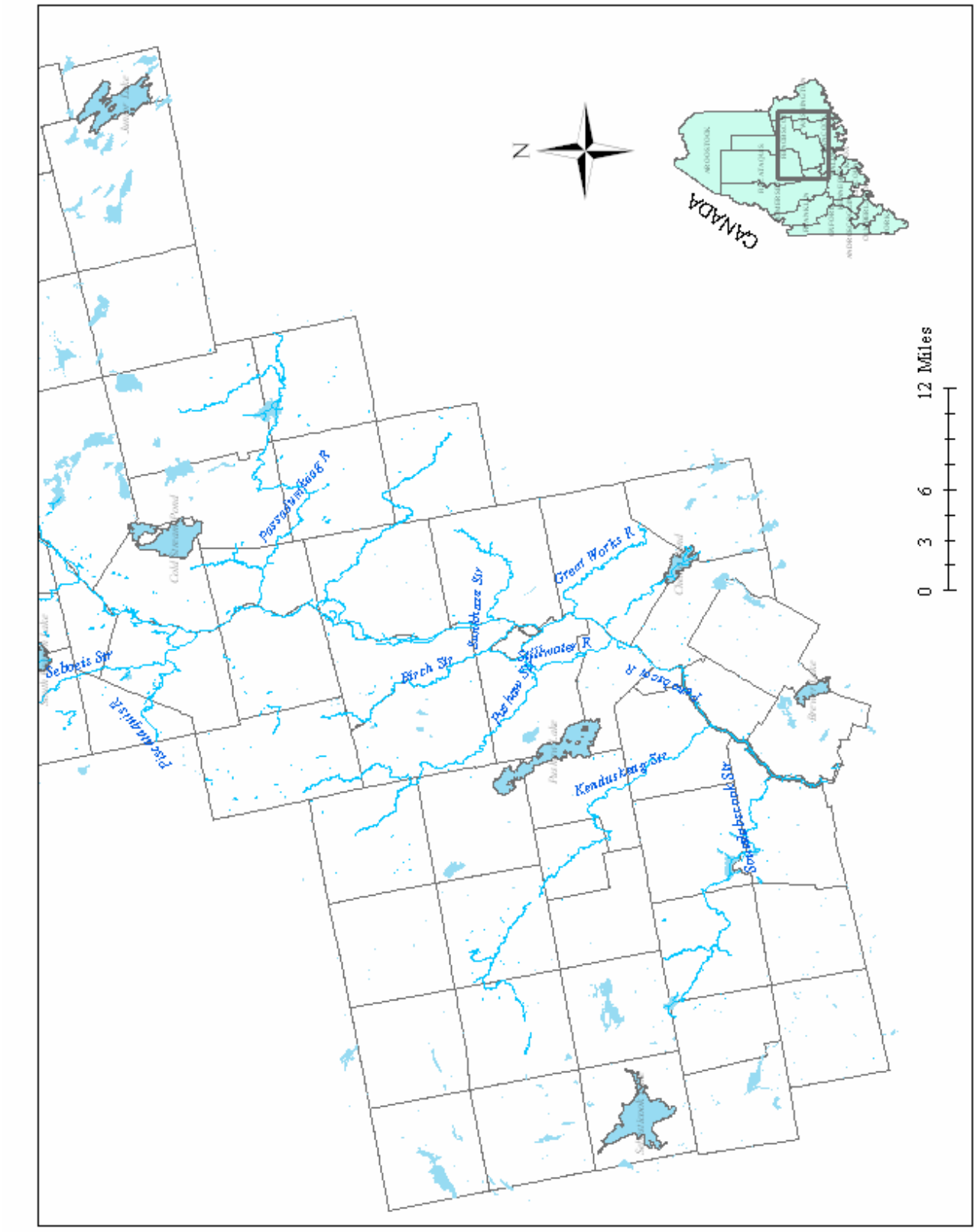

Figure 2. Hydrology of Penobscot County, Maine: (a) southern.

Section 2. Available Flood-Mapping Data and Mapping Needs

Flood-mapping data and mapping needs were compiled as part of this effort by means of state and community contacts, community scoping meetings, and manual and on-line data searches. This report is a comprehensive compilation of data acquired for scoping tasks relating to Penobscot County.

Community FISs and FIRMs

Penobscot County includes 23 communities having FIRMs with active FIS reports, 25 communities having FIRMs with only unnumbered A-zones, and 10 communities having FHBMs (table 1). The Indian Island study was conducted as part of the Old Town study.

The effective map dates range from January 17, 1975 (Etna) to July 17, 2002 (Orrington). Fifty-nine percent of the maps in Penobscot County are 20 years old or older; 95 percent are 10 years or older. The oldest map is 31 years old, the most recent is 4 years old, and the average age is approximately 22 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 22 years.

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

The MFMP has developed 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 Penobscot County). These data are documented in the appendix of this report for each community. Information about these data is available from the MFMP web site at: *http://www.state.me.us/spo/flood/bad/* (accessed September 8, 2006).

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 Letters 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 or change. 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 Penobscot 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 Penobscot County). LOMC data for Penobscot County are summarized in table 2; communities that have no LOMC records are not shown in table 2. A total of 84 LOMCs are on record; the greatest number, 10, is for Old Town. A geographic information system (GIS) digital data set representing georeferenced locations of LOMCs in Penobscot County was created as part of the scoping effort and uploaded to the Watershed Information System (WISE, a software package used by FEMA to catalogue scoping needs) database.

Table 2. Summary of letters of map change (LOMCs) in Penobscot County, Maine.
[CID, Community Identification number]

Community name	CID	Current map date	Map age	Number of LOMCs
Alton, Town of	230101	9/18/1985	21	1
Argyle Township	230464	9/18/1985	21	2
Brewer, City of	230104	6/1/1978	28	2
Burlington, Town of	230374	2/7/1975	31	2
Clifton, Town of	230378	5/2/1994	12	3
Corinna, Town of	230397	9/18/1985	21	1
Dexter, Town of	230105	7/16/1990	16	1
Dixmont, Town of	230381	2/4/1987	19	2
Enfield, Town of	230384	5/15/1991	15	8
Glenburn, Town of	230106	8/16/1993	13	8
Greenbush, Town of	230107	9/4/1987	19	1
Hampden, Town of	230168	9/4/1987	19	1
Hermon, Town of	230389	9/27/1985	21	3
Levant, Town of	230912	7/1/1991	15	5
Lincoln, Town of	230109	9/18/1987	19	9
Lowell, Town of	230395	2/21/1975	31	5
Mattawamkeag, Town of	230174	5/4/1988	18	3
Newport, Town of	230398	9/18/1985	21	3
Old Town, City of	230112	4/17/1978	28	10
Orono, Town of	230113	7/3/1978	28	2
Orrington, Town of	230180	7/17/2002	4	7
Passadumkeag, Town of	230114	5/17/1988	18	1
Stetson, Town of	230402	8/19/1991	15	2
Winn, Town of	230404	1/24/1975	31	2

Community Flood Ordinances

The MFMP 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. The contact for community flood ordinances is the MFMP:

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 (Federal Emergency Management Agency, 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 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, 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 potential entries are reviewed and approved by the FEMA MNUSS controller prior to entry into the system.

MNUSS entries for Penobscot County are summarized in table 3. Of the 187 MNUSS entries on record, 87 (47 percent) appear to be placeholders (one per municipality having no other MNUSS entries), 35 (19 percent) appear to be duplicate entries, and 65 appear to be unique entries. Valid (non-placeholder) MNUSS records exist for 12 municipalities, including Bangor, Brewer, Eddington, Hampden, Garland, Holden, Kenduskeag, Levant, Old Town, Orono, Orrington, and Veazie. Of the 65 unique entries, 6 were addressed by a LOMR in 2002 for parts of Penobscot River after Bangor Dam was removed; 26 will be addressed by the DFIRM process; 18 require restudy; 4 require a new FIS; 5 ask for elevation reference marks to be added to the DFIRM (which is no longer done and therefore not valid); and 6 were addressed in a 2002 FIS. Of the 34 MNUSS entries that could affect base flood elevations (BFEs), 3 are expected to decrease the BFE by less than 1 ft, 23 are expected to decrease the BFE by 1 to 5 ft, 4 are expected to increase the BFE by 1 to 5 ft, and 4 are expected to increase the BFE by 1 to 5 ft.

For the scoping process, existing entries in MNUSS were retrieved by USGS and reviewed with the MFMP 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 upon completion of the scoping report. Existing MNUSS entries are compiled in Appendix C.

Table 3. Summary of unique, non-placeholder entries in the Mapping Needs Update Support System (MNUSS) for Penobscot County, Maine.

[CID, Community identification number; MFMP, Maine Floodplain Management Program; BFE, base flood elevation; LOMR, letter of map revision; FIS, flood insurance study; DFIRM, digital flood insurance rate map]

CID	Community name	Number	MFMP comments	Anticipated BFE change
230102	Bangor	2	Addressed by LOMR, 2002	Decreased By Less Than 1 foot
230104	Brewer	1	DFIRM process	Not Applicable
230104	Brewer	1	Addressed by LOMR, 2002	Decreased By Between 1 and 5 feet
230382	Eddington	2	DFIRM process	Not Applicable
230382	Eddington	1	Addressed by LOMR, 2002	Decreased By Less Than 1 foot
230387	Garland	4	DFIRM process	Not Applicable
230168	Hampden	4	DFIRM process	Not Applicable
230168	Hampden	3	Require restudy	Increased By Greater Than 5 feet
230168	Hampden	12	Require restudy	Decreased By Between 1 and 5 feet
230390	Holden	1	Require restudy	Increased By Greater Than 5 feet
230108	Kenduskeag	4	Require FIS	Increased By Between 1 and 5 feet
230912	Levant	1	DFIRM process	Not Applicable
230112	Old Town	12	DFIRM process or not valid	Not Applicable
230112	Old Town	2	Addressed by LOMR, 2002	Decreased By Between 1 and 5 feet
230113	Orono	5	DFIRM process or not valid	Not Applicable
230113	Orono	2	Require restudy	Decreased By Between 1 and 5 feet
230180	Orrington	1	DFIRM process	Not Applicable
230180	Orrington	6	New FIS 2002	Decreased By Between 1 and 5 feet
230403	Veazie	1	DFIRM process	Not Applicable

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

CAVs and CACs provide assistance to communities regarding the administration and enforcement of their floodplain management ordinances. A CAV is a scheduled visit (on the date opened) to an NFIP community for the purpose of conducting a comprehensive assessment of the community's floodplain management program. A CAC is used to establish a contact with a community for the purpose of determining whether any problems or issues exist and to offer the community assistance if necessary. CACs can be conducted by means of a telephone call or brief visit. "Date opened" refers to the date that the visit or call was initiated, whereas "date closed" refers to the date that the results of the assistance call or visit is finalized. CAV and CAC data for the county are presented in table 4.

Table 4. Summary of Community Assistance Visits (CAVs) and Community Assistance Contacts (CACs) in Penobscot County, Maine.

[CID, Community Identification number; FEMA, Federal Emergency Management Agency; --, no close date]

CID	Community name	Date opened	Agency	Type	Date closed
230101	Alton	25-Jul-05	STATE	CAC	--
230102	Bangor	18-Apr-96	STATE	CAV	--
230373	Bradford	16-Aug-95	STATE	CAC	17-Oct-95
230103	Bradley	15-Sep-99	STATE	CAC	10-May-00
230104	Brewer	04-Oct-95	STATE	CAV	30-Apr-96
230104	Brewer	23-Nov-93	STATE	CAC	03-Dec-93
230378	Clifton	06-Aug-96	STATE	CAC	22-Oct-96
230397	Corinna	29-Sep-99	STATE	CAV	11-May-00
230397	Corinna	17-Nov-93	STATE	CAC	--
230380	Corinth	25-Sep-92	STATE	CAC	29-Sep-92
230105	Dexter	10-Feb-93	STATE	CAC	19-Feb-93
230105	Dexter	30-Sep-03	STATE	CAC	--
230381	Dixmont	31-Jul-95	STATE	CAC	--
230163	East Millinocket	09-Sep-93	STATE	CAC	--
230382	Eddington	17-Sep-92	STATE	CAC	17-Sep-92
230387	Garland	21-Sep-95	STATE	CAC	--
230168	Hampden	17-Aug-95	STATE	CAC	28-Sep-95
230168	Hampden	15-Apr-04	STATE	CAC	--
230389	Hermon	24-Mar-92	STATE	CAC	08-Sep-92
230389	Hermon	04-Aug-94	STATE	CAC	07-Oct-94
230390	Holden	06-Jul-95	STATE	CAC	11-Aug-95
230391	Howland	04-Mar-94	STATE	CAC	21-Mar-94
230391	Howland	22-Jul-04	STATE	CAC	--
230392	Hudson	22-Jun-01	STATE	CAV	06-Mar-02
230392	Hudson	29-Jun-92	STATE	CAC	08-Sep-92
230392	Hudson	16-Aug-95	STATE	CAC	24-Nov-95
230392	Hudson	22-Jun-01	STATE	CAC	16-Nov-01
230392	Hudson	22-Jul-01	STATE	CAC	28-Dec-01
230108	Kenduskeag	18-Sep-03	FEMA	CAV	26-Aug-04
230108	Kenduskeag	29-Jun-92	STATE	CAC	08-Sep-92
230912	Levant	12-Sep-95	STATE	CAC	08-Jul-96
230109	Lincoln	26-Aug-99	STATE	CAC	11-May-00
230396	Maxfield	25-Aug-05	STATE	CAC	--
230175	Medway	06-Aug-91	STATE	CAV	04-Sep-91
230175	Medway	28-Sep-01	STATE	CAC	--
230111	Millinocket	13-Jul-92	STATE	CAV	--
230111	Millinocket	29-Sep-04	STATE	CAC	--
230398	Newport	19-Apr-91	STATE	CAC	25-Apr-91
230398	Newport	21-Aug-03	STATE	CAC	--
230112	Old Town	03-Sep-98	STATE	CAV	--
230112	Old Town	07-Sep-04	STATE	CAV	30-Oct-04
230112	Old Town	18-Jul-94	STATE	CAC	01-Aug-94
230113	Orono	25-Jun-91	STATE	CAC	02-Jul-91
230180	Orrington	29-Jul-96	STATE	CAC	22-Oct-96
230114	Passadumkeag	23-Sep-92	STATE	CAC	29-Sep-92
230114	Passadumkeag	16-Aug-95	STATE	CAC	--
230114	Passadumkeag	22-Jun-01	STATE	CAC	07-Feb-02
230399	Plymouth	25-Sep-95	STATE	CAC	--

230402	Stetson	23-Sep-92	STATE	CAC	29-Sep-92
230402	Stetson	13-Sep-05	STATE	CAC	--
230403	Veazie	26-Sep-94	STATE	CAC	20-Oct-94
230403	Veazie	03-Sep-98	STATE	CAC	--
230404	Winn	27-Sep-96	STATE	CAC	--

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 B). 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/

All of Penobscot County has digital orthophotography available at 1-meter resolution (each image pixel representing a planimetric square 1 meter on a side); this imagery data set is a grayscale mosaic of digital orthophotographs produced from aerial photos. Community-specific aerial photographs are documented as part of the community scoping-meeting process (see Appendix B). Most aerial photography was obtained under contract with James W. Sewall Company, 147 Center Street, P. O. Box 433, Old Town, Maine, 04468.

The following towns indicated during the interview process that they have base-map data available in some form:

Bangor – aerial photography, 2001, scale and type unknown.

Brewer – aerial photography, black and white, flown in 2004.

Eddington – aerial photography from an MDOT study for I-395, date and type unknown.

Enfield – aerial photography, 1991 or 1992, part of sewer project.

Glenburn – aerial photography, black and white, flown in 2003.

Hampden – aerial photography, black and white, 0.5-ft resolution, town-wide, 2006.

Hermon – aerial photography, 2004 or 2005, type unknown.

Orono – aerial photography, black and white, flown in 1998.

Orrington – aerial photography, along pipeline corridor, flown about 1999.

Veazie – aerial photography, submeter resolution, date unknown.

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. 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*.

Five MDOT projects, dated 1961–77, intersect streams that have been identified as needing updated flood-insurance studies in the towns of Brewer, Glenburn, Hermon, and Old Town (tables 5, 9). The total length of streams that intersect these projects is about 10.5 mi.

Table 5. Maine Department of Transportation mapped projects that intersect streams in Penobscot County identified as needing updated flood-insurance studies.

[--, no data]

Community	Description	Project	Waterbody	Date
Brewer	Routes 395 and US 1A	943-1(28)	Penobscot River	April 30, 1977
Glenburn	Route 15	38-1(505)	Kenduskeag Stream	November 8, 1970
Hermon	Routes 2 and 100	--	Black Stream	--
Old Town	Interstate 95	--	Stillwater River	May 11, 1961
Old Town	Routes 16 and 43	(286)-1	Stillwater River, Kenduskeag Stream	April 29, 1968

Community-specific topographic data are documented as part of the community scoping-meeting process (see Appendix B). The following municipalities indicated during the interview process or to the State Planning Office that they have topographic data in some form:

Bangor – 1987, scale and interval unknown.

Eddington – derived from the MDOT study of I-395, date and interval unknown.

Enfield – derived from sewer project, 1991 or 1992, interval unknown.

Hampden – old (1960s or 1970s), part of town, interval unknown.

Hermon – aerial photography from 2004 or 2005 may have been converted to topography.

Orono – some very small areas (subdivisions), 2- to 5-ft contour intervals.

Veazie – 2-ft contours town-wide, date unknown.

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 has stalled recently due to lack of funding—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 B). The following towns indicated during the interview process that they have hydrography data available in some form:

Bangor – some may be available for developed areas around the airport.

Brewer – major wetlands, hydrography from habitat programs.

Eddington – hydrology data available for the Meadow Brook area.

Enfield – may have data as part of Bangor Hydro dam project.

Hermon – geologic studies along Odlin Road.

Newport – results of a study by U.S. Army Corps of Engineers, 1986.

Community GIS Contact Information

GIS contact information obtained through scoping meetings is provided in Appendix B for each community basis as part of the interview data. Of the 24 communities interviewed, 2 (Hampden and Veazie) have GIS capabilities, 2 (Brewer and Bangor) have limited GIS capabilities, and 20 have no GIS capabilities.

Community Meetings and Contacts

A community scoping meeting was held for Penobscot County at the Bangor City Hall on Thursday, November 30, 2006, from 9:30 a.m. to 3:30 p.m. An invitation letter (with agenda) specifying the time, 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 select person. The 22 communities having representatives (28 total) in attendance at the meeting included Alton, Bangor, Bradford, Bradley, Brewer, Clifton, Corinth, Corinna, Dexter, Eddington, Enfield, Glenburn, Greenbush, Hampden, Hermon, Holden, Hudson, Newport, Old Town, Orono, Orrington, and Passadumkeag.

The goals of this meeting 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.

The meeting with Penobscot County officials followed a procedure that was slightly different from those conducted by MFMP and USGS in 2005. Rather than hold a plenary session during which the Map Modernization process was explained by use of a slide presentation, officials were mailed an explanation of the program and were asked to select a time to meet with MFMP and USGS concerning the program and their needs. Each town faxed to MFMP the name of the official(s) representing the town at the meeting and the time at which they would be able to attend. Copies of the Map Mod brochure, cover letter, and fax-back form are attached to this report.

Tom Marcotte, Lou Sidell, and Michael Montagna of MFMP; Chuck Schalk and Greg Stewart, USGS Maine Water Science Center; Sarah Widing, ENSR, representing MFMP; and Dave Knowles, FEMA, were in attendance at the meeting. Tom, Lou, Chuck, Greg, and Sarah conducted the interviews while Dave provided expert knowledge on the Map Modernization program.

Municipal officials generally arrived at their appointed times and were seated at tables with the interviewer. The officials and the interviewer discussed the town's flooding issues, particularly as related to their current maps, and completed the map needs interview form (example attached, Appendix D). Community representatives were provided copies of their community's flood maps and were encouraged to document problem areas, concerns, and so forth on the maps. These marked-up flood maps reside with MFMP. 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.

During the scoping meetings, the MFMP'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 MFMP 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. The data from the scoping meetings were entered into the watershed information system (WISE) scoping application and are reported for each community in the Appendices as part of the interview data.

At present (December 2006), there is a major project underway to attempt the reconfiguration of several hydropower projects on Penobscot River, which in turn could have impacts on existing flood studies for several communities in Penobscot County. The Penobscot Indian Nation, American Rivers, Atlantic Salmon Federation, Maine Audubon, Natural Resources Council of Maine, and Trout Unlimited, working with the U.S. Department of Interior, the State of Maine, and PPL Corporation, signed an agreement in June 2004 with the Federal Energy Regulatory Commission (FERC) to restore

populations of sea-run fish in the mainstem of Penobscot River by allowing for the purchase of three dams from PPL Corporation and the removal of the two most downstream dams: Veazie Dam and Great Works Dam. Pending approval from the U.S Fish and Wildlife Service (USFWS), the Howland Dam will be decommissioned and a new fish bypass system will be installed. The plan calls for the Howland Dam to increase the head in its impoundment to provide increased energy production at the Orono and Stillwater Dams. In addition, a head increase may also be put in effect at the West Enfield Dam to increase power production, and the Howland Dam on Piscataquis River may get a new fish bypass system. Whether the hydropower reconfiguration occurs depends on the purchase of the three dams (there is a 3–5 year window starting June 2004 during which the dams can be purchased; fundraising is currently ongoing), approval from USFWS, and satisfactorily meeting environmental impact requirements. The three dams that will be purchased as part of the option agreement will not be altered or removed until sometime between 2007–2010.

Impacts to the following flood maps might be expected if this project is completed as planned:

- Raised head behind the Milford Dam and improved fish passage could impact flood levels for the main stem of Penobscot River in the communities of Milford and Old Town and possibly Argyle Township and Greenbush Township, depending on the extent of the impoundment. In turn, the raised head at Milford would support raised head at the Orono and Stillwater Dams which would affect flood levels on Stillwater River in Orono and Old Town.
- The removal of the Veazie and Great Works Dams would affect flood levels for the main stem of Penobscot River in the communities of Veazie, Eddington, Orono, Bradley, Old Town, and Milford.
- New passage at Howland Dam may impact flood levels for Piscataquis River in Howland and possibly Maxfield depending on the extent of the impoundment.
- Raised head at the West Enfield Dam may impact flood levels for the main stem Penobscot River in the communities of Enfield and Howland and possibly Mattamiscontis Township and Lincoln depending on the extent of the impoundment.

More information about the project is available on the Internet at: *http://www.penobscotriver.org/*. Point of contact information for this project is:

Laura Rose Day
Executive Director
Penobscot River Restoration Trust
P.O. Box 5695
Augusta, ME 04332
laura@penobscotriver.org
(207)-622-3101

Scope and Prioritization of Mapping Needs in Penobscot County

Two prioritization schemes are presented in this section. The first scheme uses criteria provided by FEMA and MFMP to rank *communities* in Penobscot County having the greatest need for updated mapping on the basis of risk, as quantified in census block-group data. This ranking meets the goals of the map modernization process as described in FEMA's mid-course adjustment (Federal Emergency Management Agency, 2006). The second scheme uses the results of the first, plus additional information about waterbodies according to community and MFMP representatives, to rank *flood hazards* (waterbodies) in Penobscot County having the greatest need for updated mapping. This ranking can be used by FEMA to maximize the benefit of any future engineering studies.

Prioritization of Towns in Penobscot County

USGS staff (Robert Dudley, Charles Schalk) met with MFMP staff (Lou Sidell, Tom Marcotte) in July 2006 as an initial kick-off meeting for the scoping process. An action item resulting from that meeting involved MFMP staff arriving at a list of criteria that should be considered for prioritizing potential mapping needs of towns in the county. MFMP decided that the 8 criteria identified by FEMA during their midcourse adjustment were adequate for assessment of priority by town and(or) census block. These 8 criteria are based on block-group data provided by the U.S. Census Bureau and are used to compute census block group risk scores. Table 6 lists the criteria and their data source.

Table 6. Maine Floodplain Management Program criteria for prioritization of community-based flood mapping needs in Penobscot County.

[FIA, Federal Insurance Administration]

Criterion	Data source
Population density	Census block group data
Housing unit density	Census block group data
Claims density	FIA Claims dataset
Repetitive losses claims density	FIA Claims dataset
Repetitive loss properties density	FIA Claims dataset
Policies density	County distribution
Disasters	County distribution
Population growth from 1990-2000	County distribution

Scores for each of the criteria listed in table 6 were calculated and normalized for each census block group included in Penobscot County. The normalization process encompassed two steps. First, the calculated value for each block group was compared with the range of values calculated for all block groups in the State of Maine. In this way, scores calculated for Penobscot County would be scaled consistently with those calculated for every other county in Maine. Second, the logarithm of the calculated and scaled value for each block group was taken to place the scaled values in the range of 0 to 10. This was to equalize the weight of each of the scoring criteria. After the data had been normalized, the maximum census block group risk score for each town was recorded.

Results of the community-based flood mapping assessment on the basis of census block groups are shown in table 7. The cities of Bangor and Old Town scored highest. After reviewing the results, MFMP determined them to be reasonable and in accord with their understanding of community-based mapping needs in Penobscot County. Scoring results by census block group are provided in Appendix E.

Table 7. Maine Floodplain Management Program criteria for prioritization of community-based flood mapping needs in Penobscot County.

[CID, community identification number; CBG, census block group]

Community	CID	Maximum CBG risk score
Bangor, City of	230102	55.48
Old Town, City of	230112	51.88
Millinocket, Town of	230111	35.99
Orono, Town of	230113	33.49
Brewer, City of	230104	33.46
Hampden, Town of	230168	33.41
Glenburn, Town of	230106	32.74
Hudson, Town of	230392	30.21
Hermon, Town of	230389	29.81
East Millinocket, Town of	230163	29.42
Levant, Town of	230912	29.18
Orrington, Town of	230180	28.47
Indian Island	230919	28.19
Veazie, Town of	230403	27.61
Newport, Town of	230398	27.37
Stetson, Town of	230402	27.33
Eddington, Town of	230382	27.26
Milford, Town of	230110	27.14
Plymouth, Town of	230399	27.12
Lincoln, Town of	230109	26.91
Clifton, Town of	230378	26.56
Charleston, Town of	230376	26.44
Carmel, Town of	230375	26.34
Greenbush, Town of	230107	25.92
Bradley, Town of	230103	25.87
Howland, Town of	230391	25.55
Dexter, Town of	230105	25.02
Corinth, Town of	230380	25.01
Dixmont, Town of	230381	24.89
Bradford, Town of	230373	24.69
Etna, Town of	230385	24.27
Enfield, Town of	230384	23.94
Passadumkeag, Town of	230114	23.73
Holden, Town of	230390	23.41
Kenduskeag, Town of	230108	23.00
Alton, Town of	230101	22.82
Argyle TWP	230464	22.82
Carroll PLT	230461	22.77
Lakeville, Town of	230609	22.77
Springfield, Town of	230400	22.77
T05 R01 NBPP	230844	22.77
Newburgh, Town of	230379	22.49
Chester, Town of	230377	22.10
Woodville, Town of	230405	22.10
Exeter, Town of	230386	21.80
Corinna, Town of	230397	21.19
Patten, Town of	230115	20.85
Mattawamkeag, Town of	230174	19.83

Garland, Town of	230387	19.62
Stacyville, Town of	230401	18.66
Medway, Town of	230175	18.08
Burlington, Town of	230374	17.87
Grand Falls PLT	230608	17.87
Greenfield, Town of	230388	17.87
Lowell, Town of	230395	17.87
Summit TWP, T01 ND	230838	17.87
Maxfield, Town of	230396	17.78
Seboeis PLT	230610	17.78
Winn, Town of	230404	17.77
Lee, Town of	230394	17.75
T03 R01 NBPP	230841	17.75
Edinburg, Town of	230383	17.38
Lagrange, Town of	230393	17.38
Mount Chase Town	230462	15.37
Drew PLT	230479	14.09
Kingman TWP	230474	14.09
Prentiss PLT	230463	14.09
Webster PLT	230611	14.09
Grindstone TWP, T1 R7 WELS	230612	11.49
Herseytown TWP, T2 R6 WELS	230613	11.49
Hopkins Academy Grant East TWP	230836	11.49
Hopkins Academy Grant West TWP	230837	11.49
Indian Purchase 3 TWP	230614	11.49
Indian Purchase 4 TWP	230615	11.49
Long A TWP, TA R8 & R9 WELS	230616	11.49
Mattamiscontis TWP, T1 R7 NWP	230617	11.49
Soldiertown TWP, T2 R7 WELS	230618	11.49
T01 R06 WELS	230620	11.49
T01 R08 WELS	230840	11.49
T02 R08 NWP	230621	11.49
T02 R08 WELS	230622	11.49
T02 R09 NWP	230623	11.49
T03 R07 WELS	230624	11.49
T03 R08 WELS	230625	11.49
T03 R09 NWP	230842	11.49
T04 R07 WELS	230626	11.49
T04 R08 WELS	230843	11.49
T05 R07 WELS	230845	11.49
T05 R08 WELS	230627	11.49
T06 R06 WELS	230628	11.49
T06 R07 WELS	230629	11.49
T06 R08 WELS	230630	11.49
T07 R06 WELS	230846	11.49
T07 R07 WELS	230847	11.49
T07 R08 WELS	230848	11.49
T08 R06 WELS	230849	11.49
T08 R07 WELS	230850	11.49
T08 R08 WELS	230851	11.49
TA R07 WELS	230619	11.49
Veazie Gore TWP	230839	11.49

Prioritization of Waterbodies in Penobscot County

Many towns and(or) census blocks in Penobscot County are separated from neighboring towns and(or) census blocks by bodies of water that may need new or revised studies. In cases such as these, ranking the waterbodies in order of priority can promote most efficient use of limited resources for study in Penobscot County. When a waterbody that serves as a boundary among several towns receives funding for study, then all of the towns that have that waterbody as a boundary can benefit from the results of the study.

Mapping needs for waterbodies 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 flood mapping 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 MFMP staff (Lou Sidell, Tom Marcotte) on December 22 and 27, 2006, to review interview data and marked-up maps and to arrive at an initial list of mapping needs by waterbody for the county. The mapping needs derived through these meetings were entered into the WISE scoping application. During this meeting, the criteria listed in table 8 were identified as necessary to the ranking of waterbodies and the type of study needed for each waterbody was identified. Descriptions of these criteria are provided in the text following table 8.

Table 8. Maine Floodplain Management Program criteria and qualitative weight for prioritization of waterbody-based flood mapping needs in Penobscot County.

[MFMP, Maine Floodplain Management Program; LOMC, Letter of Map Change]

Community prioritization criteria	Weight	Range	Score
Ranking from census block-centered analysis	3	21.2 – 55.5	One-eighth of value; theoretical maximum = 10 points
Community and(or) MFMP priority	1	1 - 3	1 = highest = 10 points 2 = medium = 6 points 3 = lowest = 3 points
Connectivity	1	1 – 7	One point per connected community
Map age, in years	1	5 – 29	0.3 point per year
Map type	1	b, c, d, e	b = unnumbered A-Zone : 10 points c = map with elevations : 6 points d = map with elevations and floodways: 3 points e = map with coastal velocity zones: 3 points
Number of LOMCs	1	0 – 9	0.5 point per LOMC
Presence of best available data	1	Yes / No	Yes = 10, No = 0

In most cases, towns identified their highest waterbody mapping priorities during the scoping meeting. In some cases, priority was indicated by MFMP during the December 22 and 27 meetings on the basis of historically documented mapping needs of the towns. 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 that had been historically documented as a mapping need in either the MFMP'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. Priority was ranked from 1 (highest) to 3 (lowest). Many towns indicated more than three waterbodies that need to be addressed; in these cases, all waterbodies ranked as lowest priority were given a priority ranking of 3.

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 detailed 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.

Map age was calculated as the difference between December 2006 and the effective date of the map, in years. Several towns in Penobscot County still operate with the "flat maps," or FHBMs that had been converted to FIRMs by letter.

Type of map also was included as a criterion. Maps that do not include studies and contain no BFEs are (b). Maps with BFEs but no delineated floodways are (c). Maps with BFEs and floodways are (d). Maps that include coastal velocity zones are (e). Highest scores were assigned to those maps with least amount of detail (b, then c, then d and e).

Because the number of LOMCs issued for a community is indicative of flooding issues, LOMCs were included in the scoring criteria. LOMCs that were included in the scoring were (a) those that contained coordinate information and could be plotted with some degree of certainty on a map, and (b) those determined from the map to relate to a particular waterbody. Other LOMCs (those that could not be located or assigned to a particular waterbody) were not included in the scoring.

As described above, the presence of BAD is helpful to prioritize the mapping needs of waterbodies. Waterbodies for which BAD were available were given a score of 10, whereas those for which BAD were not available were given a score of 0. BAD that required engineering investigation to determine its validity received a score of 5.

Summing the scoring criteria produced a waterbody-based prioritized list of mapping needs involving redelineation, limited detail study, or detail study (table 9, fig. 3). Primarily on the basis of the connectivity of Penobscot River among many communities that require redelineation and will be affected by dam removal, Penobscot River rose to the top of the rankings (1, 6, and 8). Sebasticook Lake in Newport and Black Stream in Levant and Hermon also scored highly, as did Pushaw Lake in Old Town and Glenburn. As an example, the redelineation of Penobscot River in Old Town scored as follows:

Census-block ranking (* 3)	= 6.5 * 3 = 19.5
Community/MFMP priority	= 10 (highest priority)
Connectivity	= 7
Map age (scaled by years)	= 8.8
Map type	= 3
Number of LOMCs (* 0.5)	= 2
Presence of BAD	= 0
Sum	= 50.3

Table 9. Prioritized waterbody-based flood mapping needs by community in Penobscot County requiring redelineation, limited detail study, or detail study.

Rank	Waterbody	Community	Community identification number	Study type	Score
1	Penobscot River	Old Town	230112	Redelineation	50.30
2	Sebasticook Lake	Newport	230398	Detail Study	47.84
3	Black Stream	Levant	230912	Detail Study	42.76
4	Pushaw Lake	Old Town	230112	Redelineation	40.77
5	Black Stream	Hermon	230389	Detail Study	40.22
6	Penobscot River	Brewer	230104	Redelineation	39.34
7	Penobscot River	Veazie	230403	Limited Detail Study	39.17
8	Pushaw Lake	Orono	230113	Redelineation	38.32
9	Souadabscook Stream	Hampden	230168	Limited Detail Study	37.50
10	Kenduskeag Stream	Corinth	230380	Detail Study	37.20
11	Dolby Pond	Millinocket	230111	Detail Study	36.80
12	Pushaw Lake	Glenburn	230106	Redelineation	36.46
13	Penjajawoc and Meadow Brooks	Bangor	230102	Detail Study	36.38
14	East Branch Sebasticook River	Corinna	230397	Limited Detail Study	35.52
15	Tributary to Tracy Pond	Hermon	230389	Detail Study	34.72
16	Cold Stream Pond	Enfield	230384	Redelineation	34.33
17	Sebasticook River	Newport	230398	Detail Study	33.84
18	Meadow Brook	Eddington	230382	Detail Study	32.98

19	Unnamed brooks	Bangor	230102	Limited Detail Study	32.88
20	Martin Bog	Corinna	230397	Detail Study	32.52
21	Number 16 Swamp	Bradley	230103	Detail Study	32.52
22	Birch Stream	Bangor	230102	Detail Study	32.38
23	Martin Stream	Newport	230398	Detail Study	32.34
24	Sedgeunkedunk Stream	Brewer	230104	Detail Study	32.34
25	Penobscot River	Orono	230113	Redelineation	32.32
26	Pleasant Lake	Stetson	230402	Redelineation	32.03
27	Millinocket Stream	Millinocket	230111	Detail Study	31.80
28	Ben Annis Pond	Hermon	230389	Detail Study	31.72
29	Sebasticook River	Dexter	230105	Detail Study	31.47
30	Buzzell Brook	Newport	230398	Detail Study	30.84
31	Tributary to Eaton Brook	Eddington	230382	Detail Study	29.98
32	Unnamed Bog	Holden	230390	Detail Study	29.39
33	Molly Lane wetland	Bangor	230102	Detail Study	29.38
34	Shaw Brook	Bangor	230102	Detail Study	29.38
35	Felts Brook	Brewer	230104	Limited Detail Study	29.34
36	Brewer Lake	Orrington	230180	Redelineation	29.13
37	Unnamed brook	Bradley	230103	Detail Study	28.52
38	Sucker Brook	Hampden	230168	Detail Study	28.50
39	Martin Bog	Dexter	230105	Detail Study	28.47
40	Kenduskeag Stream	Glenburn	230106	Detail Study	28.46
41	Eaton Brook	Brewer	230104	Detail Study	28.34
42	Wetland area above Felts Brook	Brewer	230104	Detail Study	28.34
43	Johnny Mack Brook	Orono	230113	Detail Study	28.32
44	Stillwater River	Orono	230113	Detail Study	28.32
45	Penobscot River	Hampden	230168	Redelineation	27.50
46	Eaton Brook	Holden	230390	Detail Study	26.39
47	Penobscot River	Enfield	230384	Redelineation	25.83
48	Brown Brook	Hampden	230168	Detail Study	25.50
49	West Branch Souadabscook River	Hampden	230168	Detail Study	25.50
50	Wetlands to Brown Brook	Hampden	230168	Detail Study	25.50
51	Felts Brook	Holden	230390	Detail Study	23.39
52	Sedgeunkedunk Flowage	Orrington	230180	Detail Study	22.63
53	Mill Stream	Holden	230390	Detail Study	22.39
54	Unnamed tributary near Orrington	Holden	230390	Detail Study	22.39

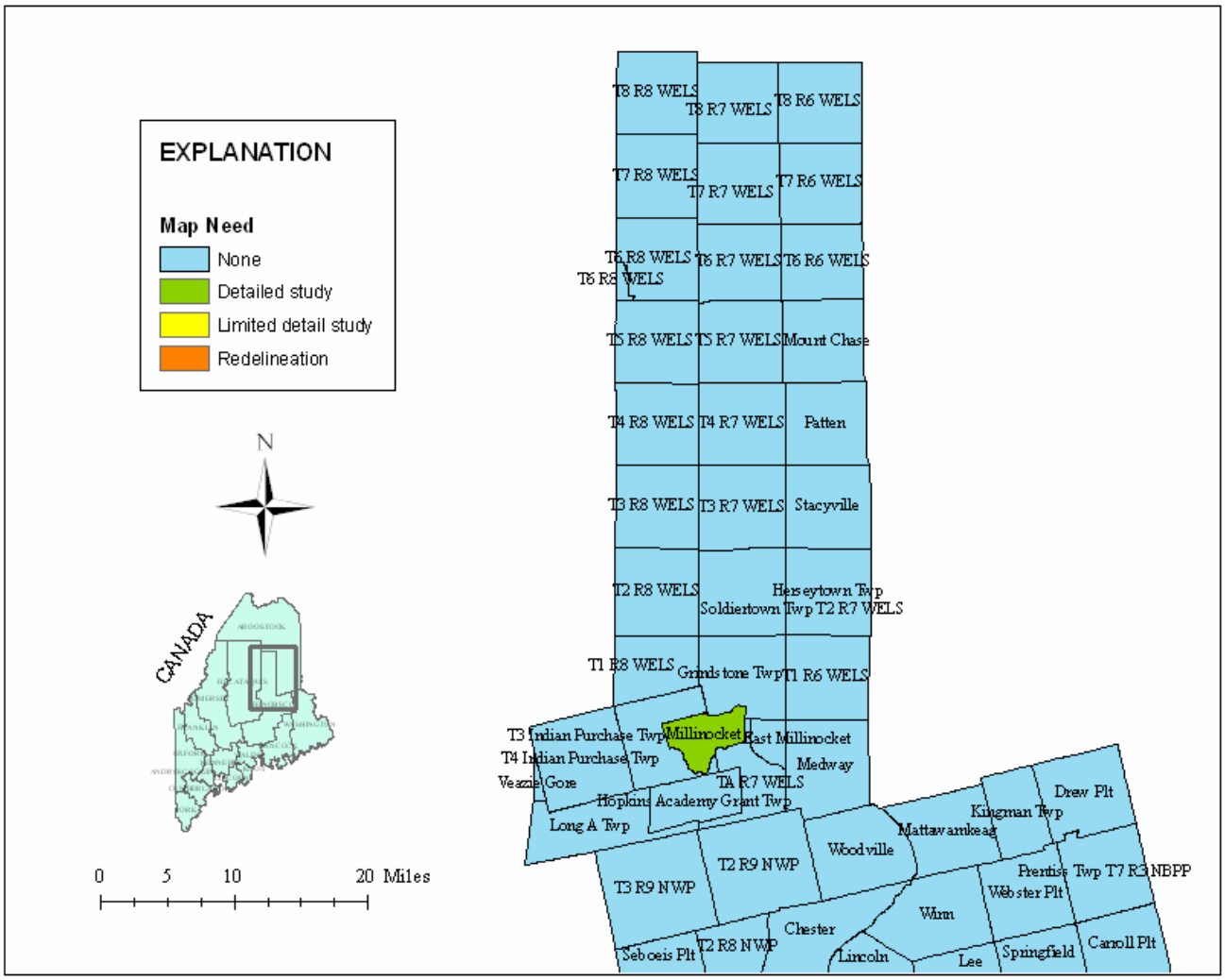

Figure 3. Types of waterbody studies needed by communities in Penobscot County: (a) northern.

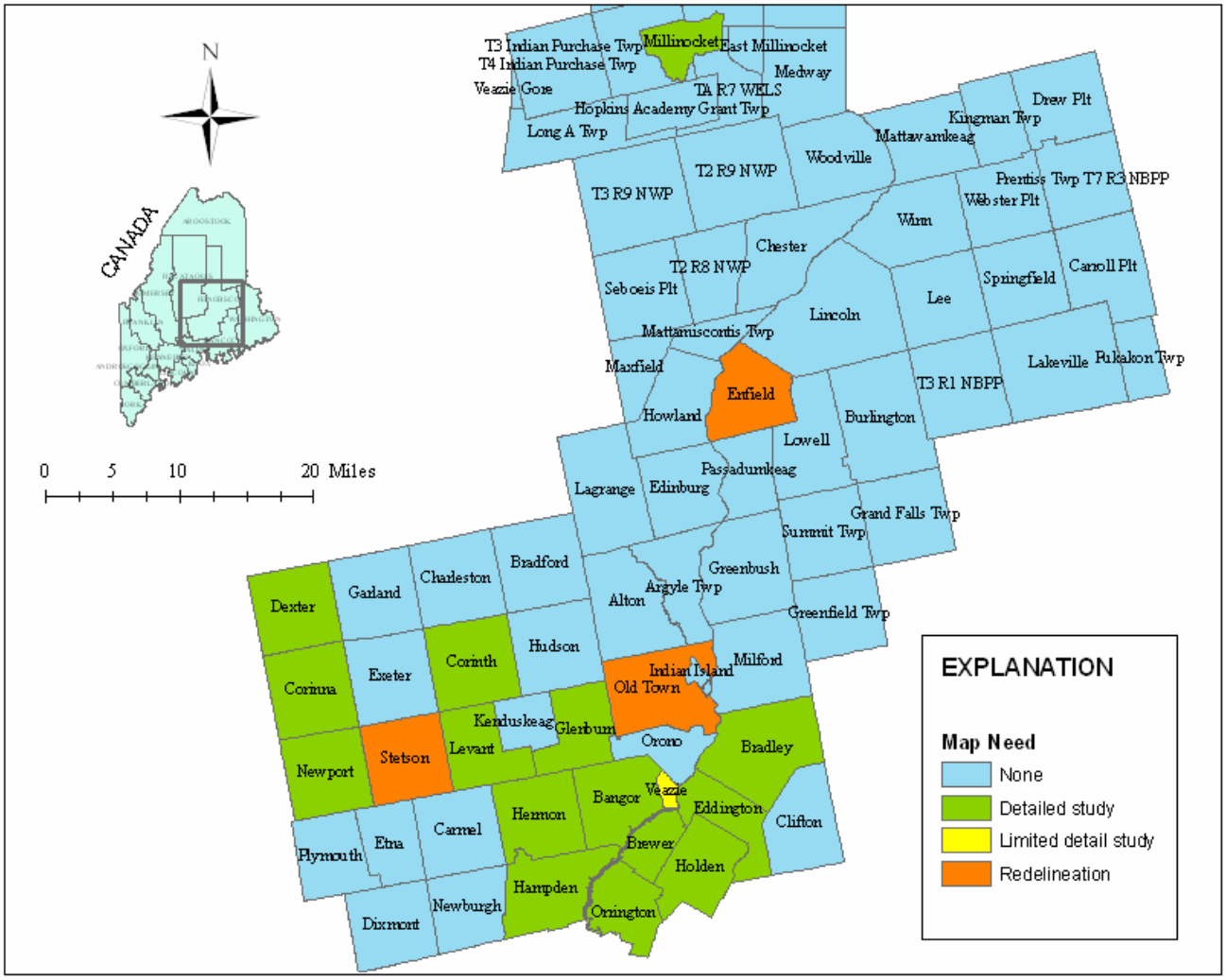

Figure 3. Types of waterbody studies needed by communities in Penobscot County: (southern).

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 9. 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, MFMP) 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 Penobscot 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). Proposed DFIRM panels for Penobscot County are shown in fig. 4.

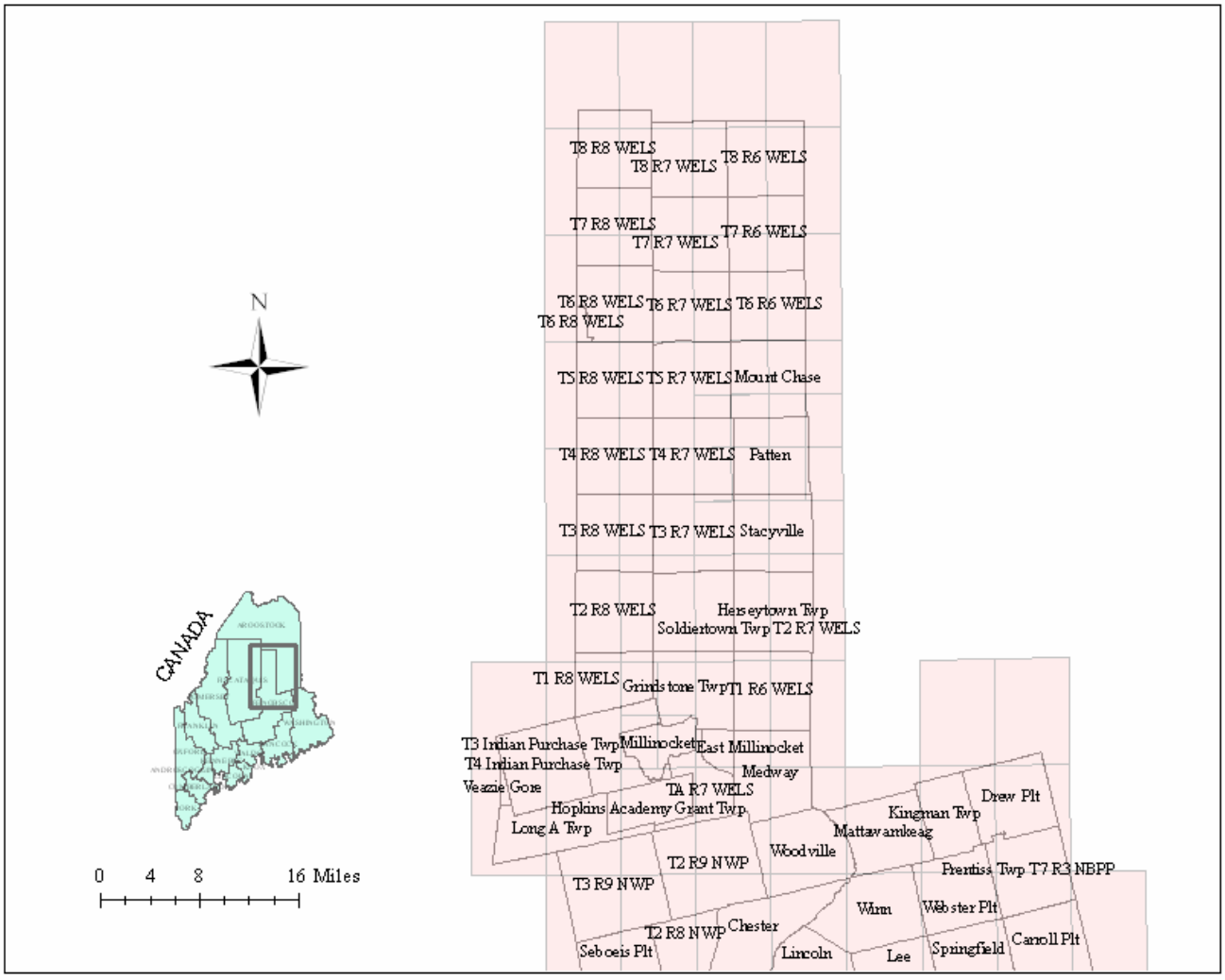

Figure 4. Proposed DFIRM panels for Penobscot County, Maine (northern).

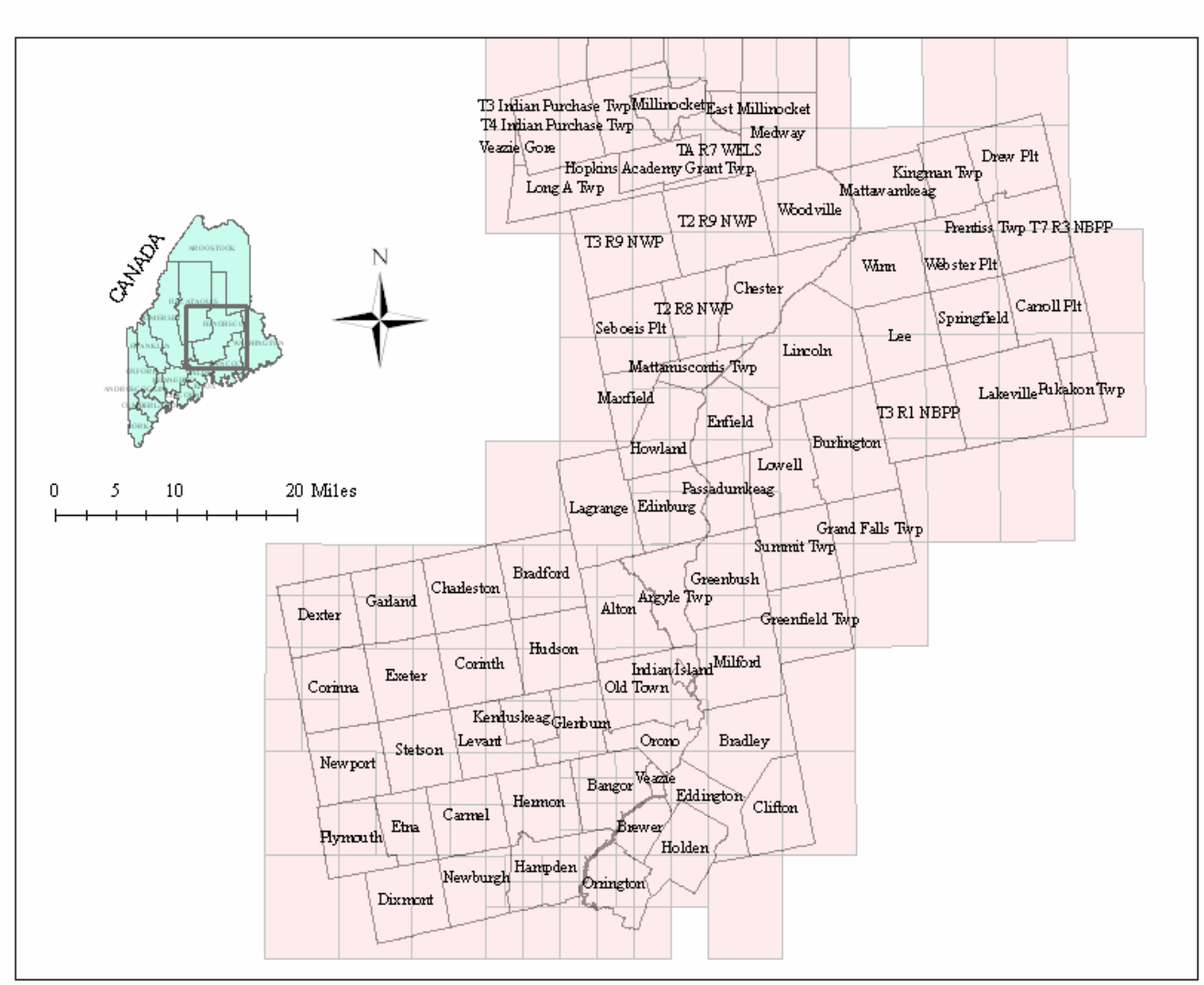

Figure 4. Proposed DFIRM panels for Penobscot County, Maine (southern).

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 photogrametrically 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, and 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 10:

Table 10. Flood Insurance Rate Map (FIRM) Horizontal Accuracy.

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 mapping data for Penobscot County DFIRM production that meet these specifications.

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 11:

Table 11. 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 by detailed methods and communities were contacted to find topographic or elevation data suitable for hydraulic modeling (e.g. 2-foot or 4-foot contours) (approximate and limited-detailed studies can often be done with less rigorous topographic standards). 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.

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Appendices

Appendix A: Community Contacts and Best Available Data: Penobscot County

Alton, Town of

CID 230101 Community Profile

Map Type: Unnumbered A-zone **Current FIRM/FIS Map Date:** 9/18/1985
Participating= Yes **LURC:** No **Ordinance Date:** 3/25/2006
Total No. NFIP Policies= ND **No. Claims Since 1978=** ND **All LOMCs:** 1

Ronald Borja 207-394-2601
Selectmen
Town of Alton
3945 Bennoch Rd.
Alton ME 04468

Richard Fish, CEO 207-827-8382
262 Greenfield Rd.
Greenbush ME 04418

Best Available Data: Pushaw Stream (SCS study 1976)

Mapping Status:

Mapping Needs:

ND, No Data

Argyle TWP

CID 230464 Community Profile

Map Type: Unnumbered A-zone **Current FIRM/FIS Map Date:** 9/18/1985

Participating= Yes **LURC:** No **Ordinance Date:**

Total No. NFIP Policies= 2 **No. Claims Since 1978=** 0 **All LOMCs:** 2

Fred Todd
Manager
Land Use Regulatory Commission
SHS 22
Augusta ME 04333

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

Bangor, City of

CID 230102 Community Profile

Map Type: Floodways **Current FIRM/FIS Map Date:** 3/4/2002

Participating=Yes **LURC:** No **Ordinance Date:** 2/25/2002

Total No. NFIP Policies=61 **No. Claims Since 1978=** 14 **All LOMCs:** 0

Edward Barrett 207-992-4200
City Manager
City of Bangor
73 Harlow St.
Bangor ME 04401

Daniel Wellington, CEO 207-945-4400
73 Harlow St.
Bangor ME 04401

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

Bradford, Town of

CID 230373 Community Profile

Map Type: Unnumbered A-zone **Current FIRM/FIS Map Date:** 1/3/1975
Participating=Yes **LURC:** No **Ordinance Date:** 3/20/1999
Total No. NFIP Policies=ND **No. Claims Since 1978=** ND **All LOMCs:** 0

Ava Bubar 207-327-2121
Town Manager
Town of Bradford
PO Box 26
Bradford ME 04410

Richard Fish, CEO 207-827-8382
262 Greenfield Rd.
Greenbush ME 04418

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

Bradley, Town of

CID 230103 Community Profile

Map Type: Floodways **Current FIRM/FIS Map Date:** 5/1/1978

Participating=Yes **LURC:** No **Ordinance Date:** 12/14/1999

Total No. NFIP Policies=10 **No. Claims Since 1978=** 12 **All LOMCs:** 0

Melissa Doane 207-827-7725
Town Manager
Town of Bradley
PO Box 517
Bradley ME 04411

Charles Norburg, CEO 207-827-7725
PO Box 168
Milford ME 04461

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

Brewer, City of

CID 230104 Community Profile

Map Type: Floodways **Current FIRM/FIS Map Date:** 6/1/1978

Participating=Yes **LURC:** No **Ordinance Date:** 7/9/2001

Total No. NFIP Policies=11 **No. Claims Since 1978=** 0 **All LOMCs:** 2

Stephen Bost 207-989-7500
City Manager
City of Brewer
80 North Main St.
Brewer ME 04412

David Russell, CEO 207-989-7790
80 N. Main St.
Brewer ME 04412

Best Available Data:

Mapping Status: Need to publish new FIS and FIRM to reflect LOMR

Mapping Needs:

ND, No Data

Burlington, Town of

CID 230374 Community Profile

Map Type: Unnumbered A-zone **Current FIRM/FIS Map Date:** 2/7/1975

Participating=Yes **LURC:** No **Ordinance Date:** 3/28/2005

Total No. NFIP Policies=1 **No. Claims Since 1978=** 0 **All LOMCs:** 2

Dennis Kingman Sr. 207-732-3985
Selectmen
Town of Burlington
PO Box 70
Burlington ME 04417

Theresa Thurlow, CEO 207-732-3985
HC 67, Box 78
Enfield ME 04433

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

Carmel, Town of

CID 230375 Community Profile

Map Type: Unnumbered A-zone **Current FIRM/FIS Map Date:** 2/28/1975

Participating= No **LURC:** No **Ordinance Date:**

Total No. NFIP Policies= ND **No. Claims Since 1978=** ND **All LOMCs:** 0

James Collins 207-848-3361
Town Manager
Town of Carmel
PO Box 114
Carmel ME 04419

Stewart Brooks, CEO 207-285-3446
PO Box 18
Corinth ME 04427

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

Carroll PLT

CID 230461 Community Profile

Map Type: Unnumbered A-zone **Current FIRM/FIS Map Date:** 8/19/1985

Participating= Yes **LURC:** No **Ordinance Date:**

Total No. NFIP Policies= ND **No. Claims Since 1978=** ND **All LOMCs:** 0

Anita Duerr 207-738-4841
Selectmen
Carroll Plantation
306 Osgood Rd.
Carroll Plt ME 04487

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

Charleston, Town of

CID 230376 Community Profile

Map Type: Unnumbered A-zone **Current FIRM/FIS Map Date:** 2/21/1975

Participating= No **LURC:** No **Ordinance Date:**

Total No. NFIP Policies= ND **No. Claims Since 1978=** ND **All LOMCs:** 0

Barbara Crider 207-285-3637
Selectmen
Town of Charleston
PO Box 120
Charleston ME 04422

Stewart Brooks, CEO 207-285-3446
PO Box 18
Corinth ME 04427

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

Chester, Town of

CID 230377 Community Profile

Map Type: Unnumbered A-zone **Current FIRM/FIS Map Date:** 2/4/1987
Participating= Yes **LURC:** No **Ordinance Date:** 4/15/1987
Total No. NFIP Policies= 3 **No. Claims Since 1978=** 0 **All LOMCs:** 0

Fred Todd
Manager
Land Use Regulatory Commission
SHS 22
Augusta ME 04333

Michael Noble, CEO 207-794-3372
871 Enfield Rd.
Lincoln ME 04457

Best Available Data: Penobscot River Bfe per 9/87 FIS for Lincoln

Mapping Status:

Mapping Needs:

ND, No Data

Clifton, Town of

CID 230378 Community Profile

Map Type: No Floodways **Current FIRM/FIS Map Date:** 5/2/1994

Participating=Yes **LURC:** No **Ordinance Date:** 3/19/1994

Total No. NFIP Policies=2 **No. Claims Since 1978=** 0 **All LOMCs:** 3

Janice Tutt 207-843-0709
Selectmen
Town of Clifton
135 Airline Rd.
Clifton ME 04428

Richard Leavitt, CEO 207-843-0709
RR 3, Box 1910
Dedham ME 04429

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

Corinna, Town of

CID 230397 Community Profile

Map Type: Unnumbered A-zone **Current FIRM/FIS Map Date:** 9/18/1985
Participating=Yes **LURC:** No **Ordinance Date:** 3/11/2000
Total No. NFIP Policies=1 **No. Claims Since 1978=** 2 **All LOMCs:** 1

Dalton Mullis 207-278-4183
Town Manager
Town of Corinna
8 Levi Stewart Dr.
Corinna ME 04928

Dalton Mullis, CEO 207-278-4183
8 Levi Stewart Dr.
Corinna ME 04928

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

Corinth, Town of

CID 230380 Community Profile

Map Type: Unnumbered A-zone **Current FIRM/FIS Map Date:** 7/1/1991
Participating=Yes **LURC:** No **Ordinance Date:** 3/12/1991
Total No. NFIP Policies=ND **No. Claims Since 1978=** ND **All LOMCs:** 0

Donald Strout 207-285-3271
Town Manager
Town of Corinth
PO Box 309
Corinth ME 04427

Michael Polyot, CEO 207-285-3271
PO Box 5
Cornith ME 04427

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

Dexter, Town of

CID 230105 Community Profile

Map Type: No Floodways **Current FIRM/FIS Map Date:** 7/16/1990
Participating=Yes **LURC:** No **Ordinance Date:** 5/3/1990
Total No. NFIP Policies=8 **No. Claims Since 1978=** 1 **All LOMCs:** 1

Judith Doore 207-924-7351
Town Manager
Town of Dexter
23 Main St.
Dexter ME 04930

David Pearson, CEO 207-924-5035
230 Silvers Mills Rd
Dexter 04930

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

Dixmont, Town of

CID 230381 Community Profile

Map Type: Unnumbered A-zone **Current FIRM/FIS Map Date:** 2/4/1987
Participating=Yes **LURC:** No **Ordinance Date:** 3/21/1987
Total No. NFIP Policies=2 **No. Claims Since 1978=** 0 **All LOMCs:** 2

John Olsen 207-234-2043
Selectmen
Town of Dixmont
PO Box 100
Dixmont ME 04932

Randolph Hall, CEO 207-234-4006
RR 1, Box 1760, So Rd.
Dixmont ME 04932

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

Drew PLT

CID 230479 Community Profile

Map Type: **Current FIRM/FIS Map Date:**

Participating= Yes **LURC:** No **Ordinance Date:**

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

Kathy Stinson 207-456-7017
Selectmen
Drew Plantation
PO Box 62
Wytopitlock ME 04497

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

East Millinocket, Town of

CID 230163 Community Profile

Map Type: Unnumbered A-zone **Current FIRM/FIS Map Date:** 2/4/1987
Participating=Yes **LURC:** No **Ordinance Date:** 5/24/1994
Total No. NFIP Policies=0 **No. Claims Since 1978=** 6 **All LOMCs:** 0

Shirley Tapley 207-746-3376
Selectmen
Town of East Millinocket
53 Main St.
E. Millinocket ME 04430

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

Eddington, Town of

CID 230382 Community Profile

Map Type: Floodways **Current FIRM/FIS Map Date:** 7/3/1978

Participating=Yes **LURC:** No **Ordinance Date:** 3/23/1993

Total No. NFIP Policies=2 **No. Claims Since 1978=** 1 **All LOMCs:** 0

Russell Smith 207-843-5233
Town Manager
Town of Eddington
906 Main Rd.
Eddington ME 04428

Charles Norburg, CEO 207-827-7725
PO Box 168
Milford ME 04461

Best Available Data:

Mapping Status:

Mapping Needs: see letter from town dated 7/21/99

ND, No Data

Edinburg, Town of

CID 230383 Community Profile

Map Type: **Current FIRM/FIS Map Date:**

Participating=Yes **LURC:** No **Ordinance Date:** 4/18/1994

Total No. NFIP Policies=ND **No. Claims Since 1978=** ND **All LOMCs:** 0

Reginald Theriault 207-732-3136
Selectmen
Town of Edinburg
HC 66 Box 180
Edinburg ME 04448

Theresa Thurlow, CEO 207-732-3985
HC 67, Box 78
Enfield ME 04433

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

Enfield, Town of

CID 230384 Community Profile

Map Type: Floodways **Current FIRM/FIS Map Date:** 5/15/1991

Participating=Yes **LURC:** No **Ordinance Date:** 5/6/1991

Total No. NFIP Policies=11 **No. Claims Since 1978=** 3 **All LOMCs:** 8

Theresa Thurlow 207-732-4270
Town Manager
Town of Enfield
789 Hammett Rd.
Enfield ME 04493

Theresa Thurlow, CEO 207-732-3985
HC 67, Box 78
Enfield ME 04433

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

Etna, Town of

CID 230385 Community Profile

Map Type: Unnumbered A-zone **Current FIRM/FIS Map Date:** 1/17/1975
Participating=Yes **LURC:** No **Ordinance Date:** 4/26/1976
Total No. NFIP Policies=ND **No. Claims Since 1978=** ND **All LOMCs:** 0

Evelyn Serval 207-269-3551
Town Manager
Town of Etna
PO Box G
Etna ME 04434

Randolph Hall, CEO 207-234-4006
RR 1, Box 1760, So Rd.
Dixmont ME 04932

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

Exeter, Town of

CID 230386 Community Profile

Map Type: Unnumbered A-zone **Current FIRM/FIS Map Date:** 2/21/1975
Participating= No **LURC:** No **Ordinance Date:** 3/25/2002
Total No. NFIP Policies= ND **No. Claims Since 1978=** ND **All LOMCs:** 0

Tressa Gudroe 207-379-2191
Town Manager
Town of Exeter
PO Box 59
Exeter ME 04435

Dalton Mullis, CEO 207-278-4183
8 Levi Stewart Dr.
Corinna ME 04928

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

Garland, Town of

CID 230387 Community Profile

Map Type: Unnumbered A-zone **Current FIRM/FIS Map Date:** 9/18/1985
Participating=Yes **LURC:** No **Ordinance Date:** 3/14/1987
Total No. NFIP Policies=1 **No. Claims Since 1978=** 0 **All LOMCs:** 0

Pamela Hesketh 207-924-6615
Selectmen
Town of Garland
PO Box 36
Garland ME 04939

Travis Gould, CEO 207-277-5344
211 North Rd.
Ripley ME 04930

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

Glenburn, Town of

CID 230106 Community Profile

Map Type: Floodways **Current FIRM/FIS Map Date:** 8/16/1993

Participating=Yes **LURC:** No **Ordinance Date:** 12/1/1993

Total No. NFIP Policies=27 **No. Claims Since 1978=** 11 **All LOMCs:** 8

Carl Betterley 207-942-2905
Town Manager
Town of Glenburn
144 Lakeview Rd.
Glenburn ME 04401

Richard Watson, CEO 207-223-5055
17 Old Fairground Dr.
Orrington ME 04474

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

Grand Falls PLT

CID 230608 Community Profile

Map Type: **Current FIRM/FIS Map Date:**

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

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

Greenbush, Town of

CID 230107 Community Profile

Map Type: No Floodways **Current FIRM/FIS Map Date:** 9/4/1987
Participating=Yes **LURC:** No **Ordinance Date:** 6/15/1994
Total No. NFIP Policies=13 **No. Claims Since 1978=** 4 **All LOMCs:** 1

Robert Littlefield 207-826-2050
Town Manager
Town of Greenbush
PO Box 210
Olamon ME 04467

Richard Fish, CEO 207-827-8382
262 Greenfield Rd.
Greenbush ME 04418

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

Greenfield, Town of

CID 230388 Community Profile

Map Type: Unnumbered A-zone **Current FIRM/FIS Map Date:** 2/21/1975

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

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

Grindstone TWP, T1 R7 WELS

CID 230612 Community Profile

Map Type: **Current FIRM/FIS Map Date:**

Participating= Yes **LURC:** No **Ordinance Date:**

Total No. NFIP Policies= 4 **No. Claims Since 1978=** 12 **All LOMCs:** 0

Fred Todd
Manager
Land Use Regulatory Commission
SHS 22
Augusta ME 04333

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

Hampden, Town of

CID 230168 Community Profile

Map Type: Floodways **Current FIRM/FIS Map Date:** 9/4/1987

Participating=Yes **LURC:** No **Ordinance Date:** 5/17/2004

Total No. NFIP Policies=13 **No. Claims Since 1978=** 3 **All LOMCs:** 1

Susan Lessard 207-862-3034
Town Manager
Town of Hampden
106 Western Ave.
Hampden ME 04444

Benjamin Johnson, CEO 207-862-3034
106 Western Ave.
Hampden ME 04444

Best Available Data: Dam removal in 1999 on Souadabscook Stream changed BFEs. - NRCS did report.

Mapping Status:

Mapping Needs: Hampden Dam (Grist Mill Dam) removed on Souadabscook Stream in 1999. New data from NRCS provided to Reg I but no LOMR ever done. 2002 LOMR for Penobscot River as a result of Bangor restudy.

ND, No Data

Hermon, Town of

CID 230389 Community Profile

Map Type: Unnumbered A-zone **Current FIRM/FIS Map Date:** 9/27/1985
Participating=Yes **LURC:** No **Ordinance Date:** 1/25/1995
Total No. NFIP Policies=5 **No. Claims Since 1978=** 3 **All LOMCs:** 3

Clinton Deschene 207-848-3485
Town Manager
Town of Hermon
PO Box 6300
Hermon ME 04402

Annette Merrithew, CEO 207-368-7779
79 Tyler St.
Newport ME 04953

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

Herseytown TWP, T2 R6 WELS

CID 230613 Community Profile

Map Type: **Current FIRM/FIS Map Date:**

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

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

Holden, Town of

CID 230390 Community Profile

Map Type: No Floodways **Current FIRM/FIS Map Date:** 7/3/1995

Participating=Yes **LURC:** No **Ordinance Date:** 6/15/1992

Total No. NFIP Policies=3 **No. Claims Since 1978=** 0 **All LOMCs:** 0

Larry Varisco 207-843-5151
Town Manager
Town of Holden
570 Main Rd.
Holden ME 04429

Stephen Condon, CEO 207-843-5151
570 Main Rd.
Holden ME 04429

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

Hopkins Academy Grant East TWP

CID 230836 Community Profile

Map Type: **Current FIRM/FIS Map Date:**

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

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

Hopkins Academy Grant West TWP

CID 230837 Community Profile

Map Type: **Current FIRM/FIS Map Date:**

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

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

Howland, Town of

CID 230391 Community Profile

Map Type: Floodways **Current FIRM/FIS Map Date:** 5/20/1996

Participating= Yes **LURC:** No **Ordinance Date:** 9/19/2005

Total No. NFIP Policies= 29 **No. Claims Since 1978=** 5 **All LOMCs:** 0

Glenna Armour 207-732-3513
Town Manager
Town of Howland
PO Box 386
Howland ME 04448

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

Hudson, Town of

CID 230392 Community Profile

Map Type: No Floodways **Current FIRM/FIS Map Date:** 4/17/1987
Participating=Yes **LURC:** No **Ordinance Date:** 3/21/1987
Total No. NFIP Policies=19 **No. Claims Since 1978=** 2 **All LOMCs:** 0

Pamela Griffith 207-327-1284
Selectmen
Town of Hudson
2334 Hudson Rd.
Hudson ME 04449

Dalton Mullis, CEO 207-278-4183
8 Levi Stewart Dr.
Corinna ME 04928

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

Indian Island

CID 230919 Community Profile

Map Type: **Current FIRM/FIS Map Date:**

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

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

Indian Purchase 3 TWP

CID 230614 Community Profile

Map Type: **Current FIRM/FIS Map Date:**

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

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

Indian Purchase 4 TWP

CID 230615 Community Profile

Map Type: **Current FIRM/FIS Map Date:**

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

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

Kenduskeag, Town of

CID 230108 Community Profile

Map Type: Unnumbered A-zone **Current FIRM/FIS Map Date:** 9/18/1985
Participating= Yes **LURC:** No **Ordinance Date:** 12/28/2004
Total No. NFIP Policies= 6 **No. Claims Since 1978=** 1 **All LOMCs:** 0

Sandra Burke 207-884-7947
Selectmen
Town of Kenduskeag
PO Box 308
Kenduskeag ME 04450

Stewart Brooks, CEO 207-285-3446
PO Box 18
Corinth ME 04427

Best Available Data: Entire length of Kenduskeag Stream, Piper Brook, and Partridge Brook, Town of Kenduskeag Floodplain Management Study, NRCS, 5/00

Mapping Status:

Mapping Needs: Make '00-'01 request to FEMA for an XDS

ND, No Data

Kingman TWP

CID 230474 Community Profile

Map Type: Unnumbered A-zone **Current FIRM/FIS Map Date:** 1/17/1985

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

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

Lagrange, Town of

CID 230393 Community Profile

Map Type: Unnumbered A-zone **Current FIRM/FIS Map Date:** 2/28/1976

Participating= No **LURC:** No **Ordinance Date:**

Total No. NFIP Policies= ND **No. Claims Since 1978=** ND **All LOMCs:** 0

Joseph Poirier 207-943-2085
Selectmen
Town of LaGrange
PO Box 40
LaGrange ME 04453

Dwight Tilton, CEO 207-732-3164
61 Dodlin Rd. Ext.
Enfield ME 04493

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

Lakeville, Town of

CID 230609 Community Profile

Map Type: **Current FIRM/FIS Map Date:**

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

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

Lee, Town of

CID 230394 Community Profile

Map Type: Unnumbered A-zone **Current FIRM/FIS Map Date:** 9/18/1985
Participating=Yes **LURC:** No **Ordinance Date:** 3/16/1987
Total No. NFIP Policies=ND **No. Claims Since 1978=** ND **All LOMCs:** 0

Kirk Ritchie 207-738-2134
Selectmen
Town of Lee
29 Winn Rd.
Lee ME 04455

Dwight Tilton, CEO 207-732-3164
61 Dodlin Rd. Ext.
Enfield ME 04493

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

Levant, Town of

CID 230912 Community Profile

Map Type: Unnumbered A-zone **Current FIRM/FIS Map Date:** 7/1/1991

Participating= Yes **LURC:** No **Ordinance Date:** 6/26/1999

Total No. NFIP Policies= 2 **No. Claims Since 1978=** 0 **All LOMCs:** 5

Scott Pullen 207-884-7660
Town Manager
Town of Levant
PO Box 220
Levant ME 04456

John Ellis, Sr., CEO 207-947-2781
8 Smith Lane
Levant 04456

Best Available Data: Black Stream Tributary FEMA-LOMR 10/23/91

Mapping Status:

Mapping Needs: FHBM has inaccurate floodplain boundaries. Lots of dev. pressure - many GTA calls. Culvert upgrades.

ND, No Data

Lincoln, Town of

CID 230109 Community Profile

Map Type: No Floodways **Current FIRM/FIS Map Date:** 9/18/1987
Participating= Yes **LURC:** No **Ordinance Date:** 4/17/2001
Total No. NFIP Policies= 11 **No. Claims Since 1978=** 1 **All LOMCs:** 9

Glenn Aho 207-794-3372
Town Manager
Town of Lincoln
63 Main St.
Lincoln ME 04457

Jerry Davis, CEO 207-794-3372
184 Transalpine Rd.
Lincoln ME 04457

Best Available Data: Cold Stream Pond: Bfe 191.9' (Enfield FIS 5/15/91)

Mapping Status:

Mapping Needs:

ND, No Data

Long A TWP, TA R8 & R9 WELS

CID 230616 Community Profile

Map Type: **Current FIRM/FIS Map Date:**

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

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

Lowell, Town of

CID 230395 Community Profile

Map Type: Unnumbered A-zone **Current FIRM/FIS Map Date:** 2/21/1975
Participating=Yes **LURC:** No **Ordinance Date:** 12/9/1991
Total No. NFIP Policies=1 **No. Claims Since 1978=** 0 **All LOMCs:** 5

Fred Todd
Manager
Land Use Regulatory Commission
SHS 22
Augusta ME 04333

Dwight Tilton, CEO 207-732-3164
61 Dodlin Rd. Ext.
Enfield ME 04493

Best Available Data: Cold Stream Pond: Bfe 191.9' (Enfield FIS 5/15/91)

Mapping Status:

Mapping Needs:

ND, No Data

Mattamiscontis TWP, T1 R7 NWP

CID 230617 Community Profile

Map Type: **Current FIRM/FIS Map Date:**

Participating= Yes **LURC:** No **Ordinance Date:**

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

Fred Todd
Manager
Land Use Regulatory Commission
SHS 22
Augusta ME 04333

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

Mattawamkeag, Town of

CID 230174 Community Profile

Map Type: No Floodways **Current FIRM/FIS Map Date:** 5/4/1988
Participating=Yes **LURC:** No **Ordinance Date:** 7/31/1995
Total No. NFIP Policies=2 **No. Claims Since 1978=** 3 **All LOMCs:** 3

John Whitehouse 207-736-2464
Selectmen
Town of Mattawamkeag
PO Box 260
Mattawamkeag ME 04459

Dwight Tilton, CEO 207-732-3164
61 Dodlin Rd. Ext.
Enfield ME 04493

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

Maxfield, Town of

CID 230396 Community Profile

Map Type: Unnumbered A-zone **Current FIRM/FIS Map Date:** 11/15/1985
Participating=Yes **LURC:** No **Ordinance Date:** 4/11/1987
Total No. NFIP Policies=2 **No. Claims Since 1978=** 0 **All LOMCs:** 0

Maurice Knowles 207-732-5639
Selectmen
Town of Maxfield
231 River Rd.
Maxfield ME 04453

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

Medway, Town of

CID 230175 Community Profile

Map Type: No Floodways **Current FIRM/FIS Map Date:** 9/30/1987
Participating=Yes **LURC:** No **Ordinance Date:** 6/28/1988
Total No. NFIP Policies=9 **No. Claims Since 1978=** 22 **All LOMCs:** 0

Katherine Lee 207-746-9532
Selectmen
Town of Medway
HC 86 Box 320
Medway ME 04460

Michael Noble, CEO 207-794-3372
871 Enfield Rd.
Lincoln ME 04457

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

Milford, Town of

CID 230110 Community Profile

Map Type: Floodways **Current FIRM/FIS Map Date:** 4/17/1978

Participating=Yes **LURC:** No **Ordinance Date:** 7/1/1998

Total No. NFIP Policies=29 **No. Claims Since 1978=** 44 **All LOMCs:** 0

James Hancock 207-827-2072
Town Manager
Town of Milford
PO Box 336
Milford ME 04461

William Carpenter, CEO 207-827-2250
25 Nickerson Ln
Milford ME 04461

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

Millinocket, Town of

CID 230111 Community Profile

Map Type: No Floodways **Current FIRM/FIS Map Date:** 12/5/1989

Participating=Yes **LURC:** No **Ordinance Date:** 12/21/1989

Total No. NFIP Policies=3 **No. Claims Since 1978=** 7 **All LOMCs:** 0

Eugene Conlogue 207-723-7000
Town Manager
Town of Millinocket
197 Penobscot Ave.
Millinocket ME 04462

Michael Noble, CEO 207-794-3372
871 Enfield Rd.
Lincoln ME 04457

Best Available Data:

Mapping Status: D&D will look at for XDS projects in '97/'98. Corp. boundary. [6/99 - corporate boundary needs to be extended to the east!!]

Mapping Needs:

ND, No Data

Mount Chase Town

CID 230462 Community Profile

Map Type: Unnumbered A-zone **Current FIRM/FIS Map Date:** 9/18/1985
Participating=Yes **LURC:** No **Ordinance Date:** 5/29/1987
Total No. NFIP Policies=1 **No. Claims Since 1978=** 0 **All LOMCs:** 0

Fred Todd
Manager
Land Use Regulatory Commission
SHS 22
Augusta ME 04333

Best Available Data: Lower Shin Pond: Bfe 74' (LURC permitting process 4/99)

Mapping Status:

Mapping Needs:

ND, No Data

Newburgh, Town of

CID 230379 Community Profile

Map Type: Unnumbered A-zone **Current FIRM/FIS Map Date:** 12/4/1985

Participating= Sus **LURC:** No **Ordinance Date:**

Total No. NFIP Policies= ND **No. Claims Since 1978=** ND **All LOMCs:** 0

Nancy Hatch 207-234-2490
Town Manager
Town of Newburgh
2660 Western Ave.
Newburgh ME 04444

Stewart Brooks, CEO 207-285-3446
PO Box 18
Corinth ME 04427

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

Newport, Town of

CID 230398 Community Profile

Map Type: Unnumbered A-zone **Current FIRM/FIS Map Date:** 9/18/1985
Participating=Yes **LURC:** No **Ordinance Date:** 3/6/2004
Total No. NFIP Policies=11 **No. Claims Since 1978=** 0 **All LOMCs:** 3

James Ricker 207-368-4410
Town Manager
Town of Newport
23 Water St.
Newport ME 04953

Fred Hickey, CEO 207-368-5575
590 Stetson Rd.
Newport ME 04953

Best Available Data: Sebasticook Lake: Bfe 203' (ACE 12/86)

Mapping Status:

Mapping Needs:

ND, No Data

Old Town, City of

CID 230112 Community Profile

Map Type: Floodways **Current FIRM/FIS Map Date:** 4/17/1978

Participating=Yes **LURC:** No **Ordinance Date:** 2/7/2005

Total No. NFIP Policies=48 **No. Claims Since 1978=** 13 **All LOMCs:** 10

Margaret Daigle 207-827-3965
City Manager
City of Old Town
150 Brunswick St.
Old Town ME 04468

Charles Heinonen, CEO 207-827-3981
150 Brunswick St.
Old Town ME 04468

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

Orono, Town of

CID 230113 Community Profile

Map Type: Floodways **Current FIRM/FIS Map Date:** 7/3/1978

Participating=Yes **LURC:** No **Ordinance Date:** 6/9/1997

Total No. NFIP Policies=23 **No. Claims Since 1978=** 11 **All LOMCs:** 2

Catherine Conlow 207-866-2556
Town Manager
Town of Orono
PO Box 130
Orono ME 04473

John Robichaud, CEO 207-866-5051
PO Box 130
Orono ME 04473

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

Orrington, Town of

CID 230180 Community Profile

Map Type: Floodways **Current FIRM/FIS Map Date:** 7/17/2002

Participating=Yes **LURC:** No **Ordinance Date:** 6/3/2002

Total No. NFIP Policies=2 **No. Claims Since 1978=** 0 **All LOMCs:** 7

Dexter Johnson 207-825-3340
Town Manager
Town of Orrington
PO Box 159
Orrington ME 04474

Richard Harriman, CEO 207-825-3340
PO Box 159
Orrington ME 04474

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

Passadumkeag, Town of

CID 230114 Community Profile

Map Type: No Floodways **Current FIRM/FIS Map Date:** 5/17/1988
Participating= Yes **LURC:** No **Ordinance Date:** 5/17/1988
Total No. NFIP Policies= 26 **No. Claims Since 1978=** 6 **All LOMCs:** 1

Dale Randall 207-732-4205
Selectmen
Town of Passadumkeag
PO Box 9
Passadumkeag ME 04475

Richard Fish, CEO 207-827-8382
262 Greenfield Rd.
Greenbush ME 04418

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

Patten, Town of

CID 230115 Community Profile

Map Type: Unnumbered A-zone **Current FIRM/FIS Map Date:** 9/18/1985
Participating=Yes **LURC:** No **Ordinance Date:** 5/11/1987
Total No. NFIP Policies=2 **No. Claims Since 1978=** 0 **All LOMCs:** 0

Rhonda Harvey 207-528-2215
Town Manager
Town of Patten
PO Box 260
Patten ME 04765

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

Plymouth, Town of

CID 230399 Community Profile

Map Type: Unnumbered A-zone **Current FIRM/FIS Map Date:** 7/1/1991
Participating=Yes **LURC:** No **Ordinance Date:** 7/1/1991
Total No. NFIP Policies=7 **No. Claims Since 1978=** 0 **All LOMCs:** 0

Wade Richardson 207-257-4646
Selectmen
Town of Plymouth
PO Box 130
Plymouth ME 04969

Randolph Hall, CEO 207-234-4006
RR 1, Box 1760, So Rd.
Dixmont ME 04932

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

Prentiss PLT

CID 230463 Community Profile

Map Type: Unnumbered A-zone **Current FIRM/FIS Map Date:** 8/19/1985

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

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

Seboeis PLT

CID 230610 Community Profile

Map Type: **Current FIRM/FIS Map Date:**

Participating= Yes **LURC:** No **Ordinance Date:**

Total No. NFIP Policies= ND **No. Claims Since 1978=** ND **All LOMCs:** 0

Marc Sisco 207-732-6111
Selectmen
Seboeis Plantation
1134 Seboeis Rd.
Seboeis Plt ME 04448

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

Soldiertown TWP, T2 R7 WELS

CID 230618 Community Profile

Map Type: **Current FIRM/FIS Map Date:**

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

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

Springfield, Town of

CID 230400 Community Profile

Map Type: Unnumbered A-zone **Current FIRM/FIS Map Date:** 1/24/1975

Participating= N **LURC:** No **Ordinance Date:**

Total No. NFIP Policies= ND **No. Claims Since 1978=** ND **All LOMCs:** 0

Lorna Thompson 207-738-2176
Selectmen
Town of Springfield
PO Box 12
Springfield ME 04487

Richard Fish, CEO 207-827-8382
262 Greenfield Rd.
Greenbush ME 04418

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

Stacyville, Town of

CID 230401 Community Profile

Map Type: Unnumbered A-zone **Current FIRM/FIS Map Date:** 9/18/1985
Participating=Yes **LURC:** No **Ordinance Date:** 6/10/1987
Total No. NFIP Policies=2 **No. Claims Since 1978=** 4 **All LOMCs:** 0

Mary Anne Guiggey 207-365-4195
Town Manager
Town of Stacyville
PO Box 116
Stacyville ME 04777

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

Stetson, Town of

CID 230402 Community Profile

Map Type: No Floodways **Current FIRM/FIS Map Date:** 8/19/1991
Participating=Yes **LURC:** No **Ordinance Date:** 5/16/1992
Total No. NFIP Policies=4 **No. Claims Since 1978=** 0 **All LOMCs:** 2

Donald Carroll 207-296-3232
Selectmen
Town of Stetson
PO Box 85
Stetson ME 04488

Dalton Mullis, CEO 207-278-4183
8 Levi Stewart Dr.
Corinna ME 04928

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

Summit TWP, T01 ND

CID 230838 Community Profile

Map Type: **Current FIRM/FIS Map Date:**

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

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

T01 R06 WELS

CID 230620 Community Profile

Map Type: **Current FIRM/FIS Map Date:**

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

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

T01 R08 WELS

CID 230840 Community Profile

Map Type: **Current FIRM/FIS Map Date:**

Participating=Yes **LURC:** No **Ordinance Date:**

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

Fred Todd
Manager
Land Use Regulatory Commission
SHS 22
Augusta ME 04333

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

T02 R08 NWP

CID 230621 Community Profile

Map Type: **Current FIRM/FIS Map Date:**

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

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

T02 R08 WELS

CID 230622 Community Profile

Map Type: **Current FIRM/FIS Map Date:**

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

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

T02 R09 NWP

CID 230623 Community Profile

Map Type: **Current FIRM/FIS Map Date:**

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

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

T03 R01 NBPP

CID 230841 Community Profile

Map Type: **Current FIRM/FIS Map Date:**

Participating= Yes **LURC:** No **Ordinance Date:**

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

Fred Todd
Manager
Land Use Regulatory Commission
SHS 22
Augusta ME 04333

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

T03 R07 WELS

CID 230624 Community Profile

Map Type: **Current FIRM/FIS Map Date:**

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

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

T03 R08 WELS

CID 230625 Community Profile

Map Type: **Current FIRM/FIS Map Date:**

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

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

T03 R09 NWP

CID 230842 Community Profile

Map Type: **Current FIRM/FIS Map Date:**

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

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

T04 R07 WELS

CID 230626 Community Profile

Map Type: **Current FIRM/FIS Map Date:**

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

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

T04 R08 WELS

CID 230843 Community Profile

Map Type: **Current FIRM/FIS Map Date:**

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

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

T05 R01 NBPP

CID 230844 Community Profile

Map Type: **Current FIRM/FIS Map Date:**

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

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

T05 R07 WELS

CID 230845 Community Profile

Map Type: **Current FIRM/FIS Map Date:**

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

Best Available Data: Lower Shin Pond: Bfe of 76.5' based on estimated high water from MDOT notes of 11/15/37. Information from LURC 2/24/99.

Mapping Status:

Mapping Needs:

ND, No Data

T05 R08 WELS

CID 230627 Community Profile

Map Type: **Current FIRM/FIS Map Date:**

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

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

T06 R06 WELS

CID 230628 Community Profile

Map Type: **Current FIRM/FIS Map Date:**

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

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

T06 R07 WELS

CID 230629 Community Profile

Map Type: **Current FIRM/FIS Map Date:**

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

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

T06 R08 WELS

CID 230630 Community Profile

Map Type: **Current FIRM/FIS Map Date:**

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

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

T07 R06 WELS

CID 230846 Community Profile

Map Type: **Current FIRM/FIS Map Date:**

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

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

T07 R07 WELS

CID 230847 Community Profile

Map Type: **Current FIRM/FIS Map Date:**

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

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

T07 R08 WELS

CID 230848 Community Profile

Map Type: **Current FIRM/FIS Map Date:**

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

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

T08 R06 WELS

CID 230849 Community Profile

Map Type: **Current FIRM/FIS Map Date:**

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

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

T08 R07 WELS

CID 230850 Community Profile

Map Type: **Current FIRM/FIS Map Date:**

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

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

T08 R08 WELS

CID 230851 Community Profile

Map Type: **Current FIRM/FIS Map Date:**

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

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

TA R07 WELS

CID 230619 Community Profile

Map Type: **Current FIRM/FIS Map Date:**

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

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

Veazie Gore TWP

CID 230839 Community Profile

Map Type: **Current FIRM/FIS Map Date:**

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

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

Veazie, Town of

CID 230403 Community Profile

Map Type: Floodways **Current FIRM/FIS Map Date:** 5/1/1978

Participating=Yes **LURC:** No **Ordinance Date:** 3/22/1999

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

William Reed 207-947-2781
Town Manager
Town of Veazie
1084 Main St.
Veazie ME 04401

Allan Thomas, CEO 207-947-2781
1084 Main St.
Veazie ME 04401

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

Webster PLT

CID 230611 Community Profile

Map Type: **Current FIRM/FIS Map Date:**

Participating= Yes **LURC:** No **Ordinance Date:**

Total No. NFIP Policies= ND **No. Claims Since 1978=** ND **All LOMCs:** 0

Robin Jipson 207-765-3034
Selectmen
Webster Plantation
520 Tucker Ridge Rd.
Webster Plt ME 04487

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

Winn, Town of

CID 230404 Community Profile

Map Type: Unnumbered A-zone **Current FIRM/FIS Map Date:** 1/24/1975
Participating=Yes **LURC:** No **Ordinance Date:** 10/30/1991
Total No. NFIP Policies=2 **No. Claims Since 1978=** 0 **All LOMCs:** 2

Mary Twist 207-736-7111
Selectmen
Town of Winn
PO Box 98
Winn ME 04495

Dwight Tilton, CEO 207-732-3164
61 Dodlin Rd. Ext.
Enfield ME 04493

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

Woodville, Town of

CID 230405 Community Profile

Map Type: **Current FIRM/FIS Map Date:**

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

Michael Noble, CEO 207-794-3372
871 Enfield Rd.
Lincoln ME 04457

Best Available Data:

Mapping Status:

Mapping Needs:

ND, No Data

Appendix B: Community Scoping Interview Data: Penobscot County

SCOPING INTERVIEW DATA FOR: **Alton**

CID: 230101 **Council Govt:** **Annual Town Meeting Date:**
Town Govt: Last Saturday March

Community Representative Interviewed
Mr. Fish
Outside contractor, plumbing insp
Email: **Tel:** (207) 827-8382 **Fax:**
Floodplain Management Community Contact (if different from above)
Address: 262 Greenfield Rd, Greenbush, ME, 04418

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)?
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 (if so, provide contact information)?
No

Notes
Mr Fish keeps a record of high water marks at lakes/ponds in his towns. Mr. Fish indicated no need for updates to any maps.

Please note that upon further inspection of the Q3 data on top of the

SCOPING INTERVIEW DATA FOR: **Bangor**

CID: 230102 **Council Govt:** **Annual Town Meeting Date:**
Town Govt:

Community Representative Interviewed
Dan Wellington
CEO
Email: dan.wellington@bangormaine.gov **Tel:** (207) 992-4430 **Fax:** (207) 992-4196
Floodplain Management Community Contact (if different from above)
Jermy Martin

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. Penjajawoc Brook and Meadow Brook; probably OK in the area of the mall, but development pressure at upstream and downstream ends. Unnamed Brook near Nadine's Way on town line with Hampden. Unnamed Brook near Stillwater Avenue.

Do you have specific areas that flood (1% chance) but are not mapped in the floodplain?
Yes. Molly Lane wetland; needed to add 2 feet to sewer access points, maybe from parking areas. Birch Stream (needs BFE) and Shaw Brook (needs BFE).

Note any significant changes in hydraulic structures (bridges, culverts, dams)
Yes. Veazie dam removal may be a ice jam flooding problem.

Do you have (or are you proposing) high-development areas where you need new or restudied flood elevations or improved map scale?
Yes. Meadow Brook area.

Community Resources
Do you have aerial photography (or plans for any) (flight date, scale, color/bw)?
Yes. Some mapping 1987 with topo and 2001 aerial photography.

Do you have any topographic data (or plans for collecting) (digital terrain, contour maps)?
Yes. 1987 vintage.

Do you have any data related to hydrologic/hydraulic studies (or plans for such studies)?
Yes. Some info may be available from Wal-mart and Airport area.

Do you have dedicated GIS capabilities (if so, provide contact information)?
Limited? Contact is Mark Ward.

Notes
#1 priorities: Penjajawok, Meadow, 2 unnamed brooks. Birch Stream. #2 priority: Molly Lane Wetland. #3 priorities: Unnamed brook near Hampden, Shaw Brook.

Penjajawok was redone recently but the upstream end was not far enough and

SCOPING INTERVIEW DATA FOR: **Bradford**

CID: 230373 **Council Govt:** **Annual Town Meeting Date:**
Town Govt: 3rd Saturday March

Community Representative Interviewed
Mr. Fish
Outside contractor, plumbing insp
Email: **Tel:** (207) 827-8382 **Fax:**
Floodplain Management Community Contact (if different from above)
Address is 262 Greenfield Road, Greenbush, ME, 04418

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)?
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 (if so, provide contact information)?
No

Notes
Mr Fish keeps a record of high water marks at lakes/ponds in his towns. Mr. Fish indicated no need for updates to any maps.

Please note that upon further inspection of the Q3 data on top of the

SCOPING INTERVIEW DATA FOR: **Bradley**

CID: 230103 **Council Govt:** **Annual Town Meeting Date:**
Town Govt: June

Community Representative Interviewed
Melissa Doane
Town Manager
Email: **Tel:** (207) 827-7725 **Fax:**
Floodplain Management Community Contact (if different from above)
Charles Norberg, CEO (also attended)

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. Number 16 swamp.

Do you have specific areas that flood (1% chance) but are not mapped in the floodplain?
Yes. Eastern side of town. Unnamed brook, see map.

Note any significant changes in hydraulic structures (bridges, culverts, dams)
Yes. Dam removal on Penobscot.

Do you have (or are you proposing) high-development areas where you need new or restudied flood elevations or improved map scale?
Yes. Number 16 swamp.

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 (if so, provide contact information)?
No

Notes
Priorities marked on map?

SCOPING INTERVIEW DATA FOR: **Brewer**

CID: 230104 **Council Govt:** **Annual Town Meeting Date:**
Town Govt:

Community Representative Interviewed
Linda Johns, David Russell
Planner, CEO
Email: drussell@brewerme.org **Tel:** (207) 989-7790 **Fax:** (207) 989-8052
Floodplain Management Community Contact (if different from above)
David Russell

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. Penobscot R upst from removed Bangor Dam. Day Road along Eaton Brook. Some of Penobscot R downst from removed Bangor Dam.

Do you have specific areas that flood (1% chance) but are not mapped in the floodplain?
Yes. Source area of Felts Bk near Wilson St. Wetland area along Green Pt Rd Wiswell Rd (part of Felts Bk drainage). Maybe some of Penobscot R downst from removed Bangor Dam.

Note any significant changes in hydraulic structures (bridges, culverts, dams)
Yes. Concrete dam on Sedgeunkedunk Stream will be opened in spring 2007, planned removal by 2008. All of Penobscot R affected by removal of Bangor Dam. Some of Penobscot R downst of removed Bangor Dam may also have been affected by I-395 bridge (erosion issues at WWTP).

Do you have (or are you proposing) high-development areas where you need new or restudied flood elevations or improved map scale?
Yes. Day and Lambert Rds near Eaton Bk. Middle and upper reaches of Felts Bk.

Community Resources
Do you have aerial photography (or plans for any) (flight date, scale, color/bw)?
Yes. Aerial photography, B & W, most recent 2004, done every couple years.

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)?
Maybe from the habitat program or studies of major wetlands.

Do you have dedicated GIS capabilities (if so, provide contact information)?
Sort of. Have a system that needs to be modernized. GIS contact is Jeff Hand (jhand@brewerme.org).

Notes
Priorities: 1 = Penobscot R upst removed Bangor Dam. 2 = Penobscot R downst removed Bangor Dam (have a LOMR but aren't sure it's very accurate their side of river. 3 = Sedgeunkedunk Str dam removal area. 4 = wetland area, could

Priority 6 = Eaton Bk near Day and Lambert Rds. 7 = middle reach Felts Bk.

SCOPING INTERVIEW DATA FOR: **Clifton**

CID: 230378 **Council Govt:** **Annual Town Meeting Date:**
Town Govt: 3rd Saturday March

Community Representative Interviewed
Fred Rosenberg
Town rep
Email: pdkelso@midmaine.com **Tel:** (207) 843-0709 **Fax:** (207) 843-5171
Floodplain Management Community Contact (if different from above)
Paula Kelso, planning assistant

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 of the issues have to do with the historic maps not being mapped correctly on the ortho maps. Most of the corrections will come from the new DFIRM.

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 (if so, provide contact information)?
No

Notes
No comments on maps. The only issue is the mapping. The area around most of the small streams/brooks is all A zones and the center of the stream is not always in the flooded area. The DFIRM should fix the problems.

SCOPING INTERVIEW DATA FOR: **Corinna**

CID: 230397 **Council Govt:** **Annual Town Meeting Date:**
Town Govt: 2nd Saturday March

Community Representative Interviewed
Bill Murphy
CEO
Email: corinnaceo@adelphia.net **Tel:** (207) 278-4183 **Fax:**
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?
No

Do you have specific areas that flood (1% chance) but are not mapped in the floodplain?
Yes. See Dexter - area shared by both communities on town boundary. Boggy area that is mapped badly. Need elevations.

Note any significant changes in hydraulic structures (bridges, culverts, dams)
Yes. Sebasticook River - some road work was done that changed the river channel.

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

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 (if so, provide contact information)?
No

Notes

SCOPING INTERVIEW DATA FOR: **Corinth**

CID: 230380 **Council Govt:** **Annual Town Meeting Date:**
Town Govt: 3rd Wednesday of March

Community Representative Interviewed
Michael Polyot
CEO
Email: **Tel:** (207) 285-3271 **Fax:**
Floodplain Management Community Contact (if different from above)
Michael Polyot

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. Panel 2 - don't know; Panel 3 - Kenduskeag at intersect with Black Rd and Pierre Paul Brk. Panel 4 - very steep bank at Kenduskeag Covered Bridge at Notch Rd and Covered Bridge Rd.

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. One snowmobile bridge over feeder stream to Kenduskeag Stream and it was not mapped as floodplain

Do you have (or are you proposing) high-development areas where you need new or restudied flood elevations or improved map scale?
No. Panel 2 in SW corner Bradbury Drive ext. Not final approval but some wetlands involved. Does not involve any "mapped floodplain".

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 (if so, provide contact information)?
No

Notes
Priority 1 - mapping. Kenduskeag Str at W Corinth Rd, the delineated plain is too wide. (Only mark-up on map.)

SCOPING INTERVIEW DATA FOR: **Dexter**

CID: 230105 **Council Govt:** **Annual Town Meeting Date:**
Town Govt: November elections

Community Representative Interviewed
Dave Pearson
CEO
Email: assessor@dextermaine.org **Tel:** (207) 924-7351 **Fax:** (207) 924-7352
Floodplain Management Community Contact (if different from above)
Dave Pearson

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. See below.

Do you have specific areas that flood (1% chance) but are not mapped in the floodplain?
Yes. Sebasticook River entire reach within the community (two reaches, it leaves in the middle). Martin Bog area near Corinna needs BFE.

Note any significant changes in hydraulic structures (bridges, culverts, dams)
Yes. Dam on Wessakeag Lake is about to be changed.

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)?
Limited. Town boundaries.

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 (if so, provide contact information)?
No

Notes
Work closely with Corinna. Priorities: 1. Sebasticook (includes three areas with issues) z2. Martin Bog

SCOPING INTERVIEW DATA FOR: **Eddington**

CID: 230382 **Council Govt:** **Annual Town Meeting Date:**
Town Govt: March

Community Representative Interviewed
Russell Smith, Charles
Town Manager, CEO
Email: **Tel:** (207) 843-5233 **Fax:**
Floodplain Management Community Contact (if different from above)
Charles Norberg

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. UMO experimental forest. Not mapped; they occasionally sell off a lot. (Also applies to town of Bradley.) Merrill Road. Route 9 near Libby Lane.

Note any significant changes in hydraulic structures (bridges, culverts, dams)
Yes. Meadow Brook - a study was done. Merrill Road.

Do you have (or are you proposing) high-development areas where you need new or restudied flood elevations or improved map scale?
Yes. UMO land on Chemo Pond.

Community Resources
Do you have aerial photography (or plans for any) (flight date, scale, color/bw)?
Yes. From MDOT study for I-395. No details.

Do you have any topographic data (or plans for collecting) (digital terrain, contour maps)?
Yes. From MDOT study for I-395. No details.

Do you have any data related to hydrologic/hydraulic studies (or plans for such studies)?
Yes. Meadow Brook.

Do you have dedicated GIS capabilities (if so, provide contact information)?
No. But perhaps soon.

Notes
Chemo Pond subdivision 1998 may have a BFE. Chemo Pond may have BAD. Additional studies in unstudied areas? Priorities not indicated.

SCOPING INTERVIEW DATA FOR: **Enfield**

CID: 230384 **Council Govt:** **Annual Town Meeting Date:**
Town Govt: 3rd Monday June

Community Representative Interviewed
Theresa Thurlow
CEO/Town manager
Email: thurlow@colemem.lib.me.us **Tel:** (207) 732-4270 **Fax:**
Floodplain Management Community Contact (if different from above)
Theresa Thurlow

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. Panel 10 - Cold Stream Pond floodplain is too wide in area of Davis Rd due to
steep banks. Several LOMAs. Several LOMAs Cold Stream Pond Dam.

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. Oakview on the Penobscot subdivision with better contour information, not digital. Pineview Subdivision with better contour information not digital.

Community Resources
Do you have aerial photography (or plans for any) (flight date, scale, color/bw)?
Yes. 1991 or 92 as part of sewer project

Do you have any topographic data (or plans for collecting) (digital terrain, contour maps)?
Yes. Above included topo but do not know interval

Do you have any data related to hydrologic/hydraulic studies (or plans for such studies)?
Maybe. Possible at Bangor Hydro dam

Do you have dedicated GIS capabilities (if so, provide contact information)?
No

Notes
Priority 1 and 2 - LOMA areas on Cold Stream Pond - need redelineation, floodplain
too wide.

SCOPING INTERVIEW DATA FOR: **Glenburn**

CID: 230106 **Council Govt:** **Annual Town Meeting Date:**
Town Govt: 2nd Wednesday June

Community Representative Interviewed
Mike Crooker, Earl Rafuse
Town Manager, CEO
Email: crookerm@glenburn.net **Tel:** (207) 942-2905 **Fax:**
Floodplain Management Community Contact (if different from above)
Earl Rafuse or Dick Watson (both CEOs)

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. LOMAs along Pushaw Lake - high areas that don't flood. Part of Lancaster Bk Rd (marked). Also area marked B.

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. 2005, 15" culverts replaced with 18" culverts along Lakeside Rd near pink A and in 2006 did Lancaster Brk Rd, same thing - upsized culverts. Bridge added at Sandy Beach (marked) - COE approved. All above flood plain.

Do you have (or are you proposing) high-development areas where you need new or restudied flood elevations or improved map scale?
Yes. Priority #1 (panel 10, Kenduskeag Str) in pink. None others in flood areas.

Community Resources
Do you have aerial photography (or plans for any) (flight date, scale, color/bw)?
Yes. Flown every 5 years. 2003. B&W. Sewell Co does it.

Do you have any topographic data (or plans for collecting) (digital terrain, contour maps)?
Yes. Some DOT topos along state highways.

Do you have any data related to hydrologic/hydraulic studies (or plans for such studies)?
No

Do you have dedicated GIS capabilities (if so, provide contact information)?
No

Notes
Priority 1 =panel 10, Kenduskeag Str. Priority 2 = panel 5, Pushaw Lake near Sandy Beach (LOMAs). Priority 3 = Pushaw Lake, N end (LOMAs). All might be redelineations.

SCOPING INTERVIEW DATA FOR: **Greenbush**

CID: 230107 **Council Govt:** **Annual Town Meeting Date:**
Town Govt: June

Community Representative Interviewed
Mr. Fish
Outside contractor, plumbing insp
Email: **Tel:** (207) 827-8382 **Fax:**
Floodplain Management Community Contact (if different from above)
Address: 262 Greenfield Rd, Greenbush, ME, 04418

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)?
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 (if so, provide contact information)?
No

Notes
Mr Fish keeps a record of high water marks at lakes/ponds in his towns. Mr. Fish indicated no need for updates to any maps.

Please note that upon further inspection of the Q3 data on top of the

SCOPING INTERVIEW DATA FOR: **Hampden**

CID: 230168 **Council Govt:** **Annual Town Meeting Date:**
Town Govt: 1st and 3rd Monday

Community Representative Interviewed
Ben Johnson, Bob Osborne
CEO, town planner
Email: hampden@midmaine.com **Tel:** (207) 862-4500 **Fax:** (207) 862-5067

Floodplain Management Community Contact (if different from above)
Ben Johnson, CEO, 106 Western Ave, Hampden, ME, 04444

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. P1 - west end of Fowlers Rd on south side. P20 - Large wetland areas Meadow Rd South side. Need wetland report overlay (NWI), see marked set. Also look at Reeds Bk.

Do you have specific areas that flood (1% chance) but are not mapped in the floodplain?
Yes. P1 - shoreline Pond Rd should be Fowlers Rd. Areas overstated. Steeper banks. P3 - south on west branch Souadabscook overstated; I-95 wouldn't flood. P4 - Flood over I-95 not; Panel 8 - bottom center of map

Note any significant changes in hydraulic structures (bridges, culverts, dams)
Yes. Removal of Hampden Dam on Panel 21; and new box culvert on Panel 9 at Sucker Brk and Rt 1A. Panel 8 shows 2 dams on Souadabscook remove line showing dam but abutments do have RMs -

Do you have (or are you proposing) high-development areas where you need new or restudied flood elevations or improved map scale?
Yes. Panel 9 is high development potential on Penobscot and Souadabscook. Bangor Casino is pushing development south for entertainment facilities.

Community Resources

Do you have aerial photography (or plans for any) (flight date, scale, color/bw)?
Yes. Just had aerial at .5' resolution, town wide. Color but no topo but water bodies and roads impervious areas.

Do you have any topographic data (or plans for collecting) (digital terrain, contour maps)?
Nothing new. Have some topo from Sewall in 60's or 70's some of Western Av & 1A, all on eastern end of town or original town center

Do you have any data related to hydrologic/hydraulic studies (or plans for such studies)?
No

Do you have dedicated GIS capabilities (if so, provide contact information)?
Yes. Using Map Info can talk to Arc Info - has GIS staff 20/hr/wk

Notes
Will discuss CTP with Town Council. Corporate limits seem to be questionable on west boundary - a wedge issue. On south boundary off set is mapped as too long. Needs to be reviewed.

SCOPING INTERVIEW DATA FOR: **Hermon**

CID: 230389 **Council Govt:** **Annual Town Meeting Date:**
Town Govt: 2nd Tuesday June

Community Representative Interviewed
Beth Bowdoin
Assessor
Email: bowdoinassociates@adelphia.net **Tel:** (207) 848-3109 **Fax:**
Floodplain Management Community Contact (if different from above)
Annette Merrithew, CEO, 79 Tyler St, Newport, ME, 04953

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. Black Stream and Fuller Road (perhaps topography is not accurate) - panel 4. Between route 2 and the train tracks towards Tracy Pond - panel 8. Area off Blackstream Road - panel 7. The end of Klatte Road, the horizontal

Do you have specific areas that flood (1% chance) but are not mapped in the floodplain?
Yes. Wooded wetland area near Fuller road and York Road - panel 5. Beaver dams cause flooding near Clark Road and label "2085". (panels 2 and 5).

Note any significant changes in hydraulic structures (bridges, culverts, dams)
Yes. 3 known culvert replacements to replace undersized culverts.: (1) Black Stream Road and Black Stream. (Panel 7). (2) New Boston Road and unmapped wet area near Fenway Drive - panel 8 (3) Bog Road and Rte 95 - panel 11.

Do you have (or are you proposing) high-development areas where you need new or restudied flood elevations or improved map scale?
Yes. Yes, see items (6), (7) and (8) on the map markup. Farm area north of town between Union Street and Clark Road. Item 6 between Union Street, Billings Road, and the train tracks. Item 7, Bangor border north of Union Street. Item 8 private property north of 95 and south of Wheeler Stream (George Pond) and west of the railroad tracks.

Community Resources
Do you have aerial photography (or plans for any) (flight date, scale, color/bw)?
Yes. James Sewall, 2004 or 5. May have processed to contour data. Ask Annette the CEO or the town manager for more information.

Do you have any topographic data (or plans for collecting) (digital terrain, contour maps)?
Yes. Ask Annette the CEO or the town manager for more information.

Do you have any data related to hydrologic/hydraulic studies (or plans for such studies)?
Yes. Geological surveys along Odlin Road

Do you have dedicated GIS capabilities (if so, provide contact information)?
No. They use Sewall when needed.

Notes
Ask Annette, Beth indicated that there is some verification/observation of water marks occurring consistently along Hermon Pond. Hermon might annex part of Hampden town boundary to square off the southern boundary. Corporate

High priorities: the stream north of Tracey Pond and - topographic

SCOPING INTERVIEW DATA FOR: **Holden**

CID: 230390 **Council Govt:** **Annual Town Meeting Date:**
Town Govt: June

Community Representative Interviewed
Stephen Condon
CEO
Email: steve@holdenmaine.com **Tel:** (207) 843-5151 **Fax:** (207) 843-5153
Floodplain Management Community Contact (if different from above)
Stephen Condon

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. Felt Brook (needs BFE) and unnamed trib near Orrington corner (need BFE). Eaton Brook (needs BFE). Mill Stream (needs BFE).

Do you have specific areas that flood (1% chance) but are not mapped in the floodplain?
Yes. Development pressure (bog areas near northern part of town).

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. Northern part of town.

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)?
Yes. MDOT may have some for I-395 off road.

Do you have any data related to hydrologic/hydraulic studies (or plans for such studies)?
No

Do you have dedicated GIS capabilities (if so, provide contact information)?
No

Notes
Priorities: 1. development pressure. 2. Eaton Bk. 3. Mill Stream. 4. Unnamed trib and Felts Bk.

SCOPING INTERVIEW DATA FOR: **Hudson**

CID: 230392 **Council Govt:** **Annual Town Meeting Date:**
Town Govt: 4th Saturday March

Community Representative Interviewed
Mr. Fish
Outside contractor, plumbing insp
Email: **Tel:** (207) 827-8382 **Fax:**
Floodplain Management Community Contact (if different from above)
Address: 262 Greenfield Rd, Greenbush, ME, 04418

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)?
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 (if so, provide contact information)?
No

Notes
Mr Fish keeps a record of high water marks at lakes/ponds in his towns. Hudson has the most flood plain management activity (1-2 requests per year). Mr. Fish indicated no need for updates to any maps.

Please note that upon further inspection of the Q3 data on top of the

SCOPING INTERVIEW DATA FOR: **Newport**

CID: 230398 **Council Govt:** **Annual Town Meeting Date:**
Town Govt: 1st Saturday March

Community Representative Interviewed
Fred Hickey
CEO, fire chief
Email: **Tel:** (207) 368-4410 **Fax:** (207) 368-3265
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. Sebasticook Lake (several areas on map; Lake needs a BFE). Several area on Martin Stream Identified on map (need BFE) (entire reach within the community). Buzzell Stream (Palmer Road) area needs a BFE and better mapping.

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. Dam removed on the Sebasticook River (Dam near Main Street) and did channel modification and completely changed the path of stream. Historic protection in area.

Do you have (or are you proposing) high-development areas where you need new or restudied flood elevations or improved map scale?
Yes. Sebasticook Lake, Martin Stream and some on Buzzell 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. Army Corp report, added to file.

Do you have dedicated GIS capabilities (if so, provide contact information)?
No

Notes
Priorities: 1. Sebasticook Lake. 2. Sebasticook River (small stretch in town).
Lesser: Martin Stream, Buzzell Stream.

SCOPING INTERVIEW DATA FOR: **Old Town**

CID: 230112 **Council Govt:** **Annual Town Meeting Date:**
Town Govt:

Community Representative Interviewed
Charles Heinonen
CEO
Email: cheinonen@old-town.org **Tel:** (207) 827-3981 **Fax:**
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?
No

Do you have specific areas that flood (1% chance) but are not mapped in the floodplain?
No. Looks like the areas are mostly delineated OK, but aren't real useful because of scale and detail issues.

Note any significant changes in hydraulic structures (bridges, culverts, dams)
No. Some changes to bridges, but do not appear to have changed any hydraulics

Do you have (or are you proposing) high-development areas where you need new or restudied flood elevations or improved map scale?
Yes. Marked as #1 priority, French Island, Penobscot R, panel 4. Marked as #2 priority, panel, area along Stillwater River, a little further south (of mill property) to the airport. Marked as #3 priority, panels 3 and 4. Pushaw pond along Woodland AVE. Currently camps, but being developed. Pond elevations seem to be good, but mapping is poor.

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 (if so, provide contact information)?
No

Notes
Penobscot power & light (Milford) keeps track of flows - would be best source of high water marks. Please remove Indian Island from city maps. Panel 4. MNUSS record 10301 probably deals with priority #1 - valid entry - may also

SCOPING INTERVIEW DATA FOR: **Orono**

CID: 230113 **Council Govt:** **Annual Town Meeting Date:**
Town Govt: 2nd Tuesday March

Community Representative Interviewed
John Robichaud, Evan
CEO, planner, assessor
Email: johnr@orono.org **Tel:** (207) 866-5051 **Fax:** (207) 866-5053
Floodplain Management Community Contact (if different from above)
John Robichaud

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. Hemlock Pt on Pushaw Lake - #1 priority - developed, but facing improvements. #2 priority is map resolution - 100 vs 500 yr 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. Johnny Mack basin - culvert was increased - on Union St - marked on map. Dam marked on map will be raised 1-2 ft, but don't know whether that will affect elevations - because it once was higher - see dam licensing document - Stillwater R. Will require flood hazard permit from Orono.

Do you have (or are you proposing) high-development areas where you need new or restudied flood elevations or improved map scale?
Yes. Old Webster mill area, confluence of Stillwater and Penobscot - may become intense development proposal, but slopes are steep so probably won't affect flood plain. Could check with UMO about any development by Stillwater.

Community Resources
Do you have aerial photography (or plans for any) (flight date, scale, color/bw)?
Yes. Last pd for by Orono -1995; some 1998 by fire dep; Sewell Co; B&W

Do you have any topographic data (or plans for collecting) (digital terrain, contour maps)?
Yes. Some subdivisions, 2- to 5-ft intervals; very small areas.

Do you have any data related to hydrologic/hydraulic studies (or plans for such studies)?
No

Do you have dedicated GIS capabilities (if so, provide contact information)?
No. Use Eastern Maine Dev Corp.

Notes
PP&L keeps high water marks. Would like mapping done for Johnny Mack brook - marked on aerial - development expected.

SCOPING INTERVIEW DATA FOR: **Orrington**

CID: 230180 **Council Govt:** **Annual Town Meeting Date:**
Town Govt: 1st Monday June

Community Representative Interviewed
Dick Harriman
CEO, assessor
Email: orringtonassessor@adelphia.net **Tel:** (207) 825-3745 **Fax:**
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. Clark Falls Rd, flood plain too wide on N side or river. LOMAs on Brewer Lake, lots of homes are inaccurately placed in the flood zone. This is #1 priority.

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. New dam will be built at Sedgeunkedunk Stream Pond outlet. Will be fish-ladder dam for flood ctrl

Do you have (or are you proposing) high-development areas where you need new or restudied flood elevations or improved map scale?
Yes. DEP will be doing a stormwater study at loc E on map. Seasonal pools, etc., but Dick doesn't think this is worth mentioning

Community Resources
Do you have aerial photography (or plans for any) (flight date, scale, color/bw)?
Yes. Tax maps by Sewell, 1970s; some after the ice storm; maritime NE (FOLLOWING PIPELINE CORRIDOR)

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 (if so, provide contact information)?
No

Notes
Public works keeps high water marks in the areas where town owns dams. MNUSS 10187 - says it's existing, but Dick doesn't know of any issues - thinks there aren't any. #1 priority is redelineation of Brewer Lake boundary to

SCOPING INTERVIEW DATA FOR: **Passadumkeag**

CID: 230114 **Council Govt:** **Annual Town Meeting Date:**
Town Govt: Last Monday March

Community Representative Interviewed
Mr. Fish
Outside contractor, plumbing insp
Email: **Tel:** (207) 827-8382 **Fax:**
Floodplain Management Community Contact (if different from above)
Address: 262 Greenfield Road, Greenbush, ME, 04418

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)?
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 (if so, provide contact information)?
No

Notes
Mr Fish keeps a record of high water marks at lakes/ponds in his towns. Mr. Fish indicated no need for updates to any maps.

Please note that upon further inspection of the Q3 data on top of the

SCOPING INTERVIEW DATA FOR: **Stetson**

CID: 230402 **Council Govt:** **Annual Town Meeting Date:**
Town Govt: 3rd Saturday May

Community Representative Interviewed
Travis Gould
Town assessor and CEO (also for Garland)
Email: tgould72@tds.net (home) **Tel:** (207) 296-3200 **Fax:** (207) 296-3232
Floodplain Management Community Contact (if different from above)
Travis Gould

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. No, not that he is aware. He's been in the position for 1.5 years.

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

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 (if so, provide contact information)?
No

Notes
Mr. Craig Archer, resident of Stetson, manages dam at Pleasant Lake. Benchmarks RM 2 at Dam is still "findable" and other benchmarks status is unknown. Improved topography should be used to draw flood zone boundary

Travis is a new CEO for Ripley in Somerset County.

SCOPING INTERVIEW DATA FOR: **Veazie**

CID: 230403 **Council Govt:** **Annual Town Meeting Date:**
Town Govt: 2nd Tuesday June

Community Representative Interviewed
Allan Thomas
Tax assessor, CEO
Email: arthomas@veazie.net **Tel:** (207) 947-2781 **Fax:** (207) 942-1654
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. Trailer park, marked on map.

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. Removal of Veazie Dam on the Penobscot River. Bridge went out in 1954 and replaced with culvert and later lined. Not big enough to handle on Main Street in Zone A.

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. Sewall did the work (sub meter) with GIS.

Do you have any topographic data (or plans for collecting) (digital terrain, contour maps)?
Yes. 2-foot elevation(town has it).

Do you have any data related to hydrologic/hydraulic studies (or plans for such studies)?
No

Do you have dedicated GIS capabilities (if so, provide contact information)?
Yes. Allan Thomas.

Notes
MAJOR ISSUE; Veazie dam power house and additional building are in the flood plain, These need to re-mapped when the dam is removed. The timing of the draft study is critical to being able to use the building. The concern is the Trailer park is mapping problem.

Appendix C: Existing MNUSS Data Entries: Penobscot County

EXISTING MNUSS ENTRIES FOR PENOBSCOT COUNTY

BANGOR, CITY OF

CID 230102 MNUSS Summary

MNUSS NeedID 100000000010334 **Date of Need:** 12/29/1997

PENOBSCOT RIVER

Panel: 2301020015B

Need Desc: Changes to hydraulic analysis **Length:** 4.55 **mi**

Anticipated BFE Change: Decreased By Less Than 1 foot

Location of Floodplain:

Need Notes:

MFMP Comments: LOMR 2002

MNUSS NeedID 100000000010334 **Date of Need:** 12/29/1997

PENOBSCOT RIVER

Panel: 2301020020B

Need Desc: Changes to hydraulic analysis **Length:** 4.55 **mi**

Anticipated BFE Change: Decreased By Less Than 1 foot

Location of Floodplain:

Need Notes:

MFMP Comments: LOMR 2002

EXISTING MNUSS ENTRIES FOR PENOBSCOT COUNTY

BREWER, CITY OF

CID 230104 MNUSS Summary

MNUSS NeedID 100000000010322 **Date of Need:** 12/18/1997

Panel: 2301040005B

Need Desc: Add streets to panel **Length:** 0 **mi**

Anticipated BFE Change: Not Applicable

Location of Floodplain:

Need Notes:

MFMP Comments: DFIRM

MNUSS NeedID 100000000010323 **Date of Need:** 12/18/1997

PENOBSCOT RIVER

Panel: 2301040005B

Need Desc: Changes to hydraulic analysis **Length:** 6.2 **mi**

Anticipated BFE Change: Decreased By Between 1 and 5 feet

Location of Floodplain:

Need Notes:

MFMP Comments: LOMR 2002

EXISTING MNUSS ENTRIES FOR PENOBSCOT COUNTY

EDDINGTON, TOWN OF

CID 230382 MNUSS Summary

MNUSS NeedID 100000000010329 **Date of Need:** 12/18/1997

Panel: 2303820005B

Need Desc: Align map panels **Length:** 0 **mi**

Anticipated BFE Change: Not Applicable

Location of Floodplain:

Need Notes:

MFMP Comments: DFIRM

MNUSS NeedID 100000000010329 **Date of Need:** 12/18/1997

Panel: 2303820010B

Need Desc: Align map panels **Length:** 0 **mi**

Anticipated BFE Change: Not Applicable

Location of Floodplain:

Need Notes:

MFMP Comments: DFRIM

EXISTING MNUSS ENTRIES FOR PENOBSCOT COUNTY

EDDINGTON, TOWN OF

CID 230382 MNUSS Summary

MNUSS NeedID 100000000010330 **Date of Need:** 12/18/1997

CHEMO POND

Panel: 2303820010B

Need Desc: Changes to hydrologic conditions **Length:** 1.9 **mi**

Anticipated BFE Change: Decreased By Less Than 1 foot

Location of Floodplain:

Need Notes:

MFMP Comments: LOMR 2002

EXISTING MNUSS ENTRIES FOR PENOBSCOT COUNTY

GARLAND, TOWN OF

CID 230387 MNUSS Summary

MNUSS NeedID 100000000036729 **Date of Need:** 12/16/2004

Panel:

Need Desc: Countywide format (per panel) **Length:** 0 **mi**

Anticipated BFE Change: Not Applicable

Location of Floodplain:

Need Notes: All Floodplain needs at least Zone A's determined - OLD FHBM!!!!

MFMP Comments: DFIRM

MNUSS NeedID 100000000036729 **Date of Need:** 12/16/2004

Panel:

Need Desc: Add streets to panel **Length:** 0 **mi**

Anticipated BFE Change: Not Applicable

Location of Floodplain:

Need Notes: No Building Codes

MFMP Comments: DFIRM

EXISTING MNUSS ENTRIES FOR PENOBSCOT COUNTY

GARLAND, TOWN OF

CID 230387 MNUSS Summary

MNUSS NeedID 100000000036729 **Date of Need:** 12/16/2004

Panel:

Need Desc: Countywide format (per panel) **Length:** 0 **mi**

Anticipated BFE Change: Not Applicable

Location of Floodplain:

Need Notes: No Building Codes

MFMP Comments: DFIRM

MNUSS NeedID 100000000036729 **Date of Need:** 12/16/2004

Panel:

Need Desc: Add streets to panel **Length:** 0 **mi**

Anticipated BFE Change: Not Applicable

Location of Floodplain:

Need Notes: All Floodplain needs at least Zone A's determined - OLD FHBM!!!!

MFMP Comments: DFIRM

EXISTING MNUSS ENTRIES FOR PENOBSCOT COUNTY

HAMPDEN, TOWN OF

CID 230168 MNUSS Summary

MNUSS NeedID 100000000010201 **Date of Need:** 9/25/1997

Panel: 2301680009B

Need Desc: Add streets to panel **Length:** 0 **mi**

Anticipated BFE Change: Not Applicable

Location of Floodplain:

Need Notes:

MFMP Comments: DFIRM

MNUSS NeedID 100000000010201 **Date of Need:** 9/25/1997

Panel: 2301680008B

Need Desc: Add streets to panel **Length:** 0 **mi**

Anticipated BFE Change: Not Applicable

Location of Floodplain:

Need Notes:

MFMP Comments: DFIRM

EXISTING MNUSS ENTRIES FOR PENOBSCOT COUNTY

HAMPDEN, TOWN OF

CID 230168 MNUSS Summary

MNUSS NeedID 100000000010201 **Date of Need:** 9/25/1997

Panel: 2301680004B

Need Desc: Add streets to panel **Length:** 0 **mi**

Anticipated BFE Change: Not Applicable

Location of Floodplain:

Need Notes:

MFMP Comments: DFIRM

MNUSS NeedID 100000000010201 **Date of Need:** 9/25/1997

Panel: 2301680001B

Need Desc: Add streets to panel **Length:** 0 **mi**

Anticipated BFE Change: Not Applicable

Location of Floodplain:

Need Notes:

MFMP Comments: DFIRM

EXISTING MNUSS ENTRIES FOR PENOBSCOT COUNTY

HAMPDEN, TOWN OF

CID 230168 MNUSS Summary

MNUSS NeedID 100000000010340 **Date of Need:** 2/11/1998

REEDS BR, BROWN BR, PATTEN PON

Panel: 2301680003B

Need Desc: Changes to floodplain width **Length:** 11.2 **mi**

Anticipated BFE Change: Increased By Greater Than 5 feet

Location of Floodplain:

Need Notes:

MFMP Comments: Requires Restudy

MNUSS NeedID 100000000010340 **Date of Need:** 2/11/1998

REEDS BR, BROWN BR, PATTEN PON

Panel: 2301680001B

Need Desc: Changes to floodplain width **Length:** 11.2 **mi**

Anticipated BFE Change: Increased By Greater Than 5 feet

Location of Floodplain:

Need Notes:

MFMP Comments: Requires Restudy

EXISTING MNUSS ENTRIES FOR PENOBSCOT COUNTY

HAMPDEN, TOWN OF

CID 230168 MNUSS Summary

MNUSS NeedID 100000000010340 **Date of Need:** 2/11/1998

REEDS BR, BROWN BR, PATTEN PON

Panel: 2301680021B

Need Desc: Changes to floodplain width **Length:** 11.2 **mi**

Anticipated BFE Change: Increased By Greater Than 5 feet

Location of Floodplain:

Need Notes:

MFMP Comments: Requires Restudy

MNUSS NeedID 100000000035194 **Date of Need:** 6/16/2004

Sucker Brook

Panel: 2301680009B

Need Desc: Changes to floodplain width **Length:** 5 **mi**

Anticipated BFE Change: Decreased By Between 1 and 5 feet

Location of Floodplain: All of Sucker Brook may be affected

Need Notes: In a 3/26/04 letter to the town of Hampden, the A&E company noted that there appeared to be an error in the BFE @ the Maine Road North crossing of Sucker Brook. Mr. Marshall referenced a hydrologic study by the MDOT & no recent flood experience.

MFMP Comments: Requires Restudy

EXISTING MNUSS ENTRIES FOR PENOBSCOT COUNTY

HAMPDEN, TOWN OF

CID 230168 MNUSS Summary

MNUSS NeedID 100000000035194 **Date of Need:** 6/16/2004

Sucker Brook

Panel: 2301680009B

Need Desc: Changes to hydraulic analysis **Length:** 5 **mi**

Anticipated BFE Change: Decreased By Between 1 and 5 feet

Location of Floodplain: All of Sucker Brook may be affected

Need Notes: culvert for crossing was already in the FIS hydraulic study.

MFMP Comments: Requires Restudy

MNUSS NeedID 100000000035194 **Date of Need:** 6/16/2004

Sucker Brook

Panel: 2301680009B

Need Desc: Changes to hydrologic conditions **Length:** 5 **mi**

Anticipated BFE Change: Decreased By Between 1 and 5 feet

Location of Floodplain: All of Sucker Brook may be affected

Need Notes: The town Code Enforcement Officer, Ben Johnson, contacted the state coordinating office for the NFIP by memo dated 4/1/04 and asked for guidance in applying NFIP regulations. State coord. office asked FEMA assist. Knowles recom. LOMR - supposedly "new" culvert was already in FIS study.

MFMP Comments: Requires Restudy

EXISTING MNUSS ENTRIES FOR PENOBSCOT COUNTY

HAMPDEN, TOWN OF

CID 230168 MNUSS Summary

MNUSS NeedID 100000000035194 **Date of Need:** 6/16/2004

Sucker Brook

Panel: 2301680009B

Need Desc: Changes to hydrologic conditions **Length:** 5 **mi**

Anticipated BFE Change: Decreased By Between 1 and 5 feet

Location of Floodplain: All of Sucker Brook may be affected

Need Notes: culvert for crossing was already in the FIS hydraulic study.

MFMP Comments: Requires Restudy

MNUSS NeedID 100000000035194 **Date of Need:** 6/16/2004

Sucker Brook

Panel: 2301680009B

Need Desc: Changes to hydraulic analysis **Length:** 5 **mi**

Anticipated BFE Change: Decreased By Between 1 and 5 feet

Location of Floodplain: All of Sucker Brook may be affected

Need Notes: The town Code Enforcement Officer, Ben Johnson, contacted the state coordinating office for the NFIP by memo dated 4/1/04 and asked for guidance in applying NFIP regulations. State coord. office asked FEMA assist. Knowles recom. LOMR - supposedly "new" culvert was already in FIS study.

MFMP Comments: Requires Restudy

EXISTING MNUSS ENTRIES FOR PENOBSCOT COUNTY

HAMPDEN, TOWN OF

CID 230168 MNUSS Summary

MNUSS NeedID 100000000035194 **Date of Need:** 6/16/2004

Sucker Brook

Panel: 2301680009B

Need Desc: Changes to hydraulic analysis **Length:** 5 **mi**

Anticipated BFE Change: Decreased By Between 1 and 5 feet

Location of Floodplain: All of Sucker Brook may be affected

Need Notes: In a 3/26/04 letter to the town of Hampden, the A&E company noted that there appeared to be an error in the BFE @ the Maine Road North crossing of Sucker Brook. Mr. Marshall referenced a hydrologic study by the MDOT & no recent flood experience.

MFMP Comments: Requires Restudy

MNUSS NeedID 100000000035194 **Date of Need:** 6/16/2004

Sucker Brook

Panel: 2301680009B

Need Desc: Changes to floodplain width **Length:** 5 **mi**

Anticipated BFE Change: Decreased By Between 1 and 5 feet

Location of Floodplain: All of Sucker Brook may be affected

Need Notes: The town Code Enforcement Officer, Ben Johnson, contacted the state coordinating office for the NFIP by memo dated 4/1/04 and asked for guidance in applying NFIP regulations. State coord. office asked FEMA assist. Knowles recom. LOMR - supposedly "new" culvert was already in FIS study.

MFMP Comments: Requires Restudy

HAMPDEN, TOWN OF

CID 230168 MNUSS Summary

MNUSS NeedID 100000000035194 **Date of Need:** 6/16/2004

Sucker Brook

Panel: 2301680009B

Need Desc: Changes to BFEs **Length:** 5 **mi**

Anticipated BFE Change: Decreased By Between 1 and 5 feet

Location of Floodplain: All of Sucker Brook may be affected

Need Notes: The town Code Enforcement Officer, Ben Johnson, contacted the state coordinating office for the NFIP by memo dated 4/1/04 and asked for guidance in applying NFIP regulations. State coord. office asked FEMA assist. Knowles recom. LOMR - supposedly "new" culvert was already in FIS study.

MFMP Comments: Requires Restudy

MNUSS NeedID 100000000035194 **Date of Need:** 6/16/2004

Sucker Brook

Panel: 2301680009B

Need Desc: Changes to BFEs **Length:** 5 **mi**

Anticipated BFE Change: Decreased By Between 1 and 5 feet

Location of Floodplain: All of Sucker Brook may be affected

Need Notes: culvert for crossing was already in the FIS hydraulic study.

MFMP Comments: Requires Restudy

EXISTING MNUSS ENTRIES FOR PENOBSCOT COUNTY

HAMPDEN, TOWN OF

CID 230168 MNUSS Summary

MNUSS NeedID 100000000035194 **Date of Need:** 6/16/2004

Sucker Brook

Panel: 2301680009B

Need Desc: Changes to hydrologic conditions **Length:** 5 **mi**

Anticipated BFE Change: Decreased By Between 1 and 5 feet

Location of Floodplain: All of Sucker Brook may be affected

Need Notes: In a 3/26/04 letter to the town of Hampden, the A&E company noted that there appeared to be an error in the BFE @ the Maine Road North crossing of Sucker Brook. Mr. Marshall referenced a hydrologic study by the MDOT & no recent flood experience.

MFMP Comments: Requires Restudy

MNUSS NeedID 100000000035194 **Date of Need:** 6/16/2004

Sucker Brook

Panel: 2301680009B

Need Desc: Changes to BFEs **Length:** 5 **mi**

Anticipated BFE Change: Decreased By Between 1 and 5 feet

Location of Floodplain: All of Sucker Brook may be affected

Need Notes: In a 3/26/04 letter to the town of Hampden, the A&E company noted that there appeared to be an error in the BFE @ the Maine Road North crossing of Sucker Brook. Mr. Marshall referenced a hydrologic study by the MDOT & no recent flood experience.

MFMP Comments: Requires Restudy

EXISTING MNUSS ENTRIES FOR PENOBSCOT COUNTY

HAMPDEN, TOWN OF

CID 230168 MNUSS Summary

MNUSS NeedID 100000000035194 **Date of Need:** 6/16/2004

Sucker Brook

Panel: 2301680009B

Need Desc: Changes to floodplain width **Length:** 5 **mi**

Anticipated BFE Change: Decreased By Between 1 and 5 feet

Location of Floodplain: All of Sucker Brook may be affected

Need Notes: culvert for crossing was already in the FIS hydraulic study.

MFMP Comments: Requires Restudy

EXISTING MNUSS ENTRIES FOR PENOBSCOT COUNTY

HOLDEN, TOWN OF

CID 230390 MNUSS Summary

MNUSS NeedID 100000000010365 **Date of Need:** 4/22/1998

Eaton Brook

Panel: 2303900005C

Need Desc: Changes to floodplain width **Length:** 2.06 **mi**

Anticipated BFE Change: Increased By Greater Than 5 feet

Location of Floodplain:

Need Notes: community believes area is improperly identified as Zone A.

MFMP Comments: Requires Restudy

MNUSS NeedID 100000000010365 **Date of Need:** 4/22/1998

Eaton Brook

Panel: 2303900005C

Need Desc: Changes to floodplain width **Length:** 2.06 **mi**

Anticipated BFE Change: Increased By Greater Than 5 feet

Location of Floodplain:

Need Notes: community believes area is improperly identified as Zone A.

MFMP Comments: Requires Restudy

EXISTING MNUSS ENTRIES FOR PENOBSCOT COUNTY

KENDUSKEAG, TOWN OF

CID 230108 MNUSS Summary

MNUSS NeedID 100000000036680 **Date of Need:** 11/7/2004

Kenduskeag Brook

Panel:

Need Desc: Changes to BFEs **Length:** 5 **mi**

Anticipated BFE Change: Increased By Between 1 and 5 feet

Location of Floodplain: watercourse within corporate limits

Need Notes: Floodplain study by NRCS dated May 24, 2000. This rpt. is avail. through state coord. for NFIP. It provides detailed elev. data for a watercourse shown as Zone A on FIRM.

MFMP Comments: Requires FIS

MNUSS NeedID 100000000036680 **Date of Need:** 11/7/2004

Kenduskeag Brook

Panel:

Need Desc: Changes to floodplain width **Length:** 5 **mi**

Anticipated BFE Change: Increased By Between 1 and 5 feet

Location of Floodplain: watercourse within corporate limits

Need Notes: Floodplain study by NRCS dated May 24, 2000. This rpt. is avail. through state coord. for NFIP. It provides detailed elev. data for a watercourse shown as Zone A on FIRM.

MFMP Comments: Requires FIS

EXISTING MNUSS ENTRIES FOR PENOBSCOT COUNTY

KENDUSKEAG, TOWN OF

CID 230108 MNUSS Summary

MNUSS NeedID 100000000036680 **Date of Need:** 11/7/2004

Kenduskeag Brook

Panel:

Need Desc: Changes to hydraulic analysis **Length:** 5 **mi**

Anticipated BFE Change: Increased By Between 1 and 5 feet

Location of Floodplain: watercourse within corporate limits

Need Notes: Floodplain study by NRCS dated May 24, 2000. This rpt. is avail. through state coord. for NFIP. It provides detailed elev. data for a watercourse shown as Zone A on FIRM.

MFMP Comments: Requires FIS

MNUSS NeedID 100000000036680 **Date of Need:** 11/7/2004

Kenduskeag Brook

Panel:

Need Desc: Changes to hydrologic conditions **Length:** 5 **mi**

Anticipated BFE Change: Increased By Between 1 and 5 feet

Location of Floodplain: watercourse within corporate limits

Need Notes: Floodplain study by NRCS dated May 24, 2000. This rpt. is avail. through state coord. for NFIP. It provides detailed elev. data for a watercourse shown as Zone A on FIRM.

MFMP Comments: Requires FIS

EXISTING MNUSS ENTRIES FOR PENOBSCOT COUNTY

LEVANT, TOWN OF

CID 230912 MNUSS Summary

MNUSS NeedID 100000000010290 **Date of Need:** 12/15/1997

Panel: 230912 B

Need Desc: Add LOMCs (per panel) **Length:** 0 **mi**

Anticipated BFE Change: Not Applicable

Location of Floodplain:

Need Notes: convert 11 x 17 TO Z-FOLD FORMAT

MFMP Comments: DFIRM

MNUSS NeedID 100000000010290 **Date of Need:** 12/15/1997

Panel: 230912 B

Need Desc: Add LOMCs (per panel) **Length:** 0 **mi**

Anticipated BFE Change: Not Applicable

Location of Floodplain:

Need Notes: convert 11 x 17 TO Z-FOLD FORMAT

MFMP Comments: DFIRM

EXISTING MNUSS ENTRIES FOR PENOBSCOT COUNTY

OLD TOWN, CITY OF

CID 230112 MNUSS Summary

MNUSS NeedID 100000000010299 **Date of Need:** 12/15/1997

Panel: 2301120003A

Need Desc: Align map panels **Length:** 0 **mi**

Anticipated BFE Change: Not Applicable

Location of Floodplain:

Need Notes: UPDATE TO MAP INITIATIVES FORMAT

MFMP Comments: DFIRM

MNUSS NeedID 100000000010300 **Date of Need:** 12/15/1997

Panel: 2301120002A

Need Desc: Annexation and corporate limits (per panel) **Length:** 0 **mi**

Anticipated BFE Change: Not Applicable

Location of Floodplain:

Need Notes: INDIAN ISLAND IN NOT PART OF THE CITY.

MFMP Comments: DFIRM (Important)

EXISTING MNUSS ENTRIES FOR PENOBSCOT COUNTY

OLD TOWN, CITY OF

CID 230112 MNUSS Summary

MNUSS NeedID 100000000010300 **Date of Need:** 12/15/1997

Panel: 2301120002A

Need Desc: Annexation and corporate limits (per panel) **Length:** 0 **mi**

Anticipated BFE Change: Not Applicable

Location of Floodplain:

Need Notes: INDIAN ISLAND IN NOT PART OF THE CITY.

MFMP Comments: DFIRM (Important)

MNUSS NeedID 100000000010300 **Date of Need:** 12/15/1997

Panel: 2301120004A

Need Desc: Annexation and corporate limits (per panel) **Length:** 0 **mi**

Anticipated BFE Change: Not Applicable

Location of Floodplain:

Need Notes: INDIAN ISLAND IN NOT PART OF THE CITY.

MFMP Comments: DFIRM (Important)

EXISTING MNUSS ENTRIES FOR PENOBSCOT COUNTY

OLD TOWN, CITY OF

CID 230112 MNUSS Summary

MNUSS NeedID 100000000010300 **Date of Need:** 12/15/1997

Panel: 2301120004A

Need Desc: Annexation and corporate limits (per panel) **Length:** 0 **mi**

Anticipated BFE Change: Not Applicable

Location of Floodplain:

Need Notes: INDIAN ISLAND IN NOT PART OF THE CITY.

MFMP Comments: DFIRM (Important)

MNUSS NeedID 100000000010301 **Date of Need:** 12/15/1997

PENOBSCOT RIVER

Panel: 2301120002A

Need Desc: Changes to hydraulic analysis **Length:** 8 **mi**

Anticipated BFE Change: Decreased By Between 1 and 5 feet

Location of Floodplain:

Need Notes:

MFMP Comments: LOMR 2002

EXISTING MNUSS ENTRIES FOR PENOBSCOT COUNTY

OLD TOWN, CITY OF

CID 230112 MNUSS Summary

MNUSS NeedID 100000000010301 **Date of Need:** 12/15/1997

PENOBSCOT RIVER

Panel: 2301120004A

Need Desc: Changes to hydraulic analysis **Length:** 8 **mi**

Anticipated BFE Change: Decreased By Between 1 and 5 feet

Location of Floodplain:

Need Notes:

MFMP Comments: LOMR 2002

MNUSS NeedID 100000000010302 **Date of Need:** 12/15/1997

Panel: 2301120001A

Need Desc: Add LOMCs (per panel) **Length:** 0 **mi**

Anticipated BFE Change: Not Applicable

Location of Floodplain:

Need Notes:

MFMP Comments: DFIRM

EXISTING MNUSS ENTRIES FOR PENOBSCOT COUNTY

OLD TOWN, CITY OF

CID 230112 MNUSS Summary

MNUSS NeedID 100000000010297 **Date of Need:** 12/15/1997

Panel: 2301120004A

Need Desc: Add streets to panel **Length:** 0 **mi**

Anticipated BFE Change: Not Applicable

Location of Floodplain:

Need Notes:

MFMP Comments: DFIRM

MNUSS NeedID 100000000010299 **Date of Need:** 12/15/1997

Panel: 2301120004A

Need Desc: Align map panels **Length:** 0 **mi**

Anticipated BFE Change: Not Applicable

Location of Floodplain:

Need Notes: UPDATE TO MAP INITIATIVES FORMAT

MFMP Comments: DFIRM

EXISTING MNUSS ENTRIES FOR PENOBSCOT COUNTY

OLD TOWN, CITY OF

CID 230112 MNUSS Summary

MNUSS NeedID 100000000010299 **Date of Need:** 12/15/1997

Panel: 2301120004A

Need Desc: Align map panels **Length:** 0 **mi**

Anticipated BFE Change: Not Applicable

Location of Floodplain:

Need Notes: UPDATE TO MAP INITIATIVES FORMAT

MFMP Comments: DFIRM

MNUSS NeedID 100000000010299 **Date of Need:** 12/15/1997

Panel: 2301120003A

Need Desc: Align map panels **Length:** 0 **mi**

Anticipated BFE Change: Not Applicable

Location of Floodplain:

Need Notes: UPDATE TO MAP INITIATIVES FORMAT

MFMP Comments: DFIRM

EXISTING MNUSS ENTRIES FOR PENOBSCOT COUNTY

OLD TOWN, CITY OF

CID 230112 MNUSS Summary

MNUSS NeedID 100000000010298 **Date of Need:** 12/15/1997

Panel: 2301120001A

Need Desc: Add an ERM **Length:** 0 **mi**

Anticipated BFE Change: Not Applicable

Location of Floodplain:

Need Notes: ERM's PROVIDED BY THE SCS.

MFMP Comments: Not valid

MNUSS NeedID 100000000010299 **Date of Need:** 12/15/1997

Panel: 2301120002A

Need Desc: Align map panels **Length:** 0 **mi**

Anticipated BFE Change: Not Applicable

Location of Floodplain:

Need Notes: UPDATE TO MAP INITIATIVES FORMAT

MFMP Comments: DFIRM

EXISTING MNUSS ENTRIES FOR PENOBSCOT COUNTY

OLD TOWN, CITY OF

CID 230112 MNUSS Summary

MNUSS NeedID 100000000010299 **Date of Need:** 12/15/1997

Panel: 2301120001A

Need Desc: Align map panels **Length:** 0 **mi**

Anticipated BFE Change: Not Applicable

Location of Floodplain:

Need Notes: UPDATE TO MAP INITIATIVES FORMAT

MFMP Comments: DFIRM

MNUSS NeedID 100000000010299 **Date of Need:** 12/15/1997

Panel: 2301120001A

Need Desc: Align map panels **Length:** 0 **mi**

Anticipated BFE Change: Not Applicable

Location of Floodplain:

Need Notes: UPDATE TO MAP INITIATIVES FORMAT

MFMP Comments: DFIRM

EXISTING MNUSS ENTRIES FOR PENOBSCOT COUNTY

OLD TOWN, CITY OF

CID 230112 MNUSS Summary

MNUSS NeedID 100000000010298

Date of Need: 12/15/1997

Panel: 2301120004A

Need Desc: Add an ERM

Length: 0 **mi**

Anticipated BFE Change: Not Applicable

Location of Floodplain:

Need Notes: ERM's PROVIDED BY THE SCS.

MFMP Comments: Not valid

MNUSS NeedID 100000000010298

Date of Need: 12/15/1997

Panel: 2301120001A

Need Desc: Add an ERM

Length: 0 **mi**

Anticipated BFE Change: Not Applicable

Location of Floodplain:

Need Notes: ERM's PROVIDED BY THE SCS.

MFMP Comments: Not valid

EXISTING MNUSS ENTRIES FOR PENOBSCOT COUNTY

OLD TOWN, CITY OF

CID 230112 MNUSS Summary

MNUSS NeedID 100000000010298

Date of Need: 12/15/1997

Panel: 2301120002A

Need Desc: Add an ERM

Length: 0 **mi**

Anticipated BFE Change: Not Applicable

Location of Floodplain:

Need Notes: ERM's PROVIDED BY THE SCS.

MFMP Comments: Not valid

MNUSS NeedID 100000000010298

Date of Need: 12/15/1997

Panel: 2301120002A

Need Desc: Add an ERM

Length: 0 **mi**

Anticipated BFE Change: Not Applicable

Location of Floodplain:

Need Notes: ERM's PROVIDED BY THE SCS.

MFMP Comments: Not valid

EXISTING MNUSS ENTRIES FOR PENOBSCOT COUNTY

OLD TOWN, CITY OF

CID 230112 MNUSS Summary

MNUSS NeedID 100000000010298 **Date of Need:** 12/15/1997

Panel: 2301120003A

Need Desc: Add an ERM **Length:** 0 **mi**

Anticipated BFE Change: Not Applicable

Location of Floodplain:

Need Notes: ERM's PROVIDED BY THE SCS.

MFMP Comments: Not valid

MNUSS NeedID 100000000010299 **Date of Need:** 12/15/1997

Panel: 2301120002A

Need Desc: Align map panels **Length:** 0 **mi**

Anticipated BFE Change: Not Applicable

Location of Floodplain:

Need Notes: UPDATE TO MAP INITIATIVES FORMAT

MFMP Comments: DFIRM

EXISTING MNUSS ENTRIES FOR PENOBSCOT COUNTY

OLD TOWN, CITY OF

CID 230112 MNUSS Summary

MNUSS NeedID 100000000010298

Date of Need: 12/15/1997

Panel: 2301120003A

Need Desc: Add an ERM

Length: 0 **mi**

Anticipated BFE Change: Not Applicable

Location of Floodplain:

Need Notes: ERM's PROVIDED BY THE SCS.

MFMP Comments: Not valid

MNUSS NeedID 100000000010298

Date of Need: 12/15/1997

Panel: 2301120004A

Need Desc: Add an ERM

Length: 0 **mi**

Anticipated BFE Change: Not Applicable

Location of Floodplain:

Need Notes: ERM's PROVIDED BY THE SCS.

MFMP Comments: Not valid

EXISTING MNUSS ENTRIES FOR PENOBSCOT COUNTY

ORONO, TOWN OF

CID 230113 MNUSS Summary

MNUSS NeedID 100000000010304 **Date of Need:** 12/15/1997

Panel: 2301130005B

Need Desc: Align map panels **Length:** 0 **mi**

Anticipated BFE Change: Not Applicable

Location of Floodplain:

Need Notes: UPDATE TO MAP INITIATIVES FORMAT

MFMP Comments: DFIRM

MNUSS NeedID 100000000010303 **Date of Need:** 12/15/1997

Panel: 2301130005B

Need Desc: Add an ERM **Length:** 0 **mi**

Anticipated BFE Change: Not Applicable

Location of Floodplain:

Need Notes:

MFMP Comments: Not valid

EXISTING MNUSS ENTRIES FOR PENOBSCOT COUNTY

ORONO, TOWN OF

CID 230113 MNUSS Summary

MNUSS NeedID 100000000010306 **Date of Need:** 12/15/1997

NUMEROUS LAKES IN THE TOWN.

Panel: 2301130010B

Need Desc: Changes to hydrologic conditions **Length:** 1.7 **mi**

Anticipated BFE Change: Decreased By Between 1 and 5 feet

Location of Floodplain:

Need Notes:

MFMP Comments: Requires Restudy

MNUSS NeedID 100000000010304 **Date of Need:** 12/15/1997

Panel: 2301130005B

Need Desc: Align map panels **Length:** 0 **mi**

Anticipated BFE Change: Not Applicable

Location of Floodplain:

Need Notes: UPDATE TO MAP INITIATIVES FORMAT

MFMP Comments: DFIRM

EXISTING MNUSS ENTRIES FOR PENOBSCOT COUNTY

ORONO, TOWN OF

CID 230113 MNUSS Summary

MNUSS NeedID 100000000010304 **Date of Need:** 12/15/1997

Panel: 2301130010B

Need Desc: Align map panels **Length:** 0 **mi**

Anticipated BFE Change: Not Applicable

Location of Floodplain:

Need Notes: UPDATE TO MAP INITIATIVES FORMAT

MFMP Comments: DFIRM

MNUSS NeedID 100000000010304 **Date of Need:** 12/15/1997

Panel: 2301130010B

Need Desc: Align map panels **Length:** 0 **mi**

Anticipated BFE Change: Not Applicable

Location of Floodplain:

Need Notes: UPDATE TO MAP INITIATIVES FORMAT

MFMP Comments: DFIRM

EXISTING MNUSS ENTRIES FOR PENOBSCOT COUNTY

ORONO, TOWN OF

CID 230113 MNUSS Summary

MNUSS NeedID 100000000010305 **Date of Need:** 12/15/1997

Panel: 2301130010B

Need Desc: Add LOMCs (per panel) **Length:** 0 **mi**

Anticipated BFE Change: Not Applicable

Location of Floodplain:

Need Notes:

MFMP Comments: DFIRM

MNUSS NeedID 100000000010306 **Date of Need:** 12/15/1997

NUMEROUS LAKES IN THE TOWN.

Panel: 2301130005B

Need Desc: Changes to hydrologic conditions **Length:** 1.7 **mi**

Anticipated BFE Change: Decreased By Between 1 and 5 feet

Location of Floodplain:

Need Notes:

MFMP Comments: Requires Restudy

EXISTING MNUSS ENTRIES FOR PENOBSCOT COUNTY

ORONO, TOWN OF

CID 230113 MNUSS Summary

MNUSS NeedID 100000000010303

Date of Need: 12/15/1997

Panel: 2301130010B

Need Desc: Add an ERM

Length: 0 **mi**

Anticipated BFE Change: Not Applicable

Location of Floodplain:

Need Notes:

MFMP Comments: Not valid

EXISTING MNUSS ENTRIES FOR PENOBSCOT COUNTY

ORRINGTON, TOWN OF

CID 230180 MNUSS Summary

MNUSS NeedID 100000000010187 **Date of Need:** 9/17/1997

PENOBSCOT RIVER

Panel: 2301800014A

Need Desc: Changes to floodplain width **Length:** 2.3 **mi**

Anticipated BFE Change: Decreased By Between 1 and 5 feet

Location of Floodplain:

Need Notes: Community is z-fold as of 7/17/02 (LMMP).

MFMP Comments: New FIS 2002

MNUSS NeedID 100000000010187 **Date of Need:** 9/17/1997

PENOBSCOT RIVER

Panel: 2301800029A

Need Desc: Changes to floodplain width **Length:** 2.3 **mi**

Anticipated BFE Change: Decreased By Between 1 and 5 feet

Location of Floodplain:

Need Notes: THIS IS AN 11X17 AND WILL HAVE TO BE FORMATTED TO A Z-F0LD

MFMP Comments: New FIS 2002

EXISTING MNUSS ENTRIES FOR PENOBSCOT COUNTY

ORRINGTON, TOWN OF

CID 230180 MNUSS Summary

MNUSS NeedID 100000000010188 **Date of Need:** 9/17/1997

SEDGEUNKEDUNK STREAM

Panel: 230180

Need Desc: Changes to floodplain width **Length:** 1.6 **mi**

Anticipated BFE Change: Decreased By Between 1 and 5 feet

Location of Floodplain:

Need Notes: THIS IS AN 11X17 AND WILL HAVE TO BE FORMATTED TO A Z-FOLD

MFMP Comments: New FIS 2002

MNUSS NeedID 100000000010188 **Date of Need:** 9/17/1997

SEDGEUNKEDUNK STREAM

Panel: 230180

Need Desc: Changes to floodplain width **Length:** 1.6 **mi**

Anticipated BFE Change: Decreased By Between 1 and 5 feet

Location of Floodplain:

Need Notes: THIS IS AN 11X17 AND WILL HAVE TO BE FORMATTED TO A Z-FOLD

MFMP Comments: New FIS 2002

EXISTING MNUSS ENTRIES FOR PENOBSCOT COUNTY

ORRINGTON, TOWN OF

CID 230180 MNUSS Summary

MNUSS NeedID 100000000010188 **Date of Need:** 9/17/1997

SEDGEUNKEDUNK STREAM

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Need Desc: Changes to floodplain width **Length:** 1.6 **mi**

Anticipated BFE Change: Decreased By Between 1 and 5 feet

Location of Floodplain:

Need Notes: THIS IS AN 11X17 AND WILL HAVE TO BE FORMATTED TO A Z-FOLD

MFMP Comments: New FIS 2002

MNUSS NeedID 100000000010187 **Date of Need:** 9/17/1997

PENOBSCOT RIVER

Panel: 2301800037A

Need Desc: Changes to floodplain width **Length:** 2.3 **mi**

Anticipated BFE Change: Decreased By Between 1 and 5 feet

Location of Floodplain:

Need Notes: Community is z-fold as of 7/17/02 (LMMP).

MFMP Comments: New FIS 2002

EXISTING MNUSS ENTRIES FOR PENOBSCOT COUNTY

ORRINGTON, TOWN OF

CID 230180 MNUSS Summary

MNUSS NeedID 100000000010187 **Date of Need:** 9/17/1997

PENOBSCOT RIVER

Panel: 2301800037A

Need Desc: Changes to floodplain width **Length:** 2.3 **mi**

Anticipated BFE Change: Decreased By Between 1 and 5 feet

Location of Floodplain:

Need Notes: THIS IS AN 11X17 AND WILL HAVE TO BE FORMATTED TO A Z-F0LD

MFMP Comments: New FIS 2002

MNUSS NeedID 100000000010187 **Date of Need:** 9/17/1997

PENOBSCOT RIVER

Panel: 2301800037A

Need Desc: Changes to floodplain width **Length:** 2.3 **mi**

Anticipated BFE Change: Decreased By Between 1 and 5 feet

Location of Floodplain:

Need Notes: THIS IS AN 11X17 AND WILL HAVE TO BE FORMATTED TO A Z-F0LD

MFMP Comments: New FIS 2002

EXISTING MNUSS ENTRIES FOR PENOBSCOT COUNTY

ORRINGTON, TOWN OF

CID 230180 MNUSS Summary

MNUSS NeedID 100000000010187 **Date of Need:** 9/17/1997

PENOBSCOT RIVER

Panel: 2301800037A

Need Desc: Changes to floodplain width **Length:** 2.3 **mi**

Anticipated BFE Change: Decreased By Between 1 and 5 feet

Location of Floodplain:

Need Notes: THIS IS AN 11X17 AND WILL HAVE TO BE FORMATTED TO A Z-F0LD

MFMP Comments: New FIS 2002

MNUSS NeedID 100000000010187 **Date of Need:** 9/17/1997

PENOBSCOT RIVER

Panel: 2301800029A

Need Desc: Changes to floodplain width **Length:** 2.3 **mi**

Anticipated BFE Change: Decreased By Between 1 and 5 feet

Location of Floodplain:

Need Notes: Community is z-fold as of 7/17/02 (LMMP).

MFMP Comments: New FIS 2002

EXISTING MNUSS ENTRIES FOR PENOBSCOT COUNTY

ORRINGTON, TOWN OF

CID 230180 MNUSS Summary

MNUSS NeedID 100000000010187 **Date of Need:** 9/17/1997

PENOBSCOT RIVER

Panel: 2301800014A

Need Desc: Changes to floodplain width **Length:** 2.3 **mi**

Anticipated BFE Change: Decreased By Between 1 and 5 feet

Location of Floodplain:

Need Notes: THIS IS AN 11X17 AND WILL HAVE TO BE FORMATTED TO A Z-F0LD

MFMP Comments: New FIS 2002

MNUSS NeedID 100000000010187 **Date of Need:** 9/17/1997

PENOBSCOT RIVER

Panel: 2301800029A

Need Desc: Changes to floodplain width **Length:** 2.3 **mi**

Anticipated BFE Change: Decreased By Between 1 and 5 feet

Location of Floodplain:

Need Notes: THIS IS AN 11X17 AND WILL HAVE TO BE FORMATTED TO A Z-F0LD

MFMP Comments: New FIS 2002

EXISTING MNUSS ENTRIES FOR PENOBSCOT COUNTY

ORRINGTON, TOWN OF

CID 230180 MNUSS Summary

MNUSS NeedID 100000000010162 **Date of Need:** 9/17/1997

Panel: 230180

Need Desc: Add LOMCs (per panel) **Length:** 0 **mi**

Anticipated BFE Change: Not Applicable

Location of Floodplain:

Need Notes: THIS IS AN 11X17 AND WILL HAVE TO BE FORMATTED TO A Z-FOLD.

MFMP Comments: DFIRM

MNUSS NeedID 100000000010187 **Date of Need:** 9/17/1997

PENOBSCOT RIVER

Panel: 2301800018A

Need Desc: Changes to floodplain width **Length:** 2.3 **mi**

Anticipated BFE Change: Decreased By Between 1 and 5 feet

Location of Floodplain:

Need Notes: THIS IS AN 11X17 AND WILL HAVE TO BE FORMATTED TO A Z-F0LD

MFMP Comments: New FIS 2002

EXISTING MNUSS ENTRIES FOR PENOBSCOT COUNTY

ORRINGTON, TOWN OF

CID 230180 MNUSS Summary

MNUSS NeedID 100000000010162 **Date of Need:** 9/17/1997

Panel: 230180

Need Desc: Add LOMCs (per panel) **Length:** 0 **mi**

Anticipated BFE Change: Not Applicable

Location of Floodplain:

Need Notes: THIS IS AN 11X17 AND WILL HAVE TO BE FORMATTED TO A Z-FOLD.

MFMP Comments: DFIRM

MNUSS NeedID 100000000010162 **Date of Need:** 9/17/1997

Panel: 230180

Need Desc: Add LOMCs (per panel) **Length:** 0 **mi**

Anticipated BFE Change: Not Applicable

Location of Floodplain:

Need Notes: THIS IS AN 11X17 AND WILL HAVE TO BE FORMATTED TO A Z-FOLD.

MFMP Comments: DFIRM

EXISTING MNUSS ENTRIES FOR PENOBSCOT COUNTY

ORRINGTON, TOWN OF

CID 230180 MNUSS Summary

MNUSS NeedID 100000000010187 **Date of Need:** 9/17/1997

PENOBSCOT RIVER

Panel: 2301800029A

Need Desc: Changes to floodplain width **Length:** 2.3 **mi**

Anticipated BFE Change: Decreased By Between 1 and 5 feet

Location of Floodplain:

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MNUSS NeedID 100000000010187 **Date of Need:** 9/17/1997

PENOBSCOT RIVER

Panel: 2301800014A

Need Desc: Changes to floodplain width **Length:** 2.3 **mi**

Anticipated BFE Change: Decreased By Between 1 and 5 feet

Location of Floodplain:

Need Notes: THIS IS AN 11X17 AND WILL HAVE TO BE FORMATTED TO A Z-F0LD

MFMP Comments: New FIS 2002

EXISTING MNUSS ENTRIES FOR PENOBSCOT COUNTY

ORRINGTON, TOWN OF

CID 230180 MNUSS Summary

MNUSS NeedID 100000000010187 **Date of Need:** 9/17/1997

PENOBSCOT RIVER

Panel: 2301800027A

Need Desc: Changes to floodplain width **Length:** 2.3 **mi**

Anticipated BFE Change: Decreased By Between 1 and 5 feet

Location of Floodplain:

Need Notes: THIS IS AN 11X17 AND WILL HAVE TO BE FORMATTED TO A Z-F0LD

MFMP Comments: New FIS 2002

MNUSS NeedID 100000000010187 **Date of Need:** 9/17/1997

PENOBSCOT RIVER

Panel: 2301800018A

Need Desc: Changes to floodplain width **Length:** 2.3 **mi**

Anticipated BFE Change: Decreased By Between 1 and 5 feet

Location of Floodplain:

Need Notes: Community is z-fold as of 7/17/02 (LMMP).

MFMP Comments: New FIS 2002

EXISTING MNUSS ENTRIES FOR PENOBSCOT COUNTY

ORRINGTON, TOWN OF

CID 230180 MNUSS Summary

MNUSS NeedID 100000000010187 **Date of Need:** 9/17/1997

PENOBSCOT RIVER

Panel: 2301800018A

Need Desc: Changes to floodplain width **Length:** 2.3 **mi**

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MNUSS NeedID 100000000010187 **Date of Need:** 9/17/1997

PENOBSCOT RIVER

Panel: 2301800018A

Need Desc: Changes to floodplain width **Length:** 2.3 **mi**

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EXISTING MNUSS ENTRIES FOR PENOBSCOT COUNTY

ORRINGTON, TOWN OF

CID 230180 MNUSS Summary

MNUSS NeedID 100000000010187 **Date of Need:** 9/17/1997

PENOBSCOT RIVER

Panel: 2301800027A

Need Desc: Changes to floodplain width **Length:** 2.3 **mi**

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Location of Floodplain:

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MNUSS NeedID 100000000010187 **Date of Need:** 9/17/1997

PENOBSCOT RIVER

Panel: 2301800027A

Need Desc: Changes to floodplain width **Length:** 2.3 **mi**

Anticipated BFE Change: Decreased By Between 1 and 5 feet

Location of Floodplain:

Need Notes: Community is z-fold as of 7/17/02 (LMMP).

MFMP Comments: New FIS 2002

EXISTING MNUSS ENTRIES FOR PENOBSCOT COUNTY

ORRINGTON, TOWN OF

CID 230180 MNUSS Summary

MNUSS NeedID 100000000010187 **Date of Need:** 9/17/1997

PENOBSCOT RIVER

Panel: 2301800027A

Need Desc: Changes to floodplain width **Length:** 2.3 **mi**

Anticipated BFE Change: Decreased By Between 1 and 5 feet

Location of Floodplain:

Need Notes: THIS IS AN 11X17 AND WILL HAVE TO BE FORMATTED TO A Z-F0LD

MFMP Comments: New FIS 2002

MNUSS NeedID 100000000010187 **Date of Need:** 9/17/1997

PENOBSCOT RIVER

Panel: 2301800014A

Need Desc: Changes to floodplain width **Length:** 2.3 **mi**

Anticipated BFE Change: Decreased By Between 1 and 5 feet

Location of Floodplain:

Need Notes: THIS IS AN 11X17 AND WILL HAVE TO BE FORMATTED TO A Z-F0LD

MFMP Comments: New FIS 2002

EXISTING MNUSS ENTRIES FOR PENOBSCOT COUNTY

VEAZIE, TOWN OF

CID 230403 MNUSS Summary

MNUSS NeedID 100000000010216 **Date of Need:** 11/6/1997

Panel: 2304030001B

Need Desc: Align map panels **Length:** 0 **mi**

Anticipated BFE Change: Not Applicable

Location of Floodplain:

Need Notes: UPDATE TO MAP INITIATIVES FORMAT

MFMP Comments: DFIRM

MNUSS NeedID 100000000010216 **Date of Need:** 11/6/1997

Panel: 2304030001B

Need Desc: Align map panels **Length:** 0 **mi**

Anticipated BFE Change: Not Applicable

Location of Floodplain:

Need Notes: UPDATE TO MAP INITIATIVES FORMAT

MFMP Comments: DFIRM

EXISTING MNUSS ENTRIES FOR PENOBSCOT COUNTY

VEAZIE, TOWN OF

CID 230403 MNUSS Summary

MNUSS NeedID 100000000010216

Date of Need: 11/6/1997

Panel: 2304030001B

Need Desc: Align map panels

Length: 0 **mi**

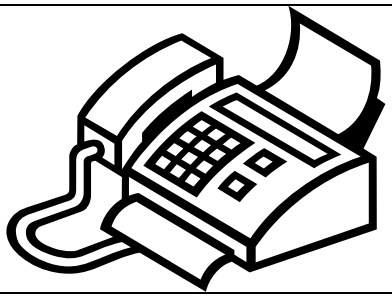
Anticipated BFE Change: Not Applicable

Location of Floodplain:

Need Notes: UPDATE TO MAP INITIATIVES FORMAT

MFMP Comments: DFIRM

Appendix D: Attachments



To: Tom Marcotte, CFM
State Planning Office
Floodplain Management Program
184 State Street, 38 State House Station
Augusta, Maine 04333-0038

Fax Number: (207) 287-6489

FAX back date: ____/____ /2006

Sign-up FAX From:

Community Name(s):

_____

Primary Community Contact For Floodplain Management:

Name:_____Ph #:_____

Attendance at Flood Map Modernization Scoping Meeting

The following community official(s) will attend the scoping meeting:

Penobscot County: Thursday, November 30th, 10:00 a.m. – 5:00 p. m.

Bangor City Hall– 73 Harlow Street, Bangor

Name: **Title:** **Phone #:**

1) _____ , _____ , _____

2) _____ , _____ , _____

3) _____ , _____ , _____

4) _____ , _____ , _____

Please indicate the best time for your community to meet with the scoping team:

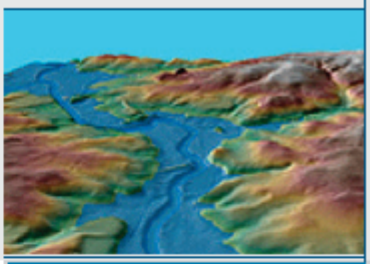
(a.m.) 10:00__, 10:30__, 11:00__, 11:30__.
(p.m.) 12:00__, 12:30__, 1:00__, 1:30__, 2:00__, 2:30__, 3:00__, 3:30__, 4:00__, 4:30__.

THANK YOU

MULTI-HAZARD FLOOD MAP MODERNIZATION

Multi-Hazard Flood Map Modernization

A POWERFUL TOOL FOR MULTIHAZARD RISK MANAGEMENT



WHY MODERNIZE?

Multi-Hazard Flood Map Modernization (Map Mod) is based on a solid foundation. The National Flood Insurance Program (NFIP) is the cornerstone of the Nation's strategy for preparing communities for flood disasters. Up-to-date flood hazard maps enable an actuarially sound flood insurance system, enable wise floodplain management, and increase the Nation's flood hazard awareness. The NFIP serves 4.5 million policyholders by providing $650 billion in coverage to structures and their contents.

Map Mod builds upon recommendations made by the Technical Mapping Advisory Council in 2000. The President's budget included an investment to bring flood hazard maps up to date. The 5-year Multi-Year Flood Hazard Identification Plan (MHIP) provides a roadmap that will enable easier regulatory compliance for government and businesses.

WHAT'S DIFFERENT?

Map Mod brings state-of-the-art technology. New engineering practices and tools will streamline studies and improve results. Capturing interim data throughout the process will improve the data quality and provide access to mapping products earlier in the mapping lifecycle. Spatial visualization techniques will provide easy viewing and analysis of the information. Data quality will also be enhanced through refined standards

HOW WILL IT HELP?

Map Mod enhances the ability to manage risks and other issues locally. Reliable flood data reflecting current conditions enables citizens to more reliably know their flood risk, and to purchase flood insurance based on actual risk. It also provides communities with a more comprehensive approach to disaster mitigation planning, economic development, and emergency response. Communities will be enabled to manage flood risks, water resources, land use, and other responsibilities more effectively. Communities will be empowered to update maps and data as risks change. Integration of multi-hazard data will provide a broader view of the total risk. Goals and outcomes will be aligned across mapping partners.

WHO WILL MAKE IT HAPPEN?

Map Mod is a collaborative process and a new way of doing business for government officials, cutting across all layers of government. Officials and other stakeholders will be active in mapping operations (e.g., collecting, updating, and adopting data). Leveraging of partnerships will allow States and communities to choose their level of involvement with Map Mod. The National Service Provider will improve national consistency, and bring innovative know-how to the program.

WHO BENEFITS?

Map Mod touches a broad stakeholder community who will see different benefits.

- **Community planners and local officials will gain a greater understanding of the flood hazards and risks that affect their community**
- **Builders and developers will have detailed information for making well-informed decisions on where to build and how they can affect flood zones**
- **Insurance agents and lending institutions will clearly understand map changes and what they need to do**
- **Home and business owners will be better informed about their current flood risks**

For more information, please visit www.fema.gov/fhm/mm_main.shtm **or** hazards.fema.gov

FEMA

NOVEMBER 2004

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

USGS science for a changing world

FEMA

November 6, 2006

Dear

Subject: Important Meeting on Updating Your Community's Flood Maps

Flooding has caused more than $150,000,000 in damages to Maine's cities and towns during the past twenty years. Coastal and riverine floods impact the lives of our citizens almost annually. Recently completed County Hazard Mitigation Plans identify flooding as the foremost natural hazard in the majority of our sixteen counties.

When the National Flood Insurance Program (NFIP) was established in 1968 it provided for a three part approach to reducing damage from flooding. The first part was the establishment of a flood insurance program overseen by the Flood Insurance Administration (FIA). The second part was the identification and mapping of the flood hazard. The third part was a requirement for communities that wanted to participate in the NFIP to adopt and enforce floodplain management regulations designed to control development in flood prone areas. Of the three parts of the NFIP the second component, mapping the hazard, is the glue that holds the program together. Communities cannot control development if they do not know what areas of their municipality are threatened by flooding. Flood insurance cannot be provided equitably unless insurance agents are able to determine the level of risk for a specific property.

Nationwide the current Flood Insurance Rate Maps (FIRM) are aging and some states, such as Maine, have maps that are on average more than twenty years old. Congress realized that this was a problem and in 2004 provided funding to FEMA to begin a comprehensive updating of the maps. This updating effort is called "Flood Map Modernization", Map Mod for short.

Maine has actively participated in Map Mod since its inception. To date we have remapping projects underway in York, Cumberland and Oxford counties and have met with community officials to discuss their flood mapping needs in Kennebec and Somerset counties. During this fall and winter we will be gathering information on mapping issues and concerns in Penobscot, Lincoln and Hancock counties. These meetings are designed to give municipal officials a chance to share with us any problems they have with their FIRMs and are called "Scoping Meetings" by FEMA.

Thursday, November 30th from 10:00 AM to 5:00 PM we will meet with officials from Penobscot County communities at Bangor City Hall.

During the Scoping Meeting we will meet with communities individually and review their current FIRM and discuss possible changes to the map to improve floodplain management at the local level.

We have attached two documents to this letter. One document is a **FAX-Back** form to allow you to sign up for a time during the day that is most convenient for you. We ask that you reply to us by **November 15th** so that we can schedule staff to meet with you. Our goal is to take no more than thirty minutes of your time to go over the maps, but we will use as much time as is necessary to get the best possible information about your community. The other document is a brief overview of the Map Mod process which can also be seen at our web-site *www.maine.gov/spo/flood*.

In preparation for the Scoping Meeting, we would like your community to identify flood mapping issues to be considered for study or review. It will be helpful to have the flooding issues prioritized and for you to be able to locate the areas of concern on the flood maps. In addition, it will also be beneficial to bring a brief narrative describing the reasons you would like to request that changes be made to the maps. This information will help us help you at the meeting and assist us in finalizing the scope of work necessary to update the maps. If your community is unable to attend the Scoping Meeting, 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.

If you have any questions regarding the Scoping Meeting or need additional information please feel free to contact Tom Marcotte at the State Planning Office (207-287-8051), Rob Dudley at USGS (207-622-8201 ext. 115) or Chuck Schalk at USGS (207-622-8201 ext. 111).

Thank you for your assistance with Map Mod.

Tom Marcotte, CFM
Maine Floodplain Management Program

Kerry Casserly
FEMA Region I

Rob Dudley, P.E.
USGS Maine Water Science Center

Penobscot County Community Interview Form
FEMA Map Modernization Program
November 30, 2006

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 and HIGHLIGHT areas of concern and on the MAPS provided.

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

_____

_____

_____

Do you have specific areas that flood (1% chance) but are not mapped in the floodplain or not mapped at all?
☐ Yes ☐ No

_____

_____

_____

Have any changes in hydraulic structures (bridges, culverts, dams) taken place that would change the maps since the effective maps were issued?
☐ Yes ☐ No

_____

_____

_____

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

_____

_____

_____

_____

Penobscot County Community Interview Form
FEMA Map Modernization Program
November 30, 2006

Community resources:

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

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

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

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

Does anyone in your community keep a record of high-water marks? Who? (fire/police/emergency services?)
☐ Yes ☐ No

Does your community partner with adjacent communities to manage flood sources along town boundaries?
☐ Yes ☐ No List communities here:

Interviewer: Review MNUSS entries and BAD with town representative ☐ Done and all OK, or ☐ Done and see notes

NOTES:

Appendix E: Census Block-Group (CBG) Data

[CID, Community Identification Number]

CBG	CID	Area, in square miles	Population density	Population density score	Population growth	Population growth score
230190002001	230102	0.25	3533.24	8.65	0.00	0.00
230190002002	230102	0.07	10084.65	9.36	0.00	0.00
230190002003	230102	0.07	8605.07	9.25	0.00	0.00
230190002004	230102	0.08	8809.01	9.26	0.00	0.00
230190002005	230102	0.26	2459.67	8.40	0.00	0.00
230190003001	230102	2.43	659.39	7.51	0.00	0.00
230190003002	230102	0.51	1243.23	7.94	0.00	0.00
230190003003	230102	0.28	3227.86	8.59	0.00	0.00
230190003004	230102	0.05	11150.48	9.42	0.00	0.00
230190003005	230102	0.07	7742.98	9.18	0.00	0.00
230190004001	230102	0.25	2255.67	8.34	0.00	0.00
230190004002	230102	0.12	4970.33	8.88	0.00	0.00
230190004003	230102	0.07	7966.71	9.20	0.00	0.00
230190004004	230102	0.10	8173.03	9.21	0.00	0.00
230190005001	230102	0.21	3500.19	8.64	0.00	0.00
230190005002	230102	0.08	5429.41	8.94	0.00	0.00
230190005003	230102	0.18	3961.07	8.72	0.00	0.00
230190005004	230102	0.20	3028.02	8.54	0.00	0.00
230190005005	230102	0.11	6251.18	9.03	0.00	0.00
230190005006	230102	0.09	7882.83	9.19	0.00	0.00
230190006001	230102	0.06	10326.71	9.37	0.00	0.00
230190006002	230102	0.06	8436.07	9.24	0.00	0.00
230190006003	230102	0.08	7771.01	9.18	0.00	0.00
230190006004	230102	0.10	6775.58	9.09	0.00	0.00
230190007001	230102	0.11	6099.73	9.02	0.00	0.00
230190007002	230102	0.07	8385.22	9.23	0.00	0.00
230190007003	230102	0.54	955.35	7.76	0.00	0.00
230190007004	230102	2.00	172.85	6.60	0.00	0.00
230190007005	230102	0.10	4762.90	8.85	0.00	0.00
230190007006	230102	0.69	559.83	7.40	0.00	0.00
230190007007	230102	3.51	31.33	5.45	0.00	0.00
230190009001	230102	3.14	183.85	6.65	0.00	0.00
230190009002	230102	0.12	5076.05	8.89	0.00	0.00
230190009003	230102	0.06	10176.75	9.36	0.00	0.00
230190009004	230102	0.83	1453.22	8.05	0.00	0.00
230190009005	230102	0.68	1361.11	8.00	0.00	0.00
230190009006	230102	0.14	3286.22	8.60	0.00	0.00
230190009007	230102	1.73	934.87	7.75	0.00	0.00
230190010001	230102	0.40	2178.58	8.32	0.00	0.00
230190011001	230102	7.88	139.51	6.46	0.00	0.00
230190011002	230102	5.59	231.86	6.80	0.00	0.00
230190011003	230102	0.97	888.01	7.71	0.00	0.00
230190011004	230102	0.65	2840.20	8.50	0.00	0.00
230190020001	230168	1.32	772.57	7.62	5.91	4.66
230190020002	230168	4.54	299.64	6.98	5.91	4.66
230190020003	230168	4.96	305.77	6.99	5.91	4.66
230190020004	230168	9.05	99.18	6.23	5.91	4.66
230190020005	230168	19.13	80.13	6.08	5.91	4.66
230190030001	230180	10.06	138.14	6.45	6.56	4.86
230190030002	230180	8.93	165.59	6.58	6.56	4.86
230190030003	230180	8.43	78.02	6.07	6.56	4.86
230190041001	230104	0.09	4874.54	8.86	0.00	0.00
230190041002	230104	0.27	2541.86	8.42	0.00	0.00
230190041003	230104	0.40	1889.96	8.22	0.00	0.00
230190042001	230104	0.47	943.52	7.75	0.00	0.00
230190042002	230104	5.42	303.28	6.98	0.00	0.00

230190042003	230104	0.39	1195.26	7.91	0.00	0.00
230190043001	230104	0.59	686.04	7.54	0.00	0.00
230190043002	230104	5.33	254.37	6.87	0.00	0.00
230190043003	230104	0.29	3087.91	8.56	0.00	0.00
230190043004	230104	0.16	6003.61	9.01	0.00	0.00
230190043006	230104	2.24	426.01	7.21	0.00	0.00
230190050001	230403	1.06	844.79	7.68	6.80	4.93
230190050002	230403	2.05	414.92	7.20	6.80	4.93
230190061001	230113	1.57	723.11	7.57	0.00	0.00
230190061002	230113	1.03	1187.48	7.91	0.00	0.00
230190062001	230113	1.11	648.32	7.50	0.00	0.00
230190062002	230113	11.63	73.89	6.03	0.00	0.00
230190062004	230113	2.78	337.55	7.06	0.00	0.00
230190063001	230113	0.60	2613.15	8.44	0.00	0.00
230190063002	230113	0.26	7803.84	9.18	0.00	0.00
230190063003	230113	0.65	1034.67	7.82	0.00	0.00
230190071001	230112	1.33	223.97	6.78	0.00	0.00
230190071002	230112	0.32	3995.02	8.73	0.00	0.00
230190071003	230112	1.48	462.66	7.27	0.00	0.00
230190071005	230112	0.18	4299.42	8.78	0.00	0.00
230190071006	230112	0.54	1216.87	7.93	0.00	0.00
230190071007	230112	0.11	4700.74	8.84	0.00	0.00
230190071008	230112	1.70	560.50	7.40	0.00	0.00
230190072001	230112	23.57	30.85	5.44	0.00	0.00
230190072004	230112	12.88	124.45	6.38	0.00	0.00
230190072005	230112	0.58	1087.35	7.85	0.00	0.00
230190080011	230103	50.87	24.41	5.28	9.33	5.52
230190080012	230110	10.61	94.56	6.20	2.29	2.87
230190080013	230110	35.19	55.33	5.83	2.29	2.87
230190080021	230919	0.87	644.20	7.49	0.00	0.00
230190080022	230919	3.25	0.62	2.79	0.00	0.00
230190080023	230919	16.49	0.00	0.00	0.00	0.00
230190090001	230378	35.82	20.74	5.17	22.41	7.18
230190090002	230382	14.10	83.76	6.11	5.39	4.49
230190090003	230382	12.42	70.12	5.99	5.39	4.49
230190090004	230390	9.39	86.76	6.14	0.00	0.00
230190090005	230390	8.05	95.24	6.20	0.00	0.00
230190090006	230390	14.66	84.91	6.12	0.00	0.00
230190100001	230389	11.36	153.09	6.52	18.16	6.78
230190100002	230389	14.94	120.79	6.36	18.16	6.78
230190100003	230389	10.40	85.88	6.13	18.16	6.78
230190110001	230375	14.84	84.59	6.12	26.76	7.51
230190110002	230375	22.14	52.44	5.80	26.76	7.51
230190120001	230379	30.96	45.03	5.69	5.85	4.64
230190125001	230399	31.26	40.20	5.62	9.11	5.48
230190125002	230381	36.49	29.18	5.40	5.76	4.61
230190130001	230398	2.12	436.62	7.23	0.00	0.00
230190130002	230398	10.92	124.22	6.38	0.00	0.00
230190130003	230398	23.91	30.78	5.44	0.00	0.00
230190135001	230402	36.63	26.78	5.34	15.82	6.52
230190135002	230385	24.64	41.07	5.63	3.58	3.72
230190140001	230397	17.30	53.70	5.81	0.00	0.00
230190140002	230397	22.15	54.89	5.83	0.00	0.00
230190150001	230105	5.77	199.51	6.70	0.00	0.00
230190150002	230105	6.02	134.94	6.44	0.00	0.00
230190150003	230105	6.70	80.49	6.09	0.00	0.00
230190150004	230105	18.68	74.29	6.03	0.00	0.00
230190155001	230387	38.05	26.02	5.32	0.00	0.00
230190155002	230386	38.44	25.94	5.32	6.40	4.81
230190160001	230376	40.23	34.73	5.52	17.69	6.73
230190170001	230380	20.22	71.38	6.01	15.34	6.46

230190170002	230380	19.94	53.56	5.81	15.34	6.46
230190180001	230912	29.97	72.43	6.02	33.44	7.93
230190190001	230108	16.79	69.75	5.99	0.00	0.00
230190200001	230106	15.26	122.85	6.37	23.95	7.30
230190200002	230106	14.02	148.98	6.50	23.95	7.30
230190205001	230373	41.31	28.71	5.39	7.52	5.12
230190205002	230392	40.19	34.66	5.52	32.92	7.90
230190215001	230383	84.54	10.00	4.68	0.00	0.00
230190215002	230101	69.49	15.38	4.97	5.84	4.64
230190225001	230114	23.11	19.08	5.11	3.04	3.41
230190225002	230107	44.04	32.26	5.47	8.56	5.36
230190245001	230404	44.27	9.49	4.64	0.00	0.00
230190245002	230394	84.83	9.99	4.67	1.56	2.15
230190245003	230374	212.14	4.55	4.14	0.00	0.00
230190255001	230463	139.43	4.06	4.07	0.00	0.00
230190255002	230609	166.45	3.52	3.97	40.00	8.27
230190255003	230174	37.80	21.83	5.20	0.00	0.00
230190265001	230175	30.66	29.68	5.41	0.00	0.00
230190265002	230175	11.15	51.92	5.79	0.00	0.00
230190265003	230377	87.41	9.28	4.62	18.78	6.84
230190270001	230109	21.75	61.62	5.91	0.00	0.00
230190270002	230109	2.07	204.12	6.72	0.00	0.00
230190270003	230109	7.78	66.74	5.96	0.00	0.00
230190270004	230109	9.42	67.40	5.97	0.00	0.00
230190270005	230109	33.82	68.15	5.97	0.00	0.00
230190280001	230384	17.25	34.50	5.51	9.49	5.55
230190280002	230384	15.92	64.14	5.93	9.49	5.55
230190285001	230391	8.85	136.97	6.45	0.00	0.00
230190285002	230391	87.59	3.17	3.90	0.00	0.00
230190290001	230462	37.41	6.60	4.39	0.00	0.00
230190290002	230115	38.50	28.86	5.39	0.00	0.00
230190290003	230401	39.97	10.13	4.68	0.00	0.00
230190290004	230617	1124.72	0.39	2.49	0.00	0.00
230190300001	230111	1.99	646.95	7.50	0.00	0.00
230190300002	230111	2.51	397.74	7.17	0.00	0.00
230190300003	230111	0.11	4810.84	8.86	0.00	0.00
230190300004	230111	0.34	2609.00	8.44	0.00	0.00
230190300005	230111	2.21	307.22	6.99	0.00	0.00
230190300006	230111	0.10	4034.32	8.74	0.00	0.00
230190300007	230111	4.79	86.46	6.14	0.00	0.00
230190310001	230163	0.64	652.44	7.50	0.00	0.00
230190310002	230163	0.31	2738.13	8.47	0.00	0.00
230190310003	230163	6.94	81.73	6.10	0.00	0.00
Minimum		0.05	0.00	0.00	0.00	0.00
Maximum		1124.72	11150.48	9.42	40.00	8.27
Mean		22.23	1697.79	6.90	3.32	1.48
Median		4.03	214.04	6.75	0.00	0.00

CBG	CID	Housing units density	Housing units density score	Claims density	Claims density score	Repetitive loss claims density	Repetitive loss claims density score
230190002001	230102	2082.16	8.34	0.00	0.00	0.00	0.00
230190002002	230102	4874.49	9.05	0.00	0.00	0.00	0.00
230190002003	230102	4393.12	8.96	0.00	0.00	0.00	0.00
230190002004	230102	5455.01	9.14	0.00	0.00	0.00	0.00
230190002005	230102	1799.20	8.21	34.16	8.44	15.18	7.61
230190003001	230102	306.84	6.73	0.00	0.00	0.00	0.00
230190003002	230102	279.78	6.65	0.00	0.00	0.00	0.00
230190003003	230102	1652.78	8.14	0.00	0.00	0.00	0.00
230190003004	230102	5398.08	9.14	0.00	0.00	0.00	0.00
230190003005	230102	3293.45	8.72	0.00	0.00	0.00	0.00
230190004001	230102	1002.07	7.72	0.00	0.00	0.00	0.00
230190004002	230102	2149.80	8.36	0.00	0.00	0.00	0.00
230190004003	230102	3210.46	8.70	0.00	0.00	0.00	0.00
230190004004	230102	4394.10	8.96	9.76	7.14	0.00	0.00
230190005001	230102	1602.44	8.12	0.00	0.00	0.00	0.00
230190005002	230102	2537.11	8.50	0.00	0.00	0.00	0.00
230190005003	230102	1843.95	8.23	0.00	0.00	0.00	0.00
230190005004	230102	1287.66	7.93	0.00	0.00	0.00	0.00
230190005005	230102	3177.45	8.69	0.00	0.00	0.00	0.00
230190005006	230102	4619.86	9.00	0.00	0.00	0.00	0.00
230190006001	230102	6665.57	9.31	0.00	0.00	0.00	0.00
230190006002	230102	4808.03	9.04	0.00	0.00	0.00	0.00
230190006003	230102	3794.85	8.84	0.00	0.00	0.00	0.00
230190006004	230102	3267.52	8.71	0.00	0.00	0.00	0.00
230190007001	230102	2806.62	8.59	0.00	0.00	0.00	0.00
230190007002	230102	3556.11	8.79	0.00	0.00	0.00	0.00
230190007003	230102	361.99	6.87	0.00	0.00	0.00	0.00
230190007004	230102	101.41	5.80	0.00	0.00	0.00	0.00
230190007005	230102	2171.63	8.37	0.00	0.00	0.00	0.00
230190007006	230102	282.07	6.66	0.00	0.00	0.00	0.00
230190007007	230102	0.57	1.46	0.00	0.00	0.00	0.00
230190009001	230102	80.61	5.61	0.00	0.00	0.00	0.00
230190009002	230102	2042.59	8.32	0.00	0.00	0.00	0.00
230190009003	230102	3499.38	8.77	0.00	0.00	0.00	0.00
230190009004	230102	594.61	7.29	0.00	0.00	0.00	0.00
230190009005	230102	673.94	7.39	0.00	0.00	0.00	0.00
230190009006	230102	1705.77	8.17	0.00	0.00	0.00	0.00
230190009007	230102	261.83	6.60	0.00	0.00	0.00	0.00
230190010001	230102	598.98	7.29	0.00	0.00	0.00	0.00
230190011001	230102	58.72	5.34	0.00	0.00	0.00	0.00
230190011002	230102	110.12	5.87	0.00	0.00	0.00	0.00
230190011003	230102	417.22	6.99	1.03	4.81	0.00	0.00
230190011004	230102	1421.63	8.02	0.00	0.00	0.00	0.00
230190020001	230168	336.20	6.81	0.00	0.00	0.00	0.00
230190020002	230168	116.47	5.92	0.00	0.00	0.00	0.00
230190020003	230168	130.81	6.02	0.20	3.12	0.00	0.00
230190020004	230168	39.10	5.00	0.00	0.00	0.00	0.00
230190020005	230168	29.79	4.78	0.00	0.00	0.00	0.00
230190030001	230180	61.62	5.39	0.00	0.00	0.00	0.00
230190030002	230180	68.01	5.47	0.00	0.00	0.00	0.00
230190030003	230180	31.06	4.81	0.00	0.00	0.00	0.00
230190041001	230104	2531.23	8.50	0.00	0.00	0.00	0.00
230190041002	230104	1195.50	7.87	0.00	0.00	0.00	0.00
230190041003	230104	970.05	7.70	0.00	0.00	0.00	0.00
230190042001	230104	455.71	7.06	0.00	0.00	0.00	0.00

230190042002	230104	111.31	5.88	0.00	0.00	0.00	0.00
230190042003	230104	523.74	7.18	0.00	0.00	0.00	0.00
230190043001	230104	320.04	6.77	0.00	0.00	0.00	0.00
230190043002	230104	110.95	5.88	0.00	0.00	0.00	0.00
230190043003	230104	1380.07	7.99	0.00	0.00	0.00	0.00
230190043004	230104	2752.69	8.57	0.00	0.00	0.00	0.00
230190043006	230104	219.24	6.45	0.00	0.00	0.00	0.00
230190050001	230403	375.04	6.90	0.00	0.00	0.00	0.00
230190050002	230403	180.68	6.29	0.00	0.00	0.00	0.00
230190061001	230113	364.10	6.87	0.00	0.00	0.00	0.00
230190061002	230113	530.47	7.19	1.95	5.47	0.00	0.00
230190062001	230113	259.51	6.59	0.00	0.00	0.00	0.00
230190062002	230113	36.73	4.95	0.09	2.23	0.00	0.00
230190062004	230113	153.10	6.15	0.00	0.00	0.00	0.00
230190063001	230113	673.44	7.39	0.00	0.00	0.00	0.00
230190063002	230113	3.88	3.07	0.00	0.00	0.00	0.00
230190063003	230113	369.53	6.89	0.00	0.00	0.00	0.00
230190071001	230112	90.49	5.71	0.00	0.00	0.00	0.00
230190071002	230112	2089.37	8.34	12.46	7.39	9.34	7.10
230190071003	230112	202.62	6.38	0.00	0.00	0.00	0.00
230190071005	230112	1857.57	8.24	0.00	0.00	0.00	0.00
230190071006	230112	677.26	7.39	1.84	5.41	0.00	0.00
230190071007	230112	1917.53	8.27	0.00	0.00	0.00	0.00
230190071008	230112	234.67	6.51	0.00	0.00	0.00	0.00
230190072001	230112	12.94	4.08	0.00	0.00	0.00	0.00
230190072004	230112	61.25	5.38	0.00	0.00	0.00	0.00
230190072005	230112	325.86	6.78	0.00	0.00	0.00	0.00
230190080011	230103	12.07	4.02	0.06	1.84	0.00	0.00
230190080012	230110	38.84	5.00	0.00	0.00	0.00	0.00
230190080013	230110	23.76	4.59	0.14	2.75	0.28	3.48
230190080021	230919	265.73	6.61	0.00	0.00	0.00	0.00
230190080022	230919	4.00	3.09	0.00	0.00	0.00	0.00
230190080023	230919	1.15	2.05	0.00	0.00	0.00	0.00
230190090001	230378	11.61	3.99	0.00	0.00	0.00	0.00
230190090002	230382	38.65	4.99	0.00	0.00	0.00	0.00
230190090003	230382	30.19	4.79	0.00	0.00	0.00	0.00
230190090004	230390	41.62	5.06	0.00	0.00	0.00	0.00
230190090005	230390	43.59	5.10	0.00	0.00	0.00	0.00
230190090006	230390	39.42	5.01	0.00	0.00	0.00	0.00
230190100001	230389	56.25	5.31	0.00	0.00	0.00	0.00
230190100002	230389	47.51	5.17	0.00	0.00	0.00	0.00
230190100003	230389	38.37	4.99	0.00	0.00	0.00	0.00
230190110001	230375	34.10	4.89	0.00	0.00	0.00	0.00
230190110002	230375	22.09	4.53	0.00	0.00	0.00	0.00
230190120001	230379	19.44	4.42	0.00	0.00	0.00	0.00
230190125001	230399	17.98	4.35	0.00	0.00	0.00	0.00
230190125002	230381	12.99	4.08	0.00	0.00	0.00	0.00
230190130001	230398	225.40	6.47	0.00	0.00	0.00	0.00
230190130002	230398	64.26	5.42	0.00	0.00	0.00	0.00
230190130003	230398	16.52	4.28	0.00	0.00	0.00	0.00
230190135001	230402	14.00	4.14	0.00	0.00	0.00	0.00
230190135002	230385	17.33	4.32	0.00	0.00	0.00	0.00
230190140001	230397	24.51	4.61	0.00	0.00	0.00	0.00
230190140002	230397	25.14	4.63	0.00	0.00	0.00	0.00
230190150001	230105	99.15	5.78	0.00	0.00	0.00	0.00
230190150002	230105	69.63	5.49	0.00	0.00	0.00	0.00
230190150003	230105	57.94	5.33	0.00	0.00	0.00	0.00
230190150004	230105	36.13	4.94	0.00	0.00	0.00	0.00
230190155001	230387	13.06	4.08	0.00	0.00	0.00	0.00
230190155002	230386	11.76	4.00	0.00	0.00	0.00	0.00
230190160001	230376	11.68	3.99	0.00	0.00	0.00	0.00

230190170001	230380	28.94	4.75	0.00	0.00	0.00	0.00
230190170002	230380	22.82	4.55	0.00	0.00	0.00	0.00
230190180001	230912	27.66	4.71	0.00	0.00	0.00	0.00
230190190001	230108	30.32	4.79	0.00	0.00	0.00	0.00
230190200001	230106	46.65	5.15	0.00	0.00	0.00	0.00
230190200002	230106	69.25	5.48	0.00	0.00	0.00	0.00
230190205001	230373	12.15	4.02	0.00	0.00	0.00	0.00
230190205002	230392	16.85	4.30	0.00	0.00	0.00	0.00
230190215001	230383	4.77	3.24	0.00	0.00	0.00	0.00
230190215002	230101	6.78	3.53	0.00	0.00	0.00	0.00
230190225001	230114	8.78	3.75	0.00	0.00	0.09	2.24
230190225002	230107	13.62	4.12	0.00	0.00	0.00	0.00
230190245001	230404	4.36	3.16	0.00	0.00	0.00	0.00
230190245002	230394	5.59	3.37	0.00	0.00	0.00	0.00
230190245003	230374	3.93	3.08	0.00	0.00	0.00	0.00
230190255001	230463	2.19	2.59	0.00	0.00	0.00	0.00
230190255002	230609	4.09	3.11	0.00	0.00	0.00	0.00
230190255003	230174	10.40	3.89	0.00	0.00	0.00	0.00
230190265001	230175	13.11	4.09	0.00	0.00	0.00	0.00
230190265002	230175	22.33	4.53	0.00	0.00	0.00	0.00
230190265003	230377	3.98	3.09	0.00	0.00	0.00	0.00
230190270001	230109	34.53	4.90	0.00	0.00	0.00	0.00
230190270002	230109	96.25	5.76	0.00	0.00	0.00	0.00
230190270003	230109	30.22	4.79	0.00	0.00	0.00	0.00
230190270004	230109	38.85	5.00	0.00	0.00	0.00	0.00
230190270005	230109	32.82	4.86	0.03	1.12	0.00	0.00
230190280001	230384	27.25	4.70	0.00	0.00	0.00	0.00
230190280002	230384	26.26	4.67	0.00	0.00	0.00	0.00
230190285001	230391	61.82	5.39	0.11	2.52	0.00	0.00
230190285002	230391	2.04	2.53	0.00	0.00	0.00	0.00
230190290001	230462	6.36	3.48	0.00	0.00	0.00	0.00
230190290002	230115	14.36	4.16	0.00	0.00	0.00	0.00
230190290003	230401	5.65	3.38	0.00	0.00	0.00	0.00
230190290004	230617	0.92	1.86	0.00	0.00	0.00	0.00
230190300001	230111	292.56	6.69	0.00	0.00	0.00	0.00
230190300002	230111	214.23	6.43	0.00	0.00	0.00	0.00
230190300003	230111	2294.68	8.42	0.00	0.00	0.00	0.00
230190300004	230111	1310.38	7.95	2.94	5.90	0.00	0.00
230190300005	230111	149.31	6.13	0.00	0.00	0.00	0.00
230190300006	230111	2931.26	8.62	10.21	7.19	0.00	0.00
230190300007	230111	49.70	5.21	0.00	0.00	0.00	0.00
230190310001	230163	370.81	6.89	0.00	0.00	0.00	0.00
230190310002	230163	1313.91	7.95	3.24	6.00	0.00	0.00
230190310003	230163	33.87	4.88	0.00	0.00	0.00	0.00
Minimum		0.57	1.46	0.00	0.00	0.00	0.00
Maximum		6665.57	9.31	34.16	8.44	15.18	7.61
Mean		797.65	5.98	0.49	0.45	0.16	0.13
Median		97.70	5.77	0.00	0.00	0.00	0.00

CBG	CID	Repetitive loss property density	Repetitive loss property density score	Policies density	Policies density score	Disasters	Disasters score	Final CBG risk score
230190002001	230102	0.00	0.00	0.00	0.00	8.00	4.71	21.69
230190002002	230102	0.00	0.00	0.00	0.00	8.00	4.71	23.11
230190002003	230102	0.00	0.00	0.00	0.00	8.00	4.71	22.92
230190002004	230102	0.00	0.00	25.31	7.88	8.00	4.71	31.00
230190002005	230102	7.59	7.88	75.92	8.73	8.00	4.71	53.98
230190003001	230102	0.00	0.00	0.41	4.68	8.00	4.71	23.63
230190003002	230102	0.00	0.00	0.00	0.00	8.00	4.71	19.30
230190003003	230102	0.00	0.00	0.00	0.00	8.00	4.71	21.43
230190003004	230102	0.00	0.00	0.00	0.00	8.00	4.71	23.27
230190003005	230102	0.00	0.00	0.00	0.00	8.00	4.71	22.60
230190004001	230102	0.00	0.00	0.00	0.00	8.00	4.71	20.77
230190004002	230102	0.00	0.00	0.00	0.00	8.00	4.71	21.95
230190004003	230102	0.00	0.00	0.00	0.00	8.00	4.71	22.60
230190004004	230102	0.00	0.00	0.00	0.00	8.00	4.71	30.03
230190005001	230102	0.00	0.00	0.00	0.00	8.00	4.71	21.46
230190005002	230102	0.00	0.00	0.00	0.00	8.00	4.71	22.15
230190005003	230102	0.00	0.00	0.00	0.00	8.00	4.71	21.66
230190005004	230102	0.00	0.00	0.00	0.00	8.00	4.71	21.18
230190005005	230102	0.00	0.00	0.00	0.00	8.00	4.71	22.43
230190005006	230102	0.00	0.00	0.00	0.00	8.00	4.71	22.90
230190006001	230102	0.00	0.00	0.00	0.00	8.00	4.71	23.39
230190006002	230102	0.00	0.00	0.00	0.00	8.00	4.71	22.98
230190006003	230102	0.00	0.00	0.00	0.00	8.00	4.71	22.73
230190006004	230102	0.00	0.00	0.00	0.00	8.00	4.71	22.51
230190007001	230102	0.00	0.00	0.00	0.00	8.00	4.71	22.31
230190007002	230102	0.00	0.00	0.00	0.00	8.00	4.71	22.72
230190007003	230102	0.00	0.00	0.00	0.00	8.00	4.71	19.34
230190007004	230102	0.00	0.00	0.00	0.00	8.00	4.71	17.11
230190007005	230102	0.00	0.00	0.00	0.00	8.00	4.71	21.93
230190007006	230102	0.00	0.00	0.00	0.00	8.00	4.71	18.77
230190007007	230102	0.00	0.00	0.28	4.39	8.00	4.71	16.01
230190009001	230102	0.00	0.00	0.32	4.48	8.00	4.71	21.44
230190009002	230102	0.00	0.00	0.00	0.00	8.00	4.71	21.92
230190009003	230102	0.00	0.00	0.00	0.00	8.00	4.71	22.84
230190009004	230102	0.00	0.00	0.00	0.00	8.00	4.71	20.04
230190009005	230102	0.00	0.00	0.00	0.00	8.00	4.71	20.10
230190009006	230102	0.00	0.00	0.00	0.00	8.00	4.71	21.47
230190009007	230102	0.00	0.00	0.00	0.00	8.00	4.71	19.05
230190010001	230102	0.00	0.00	17.69	7.60	8.00	4.71	27.92
230190011001	230102	0.00	0.00	0.13	3.76	8.00	4.71	20.27
230190011002	230102	0.00	0.00	0.00	0.00	8.00	4.71	17.38
230190011003	230102	0.00	0.00	0.00	0.00	8.00	4.71	24.22
230190011004	230102	0.00	0.00	0.00	0.00	8.00	4.71	21.22
230190020001	230168	0.00	0.00	3.04	6.23	8.00	4.71	30.02
230190020002	230168	0.00	0.00	0.00	0.00	8.00	4.71	22.26
230190020003	230168	0.00	0.00	0.60	4.98	8.00	4.71	30.47
230190020004	230168	0.00	0.00	0.11	3.66	8.00	4.71	24.26
230190020005	230168	0.00	0.00	0.10	3.61	8.00	4.71	23.84
230190030001	230180	0.00	0.00	0.00	0.00	8.00	4.71	21.40
230190030002	230180	0.00	0.00	0.11	3.67	8.00	4.71	25.27
230190030003	230180	0.00	0.00	0.36	4.57	8.00	4.71	25.01
230190041001	230104	0.00	0.00	22.11	7.78	8.00	4.71	29.85
230190041002	230104	0.00	0.00	3.77	6.40	8.00	4.71	27.40
230190041003	230104	0.00	0.00	0.00	0.00	8.00	4.71	20.63

230190042001	230104	0.00	0.00	0.00	0.00	8.00	4.71	19.52
230190042002	230104	0.00	0.00	0.00	0.00	8.00	4.71	17.57
230190042003	230104	0.00	0.00	0.00	0.00	8.00	4.71	19.80
230190043001	230104	0.00	0.00	6.81	6.86	8.00	4.71	25.87
230190043002	230104	0.00	0.00	0.19	4.07	8.00	4.71	21.52
230190043003	230104	0.00	0.00	0.00	0.00	8.00	4.71	21.25
230190043004	230104	0.00	0.00	0.00	0.00	8.00	4.71	22.28
230190043006	230104	0.00	0.00	0.00	0.00	8.00	4.71	18.37
230190050001	230403	0.00	0.00	0.00	0.00	8.00	4.71	24.21
230190050002	230403	0.00	0.00	0.00	0.00	8.00	4.71	23.12
230190061001	230113	0.00	0.00	3.18	6.27	8.00	4.71	25.42
230190061002	230113	0.00	0.00	2.92	6.20	8.00	4.71	31.48
230190062001	230113	0.00	0.00	3.62	6.37	8.00	4.71	25.16
230190062002	230113	0.00	0.00	1.12	5.46	8.00	4.71	23.38
230190062004	230113	0.00	0.00	0.36	4.58	8.00	4.71	22.49
230190063001	230113	0.00	0.00	0.00	0.00	8.00	4.71	20.54
230190063002	230113	0.00	0.00	0.00	0.00	8.00	4.71	16.96
230190063003	230113	0.00	0.00	0.00	0.00	8.00	4.71	19.41
230190071001	230112	0.00	0.00	0.75	5.15	8.00	4.71	22.34
230190071002	230112	3.11	6.82	34.25	8.12	8.00	4.71	51.21
230190071003	230112	0.00	0.00	10.13	7.17	8.00	4.71	25.53
230190071005	230112	0.00	0.00	0.00	0.00	8.00	4.71	21.73
230190071006	230112	0.00	0.00	7.34	6.92	8.00	4.71	32.35
230190071007	230112	0.00	0.00	37.23	8.18	8.00	4.71	29.99
230190071008	230112	0.00	0.00	1.18	5.50	8.00	4.71	24.11
230190072001	230112	0.00	0.00	0.08	3.45	8.00	4.71	17.67
230190072004	230112	0.00	0.00	0.70	5.09	8.00	4.71	21.56
230190072005	230112	0.00	0.00	0.00	0.00	8.00	4.71	19.34
230190080011	230103	0.00	0.00	0.20	4.10	8.00	4.71	25.47
230190080012	230110	0.00	0.00	0.19	4.07	8.00	4.71	22.84
230190080013	230110	0.06	2.06	0.71	5.10	8.00	4.71	31.39
230190080021	230919	0.00	0.00	2.30	6.02	8.00	4.71	24.83
230190080022	230919	0.00	0.00	0.00	0.00	8.00	4.71	10.59
230190080023	230919	0.00	0.00	0.00	0.00	8.00	4.71	6.76
230190090001	230378	0.00	0.00	0.03	2.59	8.00	4.71	23.63
230190090002	230382	0.00	0.00	0.14	3.85	8.00	4.71	24.15
230190090003	230382	0.00	0.00	0.00	0.00	8.00	4.71	19.98
230190090004	230390	0.00	0.00	0.11	3.63	8.00	4.71	19.53
230190090005	230390	0.00	0.00	0.25	4.29	8.00	4.71	20.29
230190090006	230390	0.00	0.00	0.07	3.28	8.00	4.71	19.12
230190100001	230389	0.00	0.00	0.00	0.00	8.00	4.71	23.32
230190100002	230389	0.00	0.00	0.00	0.00	8.00	4.71	23.02
230190100003	230389	0.00	0.00	0.19	4.09	8.00	4.71	26.69
230190110001	230375	0.00	0.00	0.00	0.00	8.00	4.71	23.23
230190110002	230375	0.00	0.00	0.00	0.00	8.00	4.71	22.54
230190120001	230379	0.00	0.00	0.00	0.00	8.00	4.71	19.46
230190125001	230399	0.00	0.00	0.16	3.94	8.00	4.71	24.10
230190125002	230381	0.00	0.00	0.05	3.11	8.00	4.71	21.91
230190130001	230398	0.00	0.00	1.42	5.64	8.00	4.71	24.05
230190130002	230398	0.00	0.00	0.37	4.59	8.00	4.71	21.10
230190130003	230398	0.00	0.00	0.04	2.90	8.00	4.71	17.33
230190135001	230402	0.00	0.00	0.11	3.65	8.00	4.71	24.36
230190135002	230385	0.00	0.00	0.04	2.88	8.00	4.71	21.25
230190140001	230397	0.00	0.00	0.00	0.00	8.00	4.71	15.13
230190140002	230397	0.00	0.00	0.05	2.96	8.00	4.71	18.13
230190150001	230105	0.00	0.00	0.00	0.00	8.00	4.71	17.19
230190150002	230105	0.00	0.00	0.83	5.23	8.00	4.71	21.86
230190150003	230105	0.00	0.00	0.30	4.43	8.00	4.71	20.56
230190150004	230105	0.00	0.00	0.00	0.00	8.00	4.71	15.68
230190155001	230387	0.00	0.00	0.03	2.54	8.00	4.71	16.65
230190155002	230386	0.00	0.00	0.00	0.00	8.00	4.71	18.84

230190160001	230376	0.00	0.00	0.02	2.50	8.00	4.71	23.44
230190170001	230380	0.00	0.00	0.00	0.00	8.00	4.71	21.93
230190170002	230380	0.00	0.00	0.00	0.00	8.00	4.71	21.53
230190180001	230912	0.00	0.00	0.03	2.73	8.00	4.71	26.09
230190190001	230108	0.00	0.00	0.30	4.43	8.00	4.71	19.91
230190200001	230106	0.00	0.00	0.07	3.25	8.00	4.71	26.78
230190200002	230106	0.00	0.00	1.28	5.56	8.00	4.71	29.56
230190205001	230373	0.00	0.00	0.02	2.48	8.00	4.71	21.71
230190205002	230392	0.00	0.00	0.47	4.79	8.00	4.71	27.21
230190215001	230383	0.00	0.00	0.01	1.92	8.00	4.71	14.54
230190215002	230101	0.00	0.00	0.01	2.07	8.00	4.71	19.92
230190225001	230114	0.04	1.74	1.04	5.40	8.00	4.71	26.36
230190225002	230107	0.00	0.00	0.07	3.28	8.00	4.71	22.94
230190245001	230404	0.00	0.00	0.02	2.42	8.00	4.71	14.93
230190245002	230394	0.00	0.00	0.00	0.00	8.00	4.71	14.90
230190245003	230374	0.00	0.00	0.06	3.20	8.00	4.71	15.12
230190255001	230463	0.00	0.00	0.00	0.00	8.00	4.71	11.36
230190255002	230609	0.00	0.00	0.00	0.00	8.00	4.71	20.06
230190255003	230174	0.00	0.00	0.05	3.08	8.00	4.71	16.89
230190265001	230175	0.00	0.00	0.00	0.00	8.00	4.71	14.21
230190265002	230175	0.00	0.00	0.00	0.00	8.00	4.71	15.03
230190265003	230377	0.00	0.00	0.00	0.00	8.00	4.71	19.26
230190270001	230109	0.00	0.00	0.09	3.51	8.00	4.71	19.03
230190270002	230109	0.00	0.00	4.35	6.51	8.00	4.71	23.69
230190270003	230109	0.00	0.00	0.13	3.77	8.00	4.71	19.23
230190270004	230109	0.00	0.00	0.00	0.00	8.00	4.71	15.67
230190270005	230109	0.00	0.00	0.06	3.17	8.00	4.71	19.83
230190280001	230384	0.00	0.00	0.00	0.00	8.00	4.71	20.47
230190280002	230384	0.00	0.00	0.00	0.00	8.00	4.71	20.86
230190285001	230391	0.00	0.00	1.47	5.67	8.00	4.71	24.72
230190285002	230391	0.00	0.00	0.16	3.94	8.00	4.71	15.08
230190290001	230462	0.00	0.00	0.00	0.00	8.00	4.71	12.58
230190290002	230115	0.00	0.00	0.10	3.61	8.00	4.71	17.87
230190290003	230401	0.00	0.00	0.05	3.04	8.00	4.71	15.81
230190290004	230617	0.00	0.00	0.00	0.00	8.00	4.71	9.05
230190300001	230111	0.00	0.00	0.00	0.00	8.00	4.71	18.89
230190300002	230111	0.00	0.00	0.00	0.00	8.00	4.71	18.30
230190300003	230111	0.00	0.00	26.58	7.92	8.00	4.71	29.90
230190300004	230111	0.00	0.00	5.88	6.75	8.00	4.71	33.74
230190300005	230111	0.00	0.00	0.45	4.75	8.00	4.71	22.58
230190300006	230111	0.00	0.00	0.00	0.00	8.00	4.71	29.25
230190300007	230111	0.00	0.00	0.00	0.00	8.00	4.71	16.05
230190310001	230163	0.00	0.00	0.00	0.00	8.00	4.71	19.10
230190310002	230163	0.00	0.00	0.00	0.00	8.00	4.71	27.13
230190310003	230163	0.00	0.00	0.00	0.00	8.00	4.71	15.69
Minimum		0.00	0.00	0.00	0.00	8.00	4.71	6.76
Maximum		7.59	7.88	75.92	8.73	8.00	4.71	53.98
Mean		0.07	0.12	1.94	2.22	8.00	4.71	21.97
Median		0.00	0.00	0.00	0.00	8.00	4.71	21.72