

SECTION 5 MITIGATION STRATEGIES

Mitigation Strategy
Requirement §201.6(c)(3): The plan shall include a mitigation strategy that provides the jurisdiction’s blueprint for reducing the potential losses identified in the risk assessment, based on existing authorities, policies, programs and resources, and its ability to expand on and improve these existing tools.

The following pages contain goals, objectives and strategic actions for each of the hazards identified earlier in this report, followed by a town by town summary of prioritized projects. The list of local projects was developed separately by each municipality. Local officials did not use formal, written criteria for the identification of local projects. Local officials relied on common sense, local knowledge of the frequency and extent of local damages, local knowledge of which projects were of the highest priority based on frequency and severity of damages, local knowledge of the weather, the geography and topography of the community, and the technical and financial abilities of their respective communities to address hazards and mitigate the impacts of hazards.

13. Local Hazard Mitigation Goals	
Requirement §201.6(c)(3)(i): (The hazard mitigation strategy shall include a) description of mitigation goals to reduce or avoid long-term vulnerabilities to the identified hazards.	
Element	A. Does the new or updated plan include a description of mitigation goals to reduce or avoid long-term vulnerabilities to the identified hazards?

A. Mitigation Goals

See revised Goal/Mission Statements for severe winter and severe summer storms (pages 5-3 through 5-5) flooding (page 5-5 through 5-6) and wildfires (page 5-6 through 5-7).

14. Identification and Analysis of Mitigation Actions	
Requirement §201.6(c)(3)(ii): (The mitigation strategy shall include a) section that identifies and analyzes a comprehensive range of specific mitigation actions and projects being considered to reduce the effects of each hazard, with particular emphasis on new and existing buildings and infrastructure.	
Elements	A. Does the new or updated plan identify and analyze a comprehensive range of specific mitigation actions and projects for each hazard?
	B. Do the identified actions and projects address reducing the effects of hazards on new buildings and infrastructure?
	C. Do the identified actions and projects address reducing the effects of hazards on existing buildings and infrastructure?

A. Comprehensive Range of Mitigation Actions and Projects

Pages 5-3 to 5-7 contain goals, objectives and strategic actions for each of the hazards identified earlier in this report, followed by a town by town summary of prioritized projects, pages 5-18 to 5-40.

The goals, objectives and mitigation actions were revised from the goals, objectives and mitigation actions contained in the 2006 plan. The Hazard Mitigation Planning Team relied heavily on MEMA

staff input as well as Hancock County EMA's contacts with individual municipalities for the development of the prioritized mitigation projects.

B. Actions and Projects that Reduce Hazards on New Buildings and Structures

Severe winter and severe summer storms:

Note: there are no actions related to new structures because storm-related hazards such as roof collapses are adequately covered by the State's new building code which became effective on December 15, 2010

Flooding: See 1A – C and town projects

Wildfires: See 2A and town projects

C. Actions and Projects that Reduce Hazards on Existing Buildings and Structures

Severe winter and severe summer storms:

Note: there are no actions related to existing structures because storm-related hazards such as roof collapses are adequately covered by the State's new building code which became effective on December 15, 2010; wind damages would be covered by homeowner's insurance

Flooding: See 1A – C and town projects

Wildfires: See 2A and town projects

SEVERE WINTER STORM

In Hancock County, the most likely damages caused by a severe winter storm event are the loss of electrical power from downed power transmission lines and the blockage of roadways from tree debris, winter snow and/or ice. Hancock County is very much subject to severe winter storm events. The coastal areas along the mainland and on the islands, which contain the vast majority of the county’s population, are more likely to experience ice storms as opposed to the northern sections of the County which experience more snow. The entire County is very susceptible to blizzards.

There is potential for loss of life caused by delayed responses from emergency services, the improper use of emergency heat sources, freezing conditions, and from storm-related vehicle accidents. Other types of general damage to personal and real property may be caused by blizzard or hurricane force winds. The very presence of a prolonged blizzard could hamper transportation routes in the area, resulting in some elderly or access & functional needs population isolated in their homes and at risk of hypothermia, lack of medications or food. Additionally, there could be losses of income for local businesses.

Goal/Mission Statement: Reduce loss of life, injury and property damage in Hancock County caused by severe winter storms.

**Table 1
General Goals, Objectives and Mitigation Actions**

Objectives	Mitigation Actions	Responsibility	Status/Rationale if no Action
1. Reduced real and personal property damages caused by severe winter storms	A. Educate the public about the potential dangers of severe winter storms using county website.	County EMA Director	New
	B. Develop / distribute education brochures, and/or pamphlets that can be distributed at workshops, trainings and exercise events.	County EMA Office	New
2. Assured power availability at Regional Shelters	A. Assess current backup power capability at Regional Shelters	County EMA Director	2012-2013 Coordinating with ARC during shelter inventory
	B. Monitor power during emergency situations	County EMA Director	New
3. Coordinated response with private sector utilities	A. Communicate status and needs of community to private utilities.	County EMA Office	New
	B. Serve as liaison with public safety officials and private utilities	County EMA Office	New
4. Coordinated restoration of critical transportation links	A. Communicate status and needs of community to public works and MDOT as necessary.	County EMA Office	New
	B. Serve as liaison between towns, public works and MDOT as necessary	County EMA Office	New

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SEVERE SUMMER STORMS

In Hancock County, the most likely damages caused by a severe summer storm event are the loss of electrical power from downed trees and electrical power lines, and the blockage of roadways from tree debris. Severe summer storms are seen as major thunderstorms, tropical storms and hurricanes in Hancock County. Thunderstorms are far more numerous and much less severe in effect and duration. The primary effect is in producing short-term high winds, to include micro-bursts. Tropical storms are a lot less likely than thunderstorms, but more likely than a hurricane. The ingredients for a major tropical storm or hurricane include a pre-existing weather disturbance, warm tropical oceans, moisture, and relatively light winds aloft.

There may be loss of life caused by delayed responses from emergency services, carbon monoxide poisoning from the improper use of backup power generation, debris falling on an individual, or from storm surge. A loss of life occurred in August of 2009 for another reason. While spectators watched the storm surge as Hurricane Bill passed two-hundred miles offshore of Hancock County, some of the spectators were swept into the Atlantic Ocean. Other types of general damage to personal and real property may be caused by hurricane winds, particularly to coastal structures, fishing equipment, and watercraft. A hurricane forecasted to severely impact Hancock County could reduce tourism, resulting in losses of income for local and regional businesses.

Goal/Mission Statement: Reduce loss of life, injury and property damage in Hancock County caused by severe summer storms.

Objectives	Mitigation Actions	Responsibility	Status/Rationale if no Action
1. Reduced real and personal property damages caused by severe winter storms	A. Educate the public about the potential dangers of severe summer storms using county website.	County EMA Director	New
	B. Develop education brochures, and/or pamphlets that can be distributed at workshops, trainings and exercise events.	County EMA Office	New
2. Assured power availability at Regional Shelters	A. Assess current backup power capability at Regional Shelters	County EMA Director	2012-2013 Coordinating with ARC during shelter inventory
	B. Monitor power during emergency situations	County EMA Director	New
3. Coordinated response with private sector utilities	A. Communicate status and needs of community to private utilities.	County EMA Office	New
	B. Serve as liaison with public safety officials and private utilities	County EMA Office	New
4. Coordinated restoration of critical transportation links	A. Communicate status and needs of community to public works and MDOT as necessary.	County EMA Office	New
	B. Serve as liaison between towns, public works and MDOT as necessary	County EMA Office	New

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FLOODING

In Hancock County, the most likely damages caused by flooding are the destruction of roadways caused by washouts and undercutting. Though there are very few critical facilities in the 100 year flood zone, there are several facilities that are located in the Hurricane Surge Inundation Areas. The result of a flash flooding could and did necessitate the evacuation and temporary closure of Blue Hill Memorial Hospital until cleaned and water supplies were tested. Most communities are using the FIRM information to control development in flood zones; however, there has been no use of the Hurricane Inundation Surge Areas to control development. There could be loss of life caused by delayed responses from emergency services during high water (river and lake) conditions. Flood waters may also contaminate public and private water supplies and damage personal and real property. Flooding may shut down businesses, resulting in major losses of income for local businesses and residents.

Objectives	Mitigation Actions	Responsibility	Status/Rationale if no Action
1. Reduced property damages caused by flooding	A. NFIP Participation. Encourage participation in the flood insurance program where there are flooding problems as well as actions needed to ensure municipal compliance with flood insurance requirements.	County EMA Director, Local EMA Directors, Property owners	33 municipalities participate in the NFIP; continue to encourage all 37 to participate
	B. Repetitive loss properties. Encourage municipalities to apply for funds to address repetitive loss properties, as long as it is cost beneficial.	Hancock EMA, Local EMA Directors, SPO, MEMA	New
	C. Ordinance Enforcement. Enforce local floodplain management ordinances so as to minimize future flood losses caused by new construction.	Code Enforcement Officers, Planning Boards	Continue to enforce as needed
	D. Improved maps. Encourage FEMA to improve the accuracy of flood insurance rate maps as new data such as LIDAR becomes available.	Hancock EMA, Local EMA Directors, Town Officials	Risk Map meetings in 2012; maps need to reflect actual risk
2. Ensured critical transportation links	A. Problem documentation. Encourage municipalities to document the costs of repairing recurring flood damages to ditches, culverts, roadway drainage systems and roads.	Hancock EMA, Local EMAs	New
	B. Best Practices. Where recurring problems can be documented, using tools such as the Road Tracker, encourage towns to participate in Maine DOT and other road building and maintenance best practices (see Appendix for copy of Road Tracker)	Hancock EMA, Municipal public works or contractor	New
	C. Grant Applications. Where recurring problems can be documented apply for grants to upgrade roads, culverts, ditches and drainage systems in accordance with plans for making roads safe from flooding.	Hancock EMA, Municipal public works or contractor	Lack of problem documentation has been an obstacle to achieving cost benefit. Encouraging towns to use the

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Objectives	Mitigation Actions	Responsibility	Status/Rationale if no Action
			Road Tracker to keep track of local expenditures

WILDFIRES

In Hancock County, the most likely damages caused by a wildfire are the loss of life and the destruction of personal and real property, especially homes. The loss of electricity is also possible, since many high voltage transmission lines pass through either wooded areas or wildland interface areas. Major wildfires could close commerce and infrastructure roadways, resulting in major losses to local businesses and individuals.

Goal/Mission Statement: Reduce loss of life, injury and property damage in Hancock County caused by wildfires.

Objectives	Mitigation Actions	Responsibility	Status/Rationale if no Action
1. Reduced property damages caused by wildfires.	A. Public education. Educate the public through links on the County EMA website to the Maine Forest Service website about the dangers of forest fires to existing and new structures, particularly during drought conditions.	Hancock EMA Hancock County Fire Fighter Association*	New
	B. Grant applications. Apply for grants to improve local fire protection capacities.	Municipal fire departments*	Apply as needed. Some local fire departments have applied for grants, when offered
2. Coordinated response with relevant authorities and agencies	A. Communication. Communicate status of community situation and needs during wildfire event	Hancock EMA Town Officials	New
	B. Liaison – Serve as liaison between local fire departments, state and federal agencies	Hancock EMA	New

*Members include: municipal fire departments, ME Forest Service and Hancock EMA

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Rating of Actions and Establishment of Priorities

The 2004 Hazard Mitigation Plan used the kind of rating table that better suited states with larger populations and bigger economies. It was decided that in the 2012 revision, Hancock County would use something more in line with its circumstances. The following tables used only the criteria of:

1. Life and property
2. Per cent of population benefited
3. Probability of community acceptance
4. Probability of funding
5. Feasibility of implementation

On a scale of 1-3, each criterion was rated with one being the lowest rating and three being the highest to add up to a total score:

Rating of Severe Winter Storm Mitigation Actions						
	Life/ Property	% of Population Benefited	Probability Community Acceptance	Probability of Funding	Feasibility of Implementation	Total Score
1A Education	3	3	3	3	3	15
1B Brochures	3	1	3	2	2	11
2A Assessments	3	3	3	2	2	13
2B Monitoring	3	1	2	2	2	10
3A Needs / power	3	3	3	1	3	13
3B Liaison / power	3	3	3	3	2	14
4A Needs / trans	3	3	3	2	2	13
4B Liaison / trans	3	3	3	3	3	15

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Rating of Severe Summer Storm Mitigation Actions						
	Life/ Property	% of Population Benefited	Probability Community Acceptance	Probability of Funding	Feasibility of Implementation	Total Score
1A Education	3	3	3	1	2	12
1B Brochures	3	1	3	2	2	11
2A Assessments	3	3	3	2	2	13
2B Monitoring	3	1	2	1	1	8
3A Needs / power	3	3	3	1	3	13
3B Liaison / power	3	3	3	3	3	15
4A Needs / trans	2	1	3	1	3	10
4B Liaison / trans	2	1	2	2	3	10

Rating of Flooding Mitigation Actions						
	Life/ Property	% of Population Benefited	Probability Community Acceptance	Probability of Funding	Feasibility of Implementation	Total Score
1A NFIP Participation	3	1	1	1	2	8
1B Rep loss	3	1	2	1	3	10
1C Ordinances	3	1	2	1	2	9
1D Improved maps	3	3	3	1	2	12
2A Documentation	3	1	3	1	1	9
2B Best practices	2	2	3	1	3	11
2C Grants	3	2	2	1	1	9

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Rating of Wildfire Mitigation Actions						
	Life/ Property	% of Population Benefited	Probability Community Acceptance	Probability of Funding	Feasibility of Implementation	Total Score
1A Education	3	2	3	2	3	13
1B Grants	2	1	2	1	1	7
2A Communication	3	1	3	3	3	13
2B Liaison	3	1	3	3	3	13

PRIORITIZED MITIGATION PROJECTS

Projects listed in priority order- The biggest change in this part of the revision is that generic actions have been replaced with more specific, measureable projects. All of the municipalities in Hancock County identified one or more mitigation projects consistent with the County-wide goals, objectives and actions, to mitigate hazards at the local level. The jurisdictions, as well as the specific actions they will pursue, are listed in priority order in the following table. The time frames shown are based upon the availability of materials and funding.

Criteria for prioritization- The list of local projects was developed separately by each municipality, utilizing review of its budgeting process, relevant boards, and ultimately its annual town meeting—a very public and open forum. Local officials did not use formal, written criteria for the identification of local projects. Local officials relied on common sense, local knowledge of the frequency and extent of local damages, local knowledge of which projects were of the highest priority, based on frequency and severity of damages, local knowledge of the weather, the geography and topography of the community, and the technical and financial abilities of their respective communities to address hazards and mitigate the impacts of hazards.

How the actions will be implemented- The following table identifies a timeframe for each project, and identifies one or more parties who will be responsible for implementation. If the towns apply for grant funds, a benefit/cost analysis will be undertaken.

Status of completed, deleted or deferred projects - The following table contains the prioritized list of town projects, including a status column.

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Towns in Hancock County	Potential Project	Cost estimate 2011-12	Time line	Responsible Agency	Status as of 2012
Amherst	(1) Tanner Loop Rd- <u>-Scope:</u> Ditch (2,500ft), upsize to (5) 18" x 30' HDPE & (5) 18" x 40' HDPE culverts, add 8" x 2,500' x 18' base gravel.	\$123,000	6-8 weeks	Road Commissioner	New Project
	(2) Smith Rd- <u>Scope:</u> Ditch (1,200ft), add 8" x 1,200' x 18' base gravel.	\$27,500	2-4 weeks	Board of Selectmen	New Project
	(3) Jordan Farm Pond- <u>Scope:</u> Install dry hydrant.	\$1,500	2-4 weeks	Board of Selectmen	New Project
	(4) Henderson Subdivision- <u>Scope:</u> Dig fire pond and install dry hydrant.	\$4,500	2-4 weeks	Board of Selectmen	New Project
	(5) Smith Road @ Harrys Brook <u>Scope:</u> Install dry hydrant.	\$1,500	2-4 weeks	Board of Selectmen	New Project
Aurora Bar Harbor	(1) Great Pond Rd- <u>Scope:</u> Ditch (5,000ft), upsize (3) 15" x 40' culverts.	\$22,000	2-4 weeks	Road Commissioner	New Project
	(1) White Spruce Road- <u>-Scope:</u> Blasting, add new ditching (300ft), upsize 3, 18 inch culverts to 24 inch culverts. <u>-Materials:</u> Rip rap, geosynthetics, gravel, 3, 24" x 30ft HDPE culverts.	\$150,000	8-10 weeks	DPW	New Project
	(2) Crooked Road @ Norway Drive (section 1)- <u>Scope:</u> Upgrade (2) CMP arch culverts to 1, pre-cast box culvert. <u>-Materials:</u> 1 pre-cast box culvert (size unknown), gravel, geosynthetics, rip rap...	\$116,000	6-8 weeks	DPW	New Project

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	<p>(3) Crooked Road @ Norway Drive (section 2)-<u>Scope</u>: Upsize 1, 18 inch culvert to a 24 inch HDPE culvert. <u>Materials</u>: 24" x 40 foot HDPE culvert, gravel, rip rap, geosynthetics...</p>	\$26,000	2-4 weeks	DPW	New Project
	<p>(4) Norway Drive- <u>Scope</u>: Upsize 1, 24" culvert to a 48" HDPE culvert, elevate road, repave... <u>Materials</u>: 1 24" x 30ft HDPE culvert, gravel, geosynthetics, rip rap...</p>	\$50,000	2-4 weeks	DPW	New Project
	<p>(5) Cromwell Harbor Road- <u>Scope</u>: Demo and remove current bridge, upgrade to pre-cast, bottomless box culvert, install rip rap and fabric, repave. <u>Materials</u>: 1 pre-cast, bottomless box culvert, geosynthetics, rip rap, gravel, pavement.</p>	\$180,000	10-12 weeks	DPW	New Project
	<p>(6) MDI Hospital (drainage issues)- <u>Scope</u>: Blast ledge, Install 1,200ft of drainage pipe to coast (from Hospital, under Wayman Ave, to coast), repave... <u>Materials</u>: 1,200 feet of drain pipe, explosive, gravel, pavement.</p>	\$250,000	8-10 weeks	City Council, Hospital Admin, DPW	New Project; ER has had to be closed from fear of flooding, ambulances can't get in...
	<p>(7) Public Safety Building- -Possible seismic retrofit...</p>	\$500,000	6-12 months	City Council; contractors	New Project; 6,500 sq.ft cement foundation
Blue Hill	<p>(1) Stover Road- <u>Scope</u>: Ditch (5,000ft), add (2) 15" x 30ft and (1) 24" x 30ft HDPE culverts, rip rap (600ft x 3ft), fabric. <u>Materials</u>: (2) 15" x 30ft HDPE culverts, (1) 24" x 30ft HDPE culvert, rip rap, gravel, geotextile fabric...</p>	\$250,000	6-8 weeks	Road Commissioner	No progress; lack of funding

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	<p>(2) Kingdom Road @ Woods Hill (section 1)- -Scope: Blast ledge, ditch (2,400ft), rip rap (800ft x 3ft), place geotextile (300ft x 20ft), install under-drains, add (4) 15" x 30ft and (1) 24" x 30ft HDPE culverts, and base and surface gravel... -Materials: (4) 15" x 30ft culverts, (1) 24" x 30ft culvert, rip rap, gravel, geosynthetics, under-drains, explosive...</p>	\$150,000	8-10 weeks	Road Commissioner	New Project
	<p>(3) Kingdom Road @ Fourth Pond (section 2)- -Scope: Elevate road (600ft x 20ft x 1ft), add geosynthetics, ditch (1,600ft)... -Materials: Gravel, fill, geosynthetics, rip rap...</p>	\$25,000	2-4 weeks	Road Commissioner	New Project
	<p>(4) Kingdom Road @ Cookmans Hill (section 3)- -Scope: Add (2) 15" x 30ft HDPE culverts, ditch (2,000ft), rip rap (500ft x 3ft), add gravel (1,000ft x 20ft). -Materials: (2) 15" x 30ft HDPE culverts, rip rap, gravel, geosynthetics.</p>	\$35,000	2-4 weeks	Road Commissioner	New Project
	<p>(5) Grindleville Road (lower end)- -Scope: Blast ledge, ditch (2,000ft), install geosynthetics (1,000ft x 20ft), rip rap (500ft x 3ft), add gravel (1,000ft x 20ft x 1ft). -Materials: Explosive, rip rap, gravel, geosynthetics...</p>	\$45,000	6-8 weeks	Road Commissioner	New Project
Brooklin	<p>(1) Dodges Wharf Road- -Scope: Ditch (1,000ft), re-shape shoulder, rip rap, hay and seed. -Materials: Rip rap, gravel, geosynthetics, hay and seed.</p>	\$30,000	2-4 weeks	Road Commissioner	New Project

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	<p>(2) Naskeag Point (Stone Bridge)- <u>-Scope:</u> Upgrade to bottomless box culvert (5ft), re-shape shoulder, rip rap, repave... <u>-Materials:</u> Concrete, bottomless box culvert, rip rap, gravel, geosynthetics, pavement.</p>	\$60,000	6-8 weeks	Road Commissioner	New Project; potential beaver flooding problem. Project is priority for the town
	<p>(3) Hales Hill Road- <u>-Scope:</u> Blast where needed, upsize (2) 18" x 30ft culverts to (2) 24" x 30ft HDPE culverts, ditch (1,000ft), elevate road to accommodate culverts, install geosynthetics, hay and seed... <u>-Materials:</u> Explosives, (2) HDPE 24" x 30ft culverts, geosynthetics, gravel, rip rap, hay and seed...</p>	\$75,000	8-10 weeks	Road Commissioner	New Project; town has records for BCA
Brooksville	<p>(1) Herrick Road- <u>-Scope:</u> Blast where needed, ditch (1,000ft)... <u>-Materials:</u> Explosive, gravel, rip rap, hay and seed</p>	\$30,000	2-4 weeks	Road Commissioner	Enlarged culvert with town funds.
	<p>(2) Varnumville Road- <u>-Scope:</u> Add (3) 48" x 40ft HDPE culverts, stabilize slope, elevate road to accommodate new culverts (400ft x 24ft x 20ft), repave. <u>-Materials:</u> (3) 48" x 40ft HDPE culverts, gravel, rip rap, geosynthetics, pavement, hay and seed.</p>	\$70,000	8-10 weeks	Road Commissioner	Enlarged culvert with town funds.
	<p>(3) Back Road @ Indian Barr Road- <u>-Scope:</u> Ditch (5,000ft), line ditches, upsize (5) 18" x 25ft culverts, upsize (5) 18" x 40ft culverts... <u>-Materials:</u> Rip rap, gravel, geosynthetics, (5) 24" x 30ft HDPE culverts, (5) 24" x 50ft HDPE culverts, hay and seed...</p>	\$65,000	4-6 weeks	Road Commissioner	New Project

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	<p>(4) Norumbaga Road- <u>-Scope:</u> Ditch (5,000ft), line ditches, add (2) 18" x 40ft HDPE culverts, hay and seed... <u>-Materials:</u> (2) 18" x 40ft HDPE culverts, rip rap, gravel, geosynthetics, hay and seed.</p>	\$40,000	4-6 weeks	Road Commissioner	Project finished with Town funds
	<p>(5) Cornfield Hill Road- <u>-Scope:</u> Ditch (300ft), upsize culvert (size unknown), rip rap and armor ditches. <u>-Materials:</u> HDPE culvert (size unknown), rip rap, gravel, geosynthetics, hay and seed...</p>	\$40,000	4-6 weeks	Road Commissioner	New Project
Bucksport	<p>(1) Silver Lake Road- <u>-Scope:</u> Add (1) 48" x 60ft HDPE relief culvert, elevate road (6 inches) to accommodate culvert, rip rap, repave. <u>-Materials:</u> (1) 48" x 60ft HDPE culvert, gravel, rip rap, geosynthetics, pavement, hay and seed.</p>	\$30,000	4-6 weeks	Road Commissioner	Project has had an engineering study. Challenges include natural gas lines present and beavers!
	<p>(2) Town Site (40 homes)- <u>-Scope:</u> Install 950ft of 24" drainage pipe, install 8 catch basins. <u>-Materials:</u> 950ft of drainage pipe, 8 catch basins, gravel, geosynthetics, hay and seed.</p>	\$110,000	8-10 weeks	Town Manager/PW Dept.	Town wants to improve drainage to neighborhood built in 1940"s. -currently being completed-
	<p>(3) Broadway- <u>-Scope:</u> Upsize culvert to 36" x 60ft, add 1 catch basin, rip rap, repave. <u>-Materials:</u> (1) 36" x 60ft HDPE culvert, Catch basin, rip rap, pavement, geosynthetics, hay and seed.</p>	\$30,000	4-6 weeks	Road Commissioner	New Project
Castine	<p>(1) Perkins Street- <u>-Scope:</u> Repave (scope changed to include entire block).</p>	\$500,000	2-4 weeks	Road Commissioner	Completed; capitol improvement
	<p>(2) Water Street- <u>-Scope:</u> Stabilize bank (100ft x 12ft x 3ft), rip rap.</p>	\$60,000	4-6 weeks	Road Commissioner	completed

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	(3) Install emergency backup generator for water supply. 30k 3-phase with wiring.	\$65,000	2-4 weeks	Town Manager/EM director	completed
	(4) Main Street- Install new drainage, replace undersized culverts. Phase 2 of 20 year plan.	\$1,051,000	2014	Town Manager/EM director	This would be phase 2 of 20 year capital improvement plan.
Cranberry Islands	(1) Northwood Road- <u>-Scope:</u> Blast where needed, upsize (3) 24" x 40ft culverts to (3) 36" x 40ft HDPE culverts. <u>-Materials:</u> Explosives, (3) 36" x 40ft HDPE culverts, gravel, geosynthetics, rip rap.	\$20,000	6-8 weeks	Town Manager	Used town funds to do some blasting...
	(2) Jimmy's Point Road- <u>-Scope:</u> Blast where needed, ditch (200ft), add culverts if necessary. <u>-Materials:</u> Explosive, culverts, geosynthetics, gravel, hay and seed.	\$10,000	2-4 weeks	Town Manager	New Project
	(3) Heilker Road- <u>-Scope:</u> Ditch (750ft)	\$4,000	1-2 weeks	Town Manager	New Project
	(4) Manset Facility (Parking, storage, rental space)- <u>-Scope:</u> Improve drainage around facility, install 1500ft of underground, 24" pipe, install (4) catch basins. = <u>-Materials:</u> 1500ft of 24" drainage pipe, (4) catch basins, pavement, gravel, geosynthetics	\$50,000	8-10 weeks	Town Manager	New Project; there is history of damages
	(5) Main Road (underground drainage project)- <u>-Scope:</u> Install 250ft of 18 inch drainage pipe, install catch basin, minor road work. <u>-Materials:</u> 250ft of 18" drainage pipe, gravel, catch basin, hay and seed, geosynthetics.	\$25,000	4-6 weeks	Town Manager	New Project
	(6) Town Boat Ramp- <u>-Scope:</u> Blast where necessary (along 500ft of road), add (1) 18" x 40ft HDPE culvert, rip rap. <u>-Materials:</u> Explosive, (1) 18" x 40ft HDPE culvert, rip rap, geosynthetics, gravel.	\$25,000	4-6 weeks	Town Manager	New Project

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	Town Sea Wall- Completed	N/A	8-10 weeks	Town Manager	Town budgeted for and fixed the seawall.
Dedham	Inspect all culverts and drainage systems; note: effective March 2011, town is participating in the NFIP	\$1,000	Dec. 2005	Road Commissioner	New Project
Deer Isle	(1) Lowe Road- - <u>Scope</u> : Ditch (5,000ft), upsize (4) 15" x 40ft culverts, hay and seed. - <u>Materials</u> : (4) 15" x 40ft HDPE culverts, geosynthetics, hay and seed, gravel, rip rap.	\$25,000	4-6 weeks	Road Commissioner	New Project
	(2) Dunham Point Road- - <u>Scope</u> : Ditch (300ft), upgrade current culvert to 3ft bottomless box culvert, repave. - <u>Materials</u> : Concrete bottomless box culvert (size unknown), gravel, geosynthetics, hay and seed, pavement.	\$40,000	6-8 weeks	Road Commissioner	New Project
	(3) Sunshine Village (East Side Road)- - <u>Scope</u> : Ditch (500ft), upsize (1) 24" x 30ft culvert to (1) 36" x 30ft HDPE culvert, hay and seed. - <u>Materials</u> : (1) 36" x 30ft HDPE culvert, geosynthetics, gravel, hay and seed...	\$10,000	2-4 weeks	Road Commissioner	New Project
	(4) Sunshine Road- - <u>Scope</u> : Ditch (500ft), upsize (1) 24" x 30ft culvert to (1) 36" x 30ft HDPE culvert. - <u>Materials</u> : (1) 36" x 30ft HDPE culvert, gravel, rip rap, geosynthetics, hay and seed.	\$10,000	2-4 weeks	Road Commissioner	New Project
	(5) Dow Road- - <u>Scope</u> : New ditching (2,000ft)	\$15,000	4-6 weeks	Road Commissioner	New Project

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	<p>(6) Reach Road- <u>-Scope:</u> Upsize (1) 36" x 40ft culvert, rip rap, repave. <u>-Materials:</u> New culvert (size unknown), rip rap, pavement, gravel, geosynthetics, hay and seed.</p>	\$20,000	4-6 weeks	Road Commissioner	New Project
	<p>(7) King Beach Hill Road-<u>-Scope:</u> Add new 24" x 30ft HDPE culvert, rip rap, hay and seed. <u>-Materials:</u> (1) 24" x 30ft HDPE culvert, rip rap, geosynthetics, gravel, hay and seed.</p>	\$15,000	2-4 weeks	Road Commissioner	New Project
Eastbrook	<p>(1) Neck Hill Road (section 1)-<u>-Scope:</u> Ditching (?), rip rap (?), Add new culverts (size unknown), hay and seed. <u>-Materials:</u> Rip rap, culverts, geosynthetics, gravel, hay and seed.</p>	\$60,000	4-6 weeks	Road Commissioner	New Project
	<p>(2) Neck Hill Road (section 2)- <u>-Scope:</u> Ditching (?), rip rap (?), Add new culverts (size unknown), hay and seed. <u>-Materials:</u> Rip rap, culverts, geosynthetics, gravel, hay and seed.</p>	\$60,000	4-6 weeks	Road Commissioner	New Project
	<p>(3) Sugar Hill Road- <u>-Scope:</u> Ditching (?), rip rap (?), Add new culverts (size unknown), hay and seed. <u>-Materials:</u> Rip rap, culverts, geosynthetics, gravel, hay and seed.</p>	\$40,000	4-6 weeks	Road Commissioner	New Project
	<p>(4) Relocate emergency shelter to Municipal Building. Build shed for emergency generator and hard wire.</p>	\$15,000	6-8 weeks	Fire Chief	No progress; fourth priority
Ellsworth	<p>(1) Beechland Rd: upsize 4' elliptical pipe to 3' x 10' x 60' box & repave.</p>	\$65,000	4 weeks	Public Works	Identified in 2007 and completed in 2010
	<p>(2) Shore Rd: elevate 300' x 24' x 2' & repave</p>	\$22,000	2 weeks	Public Works	New Project

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	(3) Hansons Landing: upsize existing 36" x 40' CMP to 48" x 60" x 40' box culvert.	\$48,000	4 weeks	Public Works	New Project
	(4) Spindle Rd: upsize existing twin culverts to 36" x 50' HDPE culvert.	\$48,000	4 weeks	Public Works	New Project
	(5) Nicolin Rd. aka Green Lake Rd: ditch and line 300' and add 24" x 40' HDPE culvert	\$5,000	2 weeks	Public Works	New Project
Franklin	<p>(1) South Bay Road- <u>-Scope:</u> Blast where necessary, ditch (5,000ft), elevate road (12,000ft x 2ft x 25ft), add (10) 24" x 40ft HDPE culverts, armor shoulders... <u>-Materials:</u> Explosive, gravel, (10) 24" x 40ft HDPE culverts, rip rap, geosynthetics, hay and seed...</p>	\$270,000	10-12 weeks	Road Commissioner	Some work done with town funds; additional funding is needed to complete
	<p>(2) Macomber Road- <u>-Scope:</u> Elevate road (10,000ft x 2ft x 20ft), add (15) 24" x 40ft HDPE culverts, hay and seed... <u>-Materials:</u> Gravel, (15) 24" x 40ft HDPE culverts, geosynthetics, rip rap, hay and seed</p>	\$240,000	10-12 weeks	Road Commissioner	New Project
Frenchboro	(1) Place concrete slabs 20' x 12' x 12" on town boat ramp to stabilize driving surface at town landing.	\$18,000	4 weeks	Road Commissioner	New Project
Gouldsboro	<p>(1) Guzzel Road Bridge- <u>-Scope:</u> (Option 1) Remove wooden beams and decking. Remove concrete block abutments, replace with poured concrete abutments. Replace wooden structure with steel. (Option 2) Replace bridge with concrete bottomless box culvert (size unknown). <u>-Materials:</u> (Option 1) Concrete, gravel, steel beams and decking, rip rap, geosynthetics, hay and seed, etc.. (Option 2) Concrete bottomless box culvert, gravel, rip rap, geosynthetics, hay and seed.</p>	\$100,000	8-10 weeks	Town Manager, Select board, Road Commissioner	Project has increased in scope since the last plan update; would need additional funding.

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	<p>(2) Paul Bunion Road- <u>-Scope:</u> Elevate road bed (2,600ft x 1ft x 22ft), add (1) 24" x 40ft HDPE culvert. <u>-Materials:</u> Gravel, (1) 24" x 40ft HDPE culvert, rip rap, geosynthetics, hay and seed.</p>	\$60,000	6-8 weeks	Road Commissioner	Project Identified in 2007 - No progress without additional funding.
	<p>(3) Peninsula Road- <u>-Scope:</u> Upsize culvert from 30" x (?), to 48" x 60ft HDPE culvert, elevate road (dimensions unknown), install geosynthetics, rip rap (6 truck-loads), install guardrails, hay and seed. <u>-Materials:</u> (1) 48" x 60ft HDPE culvert, gravel, geosynthetics, guardrail, rip rap, hay and seed.</p>	\$150,000	8-10 weeks	Road Commissioner	New Project
	<p>(4) Shore Road - Some drainage issues need to be addressed.</p>	\$60,000	8-10 weeks	Town/Private Property owners	New Project; backyard flooding on private property
	<p>(5) Grand Marsh Road (Privately owned road)-</p>	\$53,000	6-8 weeks	Town/ Road Association	Road is privately owned and maintained by a road association (non-profit status unknown). History of damages unknown.
	<p>(6) Myrick Road- <u>-Scope:</u> Upsize from (1) 36" culvert to (1) 48" x 40ft culvert, install wing walls, rip rap, install (2) 15" x 40ft driveway culverts, hay and seed. <u>-Materials:</u> (1) 48" x 40ft culvert, (2) 15" x 40ft HDPE driveway culverts, concrete wing walls, gravel, geosynthetics, hay and seed.</p>	\$80,000	6-8 weeks	Road Commissioner	New Project
Great Pond	Educate homeowners on wildfire protection and coordinate with Hancock County Firefighters' Associate during extreme fire danger periods regarding issuance of burn permits.	\$500	When MFS issues extreme fire danger warnings	Selectmen	New Project

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Hancock	<p>(1) Point Road- <u>-Scope:</u> Ditch (1,000ft), add (1) 4ft concrete bottomless box culvert, elevate road (2ft x 21ft x 250ft), rip rap, repave. <u>-Materials:</u> (1) 4ft concrete bottomless box culvert, gravel, rip rap, geosynthetics, pavement, hay and seed.</p>	\$75,000	6-8 weeks	Road Commissioner	New Project
	<p>(2) West Shore Road- <u>-Scope:</u> Add (4) 18" x 30ft HDPE culverts, elevate road (2ft x 12ft x 1,200ft), rip rap. <u>-Materials:</u> (4) 18" x 30ft HDPE culverts, gravel, rip rap, geosynthetics, hay and seed.</p>	\$50,000	4-6 weeks	Road Commissioner	Town has added some culverts and rip rap with Town funds.
	<p>(3) Carter Beach Road (Bank stabilization)- <u>-Scope:</u> Stabilize bank (3ft x 18ft x 1,200ft), add (3) 15" x 40ft HDPE culverts. <u>-Materials:</u> (3) 15" x 40ft HDPE culverts, rip rap, gravel, geosynthetics, hay and seed.</p>	\$200,000	8-10 weeks	Road Commissioner	New Project
	<p>(4) Wyman Road- <u>-Scope:</u> Ditch (200ft), upsize (2) 15" plastic culverts to (2) 18" x 50ft CMP culverts, install geosynthetics, hay and seed. <u>-Materials:</u> (2) 18" x 50ft CMP culverts, rip rap, geosynthetics, gravel, hay and seed.</p>	\$10,000	2-4 weeks	Road Commissioner	New Project
Lamoine	<p>(1) Mill Road- (Paving) NEED MORE DETAILED DESCRIPTION</p>	\$70,300	4-6 weeks	Town Administrator/ Road Commissioner	New Project
	<p>(2)Shore Road- (Paving)-NEED MORE DETAILED DESCRIPTION</p>	\$75,240	4-6 weeks	Town Administrator/ Road Commissioner	New Project

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	(3) Asa's Lane - <u>Scope</u> : Ditch (300ft), add (1) 32" x 40ft culvert. <u>Materials</u> : (1) 32" x 40ft culvert, gravel	\$10,000	2-4 weeks	Town Administrator/ Road Commissioner	Identified in 2006; ditching still needs to be done as funding becomes available
	(4) Marboro Beach Road - <u>Scope</u> : Ditch (5,000ft), add (2) 32" x 40ft culverts <u>Materials</u> : (2) 32" x 40ft culverts, gravel, geosynthetics, hay and seed.	\$25,000	4-6 weeks	Town Administrator/ Road Commissioner	Identified in 2006. Repositioned culverts with Town funds
	Needles Eye Road (Drainage improvement) - upsize culvert; armor and repave road over culvert.	\$7,289	4-6 weeks	Town Administrator/ Road Commissioner	2009 - Completed HMGP Project DR-1755-01
Mariaville	(1) River Road (section 1 at Frost Brook) - <u>Scope</u> : Replace twin metal culverts (6ft each) w/ (1) 15ft precast bottomless box culvert, elevate road (3ft x 15ft x 100ft), rip rap, hay and seed. <u>Materials</u> : (1) 15ft precast bottomless box culvert, rip rap, gravel, geosynthetics, hay and seed.	\$75,000	6-8 weeks	Road Commissioner	New Project; need to clarify length of culverts
	(2) River Road (Bank Stabilization along Union River) - <u>Scope</u> : Re-shape slope, install geosynthetics, rip rap, hay and seed. <u>Materials</u> : Gravel, dirt, geosynthetics, rip rap, hay and seed.	\$80,000	8-10 weeks	Road Commissioner	River Rd. subject to erosion by Union River. Overflow culverts on stream installed on other area of River Rd.
	(3) Dourity Farm Road (Bridge at Tawnerly Brook) - <u>Scope</u> : Replace bridge with concrete box culvert (size unknown).	\$80,000	8-10 weeks	Road Commissioner	New Project

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Mount Desert	<p>(1) Maple Lane (Storm water Management Project)- -<u>Scope:</u> H&H study, upsize culverts (unknown sizes), add catch basins (unknown), excavate (3,500ft), repave, rip rap... -<u>Materials:</u> Culverts, gravel, rip rap, geosynthetics, pavement, catch basins, hay and seed, fill.....</p>	\$250,000	10-12 weeks	Town Administrator/ Road Commissioner	Need more details...H&H study must be done.
	<p>(2) Sergeant Drive- -<u>Scope:</u> Re-armor slope, replace coping stones, armor shoulder... -<u>Materials:</u> Rip rap, geosynthetics, coping stones, gravel.</p>	\$200,000	10-12 weeks	Town Administrator/ Road Commissioner	New Project
	<p>(3) Ox Hill (Seal Harbor)- -<u>Scope:</u> Install closed storm water management system, blast where necessary, install 1,000ft of 24" drainage pipe, rip rap, repave... -<u>Materials:</u> Explosive, 1,000ft of 24" drainage pipe, rip rap, pavement, gravel, geosynthetics...</p>	\$1,000,000	10-12 weeks	Town Administrator/ Road Commissioner	New Project
Orland	<p>(1) Granite Hill Road- -<u>Scope:</u> Elevate road (18" x 20ft x 4,000ft), add (2) 15" x 40ft culverts, hay and seed. -<u>Materials:</u> Gravel, (2) 15" x 40ft culverts, geosynthetics, rip rap, hay and seed.</p>	\$70,000	6-8 weeks	Town Administrator/ Road Commissioner	Some elevation done.
	<p>(2) Bald Mountain Road- -<u>Scope:</u> Elevate road (2ft x 20ft x 1,250ft), add (2) 24" x 40ft culverts, repave, rip rap, hay and seed. -<u>Materials:</u> Gravel, (2) 24" x 40ft HDPE culverts, geosynthetics, rip rap, pavement, hay and seed.</p>	\$70,000	6-8 weeks	Town Administrator/ Road Commissioner	No progress; additional funding needed

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	<p>(3) Happy Town Road- <u>-Scope:</u> Upsize (2) 36" x 40ft CMPs to (2) 48" x 60ft HDPE culverts, install erosion control, install geosynthetics, repave, rip rap, hay and seed. <u>Materials:</u> (2) 48" x 60ft HDPE culverts, geosynthetics, gravel, pavement, rip rap, hay and seed.</p>	\$65,000	6-8 weeks	Town Administrator/ Road Commissioner	New Project
	<p>(4) Cedar Swamp- <u>-Scope:</u> Upsize (2) 36" x 40ft CMP culverts to (2) 48" x 50ft HDPE culverts, repave, rip rap... <u>Materials:</u> (2) 48" x 50ft HDPE culverts, gravel, rip rap, pavement, geosynthetics, hay and seed</p>	\$40,000	2-4 weeks	Town Administrator/ Road Commissioner	New Project; low depression in road
	<p>(5) Lower Falls Road- <u>-Scope:</u> Add (1) 24" x 40ft relief culvert, repave, riprap. <u>Materials:</u> (1) 24" x 40ft HDPE culvert, pavement, rip rap, geosynthetics, hay and seed.</p>	\$15,000	2-4 weeks	Town Administrator/ Road Commissioner	New Project; relief is for 2 large twin culverts
	<p>(6) Gilpin Road- <u>-Scope:</u> Add (6) 24" x 40ft HDPE culverts, elevate road (1ft x 12ft x 1mile), repave, rip rap, hay and seed. <u>Materials:</u> (6) 24" x 40ft HDPE culverts, gravel, pavement, rip rap, geosynthetics, hay and seed.</p>	\$120,000	10-12 weeks	Town Administrator/ Road Commissioner	New Project; trees may need to be removed
Osborn	Educate homeowners on wildfire protection and coordinate with Hancock County Firefighters' Associate during extreme fire danger periods regarding issuance of burn permits.	\$500	When MFS issues extreme fire danger warnings	Fire Warden	New Project

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Otis	<p>(1) Gary Moore Road- <u>-Scope:</u> Ditch (600ft), upgrade (1) 6ft x 30ft plastic culvert w concrete, bottomless box culvert, rip rap, repave, hay and seed. <u>-Materials:</u> Concrete bottomless box culvert (size unknown), rip rap, gravel, geosynthetics, pavement, hay and seed.</p>	\$90,000	8-10 weeks	Select board/Road Commissioner	New Project
	<p>(2) Piles Road- <u>-Scope:</u> Ditch (1,000ft), upsize (1) 15" x 30ft culvert to (1) 18" x 40ft HDPE culvert, rip rap, repave, hay and seed. <u>-Materials:</u> (1) 18" x 40ft HDPE culvert, pavement, rip rap, geosynthetics, hay and seed</p>	\$60,000	4-6 weeks	Select board/ Road Commissioner	New Project
	<p>(3) Outreach- -Town would like to reach out to non-profit, road associations to identify mitigation priorities.</p>	\$0	1-2 weeks	Select board/ Road Commissioner	New Project
Penobscot	<p>(1) Dogtown Rd: install underdrains and geotextile fabric 500' x 24'; add 12" base gravel and repave.</p>	\$28,000	3 weeks	Road Commissioner	New Project
Sedgwick	<p>Old County Rd: add (2) 32" x 40' culverts, riprap and repave</p>	\$10,000	2 weeks	Road Commissioner	New Project
Sorrento	<p>(1) Fuller Road- <u>-Scope:</u> Ditch (1,000ft), blast where needed, upsize (1) 18" x 30ft culvert to (1) 24" x 40ft culvert, rip rap, hay and seed. <u>-Materials:</u> (1) 24" x 40ft HDPE culvert, rip rap, geosynthetics, gravel, hay and seed.</p>	\$30,000	2-4 weeks	Road Commissioner	New Project

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	<p>(2) Nautilus Road- <u>-Scope:</u> Ditch (600ft), armor ditches, add (3) 18" x 40ft HDPE culverts, rip rap, hay and seed... <u>-Materials:</u> Rip rap, (3) 18" x 40ft HDPE culverts, gravel, geosynthetics, hay and seed.</p>	\$30,000	2-4 weeks	Road Commissioner	New Project
	<p>(3) Treasure Island Road- <u>-Scope:</u> Ditch (1,000ft), armor ditches, add (1) 18" x 40ft HDPE culvert. <u>-Materials:</u> Rip rap, (1) 18" x 40ft HDPE culvert, gravel, geosynthetics, rip rap, hay and seed.</p>	\$30,000	2-4 weeks	Road Commissioner	New Project
	<p>(4) Ocean Avenue (Bank stabilization)- <u>-Scope:</u> Rip rap bank (3ft x 18ft x 1,500ft) <u>-Materials:</u> Rip rap.</p>	\$30,000	2-4 weeks	Road Commissioner	New Project
	<p>(5) Isaac's Beach- <u>-Scope:</u> Upsize (1) 36" x 40ft culvert to (1) 48" x 40ft HDPE culvert, ditch (1,500ft). <u>-Materials:</u> (1) 48" x 40ft HDPE culvert, gravel, rip rap, geosynthetics, hay and seed.</p>	\$30,000	2-4 weeks	Road Commissioner	New Project
	<p>(6) West Shore Road @ Nautilus Road (Swallow Hallow)- <u>-Scope:</u> Upgrade (1) 36" x 40ft CMP to (1) 4ft x 40ft, smooth bore, cement culvert, rip rap, repave. <u>-Materials:</u> (1) 4ft x 40ft, smooth bore, cement culvert, rip rap, gravel, geosynthetics, pavement, hay and seed.</p>	\$60,000	6-8 weeks	Road Commissioner	New Project
Southwest Harbor	<p>(1) Seal Cove Road- <u>-Scope:</u> Elevate road (2ft x 20ft x 1,200ft), stabilize slope, add (1) 10ft x 40ft box culvert, repave. <u>-Materials:</u> Gravel, rip rap, (1) 10ft x 40ft box culvert, geosynthetics, pavement, hay and seed.</p>	\$75,000	8-10 weeks	Town Administrator/ Road Commissioner	New Project

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<p>(2) Alder Lane-<u>Scope:</u> Elevate road (2ft x 20ft x 1,200ft), ditch (2,500ft), upsize (2) 15" x 40ft culverts to (2) 18" x 40ft HDPE culverts, repave. -<u>Materials:</u> Gravel, rip rap, geosynthetics, (2) 18" x 40ft HDPE culverts, pavement, hay and seed.</p>	<p>\$80,000</p>	<p>8-10 weeks</p>	<p>Town Administrator/ Road Commissioner</p>	<p>New Project</p>
<p>(3) Shore Road-<u>Scope:</u> Elevate road (3ft x 20ft x 4,000ft), add (8) 15" x 40ft HDPE culverts, repave. -<u>Materials:</u> Gravel, (8) 15" x 40ft HDPE culverts, rip rap, geosynthetics, pavement, hay and seed.</p>	<p>\$175,000</p>	<p>10-12 weeks</p>	<p>Town Administrator/ Road Commissioner</p>	<p>New Project</p>
<p>(4) Seal Cove Road (Bridge)-<u>Scope:</u> Demo bridge, stabilize bank, upgrade to concrete, bottomless box culvert (size unknown). -<u>Materials:</u> Concrete bottomless box culvert (size unknown), rip rap, geosynthetics, gravel, pavement, hay and seed.</p>	<p>\$150,000</p>	<p>10-12 weeks</p>	<p>Town Administrator/ Road Commissioner</p>	<p>New Project; bridge is town owned and maintained</p>
<p>(5) Fernald Point Road-<u>Scope:</u> Blast where needed, ditch (700ft), armor ditches and install check-dams, upsize (3) 18" x 30ft culverts to (3) 24" x 30ft HDPE culverts, upsize (1) 24" x 30ft culverts to (1) 36" x 30ft HDPE culvert. -<u>Materials:</u> Explosive, rip rap, (3) 24" x 30ft HDPE culverts, (1) 36" x 30ft HDPE culvert, gravel, geosynthetics, hay and seed.</p>	<p>\$85,000</p>	<p>6-8 weeks</p>	<p>Town Administrator/ Road Commissioner</p>	<p>New Project</p>
<p>(6) Wesly Avenue-<u>Scope:</u> Ditch (300ft), blast ledge where needed, upsize culverts (unknown number) from 12" to 18", repave. -<u>Materials:</u> Explosive, (300 feet) of 18" HDPE pipe, gravel, rip rap, geosynthetics, hay and seed</p>	<p>\$135,000</p>	<p>8-10 weeks</p>	<p>Town Administrator/ Road Commissioner</p>	<p>New Project; 12 homes at risk to flooding in this area; may need 6 driveway culverts</p>

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	<p>(7) Chris' Pond (Retention Pond) @ Main Street-<u>Scope:</u> Install flow control valve, upsize (1) 18" x 60ft culvert on Main Street to (1) 24" x 60ft HDPE culvert.</p>	\$85,000	6-8 weeks	Town Administrator/ Road Commissioner	New Project
	<p>(8) Village Green Way-<u>Scope:</u> Upgrade stone catch basins to increase drainage capacity.</p>	\$75,000	4-6 weeks	Town Administrator/ Road Commissioner	New Project; state owned catch basins; would have to co-ordinate if businesses are flooding
	<p>(9) East Ridge Road-<u>Scope:</u> Ditch (600ft), add (4) driveway culverts, armor ditches. -<u>Materials:</u> (4) driveway culverts, rip rap, hay and seed, geosynthetics.</p>	\$20,000	4-6 weeks	Town Administrator/ Road Commissioner	New Project
Stonington	<p>(1) Moose Island Causeway-<u>Scope:</u> Elevate causeway (2ft x 12ft x 600ft), armor shoulders (600ft), repave, rip rap. -<u>Materials:</u> Gravel, pavement, rip rap...</p>	\$250,000	10-12 weeks	Town Administrator/ Road Commissioner/DEP	Project Identified in 2007 - No progress; ownership question
	<p>(2) Bayview Avenue Seawall-<u>Scope:</u> Rebuild seawall (3ft x 7ft x 40ft). <u>Materials:</u> Concrete, Geosynthetics, hay and seed.</p>	\$30,000	4-6 weeks	Town Administrator	New Project
	<p>(3) Hatch Cove Road-<u>Scope:</u> Elevate road (dimensions unknown), ditch (100ft), add (3) 18" x 30ft cross-culverts, rip rap, add (3) 15" driveway culverts. <u>Materials:</u> Gravel, (3) 18" x 30ft HDPE culverts, (3) 15" HDPE driveway culverts, rip rap, geosynthetics, hay and seed (explosive?).</p>	\$75,000	6-8 weeks	Road Commissioner	New Project; may require blasting some ledge

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	(4) Acquire and demo property at 50 Main Street.	\$206,600	10-12 weeks	Town Manager	New Project; needs ownership clarified, may not be cost beneficial and need another solution to flooding
Sullivan	(1) Asheville Road-<u>Scope:</u> Ditch (100ft), upsize (1) 18" x 30ft culvert to (1) 36" x 40ft HDPE culvert, rip rap, hay and seed. -<u>Materials:</u> (1) 36" x 40ft HDPE culvert, rip rap, geosynthetics, gravel, hay and seed.	\$40,000	2-4 weeks	Road Commissioner	New Project
	(2) Punkinville Road-<u>Scope:</u> Widen ditches (200ft), upgrade (1) 6ft stone culvert to concrete bottomless box culvert. -<u>Materials:</u> Concrete bottomless box culvert, gravel, geosynthetics, hay and seed.	\$60,000	6-8 weeks	Road Commissioner	New Project
	(3) Thorn Road-<u>Scope:</u> Upsize (1) 12ft CMP to (1) concrete bottomless box culvert, stabilize bank, repave. -<u>Materials:</u> (1) 12ft concrete bottomless box culvert, gravel, geosynthetics, pavement, hay and seed.	\$600,000	10-12 weeks	Road Commissioner	New Project
	(4) Wharf Road @ Taunton Road-<u>Scope:</u> Upgrade (5) stone culverts with (5) new HDPE culverts.	\$125,000	10-12 weeks	Road Commissioner	New Project
Surry	(1) Cross Road @ Morgan's Bay-<u>Scope:</u> Add (2) 36" x 40ft relief culverts, add 1 cross culvert (size unknown), repave. -<u>Materials:</u> (2) 36" x 40ft relief culverts	\$10,000	2-4 weeks	Select board	New Project

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	<p>(2) Gold Stream Road- <u>-Scope:</u> Widen road (4ft x 100ft), stabilize slope, add (2) 36" x 40ft HDPE culverts, lengthen existing culvert (size unknown). <u>-Materials:</u> Gravel, pavement, rip rap, (2) 36" x 40ft HDPE culverts, culvert sleeve/extension.</p>	\$15,000	2-4 weeks	Select board	New Project
	<p>(3) Carrying Place Beach- <u>-Scope:</u> Excavate existing base (2,000ft), reset with granite blocks, rip rap, resurface, repave. <u>-Materials:</u> Rip rap, gravel, pavement, granite blocks (quantity and size unknown).</p>	\$200,000	8-10 weeks	Select board	New Project; town owned property that has had \$30K of PA work in April 2007
	<p>(4) Cross Road- <u>-Scope:</u> Stabilize bank, rip rap, armor shoulders, add (1) 24" x 40ft HDPE culvert, repave. <u>-Materials:</u> Rip rap, gravel, geosynthetics, (1) 24" x 40ft HDPE culvert, hay and seed.</p>	\$50,000	6-8 weeks	Select board	New Project
	<p>Thatcher's Hill Drainage Project <u>-Scope:</u> Ditch (1,350ft), blast where necessary, pave shoulder, add (3) 18" x 40ft cross-culverts, upsize (1) 24" x 40ft culvert to (1) 36" x 40ft culvert, repave.</p>	\$152,846	6-8 weeks	Select board	2007 - Completed HMGP Project DR-1591-03
Swans Island	<p>(1) Rowe Road (Bank stabilization)- <u>-Scope:</u> Re-shape slope, Stabilize bank (300ft), add erosion control, rip rap. <u>-Materials:</u> Town owned granite blocks, rip rap, gravel, geosynthetics, hay and seed.</p>	\$150,000	6-8 weeks	Select board	New Project; town owned quarry could supply for in-kind match

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	<p>(2) Stanley Point Road- <u>-Scope:</u> Blast where needed, ditch (500ft), upsize (?) 12" x 20ft culverts to (?) 24" x 30ft HDPE culverts, elevate road (dimensions unknown), rip rap, repave, hay and seed. <u>-Materials:</u> Explosive, (?) 24" x 30ft HDPE culverts, gravel, rip rap, pavement, geosynthetics, hay and seed.</p>	\$140,000	8-10 weeks	Select board	New Project; exact number of culverts needs to be determined
	<p>(3) Minturn Town Road- <u>-Scope:</u> Elevate road (dimensions unknown), upsize (1) 24" x 30ft culvert to (1) 36" x 40ft HDPE culvert, rip rap, repave, hay and seed. <u>-Materials:</u> Gravel, (1) 36" x 40ft HDPE culvert, rip rap, pavement, geosynthetics, hay and seed.</p>	\$40,000	6-8 weeks	Select board	New Project
Tremont	<p>(1) Cape Road (Section 1-<u>Scope:</u> Relocate road (18ft x 1,000ft), repave.</p>	\$200,000	6-8 weeks	Town Manager	Completed
	<p>(1) Cape Road Bank Stabilization (Section 2)-<u>Scope:</u> Remove dead trees (unknown number), re-stabilize bank (dimensions unknown), install granite blocks (size and number unknown), rip rap. <u>-Materials:</u> Gravel, granite blocks, rip rap, geosynthetics, hay and seed.</p>	\$70,000	6-8 weeks	Town Manager	New Project; applying for HMGP if cost beneficial
	<p>(2) Rich Town Road- <u>-Scope:</u> Ditch (1000ft), upsize culverts (size and number unknown), rip rap, hay and seed. <u>-Materials:</u> HDPE culverts (size and number unknown), rip rap, gravel, geosynthetics, hay and seed.</p>	\$30,000	2-4 weeks	Town Manager	New Project
	<p>(3) Mitchell Cove Road- <u>-Scope:</u> Ditch (1,000ft), upsize culverts (size and number unknown), rip rap, hay and seed. <u>-Materials:</u> HDPE culverts (size and number unknown), rip rap, geosynthetics, hay and seed.</p>	\$30,000	2-4 weeks	Town Manager	New Project

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	<p>Turner Road- <u>-Scope:</u> Re-grade and repave road (18ft x 1,800ft)</p>	\$68,000	2-4 weeks	Town Manager	Completed with town funds
Trenton	<p>(1) Goose Cove Road- <u>-Scope:</u> Ditch (500ft), rip rap.</p>	\$20,000	2 weeks	Road Commissioner	New Project
	<p>(2) School Road- <u>-Scope:</u> Ditch (1,000ft), re-align and lengthen culverts (size and number unknown), armor ditches. <u>-Materials:</u> Gravel, rip rap, geosynthetics, culvert extensions, hay and seed.</p>	\$50,000	2-4 weeks	Road Commissioner	New Project
Unorganized Territory	Upgrade drainage of roads and culverts as necessary within County's portion of the UT to protect against washouts from flooding.	\$103,000	3 months	County Manager	New Project
Verona Island	West side Dr: rebuild intersection to improve dangerous sight line with Route 1.	\$25,000	3 weeks	Board of Selectmen	New Project
Waltham	<p>(1) Junior Ralph Road- <u>-Scope:</u> Reshape and rip rap slope (12ft x 2,000ft), ditch (2,000ft), line ditches, upsize (4) 24" x 40ft culverts to (4) 36" x 40ft HDPE culverts, hay and seed. <u>-Materials:</u> Gravel, rip rap, geosynthetics, (4) 36" x 40ft HDPE culverts, hay and seed.</p>	\$50,000	6-8 weeks	Road Commissioner	Did ditching with Town funds/ PA funds with no 406.
	<p>(2) Cemetery Road- <u>-Scope:</u> Ditch (3,000ft), add (3) 18" x 40ft HDPE culverts, rip rap, hay and seed. <u>-Materials:</u> (3) 18" x 40ft HDPE culverts, rip rap, gravel, geosynthetics, hay and seed.</p>	\$65,000	6-8 weeks	Road Commissioner	New Project
Winter Harbor	<p>(1) Main Street (Section 1)- <u>-Scope:</u> Upsize box culvert (size unknown) to 12ft box culvert, repave.</p>	\$42,000	2-4 weeks	Town Manager	Completed project identified in 2006

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<p>(2) Main Street (Section 2)- <u>-Scope:</u> Widen entrance to 12ft box culvert, armor entrance with granite blocks.</p>	\$30,000	2-4 weeks	Town Manager	New Project
<p>(3) Main Street (Section 3)- <u>-Scope:</u> Install berm (3ft x 400ft), stabilize with native plants.</p>	\$10,000	2-4 weeks	Town Manager	New Project
<p>(4) Main Street (Section 4)- <u>-Scope:</u> Widen ditches (300ft), armor ditches, install under drains with fabric (75ft), crushed rock. <u>-Materials:</u> Rip rap, crushed stone, under drain (amount unknown), gravel, geosynthetics, hay and seed.</p>	\$20,000	2-4 weeks	Town Manager	New Project
<p>(5) Main Street (Section 5)-<u>Scope:</u> Add (1) 18" x 30ft HDPE culvert, elevate road (2ft x 20ft x 250ft), add 250ft of 18" drainage pipe. <u>-Materials:</u> (1) 18" x 30ft HDPE culvert, gravel, rip rap, geosynthetics, 250ft of 18" drainage pipe, crushed stone.</p>	\$35,000	2-4 weeks	Town Manager	New Project; would need easement across private property
<p>(6) Summer Harbor Road-<u>Scope:</u> Ditch (2,000ft), rip rap (100 cubic yards), Upsize (1) 24" plastic culvert to (1) 4ft concrete bottomless box culvert, repave, hay and seed. <u>-Materials:</u> Rip rap, (1) 4ft concrete bottomless box culvert, gravel, geosynthetics, hay and seed, pavement.</p>	\$70,000	6-8 weeks	Town Manager	New Project

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Typical Funding Resources

Community Development Block Grants	DOT Transportation Capital Improvements
Municipal Capital Improvement Projects	FEMA Pre-Disaster Mitigation Grants
FEMA Hazard Mitigation Program Grants	FEMA FIRE Grants
Homeland Security Grants	Land Use Impact Fees
Municipal Property Taxes	Private Donations & Grant Programs

15. Identification and Analysis of Mitigation Actions: National Flood Insurance Program (NFIP Compliance)	
Requirement §201.6(c)(3)(ii): (The mitigation strategy) must also address the jurisdiction’s participation in the National Flood Insurance Program (NFIP), and continued compliance with NFIP requirements, as appropriate.	
Elements	A. Does the new or updated plan describe the jurisdiction’s participation in the NFIP?
	B. Does the mitigation strategy identify, analyze and prioritize actions related to continued compliance with the NFIP?

A. Participation in the NFIP in Hancock County, all but four of its thirty-seven municipalities participate in the Flood Insurance Program. (See list below). The table is based on the Federal Emergency Management Agency’s Community Status Book Report, per State Floodplain Office review in August 2012. Please note that five towns have joined the NFIP since publication of the 2004 Hazard Mitigation Plan. Also please note that Hancock County’s portion of the Unorganized Territory participates in the NFIP. The towns of Amherst, Aurora, Eastbrook, and Verona have chosen to not participate in NFIP at this time due to the lack of historical record of flood activity within their respective boundaries, coupled with naturally occurring geographical features that preclude the likelihood of flooding within their respective municipal boundaries.

CID	Community_report_21Jun2012_CommunityName	County	FIRM date	status
230272	AMHERST, TOWN OF	HANCOCK COUNTY	1/24/1975	not participating
230273	AURORA, TOWN OF	HANCOCK COUNTY	1/1/1950	not mapped; not participating
230064	BAR HARBOR, TOWN OF	HANCOCK COUNTY	5/2/1991	participating
230274	BLUE HILL, TOWN OF	HANCOCK COUNTY	5/3/1990	participating
230275	BROOKLIN, TOWN OF	HANCOCK COUNTY	3/1/1987	participating
230276	BROOKSVILLE, TOWN OF	HANCOCK COUNTY	5/15/1991	participating
230065	BUCKSPORT, TOWN OF	HANCOCK COUNTY	11/4/1988	participating
230277	CASTINE, TOWN OF	HANCOCK COUNTY	5/2/1991	participating
230278	CRANBERRY ISLES, TOWN OF	HANCOCK COUNTY	7/15/1992	participating
230279	DEDHAM, TOWN OF	HANCOCK COUNTY	3/1/2011	participating
230280	DEER ISLE, TOWN OF	HANCOCK COUNTY	5/2/1991	participating
230281	EASTBROOK, TOWN OF	HANCOCK COUNTY	3/1/1987	not participating - suspended
230066	ELLSWORTH, CITY OF	HANCOCK COUNTY	11/4/1988	participating
230458	FLETCHER'S LANDING, township of (former T8 SD)	HANCOCK COUNTY	10/1/1986	participating
230282	FRANKLIN, TOWN OF	HANCOCK COUNTY	7/16/1991	participating
230594	FRENCHBORO, TOWN OF	HANCOCK COUNTY	4/17/1987	participating
230283	GOULDSBORO, TOWN OF	HANCOCK COUNTY	6/4/1987	participating

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230596	GREAT POND, TOWN OF	HANCOCK COUNTY	1/1/1950	participating - NSFHA
230284	HANCOCK, TOWN OF	HANCOCK COUNTY	6/3/1991	participating
230285	LAMOINE, TOWN OF	HANCOCK COUNTY	5/2/1991	participating
230286	MARIAVILLE, TOWN OF	HANCOCK COUNTY	10/1/2005	participating
230287	MOUNT DESERT, TOWN OF	HANCOCK COUNTY	8/2/1990	participating
230288	ORLAND, TOWN OF	HANCOCK COUNTY	2/4/1987	participating
230595	OSBORN, TOWN OF	HANCOCK COUNTY	1/1/1950	participating - NSFHA
230289	OTIS, TOWN OF	HANCOCK COUNTY	4/1/2009	participating
230290	PENOBSCOT, TOWN OF	HANCOCK COUNTY	7/16/1991	participating
230291	SEDGWICK, TOWN OF	HANCOCK COUNTY	2/4/1987	participating
230292	SORRENTO, TOWN OF	HANCOCK COUNTY	9/4/1985	participating
230293	SOUTHWEST HARBOR, TOWN OF	HANCOCK COUNTY	6/3/1991	participating
230294	STONINGTON, TOWN OF	HANCOCK COUNTY	6/3/1991	participating
230295	SULLIVAN, TOWN OF	HANCOCK COUNTY	9/4/1985	participating
230296	SURRY, TOWN OF	HANCOCK COUNTY	5/2/1991	participating
230297	SWANS ISLAND, TOWN OF	HANCOCK COUNTY	3/1/1987	participating
230597	T03 ND, TOWNSHIP OF	HANCOCK COUNTY	1/1/1950	participating - NSFHA
230598	T07 SD, TOWNSHIP OF	HANCOCK COUNTY	1/1/1950	participating - NSFHA
230599	T10 SD, TOWNSHIP OF	HANCOCK COUNTY	1/1/1950	participating - NSFHA
230600	T22 MD, TOWNSHIP OF	HANCOCK COUNTY	1/1/1950	participating - NSFHA
230601	T28 MD, TOWNSHIP OF	HANCOCK COUNTY	1/1/1950	participating - NSFHA
230298	TREMONT, TOWN OF	HANCOCK COUNTY	8/2/1990	participating
230299	TRENTON, TOWN OF	HANCOCK COUNTY	8/2/1990	participating
230300	VERONA, TOWN OF	HANCOCK COUNTY	11/26/1976	not participating
230301	WALTHAM, TOWN OF	HANCOCK COUNTY	7/2/1987	participating
230302	WINTER HARBOR, TOWN OF	HANCOCK COUNTY	5/15/1991	participating

NSFHA = No Special Flood Hazard Area

“The community has no special flood hazard areas and a flood map for the community has not been published. Although it may not be subject to the 100-year flood, floods of a greater magnitude could occur there. In addition, certain structures may be damaged by local drainage problems. The community is ALL ZONE C for flood insurance rating purposes.”

B. Actions related to continued compliance with the NFIP. Actions related to continued compliance with the NFIP are on pages 5-5 and 5-6, specifically:

1.A. NFIP Participation – this is the top ranked priority related to the flood insurance program because all communities participate in the program and it is likely that this high rate of participation will continue.

1.B. Repetitive Loss Properties – this is the second-ranked priority related to the NFIP. It is ranked second because the prospects for project application and funding are not assured.

1.C. Ordinance Enforcement – this is the third-ranked priority related to the NFIP. It is ranked third because effective enforcement of the floodplain management ordinance is critical to continued compliance with the requirements of the NFIP.

1.D. Improved Maps – this is the fourth-ranked priority related to the NFIP because many maps are obsolete and while there is new LIDAR data for much of the coast, it still needs to be incorporated by FEMA and this will be time consuming and costly.

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The former Maine State Planning Office, now part of the Maine Department of Conservation, administers the State’s Flood Insurance Program.

16. Implementation of Mitigation Actions	
Requirement §201.6(c)(3)(iii): (The mitigation strategy section shall include) an action plan describing how the actions identified in section (c)(3)(ii) will be prioritized, implemented and administered at the local jurisdiction. Prioritization shall include a special emphasis on the extent to which benefits are maximized according to a cost benefit review of the proposed projects and their associated costs.	
Elements	A. Does the new or updated mitigation strategy include (a discussion about) how the actions are prioritized? (For example, is there a discussion of the process and the criteria used?)
	B. Does the new or updated mitigation strategy address how the actions will be implemented and administered, including the responsible department, existing and potential resources and the timeframe to complete each action?
	C. Does the new or updated prioritization process include an emphasis on the use of a cost-benefit review to maximize benefits?
	D. Does the updated plan identify the completed, deleted or deferred mitigations as a benchmark for progress, and if actions are unchanged (i.e., deferred) does the updated plan describe why no changes occurred?

A. How the actions are prioritized.

- **County-wide actions.** Short to long-range mitigation actions are important in developing a coherent strategy for mitigating hazards. The methods for prioritizing the county-wide mitigation actions on pages 5-3 through 5-7 are found on pages 5-8 to 5-9.
- **Town-specific projects.** Projects shown on pages 5-18 through 5-40, are subject to FEMA requirement #16. However, in a multi-jurisdiction plan involving many municipalities, it is not possible to compare projects across municipal boundaries because very few if any officials will have a detailed understanding of each project and how they compare to those in other communities. The preparation of detailed, cost benefit analyses is a complex, costly process that is beyond the scope and funding that is available to complete this Plan. The preparation of cost benefit analyses is part of the project funding application process and will be undertaken at the time municipalities decide to apply for grants. Instead of a formal process for prioritizing projects, each municipality is asked to prioritize its own projects. See introductory statements to Prioritized Mitigation Projects on page 5-17 for a discussion about how these projects were prioritized.

B. How the actions and projects will be implemented and administered. See county-wide goals, objectives and mitigation actions on pages 5-3 to 5-7 for a summary of who will be responsible for implementation as well as the current status of each action. See Prioritized Mitigation Projects beginning on page 5-18 for a project-by-project summary of costs, timeframe and responsible party.

C. Use of a cost-benefit analysis. MEMA will utilize the FEMA cost benefit analyses tool for any potential projects for which applicants are seeking grant funding.

Many of the jurisdictions included in this Plan are small towns run by volunteers. They do not have staff, resources or funding to prepare cost-benefit analyses for the projects included in

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this Plan. However, in virtually all cases involving expenditure of local funds for implementation, there will be a very rigorous, line-by-line analysis of cost effectiveness during the local budget review process and subsequent public discussion. This review is at least equal to a formal benefit-cost calculation because each expenditure item will be carefully scrutinized rather than simply being plugged into a formula. Nevertheless, MEMA and the County EMA have made it clear to local officials that a cost benefit analysis will have to be prepared in the event they apply to MEMA for mitigation funding.

D. Benchmarks for progress

See the “Status/Rationale if no Action” column in General Goals, Objectives and Mitigation Actions beginning on page 5-3 of this Plan.

See the “Status” column in Summary of Hazard Mitigation Projects by Municipality beginning on page 5-18 of this Plan.

17. Multi-Jurisdictional Mitigation Actions	
Requirement §201.6(c)(3)(iv): For multi-jurisdictional plans, there must be identifiable action items specific to the jurisdiction requesting FEMA approval or credit of the plan.	
Elements	A. Does the new or updated plan include identifiable action items for each jurisdiction requesting FEMA approval of the plan?
	B. Does the updated plan identify the completed, deleted or deferred mitigation actions as a benchmark for progress, and if activities are unchanged (i.e., deferred), does the updated plan describe why no changes occurred?

A. Identifiable action items specific to jurisdictions

(See pages 5-18 to 5-40)

B. Status of mitigation actions

(See Status “Status” column on pages 5-3 to 5-7 and pages 5-18 to 5-40)