

Chapter 6 MITIGATION PROJECTS

Hazard Identification

The Committee utilized the *Hazard Identification Worksheet*, as shown in Appendix B, to identify potential hazards, the historical occurrence, locations, assets at risk and the probability of each hazard. The results of this process can be found in Chapter 3.

Problem Statements

From the Hazard Identification process the Committee developed a list of Problem Statements for each Hazard (see Appendix B). Based on the hazards and risks within the town, the Committee summarized the 'problems' associated for every hazard identified. These problem statements allowed the Committee to identify mitigation alternatives during the project identification step described below.

Goals Identified

The Committee identified Goals (shown in Chapter 1) based on the hazards identified, as well as the Mitigation Goals identified in the NH Hazard Mitigation Plan 2013.

Project Identification

Using the *Mitigation Project Identification Worksheet* (see Appendix B) as a guide, the Committee members identified mitigation projects for each problem Statement. Specific objectives included: Prevention, Property Protection, Public Education, Natural Resource Protection, Emergency Services and Structural Projects. In total, there were 18 projects identified.

This process resulted in the *Mitigation Project Identification Matrix*. For illustrative purposes the table below is an excerpt from the *Matrix* included in Appendix B. In this *Matrix*, the committee was able to determine a basic benefit/cost by using the STAPLEE method. For each project identified, the committee considered the STAPLEE Criteria (Social, Technical, Administrative, Political, Legal, Economic and Environmental) to guide their decision in prioritizing the projects. One component of STAPLEE is the Economic criteria which aided the committee in determining whether the benefits outweigh the costs.

Excerpt from Mitigation Project Identification Matrix

Mitigation Project Identification Matrix									
Hazard	Problem Statement	Projects Prevention /Property Protection/ Public Educ./ Nat.Resources /Emerg.Serv / Structural	Social	Technical	Administrativ	Political	Legal	Economic	Environment
Flood	Heavy and prolonged rain events cause flood damage to roads and culverts, bridges and property.	Educate public about the National Flood Insurance Program and benefits of flood insurance through website links and brochures.	+	+	+	+	+	+	+

Prioritized Mitigation Projects

Each committee member reviewed the mitigation projects. After careful evaluation, the committee ranked the projects by voting for half of the projects. The project that received the most votes was ranked as the highest priority and the project receiving the least amount of votes received the lowest priority. (See Prioritized Mitigation Projects in Appendix B.) The prioritized projects are identified in the Mitigation Action Plan.

There have been no significant changes to mitigation priorities for the Town of Jaffrey. The Town has not experienced any changes in resources, new hazard impacts, or development patterns that merit changes to mitigation priorities. The Hazard Mitigation Committee identified new projects as described below and prioritized them as discussed above.

Mitigation Project Status:

The Town completed the original version of this Plan in 2009. The completed projects listed below are not included in the 2015 edition of the Plan. In addition, the Committee deleted some projects and added new projects to the Plan.

Completed Projects since 2009
Investigate possibility and cost of obtaining a "Reverse911" notification and alert system for the Town.
Purchase a Rescue Truck for the Fire Department.
Deleted Projects since 2008
"Include a location for the Emergency Operations Center in a future, newly constructed Town Office." was deleted, but rewritten into similar project.
Secure Town Office against physical assault (i.e. bullet proof glass, etc.)" was deleted, but "rewritten into similar project.
"Purchase a generator for Town Office." was deleted, but "rewritten into similar project.
"Develop Continuity of Operations Plan (COOP) for Town Government." was deleted as this is not considered mitigation.
"Install Dry hydrants at Lehtinen Road and Town Farm Road." was deleted, but rewritten to cover more area of town.
"Investigate joining the Firewise Program that emphasizes community responsibility for planning in the design of a safe community as well as effective emergency response, and individual responsibility for safer home construction and design, landscaping, and maintenance." Was deleted, because it is not an applicable program for the town.
"Expand the DPW building for equipment storage." was deleted because is not considered mitigation.
"Purchase forestry equipment and extra hoses." was deleted because it is not considered mitigation.
"Determine status on-site fuel capacity of Sangermano's property located on the Contoocook River." was deleted because it is no longer an issue and it is being monitored by NH DES.
"Monitor site improvements at Red's Gas Station and repair shop located on the Contoocook River." was deleted because it is no longer an issue and it is being monitored by NH DES.

Mitigation Action Plan

The projects identified in 2009 included preparedness projects as well as mitigation projects. During the 2015 update, the committee prioritized only the mitigation projects. The mitigation projects were compiled in the Mitigation Action Plan found on Page 6-4 which identifies Responsibility, Funding, Time frame, Hazards Addressed and the Priority for each mitigation project. The preparedness projects are identified on page 6-5.

Since the 2009 version of the Hazard Mitigation Plan (HMP), the Town did not incorporate mitigation strategies into other planning mechanisms. However, the Town will consider incorporating HMP activities into other planning documents over the next five years. Some of those plans could include the following:

- Master Plan – The Master Plan is updated every 5 to 10 years in accordance with RSA 674. This plan also includes a discussion of capital improvements within the Town. The next Master Plan update will integrate mitigation strategies and actions from the HMP (which will have been updated in accordance with the provisions of Section VI in this plan).
- Emergency Operations Plan (EOP) – The EOP is designed to allow the Town to respond more effectively to disasters as well as mitigate the risk to people and property. The EOP will be reviewed to ensure that where appropriate, specific mitigation actions outlined in the HMP are also addressed in the EOP.

MITIGATION ACTION PLAN

The following is the completed list of projects, recommended by the Committee. The following action plan identifies Responsibility, Funding and a Time frame for the mitigation projects for each objective. The actions will begin as soon as the plan is approved and the community is eligible for funding, unless otherwise stated, and will be completed as noted in the implementation date column in the table below.

Mitigation Action Plan - Jaffrey, NH						
Mitigation Action	Responsibility/ Oversight	Funding/ Support	Timeframe	Hazards Addressed	Estimated Cost	Priority
1. Install lightning protection measures on all of the town's critical facilities and schools.	Board of Selectmen & SAU	Town / SAU / State	5 years	Lightning	\$3-5,000 per building	High
2. Coordinate with the school district to ensure the emergency response plans are adequate and up to date.	EMD & SAU	Town / State / SAU	1 year	All Hazards	\$0 - \$10,000	High
3. Retrofit the public works building to meet snow load building code.	DPW	Town	1 year	Winter Weather	\$80,000	High
4. Secure Town Office against physical assault.	Board of Selectmen	Town / State	2 years	Human Caused	\$500 – 50,000	Medium
5. Construct the new EOC to meet FEMA 361 standards.	Board of Selectmen	Town / State	2 years	All Hazards	\$150 - \$240 per square foot.	Medium
6. Educate the public regarding dangers of lightning and steps they can take to protect themselves, utilizing the town's Code Red, website and printed materials.	EMD	Staff Time	1 year	Lightning	Minimal Cost (Staff Time)	Medium
7. Implement projects/ recommendations identified in the NH HSEM school security survey.	SAU	SAU	5 years	All Hazards	\$0 - \$10,000+	Medium
8. Ensure the school officials, the Good Shepherd nursing home and the Bible Conference Center are aware of the best refuge in severe wind incidents.	EMD & SAU	Staff Time	2 years	Hurricane, Severe wind.	Minimal Cost (Staff Time)	Medium
9. Install/upgrade rural fire suppression sources per the RC&D report.	Fire	Town Budget	5 years	Wildfire	\$1,500 – 5,000 per	Medium

Mitigation Action Plan - Jaffrey, NH						
Mitigation Action	Responsibility/ Oversight	Funding/ Support	Timeframe	Hazards Addressed	Estimated Cost	Priority
10. Educate the public regarding dangers of extreme heat and steps they can take to protect themselves, utilizing the town's Code Red, website and printed materials.	EMD	HSEM	1 year	Extreme Heat	Minimal Cost (Staff Time)	Medium
11. Develop live web access floodplain overlay on the Town's tax maps.	Planning Director	Town Budget	1-2 years	Flood	\$4,000	Medium
12. Update floodplain maps to reflect more accurate flood levels in town.	Planning Director	Town Budget & FEMA	5 years	Flood	\$25,000 - \$50,000	Medium
13. Retrofit the Town Office for generator hookup.	Board of Selectmen	Town/HSEM	1-2 years	Hurricane, Severe Wind, Winter Weather	\$10-70,000	Medium
14. Conduct seismic retrofitting or new construction of the Police Department, Public Works and the EOC.	Board of Selectmen	Town / State / Federal	5 years	Earthquake	Up to 5 million	Low
15. Educate public about the National Flood Insurance Program and benefits of flood insurance through website links and brochures.	Planning Director	Office of Energy and Planning (OEP)	1-2 years	Flood	Minimal Cost (Staff Time)	Low
16. Join the Community Rating System (CRS).	Planning Director	OEP	5 years	Flood	Minimal Cost (Staff Time)	Low
17. Educate the public regarding dangers of severe winter weather (including generator & carbon monoxide hazards) and steps they can take to protect themselves, utilizing the town's Code Red, website and printed materials.	EMD	Town / DHS	1-2 years	Winter Weather	Minimal Cost (Staff Time)	Low
18. Repair or remove the Poole Reservoir Dam.	DPW	Town / State / Federal	5 years	Dam Failure	\$300- 400,000	Low