Canton

Canton is a rural town in Hartford County with a population of about 10,000. The Town encompasses 25 square miles and has an elevation ranging from 250 feet in Collinsville to 1100 feet in North Canton. Canton lies within the boundaries of the Farmington River Watershed. The principal watercourses in Town include the Farmington River and the Cherry, Barbour, and Jim Brooks. The major transportation routes that run through Canton include state routes 44, 202 and 179. Major industries located in Canton include plastic injection molding, small businesses and large commercial retail, restaurants, small farming, art galleries, and antique shops.

Challenges

The Town faces flooding challenges, especially at the sewage plant and town garage along the Farmington River, as well as at Dowd’s Corner where the East Branch of Rattlesnake Brook meets Rattlesnake Brook. The town garage is located about four feet under Base Flood Elevation. Private properties, including at least one commercial property, at Dowd’s Corner have experienced repetitive flood losses. In addition, if the dam at the Barkhamsted Reservoir, located outside of Canton, failed, Canton would experience serious flooding on the Farmington in about 20 minutes. Similarly, a failure in the Nepaug Reservoir Dam located just outside of Canton, would quickly cause serious flooding in town. Finally, maintaining accessibility throughout Town during storms is another challenge, given the number of rivers and streams, and the steep slopes in many areas.

Goals, Objectives and Strategies

Goal: Reduce the loss of life and property, and economic consequences of natural hazards

Objective 1:
Reduce flooding damages to existing municipal infrastructure.

Strategies:

1.1 Continue to monitor the availability of an appropriate site for relocating the town garage.

Lead: Public Works, Administration
Priority: Medium

1.2 Maintain floodprooing measures protecting the sewage treatment facility.

Lead: WPCA, Public Works
Priority: High

Objective 2:
Reduce flooding damages to private properties.

Strategies:

2.1 Develop a list of private properties for acquisition as they become available at Dowd’s Corner.

Lead: Planning, Emergency Management
Priority: Medium
2.2 Pursue opportunities for purchasing listed properties.
   Lead: Planning, Administration
   Priority: Medium

2.3 Continue to review and enforce development regulations to prevent increased flood risks.
   Lead: Planning, Engineering, Building
   Priority: High

2.4 Study potential impacts of Nepaug Reservoir Dam failure.
   Lead: Emergency Management, Planning, Administration
   Priority: Low

2.5 Develop appropriate evacuation plan based on Nepaug Reservoir Dam failure.
   Lead: Emergency Management
   Priority: Low

2.6 Develop appropriate evacuation plan based on Barkhamsted Reservoir Dam failure studies.
   Lead: Emergency Management
   Priority: Low

2.7 Enhance town warning system: sirens, public address systems, etc.
   Lead: Emergency Management, Police, Fire
   Priority: Medium

**Objective 3:**
Ensure good traffic management during any type of hazard event.

**Strategies:**
3.1 Maintain good communications with neighboring communities’ public safety officials to coordinate road closures and detours.
   Lead: Emergency Management, Police, Fire
   Priority: High

3.2 Educate residents on most common alternative routes in advance of storms through municipal website and other resident communications.
   Lead: Police, Emergency Management, Administration
   Priority: Medium

**Objective 4:**
Minimize power disruptions.

**Strategies:**
4.1 Maintain good communications with Connecticut Light & Power.
   Lead: Emergency Management, Police, Fire
   Priority: High
Map 13: Canton Repetitive Flood Loss Claims, Dams, Flood Zones and Open Space

Data Sources: Connecticut Department of Environmental Protection, Flood Zones, Dams, Repetitive Loss Data, Town Boundaries, Hydrography and Streams; Connecticut Department of Transportation
Projection: Connecticut State Plane 1983 feet
For Planning and Analysis Use Only
Prepared: Spring 2007
**East Granby**

East Granby is a rural community in the Capitol Region that covers encompasses about 17.5 sq. miles and has a population of approximately 5,000. Most of the land area in Town falls in the Farmington River Watershed, though the northeastern portion drains to the Stony Brook watershed. The Farmington River forms the southern municipal boundary. The Salmon and Muddy Brooks are major tributaries to the Farmington that flow through East Granby. Other watercourses running through town include Holcomb, Sanborn and Shelden’s Brooks. Farming has traditionally been the mainstay of the Town however today’s principle industries include manufacturing and quarrying. The major transportation routes through East Granby are state routes 20, 187 and 189. The Connecticut Air National Guard has a base in East Granby. Bradley International Airport, while primarily located in Windsor Locks to the east, has runway space in East Granby.

**Goals, Objectives and Strategies**

*Goal: Reduce the impacts of flooding on people and property*

**Objective 1:**
Strengthen land use regulations, and their implementation, to ensure flood risks do not increase.

**Strategies:**
1.1 Consider requiring more low impact development measures through zoning regulations.

   **Lead:** Community Development  
   **Priority:** Medium

1.2 Educate land use officials on low impact development techniques.

   **Lead:** Community Development  
   **Priority:** Medium

**Objective 2:**
Encourage acquisition of undeveloped land subject to flooding as open space.

**Strategies:**
2.1 Develop an open space plan, with special attention paid to land along rivers and streams not only because of flooding concerns, but also for recreation and wildlife management interests.

   **Lead:** Community Development  
   **Priority:** Medium

**Objective 3:**
Improve stormwater management practices to reduce runoff.

**Strategies:**
3.1 Continue to implement measures under Phase II MS4 Stormwater program.

   **Lead:** Public Works  
   **Priority:** High
Objective 4:
Ensure that vulnerable areas remain accessible during floods.

Strategies:
4.1 Develop a plan for accessing floodprone areas, such as Winding Hill Road.
   Lead: Public Works, Emergency Management, Community Development and Administration
   Priority: Medium

4.2 Implement recommendations from above-mentioned plan.
   Lead: Public Works, Emergency Management, Community Development and Administration
   Priority: Low

4.3 Address Floydville Road culvert, either by cleaning or by replacing.
   Lead: Public Works, Administration
   Priority: Low

Goal: Minimize loss of life, property and economic consequences of high wind and winter storm events

Objective 1:
Ensure adequate tree trimming in public rights-of-way.

Strategies:
1.1 Continue tree evaluation practices.
   Lead: Public Works
   Priority: Medium

1.2 Continue to contract out preventive maintenance of trees.
   Lead: Public Works, Administration
   Priority: Medium

Objective 2:
Minimize power outages.

Strategies:
2.1 Analyze areas where outages occur and monitor new developments.
   Lead: Public Works, Police, Administration
   Priority: Medium

2.2 Work with utility to reduce outages in areas frequently without power.
   Lead: Public Works, Administration
   Priority: Medium

Objective 3:
Communicate effectively with residents before, during and after hazard events.

**Strategies:**

3.1 Continue to maintain special needs population list.
   - Lead: Administration
   - Priority: Medium

3.2 Monitor and ensure effective implementation of Reverse-911 system.
   - Lead: Administration, Emergency Management
   - Priority: Medium

**Objective 4:**
Ensure that roads in East Granby remain passable.

**Strategies:**

4.1 Treat roads in advance of winter storms, when possible.
   - Lead: Public Works
   - Priority: Medium

4.2 Continue to address state roads, when necessary to maintain safety.
   - Lead: Public Works
   - Priority: Low
Map 14: East Granby Critical Facilities and Population Density

Critical Facilities & Population Density: 2000 Census Persons per Square Mile by Census Block

- **Hazardous Materials**
- **Hospitals & Medical Facilities**
- **Emergency Management Centers**
- **Fire Stations**
- **Police Stations**
- **Rivers and Streams**
- **Freeways**
- **Major Arterials**
- **Minor Arterials**
- **Waterbodies**
  - Less than 800
  - 801 - 1600
  - 1601 - 3200
  - More than 3200

Data Sources: Connecticut Department of Environmental Protection, Flood Zones, Dams, Repetitive Loss Data, Town Boundaries, Hydrography and Streams; Connecticut Department of Transportation
Projection: Connecticut State Plane 1983 feet
For Planning and Analysis Use Only
Prepared: Spring 2007
Map 15: East Granby Repetitive Flood Loss Claims, Dams, Flood Zones and Open Space

Data Sources: Connecticut Department of Environmental Protection, Flood Zones, Dams, Repetitive Loss Data, Town Boundaries, Hydrography and Streams; Connecticut Department of Transportation
Projection: Connecticut State Plane 1983 feet
For Planning and Analysis Use Only
Prepared: Spring 2007
**East Hartford**

The Town of East Hartford is a suburban community of approximately 48,800 located east of the City of Hartford and west of the Town of Manchester. The Town covers slightly more than 18 square miles. East Hartford’s land area drains primarily to the Connecticut and Hockanum Rivers. Pewterpot Brook is another waterway of significance. Many regionally significant transportation routes traverse and intersect in East Hartford including Interstate 84 and 384, Routes 2, 5, 15, and 44. Principal industries include aerospace manufacturing and contractors, warehouse and distribution centers, as well as light industrial and retail businesses. Connecticut Natural Gas and the State Department of Information Technology, among others, maintain critical infrastructure in Town. East Hartford is home to the University of Connecticut Huskies football team, Goodwin College and, more recently, Cabela’s retail store at Rentschler Field. Continued development of the former Rentschler Airfield promises to bring additional corporate, State, municipal and retail opportunities to the Town.

**Challenges**

Following historic flooding of the Connecticut River valley in 1936 and 1938, the Army Corps of Engineers designed and constructed a levee system in East Hartford to protect the Town from future catastrophic flooding. The Town has maintained the levee system for 70 years, and recently began a $7 million capital improvement program dedicated to the system. The Town is currently performing work that will maintain levee accreditation with the Army Corps of Engineers and provide FEMA with the required information necessary to obtain Federal certification of the Town’s flood protection system.

The Metropolitan District Commission’s (MDC) Clean Water Project presents substantial opportunities and challenges to the Town. As planning for the separation of storm water and sewer lines throughout the Region continues, it is critical for the Town to monitor impacts on flood control infrastructure.

**Goals, Objectives and Strategies**

*Goal: Reduce the likelihood of losses of life and property from flooding*

**Objective 1:**
Ensure proper maintenance of flood control system.

**Strategies:**

1.1 Continue to implement necessary repairs and upgrades required by FEMA and the Army Corps of Engineers to retain accreditation.

   Lead: Public Works, Engineering  
   Priority: High

1.2 Update the flood control system manual.

   Lead: Public Works, Engineering  
   Priority: Medium
1.3 Train Town employees, according to updated manual, in proper maintenance techniques.

Objective 2:
Identify and pursue priority drainage improvement projects in existing natural and artificial drainage systems.

Strategies:
2.1 Evaluate the condition and sustainability of existing drainage systems.

2.2 Develop a capital improvement plan to improve existing drainage projects.

2.3 Pursue priority drainage projects identified in capital improvement plan.

Objective 3:
Improve the ability of emergency responders to prepare for and respond to natural disasters.

Strategies:
3.1 Exercise and refine critical components of National Incident Management System with an emphasis on interagency communication and cooperation.

3.2 Participate in local, regional and state-wide natural disaster preparedness training.

Objective 4:
Improve the ability of emergency responders to serve the special needs population during all types of emergencies.

Strategies:
4.1 Develop and maintain an accessible registry of residents with special needs using a regional model.

4.2 Use a public notification system.
4.3 Continue training for the evacuation, sheltering and protection of special needs populations.

Lead: Emergency Management, Fire, Police
Priority: Medium

**Objective 5:**
Improve emergency communications to residents prior to and during natural disasters.

**Strategies:**
5.1 Identify and acquire public notification system, like Reverse-911, for facilitating communication of critical information to residents of all means.

Lead: Emergency Management, Police, Fire
Priority: Medium

5.2 Offer educational forums for residents on personal emergency planning.

Lead: Emergency Management, Health
Priority: Medium

**Objective 6:**
Improve awareness of flooding risks among property owners.

**Strategies:**
6.1 Implement an educational system for property owners, including insurance education, evacuation strategies and business continuity planning.

Lead: Emergency Management, Administration
Priority: Medium
Map 16: East Hartford Critical Facilities and Population Density

- Hazardous Materials
- Hospitals & Medical Facilities
- Emergency Management Centers
- Fire Stations
- Police Stations
- Rivers and Streams
- Freeways
- Major Arterials
- Minor Arterials
- Waterbodies
- Less than 800
- 801 - 1600
- 1601 - 3200
- More than 3200

Data Sources: Connecticut Department of Environmental Protection, Flood Zones, Dams, Repetitive Loss Data, Town Boundaries, Hydrography and Streams; Connecticut Department of Transportation
Projection: Connecticut State Plane 1983 feet
For Planning and Analysis Use Only
Prepared: Spring 2007
Map 17: East Hartford Repetitive Flood Loss Claims, Dams, Flood Zones and Open Space

Data Sources: Connecticut Department of Environmental Protection, Flood Zones, Dams, Repetitive Loss Data, Town Boundaries, Hydrography and Streams; Connecticut Department of Transportation

Projection: Connecticut State Plane 1983 feet

For Planning and Analysis Use Only

Prepared: Spring 2007
East Windsor

East Windsor has a population of about 10,500, and a land area of 26.3 square miles. Situated on the east side of the Connecticut River, the town lies at an elevation of about 160 feet. The eastern portion of town is within the Scantic River Watershed, while the western portion lies in the Connecticut Main Stem basin. Both the Connecticut and Scantic Rivers run through East Windsor, along with several tributaries including Broad, Chestnut, Ketch, Namerick and Spring Glen Brooks. Interstate 91 crosses the northwest corner of East Windsor. State route 5 is a major north-south thoroughfare, while state routes 140 and 191 provide east-west access. Principal industries include: agriculture, support system facilities, and manufacture of small tools, paper boxes, electronics, aluminum by-products, farm implements and fertilizers.

Goals, Objectives and Strategies

Goal: Reduce the loss of life and economic consequences from winter storms

Objective 1:
Improve the ability to clear roads by increasing public works staff.

Objective 2:
Maintain equipment and supplies for treating roads.

   Strategies:
   2.1 Maintain adequate material in newly constructed salt shed.
       Lead: Public Works
       Priority: Medium

Objective 3:
Reduce the amount of debris through preventative tree maintenance.

   Strategies:
   3.1 Continue regular tree maintenance, including documentation and notification of issues in CL&P utility right-of-way.
       Lead: Public Works
       Priority: High

   3.2 Continue to use private contractors for emergency debris removal.
       Lead: Public Works, Administration
       Priority: Medium

Objective 4:
Ensure safety of residents and properties during prolonged power outages.

   Strategies:
   4.1 Continue to maintain special needs population lists.
       Lead: Fire and Police
       Priority: High
4.2 Familiarize town staff with Reverse-911 as system implementation begins.
   Lead: Emergency Management, Police, Fire
   Priority: Medium

4.3 Use town media, including newsletter, website and other means to educate residents on personal planning for emergencies.
   Lead: Emergency Management, Administration
   Priority: Medium

Goal: Reduce loss of life and property and economic consequences of high wind events

Objective 1:
Reduce damages to municipal buildings through regular maintenance.

   Strategies:
   1.1 Devise and implement a regular building inspection and maintenance program.
      Lead: Public Works
      Priority: Medium

Objective 2:
Improve ability of emergency responders to prepare and respond to wind events.

   Strategies:
   2.1 Acquire and maintain generators at emergency shelters.
      Lead: Emergency Management
      Priority: Low

Objective 3:
Reduce debris through preventative tree maintenance.

   Strategies:
   3.1 See Goal 1, objective 3 above.

Objective 4:
Ensure safety of residents and properties during prolonged power outages.

   Strategies:
   4.1 See Goal 1, objective 4 above.

Goal: Reduce loss of life and property and economic consequences from flooding

Objective 1:
Reduce the likelihood of flooding by improving existing natural and artificial drainage systems.
Strategies:
1.1 Conduct study of dam on Main Street near Depot Street intersection, using previously awarded funds.
   Lead: Public Works, Engineering
   Priority: High

1.2 Implement recommendations from the above study.
   Lead: Public Works, Engineering, Administration
   Priority: Medium

1.3 Implement recommendations of Natural Resources Conservation Service, including installation of a detention basin in Windsorville Road/East Road area to reduce road closures and washouts.
   Lead: Public Works, Engineering, Administration
   Priority: Medium

1.4 Work with property owners, contractors and the DEP to regularly remove beaver dams causing flooding problems.
   Lead: Public Works, Inland Wetlands
   Priority: Medium

1.5 Investigate and consider purchasing residential properties located in floodplains, as they come up for sale.
   Lead: Emergency Management
   Priority: Low

1.6 Consider replacing East Road and Melrose Road bridges.
   Lead: Emergency Management, Planning
   Priority: Low

Objective 2:
Reduce debris through preventative tree maintenance.

Strategies:
2.1 See Goal 1, objective 3 above.

Objective 3:
Ensure safety of residents and properties during prolonged power outages.

Strategies:
3.1 See Goal 1, objective 4 above.
Map 18: East Windsor Critical Facilities and Population Density

Data Sources: Connecticut Department of Environmental Protection, Flood Zones, Dams, Repetitive Loss Data, Town Boundaries, Hydrography and Streams; Connecticut Department of Transportation
Projection: Connecticut State Plane 1983 feet
For Planning and Analysis Use Only
Prepared: Spring 2007
Map 19: East Windsor Repetitive Flood Loss Claims, Dams, Flood Zones and Open Space