**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 5,277. 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.

**Challenges**

The National Flood Insurance Program has paid three property damage claims in East Granby totaling $2,317 to-date. East Granby has no Repetitive Loss Property claims to-date. Since the adoption of the 2008 Plan, East Granby has not permitted any new structures or had any demolitions in the floodplain. Although flooding is not as large a concern in East Granby as in some other communities, a significant flood event could result in much damage. CRCOG used FEMA’s Hazus-MH model to analyze the risks that the Town of East Granby might face from flooding. The model estimates that economic losses to the town including residential and commercial damage and business interruptions due to a flood having a 1% chance of occurring any given year (the 100-year flood) would be over $13 million. The impacts of such a flood are summarized below:

<table>
<thead>
<tr>
<th>Estimated Damages from 100-Year Flood</th>
<th>Households Displaced</th>
<th>67</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>People Needing Shelter</td>
<td>96</td>
</tr>
<tr>
<td></td>
<td>Buildings at Least Moderately Damaged</td>
<td>13</td>
</tr>
<tr>
<td></td>
<td>Total Estimated Economic Losses</td>
<td>$13,340,000</td>
</tr>
<tr>
<td></td>
<td>Total Residential Building &amp; Content Losses</td>
<td>$7,210,000</td>
</tr>
<tr>
<td></td>
<td>Total Commercial, Industrial &amp; Other Building &amp; Content Losses</td>
<td>$6,110,000</td>
</tr>
<tr>
<td></td>
<td>Total Business Interruption Losses</td>
<td>$10,000</td>
</tr>
</tbody>
</table>

CRCOG also used FEMA’s Hazus-MH model to analyze the risks that the Town of East Granby might face from a hurricane as powerful as the 1938 hurricane. The model estimates that economic losses to the town including residential and commercial damage and business interruptions due to such a Category 3 hurricane would be nearly $20 million. The impacts of such a storm are summarized below:

<table>
<thead>
<tr>
<th>Estimated Damages from a 1938 Strength Hurricane</th>
<th>Households Displaced</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>People Needing Shelter</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Buildings at Least Moderately Damaged</td>
<td>135</td>
</tr>
<tr>
<td></td>
<td>Buildings Completely Damaged</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Total Estimated Economic Losses</td>
<td>$19,800,000</td>
</tr>
<tr>
<td></td>
<td>Total Residential Building Losses</td>
<td>$13,580,000</td>
</tr>
</tbody>
</table>
To total Commercial, Industrial & Other Building Losses $4,210,000
Total Business Interruption Losses $2,040,000
Total Debris Generated 21,073 tons
Truckloads (at 25 tons/truck) of building debris 67

According to information from the Connecticut Department of Emergency Management and Homeland Security, the three federally declared natural disasters of 2011 resulted in total expenses to the municipality of $643,437.30. These expenses include debris and snow removal, emergency protective measures and repairs to damaged infrastructure and buildings but do not include damages experienced by private citizens and businesses.

<table>
<thead>
<tr>
<th>2011 Disasters Damage Amounts Eligible for 75% Reimbursement Under FEMA Public Assistance Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applicant: Municipality</td>
</tr>
<tr>
<td>-------------------------</td>
</tr>
<tr>
<td>East Granby</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

In the past, the town experienced roof collapses due to heavy snow loads on flat roofed buildings.

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.

Strategic Actions:

1.1 Consider requiring more low impact development measures through zoning regulations.
   Lead: Community Development
   Priority: Medium
   Status: Adopted performance based LID regulations in 2012. Will continue to evaluate applications to existing development and amendments to the regulations. May look at case studies.
   Potential Funding Sources: Used DEEP grant to develop regulations. Will explore additional grant funding options for future efforts.
   Timeframe: 2015-2018

1.2 Educate land use officials on low impact development techniques.
   Lead: Community Development
   Priority: Medium
Status: Prepared education manual to accompany model regulations. Will work with development community on expectations for use of LID as part of development review process and will look into developing demonstration sites. Demonstration site would be dependent on available funding.

Potential Funding Sources: grant funding

Timeframe: 2015-2018

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

Strategic Actions:

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
   Status: Deferred; however, as part of the LID project, the Town conducted a natural and cultural resources inventory which will set the stage for identifying open spaces. State funds were used to buy development rights for 400+ acres of farmland. The Town will be updating the Plan of Conservation and Development in 2014.
   Potential Funding Sources: Limited funds available in town open space fund which is funded through fees in lieu and from the CIP.

Objective 3:
Improve stormwater management practices to reduce runoff.

Strategic Actions:

3.1 Continue to implement measures under Phase II MS4 Stormwater program.
   Lead: Public Works
   Priority: High
   Status: Nearly complete with mapping: Used CRCOG 2009 aerials to identity and mark manholes, catch basins, culverts. Will continue work in the plan update period.
   Potential Funding Sources: Operating budget
   Timeframe: Expect completion in 2014.
Objective 4:
Ensure that vulnerable areas remain accessible during floods.

Strategic Actions:

4.1 Develop a plan for accessing flood prone areas, such as Winding Hill Road.
Lead: Public Works, Emergency Management, Community Development and Administration
Priority: Medium
Status: Identified two new routes for emergency access. Construction of Tunxis Avenue access is anticipated for fall 2013. Cowles Park access option is in the planning process currently.
Potential Funding Sources: Operating funds.
Timeframe: 2013-2014 for Tunxis; 2017-2018 for Cowles Park

4.2 Implement recommendations from above-mentioned plan.
Lead: Public Works, Emergency Management, Community Development and Administration
Priority: Low
Status: Underway (see above)
Potential Funding Sources: Cowles Park – operating budget
Timeframe: 2013-2014 for Tunxis; 2017-2018 for Cowles Park

4.3 Address Floydville Road culvert, either by cleaning or by replacing.
Lead: Public Works, Administration
Priority: Low
Status: Completed: replaced in 2011. No additional work needed.

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.

Strategic Actions:

1.1 Continue tree evaluation practices.
Lead: Public Works
Priority: Medium
Status: The Director of Public Works is also the Town’s tree warden and routinely although informally evaluates maintenance; will consider more formal process and identification of areas with overhead wires.
1.2 Continue to contract out preventive maintenance of trees.
Lead: Public Works, Administration
Priority: Medium
Status: Purchased bucket truck in 2010 to do some work with town staff. Will continue to contract for larger jobs. Routine work to be carried out with town staff. Annual review to be conducted during budget process.
Potential Funding Sources: operating budget.
Timeframe: 2014-2019

Objective 2:
Minimize power outages.

Strategic Actions:

2.1 Analyze areas where outages occur and monitor new developments.
Lead: Public Works, Police, Administration
Priority: Medium
Status: Held two workshops with industrial users to identify reliability issues over the last two years. Will hold another workshop on cogeneration for manufacturers.
Potential Funding Sources: operating budget
Timeframe: Expect completion in 2014

2.2 Work with utility to reduce outages in areas frequently without power.
Lead: Public Works, Administration
Priority: Medium
Status: Worked with CL&P on aggressive tree cutbacks and to identify a prioritized list of facilities for power restoration. This effort is completed. (CL&P upgraded transmission line after Storm Alfred.)

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

Strategic Actions:

3.1 Continue to maintain special needs population list.
Lead: Administration
Priority: Medium
Status: Updated quarterly and available to public safety personnel.
Potential Funding Sources: operating budget
Timeframe: Will continue to maintain quarterly throughout 2014-2019

3.2 Monitor and ensure effective implementation of Reverse-911 system.
Lead: Administration, Emergency Management
Priority: Medium
Status: Purchased Everbridge Aware module in 2012. Will continue to maintain annual subscription. Will consider tying Everbridge into website for notifications.
Potential Funding Sources: operating budget
Timeframe: 2014-2019: To be included annually as line item in police/public safety budget.

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

Strategic Actions:

4.1 Treat roads in advance of winter storms, when possible.
Lead: Public Works
Priority: Medium
Status: Advance treatment is routinely carried out. Will continue.
Potential Funding Sources: operating budget

4.2 Continue to address state roads, when necessary to maintain safety.
Lead: Public Works
Priority: Low
Status: Work to clear state road is done as necessary. Will continue to maintain a good working relationship with ConnDOT staff. This is a routine and sustained effort which will continue to be undertaken as necessary.
Potential Funding Sources: operating budget
Timeframe: 2014-2019

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Map 20: East Granby Population Density, Dams and Flood Zones
Map 21: East Granby Flood Plains, Repetitive Loss Areas, Dams and Important Facilities

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