



## APPENDIX E RISK ASSESSMENT SUPPLEMENTARY DATA

This appendix contains supporting information for the Risk Assessment (Section 5) as available. It contains excerpts of the previous events and losses as presented in the 2015 Hazard Mitigation Plan (HMP), organized by hazard of concern. This information has been compiled into one appendix for ease of reference; however, it has not been updated and is reproduced as documented in the 2015 plan.

In order to create a more streamlined plan, the 2021 HMP was reorganized and condensed into a practical and more readable document for the public with the goal of providing a plan easier to implement for the county and all municipalities to support future risk reduction. The information in this appendix supplements the information provided in Section 5.4 of this plan.

### E.1 Critical Facilities and Lifelines

The identification of community lifelines across Livingston County provides an enhancement to the 2022 HMP. The Federal Emergency Management Agency (FEMA) defines a lifeline as: *“providing indispensable service that enables the continuous operation of critical business and government functions, and is critical to human health and safety, or economic security.”* Identifying community lifelines will help government officials and stakeholders to prioritize, sequence, and focus response efforts towards maintaining or restoring the most critical services and infrastructure within their respective jurisdiction(s). Identifying potential impacts to lifelines can help to inform the planning process and determining priorities in the event an emergency occurs. Figure E-1 is FEMA’s fact sheet that describes lifelines further.



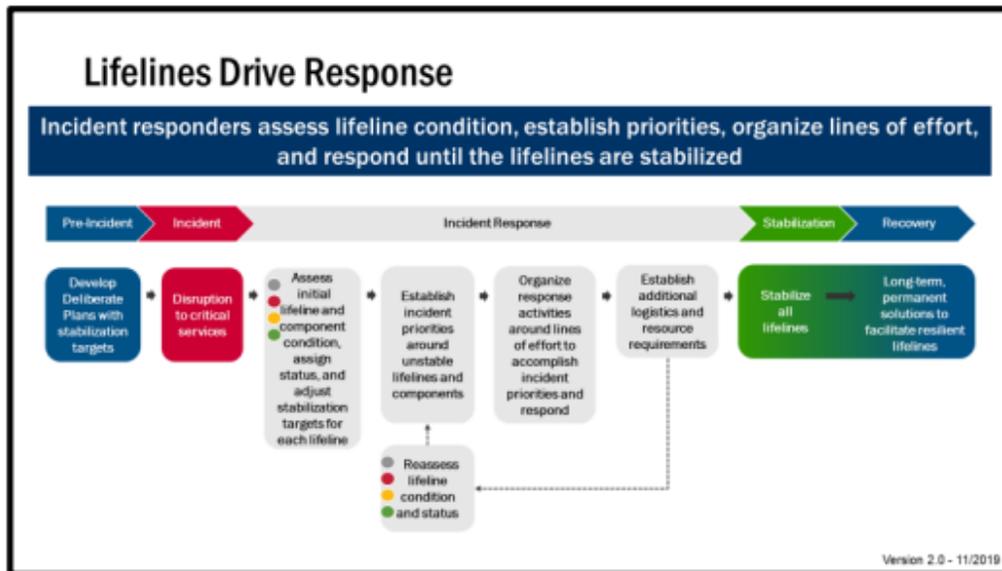
Figure E-1. FEMA Community Lifelines

### Why lifelines?

- FEMA developed the community lifelines construct to increase effectiveness in disaster operations and better position the Agency to respond to catastrophic incidents
- Lifelines are the most fundamental services in the community that, when stabilized, enable all other aspects of society
- When disrupted, decisive intervention (e.g., rapid service re-establishment or employment of contingency response solutions) is required
- During initial response, priority efforts focus on stabilizing community lifelines.
- Lifelines provide an outcome-based, survivor-centric frame of reference that assists responders with:
  - Root Cause Analysis
  - Interdependencies
  - Prioritization
  - Ease of Communication

### How were lifelines developed?

- FEMA released initial guidance (*Lifelines Toolkit*) introducing the lifelines construct in February 2019, followed by significant stakeholder outreach and feedback including:
  - State and Local Emergency Managers
  - Interagency Partners
  - Private and Non-Profit Stakeholders
- Construct was validated during responses to Hurricanes Michael, Florence, and Dorian, Super Typhoon Yutu, Alaska Earthquake, and during Shaken Fury full-scale exercise.
- Lessons learned from exercises, operations, and stakeholder feedback resulted in refinement and improvement to the construct.
- *National Response Framework (NRF) 4th Edition* formalized lifelines in national response policy
- Enhanced Lifelines guidance (*Lifelines Toolkit 2.0*) released to support NRF Publication.



See the Lifelines Toolkit at:

<https://www.fema.gov/media-library/assets/documents/177222>

If you have any questions or feedback, please email them to: [Lifelines@fema.dhs.gov](mailto:Lifelines@fema.dhs.gov)





## E.2 Drought

### E.2.1 Hazard Events in the 2015 HMP

Dates of Event	Event Type	FEMA Declaration Number	County Designated?	Losses / Impacts
June 2012	Drought / Excessive Heat	N/A	N/A	This event resulted in a USDA Disaster Declaration (S3427), and Livingston County was included in this declaration. The County was considered to be abnormally dry for this time of year.
June 2012	Drought	N/A	N/A	This event resulted in a USDA Disaster Declaration (S3441), and Livingston County was included in this declaration. The County was considered to be abnormally dry for this time of year.

### E.2.2 Risk Assessment Tables

N/A



### E.3 Earthquake

#### E.3.1 Hazard Events in the 2015 HMP

Dates of Event	Event Type	Location	FEMA Declaration Number	County Designated?	Losses / Impacts
May 12, 2008	Earthquake 2.3	Attica, NY	N/A	N/A	No reference and/or no damage reported.
December 23, 2008	Earthquake 2.1	Caldonia, NY	N/A	N/A	No reference and/or no damage reported.
May 10, 2009	Earthquake 2.1	Pavilion, NY	N/A	N/A	No reference and/or no damage reported.
June 5, 2009	Earthquake 2.9	Attica, NY	N/A	N/A	No reference and/or no damage reported.
August 11, 2009	Earthquake 2.0	Le Roy, NY	N/A	N/A	No reference and/or no damage reported.
September 23, 2009	Earthquake 2.4	Attica, NY	N/A	N/A	No reference and/or no damage reported.
March 3, 2010	Earthquake 2.1	Gaines, NY	N/A	N/A	No reference and/or no damage reported.
August 22, 2010	Earthquake 2.3	West Falls, NY	N/A	N/A	No reference and/or no damage reported.
March 23, 2012	Earthquake 2.5	Mt. Morris, NY	N/A	N/A	No reference and/or no damage reported.



E.3.2 Risk Assessment Tables

Jurisdiction	Number of Critical Facilities Located in the NEHRP Soil Class D or Class E Hazard Area																																			
	Adult Care	Airport	Bridge	Bus Facility	Cell Tower	Child Care Facility	Communication Facility	Correctional Facility	County Building	Dam	Electric Substation	EMS	Fire Station	Highway Department	Hospital	Library	Major Chemical Storage	Major Employer	Pharmacy	Police Station	Polling Site	Post Office	Post-Secondary Education	Potable Water Facility	Potable Water Tank	Potable Water Tower	Primary Education	Secondary Education	Shelter	Sheriff Radio Tower	Tier II HazMat	Town Hall	Village Hall	Wastewater Pump Station	Wastewater Sewage Treatment Facility	
Avon (T)	0	0	11	1	1	0	0	0	0	5	0	0	1	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0
Avon (V)	1	0	1	1	1	4	0	0	0	0	1	0	1	1	0	1	1	4	1	1	3	1	0	0	0	0	2	1	2	0	5	1	1	0	1	
Caledonia (T)	0	0	1	0	5	0	0	0	0	0	0	1	0	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	
Caledonia (V)	0	0	0	0	0	1	0	0	0	0	0	0	1	1	0	1	0	1	1	2	3	1	0	0	0	0	0	0	0	0	1	1	1	0	0	
Conesus (T)	0	0	3	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Dansville (V)	0	0	4	0	0	7	0	0	0	0	0	1	1	2	2	1	0	1	3	1	9	1	1	0	0	0	2	1	1	0	3	1	1	0	1	
Geneseo (T)	0	1	3	0	1	0	0	0	0	0	2	0	0	1	0	0	0	0	0	3	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	
Geneseo (V)	0	0	0	0	2	0	1	2	2	0	0	0	0	1	0	1	0	2	0	3	2	0	1	0	0	0	1	0	1	1	1	0	0	0	1	
Groveland (T)	0	0	15	0	1	0	0	3	0	1	1	0	1	0	0	0	1	1	0	1	0	2	0	2	1	0	0	0	0	0	0	0	0	0	0	1
Leicester (T)	0	0	9	0	0	0	0	0	0	1	2	1	1	0	0	0	0	0	0	1	0	0	1	1	1	0	0	0	0	1	0	0	0	0	0	
Leicester (V)	0	0	3	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	1	1	0	0	0	0	1	1	0	1	1	1	0	0	0	
Lima (T)	0	0	3	0	1	1	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	
Lima (V)	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1
Livonia (T)	0	0	7	1	0	2	1	0	0	4	0	0	2	0	0	0	1	2	1	2	3	3	0	1	0	1	0	0	1	0	1	0	0	0	6	1
Livonia (V)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mount Morris (T)	0	1	6	1	1	0	0	0	8	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Mount Morris (V)	0	0	1	0	0	1	0	0	0	0	0	1	1	1	0	1	0	1	1	1	4	0	0	0	0	0	1	1	2	0	2	1	1	0	1	



Jurisdiction	Number of Critical Facilities Located in the NEHRP Soil Class D or Class E Hazard Area																																					
	Adult Care	Airport	Bridge	Bus Facility	Cell Tower	Child Care Facility	Communication Facility	Correctional Facility	County Building	Dam	Electric Substation	EMS	Fire Station	Highway Department	Hospital	Library	Major Chemical Storage	Major Employer	Pharmacy	Police Station	Polling Site	Post Office	Post-Secondary Education	Potable Water Facility	Potable Water Tank	Potable Water Tower	Primary Education	Secondary Education	Shelter	Sheriff Radio Tower	Tier II HazMat	Town Hall	Village Hall	Wastewater Pump Station	Wastewater Sewage Treatment Facility			
North Dansville (T)	0	1	13	1	0	1	1	0	0	0	1	0	0	1	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Nunda (T)	0	0	4	1	0	0	0	0	0	4	0	0	0	1	0	0	0	0	0	0	1	0	0	0	2	0	1	0	0	0	0	0	0	0	0	0		
Nunda (V)	0	0	4	0	0	1	0	0	0	1	1	1	1	0	1	0	1	1	1	3	1	0	0	0	0	0	1	1	0	0	0	1	1	0	1	1	0	1
Ossian (T)	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	
Portage (T)	0	0	8	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sparta (T)	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	
Springwater (T)	0	0	1	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
West Sparta (T)	0	0	13	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
York (T)	0	0	10	1	0	0	0	0	0	3	2	0	1	0	0	0	2	1	0	0	0	2	0	0	0	0	1	0	1	0	2	0	0	0	0	1		
<b>Livingston County (Total)</b>	<b>1</b>	<b>3</b>	<b>127</b>	<b>7</b>	<b>13</b>	<b>19</b>	<b>3</b>	<b>5</b>	<b>10</b>	<b>25</b>	<b>13</b>	<b>5</b>	<b>12</b>	<b>12</b>	<b>2</b>	<b>6</b>	<b>8</b>	<b>21</b>	<b>8</b>	<b>13</b>	<b>34</b>	<b>13</b>	<b>3</b>	<b>4</b>	<b>6</b>	<b>3</b>	<b>10</b>	<b>5</b>	<b>11</b>	<b>1</b>	<b>23</b>	<b>7</b>	<b>6</b>	<b>10</b>	<b>10</b>			

Source: NYS GIS n.d.; Livingston County Planning Partners - 2021; HIFLD – 2020

Notes: T – Town; V – Village



## E.4 Flood

### E.4.1 Hazard Events in the 2015 HMP

Dates of Event	Event Type	FEMA Declaration Number	County Designated?	Losses / Impacts
July 24, 2008	Heavy Rain and Flash Flood	N/A	N/A	Thunderstorms crossed the area and produced hail up to 1 inch in diameter and strong winds estimated at 60 mph. The storms brought heavy rain, as much as 5 inches in a few hours. In Livingston County, the Town of Springwater was hit hard. Roads and culverts washed away, exposing underground water pipes. The County sustained approximately \$200,000 in property damage.
August 12, 2009	Heavy Rain and Flash Flood	N/A	N/A	Isolated storms developed during the afternoon across the western Southern Tier and Finger Lakes of New York State. The storms brought heavy rainfall, with estimates of 2 to 3 inches falling in an hour. In Livingston County, the Village of Dansville had numerous roadways flooded and closed. The county sustained approximately \$25,000 in property damage.
July 13, 2010	Heavy Rain and Flash Flooding	N/A	N/A	Heavy rains produced localized flash floods that flooded homes and roadways. In Livingston County, a small creek overflowed its banks in the Town of Mount Morris and flooded a home on Damonsville Street. The water filled the basement and reached levels above the electrical outlets on the first floor. The county sustained approximately \$45,000 in property damage.
December 1-2, 2010	Heavy Rain and Flood	N/A	N/A	Rainfall totals of 3 to 4 inches fell as a result of this storm event. This caused flooding of major rivers and roadway flooding. In Livingston County, the Genesee River at Portageville crested at 21.67 feet.
April 26 – May 8, 2011	Severe Storms, Flooding, Tornadoes, and Straight-Line Winds	DR-1993	Yes	Showers and thunderstorms accompanied the passage of a cold front across the region. The thunderstorms winds downed trees and power lines. Several hundred customers were without power. In Dansville, the thunderstorm winds blew off a portion of the roof of Dansville High School.
May 13, 2011	Flash Flood	N/A		On May 13 <sup>th</sup> , a low pressure system moved across the Great Lakes, and caused showers and thunderstorms to develop. Localized rainfall amounts of up to 3 inches fell in just a few hours, resulting in flash floods in the area. Numerous roads were closed and/or damaged by flooding. States of Emergency were declared in some municipalities. Several farms underwent crop damage. Livingston County sustained approximately \$35,000 in property damage from this event.
May 15-16, 2014	Severe Storms and Flooding	DR-4180	Yes	The storms brought heavy rains and flooding to much of the area. In Livingston County, a barn was blown down on Dutch Street in Mount Morris. Utility poles were down in Leicester, and the grandstands at Edinburgh Community High School were bent in two and dragged. In Geneseo, trees were down. Heavy rains left some rural roads covered in mud and washouts on others. Bridges were threatened by rising water and debris. Docks were underwater at Conesus Lake. Overall, the storms caused over \$28 million in damage within the impacted counties of New York State.



E.4.2 Risk Assessment Tables

Jurisdiction	Number of Critical Facilities Located in the 1-Percent Annual Chance Flood Event													
	Airport	Bridge	Child Care Facility	Dam	Electric Substation	Major Chemical Storage	Major Employer	Pharmacy	Police Station	Post Office	Tier II HazMat	Town Hall	Wastewater Pump Station	Wastewater Sewage Treatment Facility
Avon (T)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avon (V)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Caledonia (T)	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Caledonia (V)	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Conesus (T)	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Dansville (V)	0	3	1	0	0	0	0	0	0	0	0	0	0	0
Geneseo (T)	1	1	0	0	0	0	0	0	1	0	0	0	3	0
Geneseo (V)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Groveland (T)	0	9	0	1	0	0	0	0	0	0	0	0	1	0
Leicester (T)	0	6	0	0	0	0	0	0	0	0	0	0	0	0
Leicester (V)	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Lima (T)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lima (V)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Livonia (T)	0	6	0	3	0	0	0	0	0	1	0	0	2	0
Livonia (V)	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Mount Morris (T)	0	2	0	0	0	0	0	0	0	0	0	0	0	0
Mount Morris (V)	0	1	0	1	0	0	1	1	0	0	2	0	0	1
North Dansville (T)	0	7	1	0	0	0	0	0	0	0	3	0	0	0
Nunda (T)	0	5	0	1	0	0	0	0	0	0	0	0	0	0
Nunda (V)	0	4	0	1	1	0	0	0	0	0	0	0	0	1
Ossian (T)	0	3	0	0	0	0	0	0	0	0	0	0	0	0
Portage (T)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sparta (T)	0	3	0	0	0	0	0	0	0	0	0	0	0	0
Springwater (T)	0	0	0	0	0	0	0	0	0	0	0	1	0	0
West Sparta (T)	0	2	0	0	0	0	0	0	0	0	0	0	0	0
York (T)	0	4	0	0	0	1	1	0	0	0	1	0	0	0
<b>Livingston County (Total)</b>	<b>1</b>	<b>59</b>	<b>2</b>	<b>8</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>6</b>	<b>2</b>	<b>6</b>	<b>2</b>

Source: HAZUS-MH 4.2; Livingston County Q3 Data from FEMA - 1970/1980; NY OIT 2013

% = Percent; T = Town; V = Village



Jurisdiction	Number of Critical Facilities Located in the 0.2-Percent Annual Chance Flood Event																	
	Airport	Bridge	Child Care Facility	Dam	Electric Substation	Library	Major Chemical Plant	Major Employer	Pharmacy	Police Station	Post Office	Primary Education	Secondary Education	Shelter	Tier II HazMat	Town Hall	Wastewater Pump Station	Wastewater Treatment Facility
Avon (T)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avon (V)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Caledonia (T)	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Caledonia (V)	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Conesus (T)	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Dansville (V)	0	3	3	0	0	1	0	0	0	0	0	2	1	1	1	0	0	0
Geneseo (T)	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	3	0
Geneseo (V)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Groveland (T)	0	12	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Leicester (T)	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Leicester (V)	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lima (T)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lima (V)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Livonia (T)	0	6	0	3	0	0	0	0	0	0	1	0	0	0	0	0	4	0
Livonia (V)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Mount Morris (T)	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mount Morris (V)	0	1	1	1	0	0	0	1	1	0	0	0	1	1	3	0	0	1
North Dansville (T)	0	9	1	0	0	0	3	3	0	0	0	0	0	0	3	0	0	0
Nunda (T)	0	5	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nunda (V)	0	4	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Ossian (T)	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Portage (T)	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sparta (T)	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Springwater (T)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
West Sparta (T)	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
York (T)	0	5	0	0	0	0	1	1	0	0	0	0	0	0	1	0	0	0
<b>Livingston County (Total)</b>	<b>1</b>	<b>66</b>	<b>5</b>	<b>9</b>	<b>1</b>	<b>1</b>	<b>4</b>	<b>5</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>8</b>	<b>2</b>	<b>9</b>	<b>2</b>

Source: HAZUS-MH 4.2; Livingston County Q3 Data from FEMA - 1970/1980; NY OIT 2013

% = Percent; T = Town; V = Village





## E.5 Hazardous Materials

### E.5.1 Hazard Events in the 2015 HMP

Dates of Event	Event Type	FEMA Declaration Number	County Designated?	Losses / Impacts
July 5, 2007	Fuel spill	N/A	N/A	Motor vehicle accident involving a concrete truck and a farm truck, diesel fuel, oil, and anti-freeze were the chemicals involved. Haz mat team called to stop run off into road ditches, stop leaks in fuel tanks, and stop run off into farm fields.
May 2, 2011	Fluid spill	N/A	N/A	A tractor-trailer took the turn too fast entering the southbound on-ramp of I390. The load shifted and the truck ended up on its side. A level one incident was called and two team members responded to assist Groveland FD with mitigation efforts. Motor oil and hydraulic fluid were released.
September 11, 2011	Chemical Spill	N/A	N/A	A tractor-trailer took the turn too fast on the southbound entrance ramp to I390 in Groveland. The truck was a tanker carrying Sodium Bisulfide, an inhalation hazard, and was leaking. A level 3 Haz Mat was declared with a full team response. Team members, in full Level A encapsulated suits, successfully entered the scene and were able to secure the leaking lids and stop the flow of materials. A cleanup contractor was retained and the product was off loaded prior to righting the truck. The Haz Mat Team provided suited backup to the cleanup contractor as well as providing decontamination, scene lighting and radio communications at the scene well into the night.
November 10, 2011	Fluid spill	N/A	N/A	A tractor-trailer driver attempted to make a U-turn onto River Rd from Route 408 in the Town of Mt. Morris. He ended up backing over a delineator post and punctured the driver's sidesaddle tank. A level 1 incident was declared and 2 team members went to the scene to assist the Mt. Morris Fire Department with mitigation. Team members plugged the leak and the Fire Department transferred the fuel.
November 12, 2011	Fluid spill	N/A	N/A	The West Sparta Fire Department responded to a request from the State Police to respond to mile marker 26, Northbound I390 for a large quantity of motor oil on the shoulder of the road. A level 1 response brought 3 team members to the scene to assist the Fire Department with cleanup.
February 14, 2012	Ammonia Leak	N/A	N/A	On the night shift, a flange on an ammonia pipeline broke and released ammonia into the engine room. Alarms were sounded and plant personnel responded appropriately. The Livingston County Team was activated and responded. Plant personnel were able to stop the leak by isolating the flange. Approximately 70 pounds escaped. Livingston County personnel assisted Kraft personnel in monitoring for gas pockets within the building and assuring that the shelter in place personnel were in safe areas.
April 19, 2012	Fluid spill	N/A	N/A	A tractor trailer with an empty cargo box was traveling west on Rt. 436. As the driver approached the underpass just West of the Park Parade Grounds, a gust of wind hit the truck and the driver lost control, rolling the trailer under the bridge. The driver suffered minor injuries and Nunda Fire Personnel mitigated the leak. The County Haz Mat Team provided guidance.
June 4, 2012	Fluid spill	N/A	N/A	A traffic accident involving a car and two tractor trailers resulted in the release of a small amount of motor oil and diesel fuel from one of the trucks. Minimal cleanup was required.



Dates of Event	Event Type	FEMA Declaration Number	County Designated?	Losses / Impacts
July 5, 2012	Decontamination support	N/A	N/A	A fire broke out on the roof of the Livonia Elementary School. A roofing contractor crew was on the roof when an electric generator caught fire and spread to the supplies being used on the roof. Firefighters inside the building were soaked in water coming from the roof and had the potential of being contaminated with one or more of the hazardous materials used in the roofing process. The Haz Mat Team responded and set up a full decontamination line to scrub firefighters as they left the building. No injuries occurred and a cleanup contractor retained by the contractor disposed of the water from the decontamination operation.
February 8, 2013	Gas odor	N/A	N/A	Responded to Dansville to assist the Dansville Fire Department with multiple calls for the smell of natural gas in several areas of the village. It was determined that there was a problem with intermittent releases from a NYSEG control station.
June 14, 2013	Explosion	N/A	N/A	The team was requested to the scene of an explosion the night before at a multiple residence dwelling in Springwater. The Springwater FD was requested to the scene for an explosion and injury. The cause of the explosion was an individual drying bomb making chemicals in his oven. When several pipe bombs were discovered, the County Sheriff's Office and New York State Police became involved. U.S. Drug Enforcement Agency (DEA) and Bureau of Alcohol, Tobacco, and Firearms (BATF) personnel were called and the pipe bombs and explosives were removed. The Haz Mat Team was requested to remove the precursor chemicals to a safe location for disposal by a licensed contractor.
September 5, 2013	Fuel spill	N/A	N/A	The team was dispatched to a leaking fuel tank at 30 Pine St. in the Village of Dansville. Sorbent materials were placed on the floor and the remaining contents of the tank were transferred to secure tanks. The NYSDEC was called in for final mitigation.
October 4, 2013	Fuel spill	N/A	N/A	The Haz Mat Team was dispatched for a leaking fuel tank in a basement on the Mt. Morris-Nunda Rd., Mt. Morris. The basement and house were ventilated, sorbent pads laid down and the remaining oil in the tank was removed. NYSDEC oversaw final mitigation.



E.5.2 Risk Assessment Tables

Jurisdiction	Number of Critical Facilities Located Within Half Mile of Hazardous Materials Roadway Routes																																				
	Adult Care	Airport	Bridge	Bus Facility	Cell Tower	Child Care Facility	Communication Facility	Correctional Facility	County Building	Dam	Dialysis Center	Electric Substation	EMS	EOC	Fire Station	Highway Department	Hospital	Library	Major Chemical Storage	Major Employer	Pharmacy	Police Station	Polling Site	Post Office	Post-Secondary Education	Potable Water Facility	Potable Water Tank	Potable Water Tower	Primary Education	Secondary Education	Shelter	Sheriff Radio Tower	Tier II HazMat	Town Hall	Village Hall	Wastewater Pump Station	Wastewater Sewage Treatment Facility
Avon (T)	0	0	13	2	2	1	0	0	0	2	0	0	1	0	1	1	0	0	0	3	0	1	2	0	0	0	1	1	0	0	0	1	2	0	0	2	0
Avon (V)	1	0	1	1	1	4	0	0	0	0	0	1	0	0	1	1	0	1	0	0	1	1	3	1	0	0	0	0	2	1	2	0	2	1	1	0	1
Caledonia (T)	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	
Caledonia (V)	0	0	0	1	3	1	0	0	0	1	0	0	0	0	1	1	0	1	0	1	1	2	7	1	0	0	1	0	1	0	2	0	1	1	1	0	0
Conesus (T)	0	0	0	0	0	0	0	0	0	3	0	0	0	0	1	1	0	0	0	0	0	1	2	1	0	0	0	0	0	0	0	0	0	1	0	3	0
Dansville (V)	0	0	4	0	0	7	0	0	0	0	0	0	1	0	1	2	2	1	0	1	3	1	9	1	1	0	0	0	2	1	1	0	3	1	1	0	1
Geneseo (T)	1	0	7	0	5	1	0	0	0	4	0	3	0	0	0	2	0	0	0	2	1	0	4	0	0	0	1	1	1	0	1	0	0	0	0	0	
Geneseo (V)	0	0	0	1	2	2	1	0	1	0	1	0	1	0	1	1	1	2	0	2	2	2	4	1	1	0	0	0	0	0	1	0	2	1	1	0	1
Groveland (T)	0	1	17	0	2	1	0	3	2	1	0	1	2	2	1	0	0	0	1	3	0	2	0	2	0	0	1	0	0	0	0	0	0	0	0	0	1
Leicester (T)	0	0	9	0	0	0	0	0	0	0	0	2	1	0	1	0	0	0	0	0	0	1	0	0	1	1	1	0	0	0	0	1	0	0	0	0	
Leicester (V)	0	0	3	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	1	0	0	0	0	0	1	1	0	1	1	1	0	0	
Lima (T)	0	0	2	0	1	1	0	0	0	1	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	
Lima (V)	0	0	1	0	1	1	0	0	0	0	0	1	0	0	1	2	0	1	0	0	1	1	3	1	1	0	0	1	1	0	1	0	0	1	1	0	1
Livonia (T)	1	0	6	1	1	2	1	0	0	4	0	0	1	0	3	0	0	0	0	1	1	2	3	3	0	1	1	2	0	1	2	0	1	0	0	7	1
Livonia (V)	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	2	0	1	0	0	0	0	3	1	0	0	0	0	2	0	0	0	1	1	1	0	0
Mount Morris (T)	1	0	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mount Morris (V)	0	0	2	0	0	2	0	0	0	1	0	0	1	0	1	1	0	1	0	1	1	1	4	1	0	0	0	0	1	1	2	0	4	1	1	0	1
North Dansville (T)	0	1	14	1	0	1	1	0	0	0	0	1	0	0	0	1	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0
Nunda (T)	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nunda (V)	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Ossian (T)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Portage (T)	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sparta (T)	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Springwater (T)	0	0	3	0	1	1	0	0	0	2	0	1	0	0	1	1	0	0	0	0	0	0	1	2	0	0	1	0	0	0	0	0	0	1	0	0	1
West Sparta (T)	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



Jurisdiction	Number of Critical Facilities Located Within Half Mile of Hazardous Materials Roadway Routes																																				
	Adult Care	Airport	Bridge	Bus Facility	Cell Tower	Child Care Facility	Communication Facility	Correctional Facility	County Building	Dam	Dialysis Center	Electric Substation	EMS	EOC	Fire Station	Highway Department	Hospital	Library	Major Chemical Storage	Major Employer	Pharmacy	Police Station	Polling Site	Post Office	Post-Secondary Education	Potable Water Facility	Potable Water Tank	Potable Water Tower	Primary Education	Secondary Education	Shelter	Sheriff Radio Tower	Tier II HazMat	Town Hall	Village Hall	Wastewater Pump Station	Wastewater Sewage Treatment Facility
York (T)	0	0	7	1	1	1	0	0	0	0	0	1	1	0	2	1	0	0	2	1	0	1	2	4	0	0	3	0	1	0	1	0	4	1	0	0	0
Livingston County (Total)	4	2	113	9	22	28	3	3	15	20	1	13	10	2	17	18	3	8	6	20	11	16	49	20	4	2	10	8	12	5	14	1	28	11	8	13	9

Jurisdiction	Number of Critical Facilities Located Within Half Mile of Hazardous Materials Railway Routes																																			
	Airport	Bridge	Bus Facility	Cell Tower	Child Care Facility	Communication Facility	County Building	Dam	Electric Substation	EMS	Fire Station	Highway Department	Library	Major Chemical Storage	Major Employer	Pharmacy	Police Station	Polling Site	Post Office	Potable Water Facility	Potable Water Tank	Primary Education	Secondary Education	Shelter	Tier II HazMat	Town Hall	Village Hall	Wastewater Pump Station	Wastewater Sewage Treatment Facility							
Avon (T)	0	11	1	1	0	0	0	3	0	0	1	1	0	1	2	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0
Avon (V)	0	1	0	0	3	0	0	0	0	0	1	0	1	1	4	0	1	3	1	0	0	2	0	1	5	1	1	1	0	0	0	0	0	0	0	1
Caledonia (T)	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Caledonia (V)	0	0	1	3	1	0	0	1	0	0	1	1	1	0	1	1	2	7	1	0	1	1	0	2	1	1	1	0	0	0	0	0	0	0	0	0
Conesus (T)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dansville (V)	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Geneseo (T)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Geneseo (V)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Groveland (T)	0	12	0	0	0	0	0	0	1	1	1	0	0	1	1	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Leicester (T)	0	5	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	
Leicester (V)	0	3	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	
Lima (T)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lima (V)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



Jurisdiction	Number of Critical Facilities Located Within Half Mile of Hazardous Materials Railway Routes																												
	Airport	Bridge	Bus Facility	Cell Tower	Child Care Facility	Communication	County Building	Dam	Electric Substation	EMS	Fire Station	Highway Department	Library	Major Chemical	Major Employer	Pharmacy	Police Station	Polling Site	Post Office	Potable Water Facility	Potable Water Tank	Primary Education	Secondary Education	Shelter	Tier II HazMat	Town Hall	Village Hall	Wastewater Pump Station	Wastewater Sewage Treatment Facility
Livonia (T)	0	1	1	0	1	1	0	2	0	0	1	0	0	1	2	1	1	2	1	1	0	0	0	1	1	0	0	1	1
Livonia (V)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mount Morris (T)	0	1	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mount Morris (V)	0	1	0	0	2	0	0	1	0	1	1	0	1	0	1	1	1	0	1	0	0	0	1	1	3	1	1	0	1
North Dansville (T)	1	2	1	0	0	0	0	0	0	0	0	1	0	3	3	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Nunda (T)	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	0	0	1	0	0	0	0	0	0	0
Nunda (V)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ossian (T)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Portage (T)	0	3	0	0	0	0	0	1	0	0	0	1	0	0	0	0	1	1	1	0	0	0	0	0	0	1	0	0	0
Sparta (T)	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Springwater (T)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Sparta (T)	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
York (T)	0	6	1	2	0	0	0	0	2	0	1	1	0	1	0	0	0	0	1	0	0	1	0	1	3	0	0	0	1
<b>Livingston County (Total)</b>	<b>1</b>	<b>52</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>1</b>	<b>6</b>	<b>9</b>	<b>5</b>	<b>2</b>	<b>8</b>	<b>6</b>	<b>3</b>	<b>9</b>	<b>15</b>	<b>3</b>	<b>8</b>	<b>15</b>	<b>9</b>	<b>2</b>	<b>3</b>	<b>5</b>	<b>2</b>	<b>7</b>	<b>16</b>	<b>5</b>	<b>4</b>	<b>3</b>	<b>5</b>



Jurisdiction	Number of Critical Facilities Located Within Half Mile of Hazardous Materials Pipelines																																	
	Adult Care	Bridge	Cell Tower	Child Care Facility	Communication Facility	Correcfional Facility	County Building	Dam	Electric Substation	EMS	Fire Station	Highway Department	Library	Major Chemical Storage	Major Employer	Military Instalation	Pharmacy	Police Station	Polling Site	Post Office	Post-Secondary Education	Potable Water Facility	Potable Water Tank	Potable Water Tower	Primary Education	Secondary Education	Shelter	Sheriff Radio Tower	Tier II HazMat	Town Hall	Village Hall	Wastewater Pump Station	Wastewater Sewage Treatment Facility	
Avon (T)	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	
Avon (V)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Caledonia (T)	0	0	2	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0
Caledonia (V)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Conesus (T)	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	5	0
Dansville (V)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Geneseo (T)	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	3	0	0	0	1	0	0	0	0	0	0	0	0	2	0	0
Geneseo (V)	0	0	2	1	1	2	2	0	0	0	0	1	0	2	1	0	3	4	0	1	0	0	0	0	0	0	2	1	1	1	0	0	0	0
Groveland (T)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Leicester (T)	0	2	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
Leicester (V)	0	3	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	1	0	0	0	0	0	0	1	1	0	1	1	1	1	0	0
Lima (T)	1	0	0	0	0	0	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lima (V)	0	1	1	0	0	0	0	0	1	0	1	2	1	0	0	0	1	1	3	1	1	0	0	1	1	0	1	0	0	1	1	0	0	0
Livonia (T)	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	1	0	1	0	0	0	0	0	0	1	0	0	0	0	1
Livonia (V)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mount Morris (T)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mount Morris (V)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
North Dansville (T)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nunda (T)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nunda (V)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ossian (T)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



Jurisdiction	Number of Critical Facilities Located Within Half Mile of Hazardous Materials Pipelines																																		
	Adult Care	Bridge	Cell Tower	Child Care Facility	Communication Facility	Correctional Facility	County Building	Dam	Electric Substation	EMS	Fire Station	Highway Department	Library	Major Chemical Storage	Major Employer	Military Installation	Pharmacy	Police Station	Polling Site	Post Office	Post-Secondary Education	Potable Water Facility	Potable Water Tank	Potable Water Tower	Primary Education	Secondary Education	Shelter	Sheriff Radio Tower	Tier II HazMat	Town Hall	Village Hall	Wastewater Pump Station	Wastewater Sewage Treatment Facility		
Portage (T)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sparta (T)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Springwater (T)	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
West Sparta (T)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
York (T)	0	5	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Livingston County (Total)</b>	<b>1</b>	<b>12</b>	<b>9</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>5</b>	<b>3</b>	<b>3</b>	<b>5</b>	<b>2</b>	<b>1</b>	<b>6</b>	<b>1</b>	<b>1</b>	<b>5</b>	<b>12</b>	<b>4</b>	<b>2</b>	<b>1</b>	<b>3</b>	<b>3</b>	<b>1</b>	<b>1</b>	<b>4</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>8</b>	<b>1</b>	

Jurisdiction	Number of Critical Facilities Located Within Selected Buffer of Hazardous Materials Tier II Facilities																																				
	Adult Care	Airport	Bridge	Bus Facility	Cell Tower	Child Care Facility	Communication Facility	Correctional Facility	County Building	Dam	Dialysis Center	Electric Substation	EMS	Fire Station	Highway Department	Hospital	Library	Major Chemical Storage	Major Employer	Military Installation	Pharmacy	Police Station	Polling Site	Post Office	Post-Secondary	Potable Water Facility	Potable Water Tank	Potable Water Tower	Primary Education	Secondary Education	Shelter	Sheriff Radio Tower	Tier II HazMat	Town Hall	Village Hall	Wastewater Pump Station	Wastewater Sewage
Avon (T)	0	1	6	2	4	1	1	0	0	6	0	0	1	2	1	0	0	1	4	0	0	1	2	0	0	0	2	1	0	0	0	0	1	2	0	0	0
Avon (V)	1	0	1	1	1	4	0	0	0	0	0	1	0	1	1	0	1	1	4	0	1	1	3	1	0	0	0	0	2	1	2	0	5	1	1	0	1



Jurisdiction	Number of Critical Facilities Located Within Selected Buffer of Hazardous Materials Tier II Facilities																																					
	Adult Care	Airport	Bridge	Bus Facility	Cell Tower	Child Care Facility	Communication Facility	Correctional Facility	County Building	Dam	Dialysis Center	Electric Substation	EMS	Fire Station	Highway Department	Hospital	Library	Major Chemical Storage	Major Employer	Military Installation	Pharmacy	Police Station	Polling Site	Post Office	Post-Secondary	Potable Water Facility	Potable Water Tank	Potable Water Tower	Primary Education	Secondary Education	Shelter	Sheriff Radio Tower	Tier II HazMat	Town Hall	Village Hall	Wastewater Pump Station	Wastewater Sewage	
Caledonia (T)	0	0	1	0	8	0	0	0	0	0	0	1	0	1	0	0	1	3	0	0	0	0	0	0	0	0	1	0	0	0	1	2	0	0	0	0	0	
Caledonia (V)	0	0	0	1	3	1	0	0	0	1	0	0	0	1	1	0	1	0	1	0	1	2	7	1	0	0	1	0	1	0	2	0	1	1	1	1	0	0
Conesus (T)	0	0	2	0	1	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Dansville (V)	0	0	4	0	0	7	0	0	0	0	0	1	1	2	2	1	0	1	0	3	1	9	1	1	0	2	0	2	1	1	0	3	1	1	1	0	1	
Geneseo (T)	1	1	8	0	6	1	0	0	0	5	0	4	0	0	2	0	0	2	0	1	1	4	0	0	0	2	1	1	0	1	0	0	0	0	0	0	6	0
Geneseo (V)	0	0	0	1	3	2	1	2	3	0	1	0	1	1	1	1	2	0	3	1	2	4	4	1	1	0	0	0	1	0	3	1	3	1	1	0	1	
Groveland (T)	0	1	1/2	0	2	0	0	3	0	1	0	1	0	2	1	0	0	0	1	0	0	1	2	2	0	2	3	0	0	0	0	1	0	1	0	1	1	
Leicester (T)	0	0	1/0	0	0	0	0	0	0	2	0	1	1	1	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	0	0	0	1	0	0	0	0	
Leicester (V)	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	
Lima (T)	1	0	3	0	4	1	0	0	0	3	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	
Lima (V)	0	0	1	0	1	1	0	0	0	0	0	1	0	1	2	0	1	0	0	1	1	3	1	1	0	0	1	1	0	1	0	1	0	0	1	1	0	1
Livonia (T)	1	1	8	1	2	3	1	0	0	7	0	0	1	3	0	0	0	1	2	0	1	2	3	4	0	2	3	3	0	1	2	1	2	0	0	14	1	
Livonia (V)	0	0	0	0	0	3	0	0	0	0	0	1	0	0	2	0	1	0	0	0	0	0	3	1	0	0	0	0	2	0	0	0	1	1	1	0	0	
Mount Morris (T)	1	1	4	1	1	0	0	0	1/2	2	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	
Mount Morris (V)	0	0	2	0	0	2	0	0	0	1	0	0	1	1	1	0	1	0	1	0	1	1	4	1	0	0	0	0	1	1	2	0	4	1	1	0	1	
North Dansville (T)	0	1	1/5	1	3	1	1	0	0	0	0	1	0	0	1	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	1	4	0	0	0	0	
Nunda (T)	0	0	1	0	3	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	
Nunda (V)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Ossian (T)	0	0	8	0	1	0	0	0	0	8	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	
Portage (T)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sparta (T)	0	0	5	0	5	0	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	1	0	1	0	
Springwater (T)	0	0	5	0	4	1	0	0	0	5	0	1	0	1	1	0	0	0	0	0	0	1	2	0	0	1	0	0	0	0	0	1	1	0	0	0	1	
West Sparta (T)	0	0	1/6	0	3	0	0	0	0	2	0	0	0	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	



Jurisdiction	Number of Critical Facilities Located Within Selected Buffer of Hazardous Materials Tier II Facilities																																				
	Adult Care	Airport	Bridge	Bus Facility	Cell Tower	Child Care Facility	Communication Facility	Correctional Facility	County Building	Dam	Dialysis Center	Electric Substation	EMS	Fire Station	Highway Department	Hospital	Library	Major Chemical Storage	Major Employer	Military Installation	Pharmacy	Police Station	Polling Site	Post Office	Post-Secondary	Potable Water Facility	Potable Water Tank	Potable Water Tower	Primary Education	Secondary Education	Shelter	Sheriff Radio Tower	Tier II HazMat	Town Hall	Village Hall	Wastewater Pump Station	Wastewater Sewage
York (T)	0	0	16	1	3	2	0	0	0	3	0	2	1	2	1	0	0	3	2	0	0	1	2	4	0	0	3	0	1	0	1	0	8	1	0	0	1
Livingston County (Total)	5	6	139	9	58	30	4	5	15	53	1	13	9	20	22	3	8	10	29	1	11	17	51	20	4	5	18	9	13	4	15	7	39	14	7	26	9



## E.6 Invasive Species

### E.6.1 Hazard Events in the 2015 HMP

Dates of Event	Event Type	FEMA Declaration Number	County Designated?	Losses / Impacts
2008 to 2014	WNV	N/A	N/A	Between 2008 and 2014, Livingston County had a very low occurrence of WNV among birds, horses, humans, and pets.
2012	Armyworm	N/A	N/A	Livingston County was included in a USDA disaster declaration (S3411) for the armyworm outbreak. The county lost 65% of its crops.

### E.6.2 Risk Assessment Tables

N/A

## E.7 Landslide

### E.7.1 Hazard Events in the 2015 HMP

N/A

### E.7.2 Risk Assessment Tables

Jurisdiction	Number of Critical Facilities Located in the Steep Slope (Greater Than 15% Grade) Landslide Hazard Area										
	Airport	Bridge	Bus Facility	Cell Tower	Dam	Electric Substation	Fire Station	Major Chemical Storage	Polling Site	Post Office	Tier II HazMat
Avon (T)	0	0	0	0	0	0	0	0	0	0	0
Avon (V)	0	0	0	0	0	0	0	0	0	0	0
Caledonia (T)	0	0	0	0	0	0	0	0	0	0	0
Caledonia (V)	0	0	0	0	0	0	0	0	0	0	0
Conesus (T)	0	0	0	0	0	0	0	0	0	0	0
Dansville (V)	0	0	0	0	0	0	0	0	0	0	0
Geneseo (T)	1	0	0	0	0	1	0	0	3	0	0
Geneseo (V)	0	0	0	0	0	0	0	0	0	0	0
Groveland (T)	0	0	0	0	0	0	0	0	0	0	0
Leicester (T)	0	1	0	0	0	0	0	0	0	0	0
Leicester (V)	0	0	0	0	0	0	0	0	0	0	0
Lima (T)	0	0	0	0	0	0	0	0	0	0	0
Lima (V)	0	0	0	0	0	0	0	0	0	0	0
Livonia (T)	0	0	0	0	0	0	0	0	0	0	0



Jurisdiction	Number of Critical Facilities Located in the Steep Slope (Greater Than 15% Grade) Landslide Hazard Area										
	Airport	Bridge	Bus Facility	Cell Tower	Dam	Electric Substation	Fire Station	Major Chemical Storage	Polling Site	Post Office	Tier II HazMat
Livonia (V)	0	0	0	0	0	0	0	0	0	0	0
Mount Morris (T)	0	0	0	0	0	0	0	0	0	0	0
Mount Morris (V)	0	0	0	0	0	0	0	0	0	0	0
North Dansville (T)	0	0	0	0	0	0	0	0	0	0	0
Nunda (T)	0	0	0	0	0	0	0	0	0	0	0
Nunda (V)	0	0	0	0	0	0	0	0	0	0	0
Ossian (T)	0	0	0	0	0	0	0	0	0	0	0
Portage (T)	0	0	0	0	0	0	0	0	0	0	0
Sparta (T)	0	0	0	0	0	0	0	0	0	0	0
Springwater (T)	0	0	0	0	0	0	0	0	0	0	0
West Sparta (T)	0	0	0	0	0	0	0	0	0	0	0
York (T)	0	2	1	1	1	1	1	1	0	1	2
<b>Livingston County (Total)</b>	<b>1</b>	<b>3</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>3</b>	<b>1</b>	<b>2</b>

## E.8 Mine Subsidence

### E.8.1 Hazard Events in the 2015 HMP

N/A

### E.8.2 Risk Assessment Tables

Jurisdiction	Number of Critical Facilities Located in the Salt Mine Subsidence Hazard Area											
	Bridge	Cell Tower	Correctional Facility	County Building	Dam	Electric Substation	Police Station	Potable Water Tank	Potable Water Tower	Sheriff Radio Tower	Wastewater Pump Station	Wastewater Sewage Treatment Facility
Avon (T)	1	1	0	0	0	0	0	0	0	0	0	0
Avon (V)	0	0	0	0	0	0	0	0	0	0	0	0
Caledonia (T)	0	4	0	0	0	0	0	0	0	0	0	0
Caledonia (V)	0	0	0	0	0	0	0	0	0	0	0	0



Jurisdiction	Number of Critical Facilities Located in the Salt Mine Subsidence Hazard Area											
	Bridge	Cell Tower	Correctional Facility	County Building	Dam	Electric Substation	Police Station	Potable Water Tank	Potable Water Tower	Sheriff Radio Tower	Wastewater Pump Station	Wastewater Sewage Treatment Facility
Conesus (T)	0	0	0	0	2	0	0	0	0	0	0	0
Dansville (V)	0	0	0	0	0	0	0	1	0	0	0	0
Geneseo (T)	0	1	0	0	0	0	0	0	0	0	1	0
Geneseo (V)	0	0	1	0	0	0	1	0	0	0	0	0
Groveland (T)	1	0	0	0	0	0	0	0	0	0	0	0
Leicester (T)	2	0	0	0	1	0	0	0	0	0	0	0
Leicester (V)	0	0	0	0	0	0	0	0	0	0	0	0
Lima (T)	0	0	0	0	0	0	0	0	0	0	0	0
Lima (V)	0	1	0	0	0	0	0	0	1	0	0	0
Livonia (T)	1	0	0	0	1	0	0	0	1	0	1	0
Livonia (V)	0	0	0	0	0	1	0	0	0	0	0	0
Mount Morris (T)	0	0	0	2	0	0	0	0	0	0	0	0
Mount Morris (V)	0	0	0	0	0	0	0	0	0	0	0	0
North Dansville (T)	0	2	0	0	0	0	0	0	0	1	0	0
Nunda (T)	0	0	0	0	0	0	0	1	0	0	0	0
Nunda (V)	0	0	0	0	0	0	0	0	0	0	0	0
Ossian (T)	1	0	0	0	1	0	0	0	0	0	0	0
Portage (T)	2	0	0	0	1	0	0	0	0	0	0	0
Sparta (T)	0	0	0	0	0	0	0	0	0	0	0	0
Springwater (T)	0	0	0	0	1	0	0	1	0	0	0	0
West Sparta (T)	1	0	0	0	1	0	0	0	0	0	0	0
York (T)	4	0	0	0	0	0	0	0	0	0	0	1
<b>Livingston County (Total)</b>	<b>13</b>	<b>9</b>	<b>1</b>	<b>2</b>	<b>8</b>	<b>1</b>	<b>1</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>1</b>

## E.9 Pandemic

### E.9.1 Hazard Events in the 2015 HMP

N/A





**E.9.2 Risk Assessment Tables**

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N/A



## E.10 Severe Storm

### E.10.1 Hazard Events in the 2015 HMP

Dates of Event	Event Type	FEMA Declaration Number	County Designated?	Losses / Impacts
January 9, 2008	Thunderstorm Wind	N/A	N/A	A powerful cold front crossed the region during early morning hours. The thunderstorms that accompanied the front produced damaging wind gusts measured to 75 mph. Trees and power lines were downed by the winds throughout the region. Several homes and automobiles sustained damage by falling trees and limbs.
January 30, 2008	High Wind	N/A	N/A	A powerful cold front crosses western New York and was followed by very strong west to southwest winds. Sustained winds increased to 30 to 45 mph with gusts measured to 80 mph at the peak of the storm. Trees and power lines were downed by the strong winds. Utility companies reported close to 100,000 customers without power in locations scattered throughout region. Several homes and automobiles were damaged by falling trees and limbs. The New York State Thruway was closed from Henrietta to Depew because of blowing snow and whiteout conditions. Two tractor trailers were blown over on the Thruway. In Irondequoit, the steeple of a church was blown down.
April 12, 2008	Thunderstorm Wind	N/A	N/A	A line of severe thunderstorms moved through the area in the early hours of the morning. In addition to hail (up to ¾ inch in diameter), downburst winds brought down trees and power lines. In the central Livingston County Town of West Sparta, a concentrated area of more significant straight line wind damage occurred. The damage area was about 2 miles long and several hundred yards wide. Five buildings sustained shingle and siding damage in the area along Redmond and McKay Roads, and two sheds were blown over. Numerous trees were uprooted and snapped off, including two distinct areas of enhanced damage in forested areas just north of McKay Road. Winds were estimated at 70 to 80 mph in this area.
June 10, 2008	Thunderstorm Wind	N/A	N/A	A pre-frontal trough well ahead of a cold front moved into a sultry air mass with ample instability and wind shear. A weak super-cell formed near Erie, Pennsylvania, and grew as it encountered an outflow from earlier convection. The storm continued to intensify as it moved across the western southern tier of New York and reach severe limits as it cross the eastern Finger Lakes and eastern Lake Ontario Regions of New York. The thunderstorms produced hail (up to ¾ inch in diameter) and wind gusts were estimated to near 70 mph. The storms cut power to nearly 75,000 customers for several hours through the evening. Falling trees damaged homes and automobiles in Avon and York, (Livingston County) and Phoenix, Oswego and Sandy Pond in Oswego County.
June 13, 2008	Thunderstorm Wind	N/A	N/A	A very warm and humid southerly flow between low pressure over the upper Great Lakes and high pressure off the mid-Atlantic coast during the day provided ideal conditions for late afternoon thunderstorms across the parts of the area. Convection focused on outflow and lake breeze boundaries. The thunderstorm wind gusts were measured to 62 mph and downed trees and power lines. Hail (up to nickel-sized) was also reported.



Dates of Event	Event Type	FEMA Declaration Number	County Designated?	Losses / Impacts
June 29, 2008	Thunderstorm Wind	N/A	N/A	A line of severe thunderstorms developed over the extreme western part of the state and tracked eastward across the region. The thunderstorms brought another round of damaging hail and thunderstorm winds to western and central New York. Trees and power lines and poles were downed by the wind gusts estimated between 60 and 65 mph. Scattered power outages were reported by the utility companies with tens of thousands of customers affected throughout the region.
July 17, 2008	Hail	N/A	N/A	Thunderstorms that crossed parts of the Finger Lakes region during the morning hours produced three-quarter inch hail and damaging winds estimated nearing 60 mph. Several thousand were left without power.
July 24, 2008	Thunderstorm Wind	N/A	N/A	Thunderstorms which crossed the area produced hail up to one inch in diameter and strong winds estimated to 60mph. The thunderstorms produced as much as 5 inches of rain in a few hours over parts of the region. The Town of Springwater, was particularly hard hit washing away roads and culverts and exposing underground water pipes.
September 14, 2008	High Wind	N/A	N/A	The low center (a remnant of Hurricane Ike) reached the lower Great Lakes region during the late evening and brought high winds to the area as it lifted from Indiana across southern Ontario. Wind gusts were measured to 66 mph. The winds downed trees and power lines throughout the area. The wet soil conditions contributed to the number of downed trees. Debris blocked many streets and highways. There were numerous reports of homes, building and automobiles being damaged by fallen trees.
December 28, 2008	High Wind	N/A	N/A	A complex area of low pressure developed over the midsection of the nation and strengthened as it moved into the western Great Lakes region then into Quebec. Winds accompanying the system increased rapidly across the area ranging from 30 to 40 m.p.h. Close to 100,000 customers lost power during the storm and nearly 90,000 were without phone service. Downed trees damaged several structures and automobiles. The strong winds tore off roofs and shingles on many buildings.
February 12, 2009	High Wind	N/A	N/A	Deep low pressure moved across southern Ontario and Lake Ontario to the New England coast. The track and intensity of the low resulted in high winds for much of western New York. Wind gusts were measured to 69 mph with widespread estimated gusts between 55 and 60 mph. The strong winds downed trees and power lines. Electric utilities reported nearly 100,000 customers without power at the peak of the storm.
June 25, 2009	Thunderstorm Wind	N/A	N/A	Showers and thunderstorms accompanied the passage of a cold front across the region. The thunderstorm winds downed trees and power lines. Scattered power outages were reported across the area.
July 11, 2009	Hail	N/A	N/A	Thunderstorms preceded and accompanied a cold front moving across the region during the late morning and afternoon hours. The thunderstorm winds downed trees and power lines. In Livingston county, a thunderstorm produced nickel-size hail just north of Dansville.
July 21, 2009	Thunderstorm Wind	N/A	N/A	Thunderstorms preceded and accompanied a cold front moving across the region during the late morning and afternoon hours. The thunderstorm winds downed power lines in the town of Caledonia in Livingston county.



Dates of Event	Event Type	FEMA Declaration Number	County Designated?	Losses / Impacts
August 9, 2009	Thunderstorm Wind	N/A	N/A	A massive convective complex moved from lower Michigan across southern Ontario near Toronto then dove southeast across the Niagara Frontier and western Southern Tier. This followed an earlier round of strong thunderstorms and heavy rains earlier in the day. Damage from the thunderstorm winds was widespread across the Niagara Frontier and western Southern Tier. Trees, as large as 2 to 3 feet in diameter, were downed. Power outages were scattered throughout the region as the winds downed power lines. The unprecedented heavy rains added 4 to 6 inches of water in less than 2 hours, resulting in some of the worst flash flooding the area had seen. Tri-County hospital in Gowanda was inundated by flood waters. Patients were transferred to Lakeshore Hospital in Irving. Several hundred homes sustained damage and 40 homes were condemned. The gage on Cattaraugus Creek at Gowanda indicated the water rose from 6 feet to almost 13 feet in less than an hour (flood stage is 10 feet).
August 29, 2009	Thunderstorm Wind	N/A	N/A	Low pressure tracked across Ontario and Quebec dragging a cold front across the region. Thunderstorm winds downed trees and power lines in West Sparta.
May 8, 2010	High Wind	N/A	N/A	Deep low pressure passed over western New York with its trailing cold front rapidly sweeping east across the region. Winds increased within a few hours of the approaching front to gust speeds of 60 to 65 mph. Tens of thousands were left without power. There were reports of vehicles and/or buildings damaged by falling trees. The high winds were also blamed for several delayed flights at both Buffalo and Rochester airports. The Clayton Dock was damaged by the winds.
July 28, 2010	Thunderstorm Wind	N/A	N/A	Thunderstorms developed ahead of and along a cold front that crossed the area during the late afternoon and evening hours. The thunderstorms produced damaging wind gusts estimated to 65 mph. Trees, power lines and poles were downed by the winds. Utility companies reported tens of thousands without power across the region.
August 16, 2010	Thunderstorm Wind	DR-1899	Yes	A cold front crossed the region during the early overnight hours. The front was accompanied by strong thunderstorms that produced winds gusting to 60 mph. The strong winds downed trees and power lines.
April 16, 2011	High Wind	N/A	N/A	An area of low pressure moved across the eastern Great Lakes region. The system brought strong winds to the area. Wind gusts were measured to 67 mph. The strong winds downed trees and power lines. Utilities reported several thousand customers without power during the evening hours. Damage was reported in Portland, Barcelona, Bemus Point, Wellsville, Springwater, Carthage and Fort Drum.
April 27, 2011	Thunderstorm Wind	DR-1993	Yes	A line of thunderstorms developed along a pre-frontal trough and moved across the entire region from west to east from mid-morning through early afternoon. The thunderstorm winds downed trees and power lines as the fast-moving line swept across the area. Power poles were snapped in some cases and power outages were reported throughout the area. Utilities reported tens of thousands of customers without power. In Dansville, the thunderstorm winds blew off a portion of the roof of Dansville High School.
June 23, 2011	Thunderstorm Wind	N/A	N/A	A line of thunderstorms developed in a southwest flow of moist, unstable air. The thunderstorms bowed across Livingston county producing wind gusts to 60 mph. The winds downed several trees near Lakeville. One of the trees fell onto a house resulting in moderate structural damage.



Dates of Event	Event Type	FEMA Declaration Number	County Designated?	Losses / Impacts
September 11, 2011	Hail	DR-1869	Yes	An upper level disturbance crossing the lower Great Lakes fueled thunderstorms across the region.
November 14, 2011	Thunderstorm Wind	N/A	N/A	Severe thunderstorms spawned two tornadoes in Chautauqua County and moved across the western Southern Tier and southern Finger Lakes regions. The thunderstorm winds downed trees and power poles and lines. In Little Valley, a portion of a roof was blown off a house. Wind gusts were estimated between 70 and 80 mph.
January 17, 2012	Thunderstorm Wind	N/A	N/A	Low pressure moved across southern Ontario and pulled a strong cold front across the region during the evening hours. Thunderstorms accompanied the front and produced wind gusts up to 70 mph. The strong winds downed trees and power lines and poles. Power outages were scattered throughout the region with utilities reporting several thousand without power at its worse. In Caledonia, a metal shed was blown over.
May 3, 2012	Thunderstorm Wind	N/A	N/A	An area of showers and thunderstorms moved across the Finger Lakes during the late evening and early overnight hours. The thunderstorms produced damaging downburst winds that knocked down trees and power lines in Avon, Victor, East Bloomfield, Farmington, Bristol and just north of Geneseo. A lightning strike started a house on fire in Victor. The two-story home was a total loss. The four people in the home were able to escape safely.
May 29, 2012	Thunderstorm Wind	N/A	N/A	A strong cold front crossed the region bringing an end to oppressive heat and humidity; however, the front was accompanied by severe thunderstorms which produced hail (up to 1.75 inches in diameter) and damaging winds that downed trees and power lines. Utilities reported tens of thousands without power scattered throughout the region. Only minor structural damage was reported mainly broken windows and ripped off shingles. Several automobiles were damaged by falling trees and limbs.
August 5, 2012	Thunderstorm Wind	N/A	N/A	Showers and thunderstorms developed in a warm, moist atmosphere ahead of an approaching cold front. Wind gusts were measured to 60 mph. The thunderstorm winds downed trees and power lines throughout the region. In many areas, downed trees blocked roads and highways.
September 8, 2012	Thunderstorm Wind	N/A	N/A	A line of thunderstorms developed along a pre-frontal trough and moved across the entire region from west to east from mid-morning through early afternoon. The thunderstorm winds downed trees and power lines as the fast moving line swept across the area. Power poles were snapped in some cases and power outages were reported throughout the area. Utilities reported tens of thousands of customers without power.
October 29, 2012	High Wind	N/A	N/A	Remnants of Hurricane Sandy brought strong winds and heavy rains to western and north central New York. Rainfall amounts of 2 to 5 inches were reported with some area creeks reaching bankful. The high winds downed trees and power lines throughout the region. Wind gusts were measured to 60 mph. Tree damage was greater than usual with such wind speeds because of saturated ground and northeast winds, opposite of the normal prevailing southwest winds. Utilities reported tens of thousands of customers without power across the entire region.



Dates of Event	Event Type	FEMA Declaration Number	County Designated?	Losses / Impacts
January 20, 2013	High Wind	N/A	N/A	A deepening storm system moved across the upper Great Lakes, bringing strong, damaging winds to the entire region late Saturday night into Sunday (20th-21st). Trees, power poles, and wires were brought down by the winds. Numerous roads were blocked by fallen trees, wires, and debris. Structural damage was also reported. Some of the more significant damage included: an awning ripped off in Lancaster, roof trusses were downed on an building under construction in Batavia, part of a metal roof blown off in Portageville, a trailer damaged by a fallen tree in West Bloomfield, ladder assembly blown off a silo near Constableville, and a boat destroyed by a fallen tree in Livonia. Utilities reported tens of thousands without power for a time. Specific measured gusts included 51 mph at Livonia.
May 10, 2013	Hail	N/A	N/A	Thunderstorms developed ahead of and accompanied a cold front crossing the area. The thunderstorms produced hail (up to 1.25 inches in diameter) in several locations.
May 21, 2013	Hail	N/A	N/A	Thunderstorms developed along various boundaries within a warm and moist air mass over the region. Storms first developed across the Finger Lakes midday along the Lake Ontario lake breeze and then in the mid-afternoon along the Lake Erie lake breeze boundary as it pushed inland across the southern tier. The strongest storms produced 1- to 2- inch hail stones. In several locations, automobiles were damaged by the hail stones. Later in the afternoon, thunderstorms rolled across northern New York State with downed trees and power poles reported.
July 10, 2013	Thunderstorm Wind	N/A	N/A	Showers and thunderstorms developed in a warm, moist, unstable air mass as a cold front approached from the west. The thunderstorms produced damaging winds. Hail (up to 1-inch in diameter) fell near Sherman. The thunderstorm winds downed trees and power lines. In Springwater, a house was damaged when thunderstorm winds knocked a tree onto it.
September 2, 2013	Hail	N/A	N/A	After a week of late summer warmth and humidity, a cold front crossed the region. The front sparked showers and thunderstorms with its passage. Several thunderstorms produced large hail and damaging winds with the large hail mainly across the southern tier and the damaging wind gusts across the northern part of the country. Hail (up to 1.75 inch in diameter) was reported throughout the County. In several locations, downed trees made roads impassable.
November 1, 2013	High Wind	N/A	N/A	Deep low pressure lifted across the Great Lakes region. The system brought strong winds to much of the region. Winds gusted as high as 62 mph. The strong winds downed trees and power lines throughout the region. Power outages were in the tens of thousands. In addition to minor structural damage to homes and building, a number of houses and automobiles were damaged by falling trees and limbs.



Dates of Event	Event Type	FEMA Declaration Number	County Designated?	Losses / Impacts
May 13-22, 2014	Severe Storm and Flooding	DR-4180	Yes	<p>A storm cell passed through the County, with a duration of several days. Total rainfall from the storm consisted of 7 inches. The rainfall led to widespread flooding and caused severe damages to both municipal and County-owned roads and bridges.</p> <p>All Towns and Villages were impacted by the storm and it took several days for the jurisdictions to recover. The first estimates of storm damage included about \$350,000, and a presidential disaster declaration was given to the County (FEMA DR-4180). Neighboring counties who were impacted by the storm also received coverage under the disaster declaration. The total amount of storm damage was \$1.4 million.</p> <p>In Livingston County, the hardest hit area was the southern portion of the County. General types of damage from the storm included ditch, crossover pipes, and road shoulder washouts. All fire departments participated in pumping details of basements for personal residences. There was no loss of life during this storm.</p>
July 26-27, 2014	Severe Storm and Flooding	N/A	N/A	<p>A storm passed through the northwest corner of the County, affecting the Town of York, Town of Avon, Town of Caledonia, the Village of Caledonia, the Village of Avon, the Village of Lima, and a portion of the Town of Lima. The flooding damaged these jurisdictions' infrastructure, exposing underground waterlines, natural gas lines, sewer lines, shoulder and road damage, as well as causing stream bank erosion and flooding in residential property of basements. Stormwater systems, crossover pipes, and box culverts also flooded.</p> <p>The storm overflowed the sewer system in the Hamlet of Retsof in the Town of York. While daily flows are typically about 100,000 gallons, the outflow on the day of the storm and for several days after consisted of over a million gallons. The Village of Avon experienced overflowing of sewer and stormwater management systems. Fire departments of impacted towns and villages responded to the affected areas. County and jurisdictional fire departments from non-impacted areas also responded under mutual aid agreements.</p> <p>County road damage was minimal, and the County was able to assist towns and villages with equipment and personnel needs. An operations center was established at the Avon Fire Department to oversee the storm damage. Damage estimates were at \$450,000. Estimates were reported to DHSES-OEM. No Presidential Declaration was determined for this storm. No loss of life was associated with this storm.</p>
August 2-3, 2014	Severe Storm and Flooding	N/A	N/A	<p>One week after the July 26-27<sup>th</sup> storm, the County experienced a second severe storm, which impacted the same villages and towns damaged from the previous storm (the Town of York, Town of Avon, Town of Caledonia, the Village of Caledonia, the Village of Avon, the Village of Lima, and a portion of the Town of Lima). The same infrastructure from the previous storm was again damaged. There were additional damages to road shoulders and driveway pipes.</p> <p>The Fire Department mutual aid system was activated to assist with flooding. The operations center was re-established at the Avon Fire Department to manage the storm and damages. Damage estimates were at \$300,000. The State determined this storm as an isolated event from the last storm and the two events are categorized separately.</p>



**E.10.2 Risk Assessment Tables**

N/A

**E.11 Severe Winter Storm**

**E.11.1 Hazard Events in the 2015 HMP**

Dates of Event	Event Type	FEMA Declaration Number	County Designated?	Losses / Impacts
March 4, 2008	Winter Storm	N/A	No	Low pressure developed over the lower Mississippi valley and lifted to the Ohio valley. The storm brought a mix of snow, sleet, and freezing rain to the region. A general snow of 4 to 6 inches blanketed the entire region and was followed by several inches of sleet and up to a half inch of glaze from freezing rain. Schools were closed in many parts of the region. Some county officials declared States of Emergency, while others recommended no unnecessary travel. Utility companies reported scattered power outages affected tens of thousands of customers across the region.
March 7-9, 2008	Winter Storm	N/A	No	One of the worst storms of the 2007-2008 winter season occurred from the 7th through the 9th. This was an extended two-part event, but totals of 1 to 2 feet of snow were common, with some isolated higher amounts. The storm occurred over a weekend so impact to daily activities (school and businesses) was minimal. Numerous automobile accidents were blamed on the slippery conditions and poor visibilities in falling and blowing snow. The 21.6 inch total measured at the Buffalo Airport was the greatest general (non-lake effect) snowfall in Buffalo in 24 years. Other snowfall reports included: 30 inches at Ellicottville; 26 inches at Lockport and Perrysburg; 24 inches at Depew; 23 inches at Getzville; 22 inches at North Tonawanda and Hamlin; 21 inches at Hamburg, Amherst, and Niagara Falls; 18 inches at Brockport, Colden, Sinclairville, and Warsaw; 17 inches at Copenhagen, Forestville, and South Dayton; 16 inches at Darien and Scottsburg; 15 inches at Colden, Gaines, Pulaski, and Basom; 14 inches at Middleport, Lacona, and Webster; 13 inches at Greece, Hannibal, and Kennedy; and 12 inches at Cato, Bennetts Bridge, and Marion.
December 19, 2008	Winter Storm	N/A	No	Low pressure moved out of the central plains and moved across Pennsylvania. The low brought an 8 to 12 inch blanket of snow to the entire region on the 19th. Across the western southern tier, snowfall amounts were slightly lower; the snow mixed with freezing rain and sleet across that area. Some of the highest snowfall amounts included: 16 inches at Fairport; 15 inches at Youngstown; 14 inches at LaSalle; 13 inches at Medina; 12 inches at Getzville, Lockport, and North Tonawanda; 11 inches at Montezuma, Charlotte, Perinton, and Warsaw; 10 inches at Kenmore, Buffalo, Stafford, Pavilion, Lowville, Harrisville, Rochester, Niagara Falls, Wilson, Oswego, Walworth and Akron; 9 inches at West Seneca, Black River, Calcium, Hooker, Gorham, Phelps, and Palmyra. Innumerable automobile accidents were reported throughout the region as the roads became hard to navigate in the heavy snow and reduced visibilities. Schools shut down across the region and many municipalities suggested avoiding unnecessary travel if possible.



Dates of Event	Event Type	FEMA Declaration Number	County Designated?	Losses / Impacts
December 31, 2008	Winter Storm	N/A	No	A deepening area of low pressure moved across the Ohio valley and Pennsylvania before moving off the southern New England Coast during the afternoon of the 31st. Steady snow developed over the region and was accompanied by increasing northerly winds. Widespread snowfall amounts ranged from 8 to 14 inches during the 8-hour event. The strong winds produced areas of blowing and drifting snow and resulted in significantly reduced visibilities. Some of the highest snowfall reports included: 14 inches at Walworth; 12 inches at Fairport; 11 inches at Lockport; 10 inches at Alden, Colden, Kenmore, Livonia, Penfield, and Warsaw; 9 inches at Sinclairville, Buffalo, Amherst, Clarence, Elma, Pavilion, Greece, and Niagara Falls; and 8 inches at South Dayton, Montezuma, Avon, Mount Morris, and Newark.
February 25, 2010	Winter Storm	N/A	No	A deep storm system off Long Island strengthened and stalled off the New York/New Jersey coast. The system circulated Atlantic moisture back across western and north central New York. A general 6 to 10 inches of snow fell across the region with higher amounts to the east (closer to the low center) and downwind of the Great Lakes (where lake enhancement occurred). Many schools throughout the region were closed because of the snow. Numerous automobile accidents were blamed on the treacherous driving conditions.
February 25, 2011	Winter Storm	N/A	No	An intensifying area of low pressure moved across Pennsylvania then headed northeast across New England. The system brought a significant snowfall of 6 to 12 inches of snow to the entire area. A brisk northerly flow also resulted in a significant amount of blowing and drifting snow. Winds gusted to 40 mph along the Lake Erie Shore. A 30-mile stretch of the New York State Thruway between Hamburg and Dunkirk was closed because of multiple accidents. There were several reports of building collapses throughout the region from the weight of the snow that had built up throughout the snowy winter.
April 22, 2012	Winter Storm	N/A	No	A significant east coast storm spread rain then snow across the region. The heavy, wet snow was significant enough to down trees and power lines resulting in scattered power outages across the region. Snowfall amounts and damage were highly elevation dependent, thus the western southern tier and Finger Lakes region were most impacted. Specific reports included: 15 inches at Sinclairville; 13 inches at Cattaraugus, Colden, and Frewsburg; 12 inches at Warsaw; 10 inches at Alfred and Boston; 9 inches at West Valley and Dansville; 8 inches at Wales; 7 inches at Glenwood; and 6 inches at Whitesville and Livonia.
December 26, 2012	Winter Storm	N/A	No	Low pressure over the deep south lifted across the Tennessee Valley to the Delmarva coast. The low pressure spread a general foot to a foot and a half of snow across the entire region. Winds increased to 20 to 30 mph, gusting at times to near 40 mph. The winds produced blowing snow and reduced visibilities. Numerous automobile accidents occurred because of the wintry conditions. Some holiday travel was disrupted at Buffalo and Rochester airports. Specific snowfall reports received included: 20 inches at Sodus; 18 inches at Copenhagen; 17 inches at Watertown and Fulton; 16 inches at Gainesville; 15 inches at Wales and Walworth; 14 inches at Greece, Bennetts Bridge, and Newark; 13 inches at Allegany, Perrysburg, Hamburg, Beaver Falls, Dansville, Bristol, and Minetto; 12 inches at Portville, Franklinville, Buffalo Airport, Orchard Park, Lowville, Chili, Penfield, Honeoye, Phelps, Medina, Holley, Palermo, Phoenix, Palmyra, and Bennington; 11 inches at Wellsville, Whitesville, Alden, Elma, West Seneca, Williamsville, Croghan, Rochester Airport, Lockport, and Perry; 10 inches at Almond, Alfred, Rushford, Salamanca, Olean, Cato, East Aurora, Boston, Stafford, Pavilion, Portageville, Avon, Pendleton, Albion, Mexico, and Warsaw; 9 inches at Forestville and Ripley.



Dates of Event	Event Type	FEMA Declaration Number	County Designated?	Losses / Impacts
November 26, 2013	Winter Storm	N/A	No	<p>A strengthening area of low pressure moved north along the U.S. East Coast. The storm brought accumulating snow across western New York. Across parts of the North Country, the snow mixed with sleet and freezing rain. Although not exceptionally high snowfall totals, strong winds accompanying the system resulted in a considerable amount of blowing snow resulting in frequent white out conditions. Several counties issued travel advisories because of hazardous road conditions. The fact that the storm occurred just a day or two prior to Thanksgiving only added to the impact of the storm. Specific snowfall reports included: 9 inches at Perrysburg, Glenwood, and Warsaw; 8 inches at Randolph, Little Valley, and Frewsburg; 7 inches at Rushford, Franklinville, Jamestown, Colden, Stafford, Pavilion, Greece, and Macedon; 6 inches at Clayton, Geneseo, and Youngstown; and 5 inches at Phelps and Medina.</p>

### E.11.2 Risk Assessment Tables

N/A



## E.12 Terrorism

### E.12.1 Hazard Events in the 2015 HMP

Dates of Event	Event Type	Location	FEMA Declaration Number	County Designated?	Losses / Impacts
1989	Explosives	SUNY Geneseo Campus	N/A	N/A	A dean at the State University of New York at Geneseo received a package with a bomb. The package was delivered by campus mail. It was detonated in a field. No injuries or property damage was sustained.
June 14, 2013	Explosives	Springwater	N/A	N/A	The HazMat Team was called to the scene of an explosion the night before at a multiple residence dwelling in Springwater. The Springwater Fire Department was summoned to the scene for an explosion and injury. The cause of the explosion was an individual who was drying bomb making chemicals in his oven. When several pipe bombs were discovered, the County Sheriff's Office and New York State Police became involved. The U.S. Drug Enforcement Agency (DEA) and Bureau of Alcohol, Tobacco, and Firearms (BATF) personnel were called, and the pipe bombs and explosives were removed. The HazMat Team was requested to remove the precursor chemicals to a safe location for disposal by a licensed contractor.

### E.12.2 Risk Assessment Tables

N/A



## E.13 Utility Failure

### E.13.1 Hazard Events in the 2015 HMP

Dates of Event	Event Type	FEMA Declaration Number	County Designated?	Losses / Impacts
January 9, 2008	Thunderstorm Wind	N/A	N/A	A powerful cold front crossed the region during early morning hours. The thunderstorms that accompanied the front produced damaging wind gusts measured to 75 mph. Trees and power lines were downed by the winds throughout the region. Several homes and automobiles sustained damage by falling trees and limbs.
January 30, 2008	High Wind	N/A	N/A	A powerful cold front crosses western New York and was followed by very strong west to southwest winds. Sustained winds increased to 30 to 45 mph with gusts measured to 80 mph at the peak of the storm. Trees and power lines were downed by the strong winds. Utility companies reported close to 100,000 customers without power in locations scattered throughout region. Several homes and automobiles were damaged by falling trees and limbs. The New York State Thruway was closed from Henrietta to Depew because of blowing snow and whiteout conditions. Two tractor trailers were blown over on the Thruway. In Irondequoit, the steeple of a church was blown down.
March 4, 2008	Winter Storm	N/A	No	Low pressure developed over the lower Mississippi valley and lifted to the Ohio valley. The storm brought a mix of snow, sleet, and freezing rain to the region. A general snow of 4 to 6 inches blanketed the entire region and was followed by several inches of sleet and up to a half inch of glaze from freezing rain. Schools were closed in many parts of the region. Some county officials declared States of Emergency, while others recommended no unnecessary travel. Utility companies reported scattered power outages affected tens of thousands of customers across the region.
April 12, 2008	Thunderstorm Wind	N/A	N/A	A line of severe thunderstorms moved through the area in the early hours of the morning. In addition to hail (up to ¾ inch in diameter), downburst winds brought down trees and power lines. In the central Livingston County Town of West Sparta, a concentrated area of more significant straight line wind damage occurred. The damage area was about 2 miles long and several hundred yards wide. Five buildings sustained shingle and siding damage in the area along Redmond and McKay Roads, and two sheds were blown over. Numerous trees were uprooted and snapped off, including two distinct areas of enhanced damage in forested areas just north of McKay Road. Winds were estimated at 70 to 80 mph in this area.
June 10, 2008	Thunderstorm Wind	N/A	N/A	A pre-frontal trough well ahead of a cold front moved into a sultry air mass with ample instability and wind shear. A weak super-cell formed near Erie, Pennsylvania, and grew as it encountered an outflow from earlier convection. The storm continued to intensify as it moved across the western southern tier of New York and reach severe limits as it cross the eastern Finger Lakes and eastern Lake Ontario Regions of New York. The thunderstorms produced hail (up to ¾ inch in diameter) and wind gusts were estimated to near 70 mph. The storms cut power to nearly 75,000 customers for several hours through the evening. Falling trees damaged homes and automobiles in Avon and York, (Livingston County) and Phoenix, Oswego and Sandy Pond in Oswego County.
June 13, 2008	Thunderstorm Wind	N/A	N/A	A very warm and humid southerly flow between low pressure over the upper Great Lakes and high pressure off the mid-Atlantic coast during the day provided ideal conditions for late afternoon thunderstorms across the parts of the area. Convection focused on outflow and lake breeze boundaries. The thunderstorm wind gusts were measured to 62 mph and downed trees and power lines. Hail (up to nickel-sized) was also reported.



Dates of Event	Event Type	FEMA Declaration Number	County Designated?	Losses / Impacts
June 29, 2008	Thunderstorm Wind	N/A	N/A	A line of severe thunderstorms developed over the extreme western part of the state and tracked eastward across the region. The thunderstorms brought another round of damaging hail and thunderstorm winds to western and central New York. Trees and power lines and poles were downed by the wind gusts estimated between 60 and 65 mph. Scattered power outages were reported by the utility companies with tens of thousands of customers affected throughout the region.
July 17, 2008	Hail	N/A	N/A	Thunderstorms that crossed parts of the Finger Lakes region during the morning hours produced three-quarter inch hail and damaging winds estimated nearing 60 mph. Several thousand were left without power.
September 14, 2008	High Wind	N/A	N/A	The low center (a remnant of Hurricane Ike) reached the lower Great Lakes region during the late evening and brought high winds to the area as it lifted from Indiana across southern Ontario. Wind gusts were measured to 66 mph. The winds downed trees and power lines throughout the area. The wet soil conditions contributed to the number of downed trees. Debris blocked many streets and highways. There were numerous reports of homes, building and automobiles being damaged by fallen trees.
December 28, 2008	High Wind	N/A	N/A	A complex area of low pressure developed over the midsection of the nation and strengthened as it moved into the western Great Lakes region then into Quebec. Winds accompanying the system increased rapidly across the area ranging from 30 to 40 m.p.h. Close to 100,000 customers lost power during the storm and nearly 90,000 were without phone service. Downed trees damaged several structures and automobiles. The strong winds tore off roofs and shingles on many buildings.
February 12, 2009	High Wind	N/A	N/A	Deep low pressure moved across southern Ontario and Lake Ontario to the New England coast. The track and intensity of the low resulted in high winds for much of western New York. Wind gusts were measured to 69 mph with widespread estimated gusts between 55 and 60 mph. The strong winds downed trees and power lines. Electric utilities reported nearly 100,000 customers without power at the peak of the storm.
June 25, 2009	Thunderstorm Wind	N/A	N/A	Showers and thunderstorms accompanied the passage of a cold front across the region. The thunderstorm winds downed trees and power lines. Scattered power outages were reported across the area.
July 11, 2009	Hail	N/A	N/A	Thunderstorms preceded and accompanied a cold front moving across the region during the late morning and afternoon hours. The thunderstorm winds downed trees and power lines. In Livingston county, a thunderstorm produced nickel-size hail just north of Dansville.
July 21, 2009	Thunderstorm Wind	N/A	N/A	Thunderstorms preceded and accompanied a cold front moving across the region during the late morning and afternoon hours. The thunderstorm winds downed power lines in the town of Caledonia in Livingston county.
August 9, 2009	Thunderstorm Wind	N/A	N/A	A massive convective complex moved from lower Michigan across southern Ontario near Toronto then dove southeast across the Niagara Frontier and western Southern Tier. This followed an earlier round of strong thunderstorms and heavy rains earlier in the day. Damage from the thunderstorm winds was widespread across the Niagara Frontier and western Southern Tier. Trees, as large as 2 to 3 feet in diameter, were downed. Power outages were scattered throughout the region as the winds downed power lines. The unprecedented heavy rains added 4 to 6 inches of water in less than 2 hours, resulting in some of the worst flash flooding the area had seen. Tri-County hospital in Gowanda was inundated by flood waters. Patients were transferred to Lakeshore Hospital in Irving. Several hundred homes sustained damage and 40 homes were condemned. The gage on Cattaraugus Creek at Gowanda indicated the water rose from 6 feet to almost 13 feet in less than an hour (flood stage is 10 feet).



Dates of Event	Event Type	FEMA Declaration Number	County Designated?	Losses / Impacts
August 29, 2009	Thunderstorm Wind	N/A	N/A	Low pressure tracked across Ontario and Quebec dragging a cold front across the region. Thunderstorm winds downed trees and power lines in West Sparta.
May 8, 2010	High Wind	N/A	N/A	Deep low pressure passed over western New York with its trailing cold front rapidly sweeping east across the region. Winds increased within a few hours of the approaching front to gust speeds of 60 to 65 mph. Tens of thousands were left without power. There were reports of vehicles and/or buildings damaged by falling trees. The high winds were also blamed for several delayed flights at both Buffalo and Rochester airports. The Clayton Dock was damaged by the winds.
July 28, 2010	Thunderstorm Wind	N/A	N/A	Thunderstorms developed ahead of and along a cold front that crossed the area during the late afternoon and evening hours. The thunderstorms produced damaging wind gusts estimated to 65 mph. Trees, power lines and poles were downed by the winds. Utility companies reported tens of thousands without power across the region.
August 16, 2010	Thunderstorm Wind	DR-1899	Yes	A cold front crossed the region during the early overnight hours. The front was accompanied by strong thunderstorms that produced winds gusting to 60 mph. The strong winds downed trees and power lines.
April 16, 2011	High Wind	N/A	N/A	An area of low pressure moved across the eastern Great Lakes region. The system brought strong winds to the area. Wind gusts were measured to 67 mph. The strong winds downed trees and power lines. Utilities reported several thousand customers without power during the evening hours. Damage was reported in Portland, Barcelona, Bemus Point, Wellsville, Springwater, Carthage and Fort Drum.
April 27, 2011	Thunderstorm Wind	N/A	N/A	A line of thunderstorms developed along a pre-frontal trough and moved across the entire region from west to east from mid-morning through early afternoon. The thunderstorm winds downed trees and power lines as the fast-moving line swept across the area. Power poles were snapped in some cases and power outages were reported throughout the area. Utilities reported tens of thousands of customers without power.
April 27, 2011	Thunderstorm Wind	N/A	N/A	Showers and thunderstorms accompanied the passage of a cold front across the region. The thunderstorms winds downed trees and power lines. Several hundred customers were without power. In Dansville, the thunderstorm winds blew off a portion of the roof of Dansville High School.
June 23, 2011	Thunderstorm Wind	N/A	N/A	A line of thunderstorms developed in a southwest flow of moist, unstable air. The thunderstorms bowed across Livingston county producing wind gusts to 60 mph. The winds downed several trees near Lakeville. One of the trees fell onto a house resulting in moderate structural damage.
September 11, 2011	Hail	DR-1869	Yes	An upper level disturbance crossing the lower Great Lakes fueled thunderstorms across the region.
November 14, 2011	Thunderstorm Wind	N/A	N/A	Severe thunderstorms spawned two tornadoes in Chautauqua County and moved across the western Southern Tier and southern Finger Lakes regions. The thunderstorm winds downed trees and power poles and lines. In Little Valley, a portion of a roof was blown off a house. Wind gusts were estimated between 70 and 80 mph.
January 17, 2012	Thunderstorm Wind	N/A	N/A	Low pressure moved across southern Ontario and pulled a strong cold front across the region during the evening hours. Thunderstorms accompanied the front and produced wind gusts up to 70 mph. The strong winds downed trees and power lines and poles. Power outages were scattered throughout the region with utilities reporting several thousand without power at its worse. In Caledonia, a metal shed was blown over.



Dates of Event	Event Type	FEMA Declaration Number	County Designated?	Losses / Impacts
April 22, 2012	Winter Storm	N/A	No	A significant east coast storm spread rain then snow across the region. The heavy, wet snow was significant enough to down trees and power lines resulting in scattered power outages across the region. Snowfall amounts and damage were highly elevation dependent, thus the western southern tier and Finger Lakes region were most impacted. Specific reports included: 15 inches at Sinclairville; 13 inches at Cattaraugus, Colden, and Frewsburg; 12 inches at Warsaw; 10 inches at Alfred and Boston; 9 inches at West Valley and Dansville; 8 inches at Wales; 7 inches at Glenwood; and 6 inches at Whitesville and Livonia.
May 3, 2012	Thunderstorm Wind	N/A	N/A	An area of showers and thunderstorms moved across the Finger Lakes during the late evening and early overnight hours. The thunderstorms produced damaging downburst winds that knocked down trees and power lines in Avon, Victor, East Bloomfield, Farmington, Bristol and just north of Geneseo. A lightning strike started a house on fire in Victor. The two-story home was a total loss. The four people in the home were able to escape safely.
May 29, 2012	Thunderstorm Wind	N/A	N/A	A strong cold front crossed the region bringing an end to oppressive heat and humidity; however, the front was accompanied by severe thunderstorms which produced hail (up to 1.75 inches in diameter) and damaging winds that downed trees and power lines. Utilities reported tens of thousands without power scattered throughout the region. Only minor structural damage was reported mainly broken windows and ripped off shingles. Several automobiles were damaged by falling trees and limbs.
August 5, 2012	Thunderstorm Wind	N/A	N/A	Showers and thunderstorms developed in a warm, moist atmosphere ahead of an approaching cold front. Wind gusts were measured to 60 mph. The thunderstorm winds downed trees and power lines throughout the region. In many areas, downed trees blocked roads and highways.
September 8, 2012	Thunderstorm Wind	N/A	N/A	A line of thunderstorms developed along a pre-frontal trough and moved across the entire region from west to east from mid-morning through early afternoon. The thunderstorm winds downed trees and power lines as the fast moving line swept across the area. Power poles were snapped in some cases and power outages were reported throughout the area. Utilities reported tens of thousands of customers without power.
October 29, 2012	High Wind	N/A	N/A	Remnants of Hurricane Sandy brought strong winds and heavy rains to western and north central New York. Rainfall amounts of 2 to 5 inches were reported with some area creeks reaching bankful. The high winds downed trees and power lines throughout the region. Wind gusts were measured to 60 mph. Tree damage was greater than usual with such wind speeds because of saturated ground and northeast winds, opposite of the normal prevailing southwest winds. Utilities reported tens of thousands of customers without power across the entire region.
January 20, 2013	High Wind	N/A	N/A	A deepening storm system moved across the upper Great Lakes, bringing strong, damaging winds to the entire region late Saturday night into Sunday (20th-21st). Trees, power poles, and wires were brought down by the winds. Numerous roads were blocked by fallen trees, wires, and debris. Structural damage was also reported. Some of the more significant damage included: an awning ripped off in Lancaster, roof trusses were downed on a building under construction in Batavia, part of a metal roof blown off in Portageville, a trailer damaged by a fallen tree in West Bloomfield, ladder assembly blown off a silo near Constableville, and a boat destroyed by a fallen tree in Livonia. Utilities reported tens of thousands without power for a time. Specific measured gusts included 51 mph at Livonia.
May 21, 2013	Hail	N/A	N/A	Thunderstorms developed along various boundaries within a warm and moist air mass over the region. Storms first developed across the Finger Lakes midday along the Lake Ontario lake breeze and then in the mid-afternoon along the Lake Erie lake



Dates of Event	Event Type	FEMA Declaration Number	County Designated?	Losses / Impacts
				breeze boundary as it pushed inland across the southern tier. The strongest storms produced 1- to 2- inch hail stones. In several locations, automobiles were damaged by the hail stones. Later in the afternoon, thunderstorms rolled across northern New York State with downed trees and power poles reported.
July 10, 2013	Thunderstorm Wind	N/A	N/A	Showers and thunderstorms developed in a warm, moist, unstable air mass as a cold front approached from the west. The thunderstorms produced damaging winds. Hail (up to 1-inch in diameter) fell near Sherman. The thunderstorm winds downed trees and power lines. In Springwater, a house was damaged when thunderstorm winds knocked a tree onto it.
November 1, 2013	High Wind	N/A	N/A	Deep low pressure lifted across the Great Lakes region. The system brought strong winds to much of the region. Winds gusted as high as 62 mph. The strong winds downed trees and power lines throughout the region. Power outages were in the tens of thousands. In addition to minor structural damage to homes and building, a number of houses and automobiles were damaged by falling trees and limbs.

**E.13.2 Risk Assessment Tables**

N/A

**E.14 Wildfire**

**E.14.1 Hazard Events in the 2015 HMP**

Dates of Event	Event Type	FEMA Declaration Number	Location / County Designated?	Losses / Impacts
March 17, 2010	Brush Fire	N/A	N/A	A fire in the cattails on River Road was reported in the Town of Leicester.
April 1, 2010	Brush Fire	N/A	N/A	A large brush and field fire was reported on Chase Road in the Village of Lima. Departments from three counties assisted.
April 2, 2010	Brush Fire	N/A	N/A	A large brush and field fire was reported on Depot Road in the Village of Dansville. Several area fire departments assisted the Village.
April 4, 2010	Brush Fire	N/A	N/A	A brush fire and barn fire was reported in the Village of Mount Morris.



E.14.2 Risk Assessment Tables

Jurisdiction	Number of Critical Facilities Located in the Wildland-Urban Interface/Intermix Wildfire Hazard Area																														
	Adult Care	Bridge	Bus Facility	Cell Tower	Child Care Facility	Communication Facility	County Building	Dam	Electric Substation	EMS	Fire Station	Highway Department	Library	Major Employer	Pharmacy	Police Station	Polling Site	Post Office	Potable Water Tank	Potable Water Tower	Primary Education	Secondary Education	Shelter	Sheriff Radio Tower	Tier II HazMat	Town Hall	Village Hall	Wastewater Pump Station	Wastewater Sewage Treatment Facility		
Avon (T)	0	2	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Avon (V)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Caledonia (T)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Caledonia (V)	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Conesus (T)	0	1	0	0	0	0	0	4	0	0	1	1	0	0	0	1	2	1	1	0	0	0	0	0	0	1	0	3	0		
Dansville (V)	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	
Geneseo (T)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0		
Geneseo (V)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Groveland (T)	0	1	0	2	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	4	1		
Leicester (T)	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Leicester (V)	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	
Lima (T)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Lima (V)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Livonia (T)	1	3	0	0	0	0	0	2	0	0	1	0	0	0	1	1	1	1	1	2	0	0	0	0	0	0	0	6	0	0	
Livonia (V)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	
Mount Morris (T)	0	1	0	1	0	0	5	0	1	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	
Mount Morris (V)	0	1	0	0	2	0	0	1	0	1	1	1	1	1	0	1	4	1	0	0	1	1	2	0	4	1	1	0	1	1	
North Dansville (T)	0	4	0	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	
Nunda (T)	0	2	1	0	0	0	0	3	0	0	0	1	0	0	0	0	1	0	2	0	1	0	0	0	0	0	0	0	0	0	
Nunda (V)	0	4	0	0	1	0	0	1	0	1	1	1	1	1	1	3	1	0	0	0	1	1	0	0	1	1	0	0	0	0	
Ossian (T)	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Portage (T)	0	6	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sparta (T)	0	2	0	4	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	
Springwater (T)	0	2	0	3	1	0	0	3	1	0	1	1	0	0	0	0	1	2	1	0	0	0	0	0	1	1	0	0	1	1	



Jurisdiction	Number of Critical Facilities Located in the Wildland-Urban Interface/Intermix Wildfire Hazard Area																												
	Adult Care	Bridge	Bus Facility	Cell Tower	Child Care Facility	Communication Facility	County Building	Dam	Electric Substation	EMS	Fire Station	Highway Department	Library	Major Employer	Pharmacy	Police Station	Polling Site	Post Office	Potable Water Tank	Potable Water Tower	Primary Education	Secondary Education	Shelter	Sheriff/ Radio Tower	Tier II HazMat	Town Hall	Village Hall	Wastewater Pump Station	Wastewater Sewage Treatment Facility
West Sparta (T)	0	1	0	3	0	0	0	1	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0
York (T)	0	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
<b>Livingston County (Total)</b>	<b>1</b>	<b>35</b>	<b>1</b>	<b>16</b>	<b>6</b>	<b>1</b>	<b>5</b>	<b>17</b>	<b>3</b>	<b>2</b>	<b>7</b>	<b>8</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>5</b>	<b>14</b>	<b>8</b>	<b>8</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>7</b>	<b>5</b>	<b>2</b>	<b>15</b>	<b>3</b>