

**ATTACHMENT 3
HAZNY- HAZARD
ANALYSIS**

Background

On **November 23**, the Village of Patchogue conducted a hazard analysis using the automated program, *HAZNY* (Hazards New York). *HAZNY* was developed by the American Red Cross and the New York State Emergency Management Office.

The results of this hazard analysis are presented in this report.

***HAZNY* and (the) Village of Patchogue**

HAZNY is an automated interactive spreadsheet that asks specific questions on potential hazards in a community and records and evaluates the responses to these questions. *HAZNY* also includes historical and expert data on selected hazards. *HAZNY* is designed specifically for groups, rather than individual use. Village of Patchogue assembled a group of local officials to consider and discuss the questions and issues raised by the *HAZNY* program. Representatives from (Enter what agency facilitated the workshop) facilitated the meeting and recorded the results.

The Results

The Group analyzed hazards potentially affecting (The) Village of Patchogue. *HAZNY* rated each hazard based on the Group's assessment and assigned a numerical value.

These values are categorized as follows:

321 to 400 HIGH HAZARD
241 to 320 MODERATELY HIGH HAZARD
161 to 240 MODERATELY LOW HAZARD
44 to 160 LOW HAZARD

The Group rated the 21 hazards as follows:

<i>Hazard</i>	<i>Rating</i>
<i>HURRICANE</i>	296
<i>FLOOD</i>	272
<i>SEVERE STORM</i>	267
<i>WINTER STORM (SEVERE)</i>	262
<i>ICE STORM</i>	241
<i>UTILITY FAILURE</i>	228
<i>FIRE</i>	219
<i>EXTREME TEMPS</i>	210
<i>HAZMAT (IN TRANSIT)</i>	208
<i>EXPLOSION</i>	204

ICE JAM	204
HAZMAT (FIXED SITE)	200
OIL SPILL	200
TERRORISM	194
TORNADO	186
AIR CONTAMINATION	184
EARTHQUAKE	166
CIVIL UNREST	160
DROUGHT	144
EPIDEMIC	144
RADIOLOGICAL (FIXED SITE)	143

Hazard(s) rated as moderately high: HURRICANE, FLOOD, SEVERE STORM, WINTER STORM (SEVERE)

HURRICANE: 296, Moderately High Hazard

- Potential Impact:** Throughout a Large Region
Cascade Effects: Highly Likely
Frequency: A Regular Event
Onset: One Day Warning
Hazard Duration: Two to Three Days
Recovery Time: One to Two Weeks
Impact:
- Serious Injury or Death to Large Numbers
 - Severe Damage to Private Property
 - Severe Structural Damage to Public Facilities

FLOOD: 272, Moderately High Hazard

- Potential Impact:** Throughout a Small Region
Cascade Effects: Highly Likely
Frequency: A Regular Event
Onset: One Day Warning
Hazard Duration: Four days to One Week
Recovery Time: One to Two Weeks
Impact:
- Serious Injury or Death is Likely, but not in Large Numbers
 - Severe Damage to Private Property
 - Severe Structural Damage to Public Facilities

SEVERE STORM: 267, Moderately High Hazard

- Potential Impact:** Throughout a Small Region
Cascade Effects: Highly Likely

Frequency: A Frequent Event
Onset: Several Hours Warning
Hazard Duration: One Day
Recovery Time: Three Days to One Week
Impact:

- Serious Injury or Death is Likely, but not in Large Numbers
- Moderate Damage to Private Property
- Moderate Structural Damage to Public Facilities

WINTER STORM (SEVERE): 262, Moderately High Hazard

Potential Impact: Throughout a Large Region
Cascade Effects: Highly Likely
Frequency: A Regular Event
Onset: One Day Warning
Hazard Duration: Two to Three Days
Recovery Time: One to Two Weeks
Impact:

- Serious Injury or Death is Likely, but not in Large Numbers
- Severe Damage to Private Property
- Moderate Structural Damage to Public Facilities

Hazard(s) rated as moderately low: ICE STORM, UTILITY FAILURE, FIRE, EXTREME TEMPS, HAZMAT (IN TRANSIT), EXPLOSION, ICE JAM, HAZMAT (FIXED SITE), OIL SPILL, TERRORISM, TORNADO, AIR CONTAMINATION, EARTHQUAKE

ICE STORM: 241, Moderately Low Hazard

Potential Impact: Throughout a Large Region
Cascade Effects: Highly Likely
Frequency: A Regular Event
Onset: One Day Warning
Hazard Duration: One Day
Recovery Time: One to Two Days
Impact:

- Serious Injury or Death is Likely, but not in Large Numbers
- Severe Damage to Private Property
- Moderate Structural Damage to Public Facilities

UTILITY FAILURE: 228, Moderately Low Hazard

Potential Impact: Throughout a Large Region
Cascade Effects: Highly Likely

Frequency: A Regular Event
Onset: No Warning
Hazard Duration: One Day
Recovery Time: Less Than One Day

Impact:

- Serious Injury or Death Unlikely
- Little or No Damage to Private Property
- Little or No Structural Damage to Public Facilities

FIRE: 219, Moderately Low Hazard

Potential Impact: Single Location
Cascade Effects: Some Potential
Frequency: A Regular Event
Onset: No Warning
Hazard Duration: Less Than One Day
Recovery Time: Less Than One Day

Impact:

- Serious Injury or Death is Likely, but not in Large Numbers
- Severe Damage to Private Property
- Little or No Structural Damage to Public Facilities

EXTREME TEMPS: 210, Moderately Low Hazard

Potential Impact: Throughout a Large Region
Cascade Effects: Some Potential
Frequency: A Regular Event
Onset: Several Days Warning
Hazard Duration: More Than One Week
Recovery Time: Less Than One Day

Impact:

- Serious Injury or Death is Likely, but not in Large Numbers
- Little or No Damage to Private Property
- Moderate Structural Damage to Public Facilities

HAZMAT (IN TRANSIT): 208, Moderately Low Hazard

Potential Impact: Single Location
Cascade Effects: Some Potential
Frequency: A Regular Event
Onset: No Warning
Hazard Duration: One Day
Recovery Time: Less Than One Day

Impact:

- Serious Injury or Death is Likely, but not in Large Numbers
- Moderate Damage to Private Property
- Little or No Structural Damage to Public Facilities

EXPLOSION: 204, Moderately Low Hazard

Potential Impact: Single Location

Cascade Effects: Some Potential

Frequency: An Infrequent Event

Onset: No Warning

Hazard Duration: One Day

Recovery Time: One to Two Days

Impact:

- Serious Injury or Death is Likely, but not in Large Numbers
- Severe Damage to Private Property
- Moderate Structural Damage to Public Facilities

ICE JAM: 204, Moderately Low Hazard

Potential Impact: Several Locations

Cascade Effects: Some Potential

Frequency: A Regular Event

Onset: One Day Warning

Hazard Duration: Four days to One Week

Recovery Time: One to Two Days

Impact:

- Serious Injury or Death Unlikely
- Moderate Damage to Private Property
- Moderate Structural Damage to Public Facilities

HAZMAT (FIXED SITE): 200, Moderately Low Hazard

Potential Impact: Single Location

Cascade Effects: Some Potential

Frequency: A Regular Event

Onset: No Warning

Hazard Duration: One Day

Recovery Time: Less Than One Day

Impact:

- Serious Injury or Death Unlikely
- Moderate Damage to Private Property
- Little or No Structural Damage to Public Facilities

OIL SPILL: 200, Moderately Low Hazard

Potential Impact: Single Location
Cascade Effects: Some Potential
Frequency: A Regular Event
Onset: No Warning
Hazard Duration: One Day
Recovery Time: Less Than One Day

Impact:

- Serious Injury or Death Unlikely
- Moderate Damage to Private Property
- Little or No Structural Damage to Public Facilities

TERRORISM: 194, Moderately Low Hazard

Potential Impact: Several Locations
Cascade Effects: Some Potential
Frequency: A Rare Event
Onset: No Warning
Hazard Duration: One Day
Recovery Time: One to Two Days

Impact:

- Serious Injury or Death to Large Numbers
- Moderate Damage to Private Property
- Severe Structural Damage to Public Facilities

TORNADO: 186, Moderately Low Hazard

Potential Impact: Several Locations
Cascade Effects: Some Potential
Frequency: An Infrequent Event
Onset: Several Hours Warning
Hazard Duration: Less Than One Day
Recovery Time: One to Two Days

Impact:

- Serious Injury or Death is Likely, but not in Large Numbers
- Severe Damage to Private Property
- Moderate Structural Damage to Public Facilities

AIR CONTAMINATION: 184, Moderately Low Hazard

Potential Impact: Throughout a Large Region
Cascade Effects: Highly Unlikely

Frequency: A Regular Event
Onset: Several Days Warning
Hazard Duration: Two to Three Days
Recovery Time: Less Than One Day
Impact:

- Serious Injury or Death is Likely, but not in Large Numbers
- Little or No Damage to Private Property
- Little or No Structural Damage to Public Facilities

EARTHQUAKE: 166, Moderately Low Hazard

Potential Impact: Throughout a Small Region
Cascade Effects: Some Potential
Frequency: An Infrequent Event
Onset: No Warning
Hazard Duration: Less Than One Day
Recovery Time: Less Than One Day
Impact:

- Serious Injury or Death Unlikely
- Little or No Damage to Private Property
- Little or No Structural Damage to Public Facilities

Hazard(s) rated as low: CIVIL UNREST, DROUGHT, EPIDEMIC, RADIOLOGICAL (FIXED SITE)

CIVIL UNREST: 160, Low Hazard

Potential Impact: Several Locations
Cascade Effects: Some Potential
Frequency: An Infrequent Event
Onset: One Day Warning
Hazard Duration: One Day
Recovery Time: Three Days to One Week
Impact:

- Serious Injury or Death is Likely, but not in Large Numbers
- Moderate Damage to Private Property
- Little or No Structural Damage to Public Facilities

DROUGHT: 144, Low Hazard

Potential Impact: Throughout a Large Region
Cascade Effects: Some Potential
Frequency: An Infrequent Event

Onset: More Than One Week Warning

Hazard Duration: More Than One Week

Recovery Time: Less Than One Day

Impact:

- Serious Injury or Death Unlikely
- Little or No Damage to Private Property
- Little or No Structural Damage to Public Facilities

EPIDEMIC: 144, Low Hazard

Potential Impact: Throughout a Large Region

Cascade Effects: Highly Unlikely

Frequency: A Rare Event

Onset: More Than One Week Warning

Hazard Duration: More Than One Week

Recovery Time: One to Two Weeks

Impact:

- Serious Injury or Death to Large Numbers
- Little or No Damage to Private Property
- Little or No Structural Damage to Public Facilities

RADIOLOGICAL (FIXED SITE): 143, Low Hazard

Potential Impact: Single Location

Cascade Effects: Highly Unlikely

Frequency: An Infrequent Event

Onset: No Warning

Hazard Duration: Less Than One Day

Recovery Time: Less Than One Day

Impact:

- Serious Injury or Death Unlikely
- Little or No Damage to Private Property
- Little or No Structural Damage to Public Facilities

HAZARDS THAT OCCUR WITH NO WARNING*

UTILITY FAILURE

FIRE

HAZMAT (IN TRANSIT)

EXPLOSION

HAZMAT (FIXED SITE)

OIL SPILL

TERRORISM

EARTHQUAKE

RADIOLOGICAL (FIXED SITE)

* No warning was selected from the Onset Tab.

HAZARDS THAT OCCUR MOST OFTEN*

SEVERE STORM

*A frequent event was selected on frequency Tab.

HAZARDS THAT PRESENT THE GREATEST THREAT TO LIFE*

HURRICANE

TERRORISM

EPIDEMIC

*Serious injury and death in large or extremely large numbers was selected from the Impact Tab.

Figure 1. Chart of Hazards vs. Ratings



