

A photograph showing a flooded residential area. In the foreground, an American flag is draped over a wooden fence. The water is murky brown and reflects the flag. In the background, there are green trees and a house with a grey roof. The sky is overcast.

Broome County Office of Emergency Services

**September 2011
Flooding Event**

09/09/2011

Prepared by: Michael A. Ponticiello

Presentation Overview

- Background
- Prior Mitigation
- Preparedness
- Response
- Recovery
- Mitigation
- Where we are today

Emergency Management

Emergency management is the managerial function charged with creating the framework within which communities reduce vulnerability to hazards and cope with disasters.

Four Phases of Emergency Management



Office of Emergency Services

- Divisions
 - Communications
 - Disaster Preparedness
 - Emergency Medical Services
 - Fire Prevention and Control
- Emergency Managers for Broome County

Prior Mitigation

- 19 watersheds
- 17.5 miles of levees
- 3 miles of flood walls
 - Lourdes Flood Wall
- 179 gates
- Whitney Point Dam

Beginning on 9/7/2011,
Broome County experienced
yet another “flood of record”

This event would emerge, by virtually
every measure, as the worst natural
disaster in the County’s history

Preparation

- First alerted to flood potential by NWS on Saturday 9/3.
- Daily briefings and/or webinars provided by NWS through Wednesday 9/7.
- High degree of certainty that someplace was going to get “clobbered”, but models suggested that it was most likely to happen to the west of us.
- We lost that coin toss.

Day 1 – Wednesday, September 7th

- 11:00 – Flash Flooding Begins

- 12:00

- 1:00

- 1:15

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Day 2 – Thursday, September 8th

- Evacuations continue in Conklin, Binghamton, Union, Vestal, Maine and other areas throughout Thursday.
- By 1800 most rivers have crested
 - Conklin 23.94 ft
 - Binghamton 25.71 ft
 - Vestal 35.26 ft
 - Windsor 24.21 ft
 - Chenango Forts 14.93 ft
- 17 of the 19 county watersheds





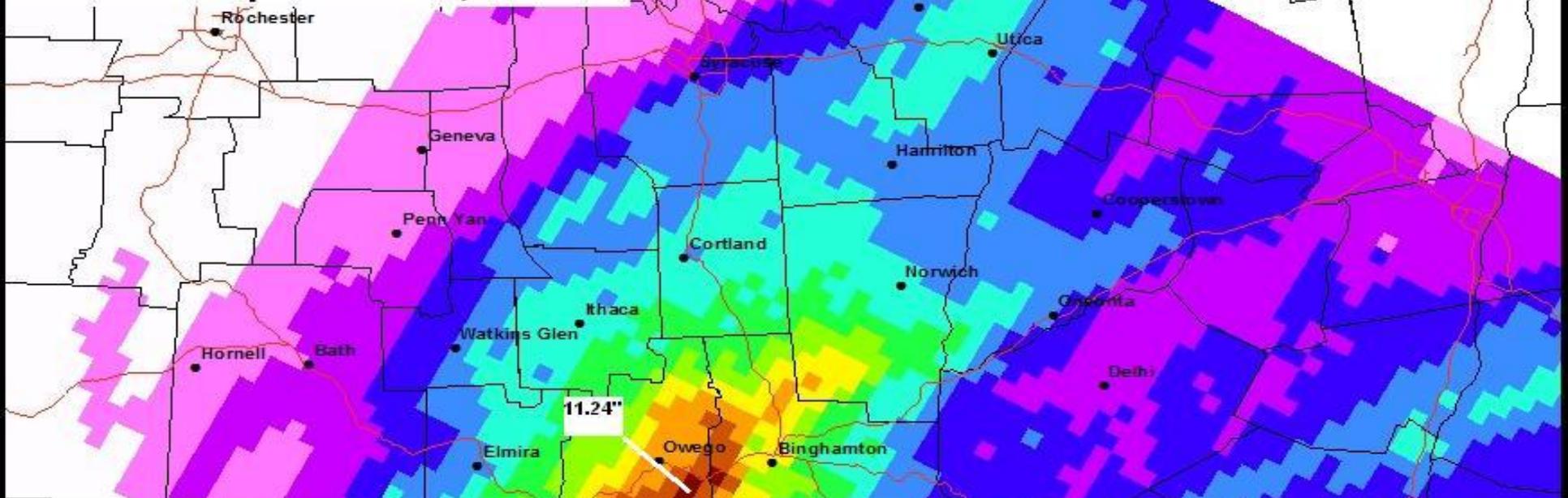




Multi-sensor Precipitation Est.

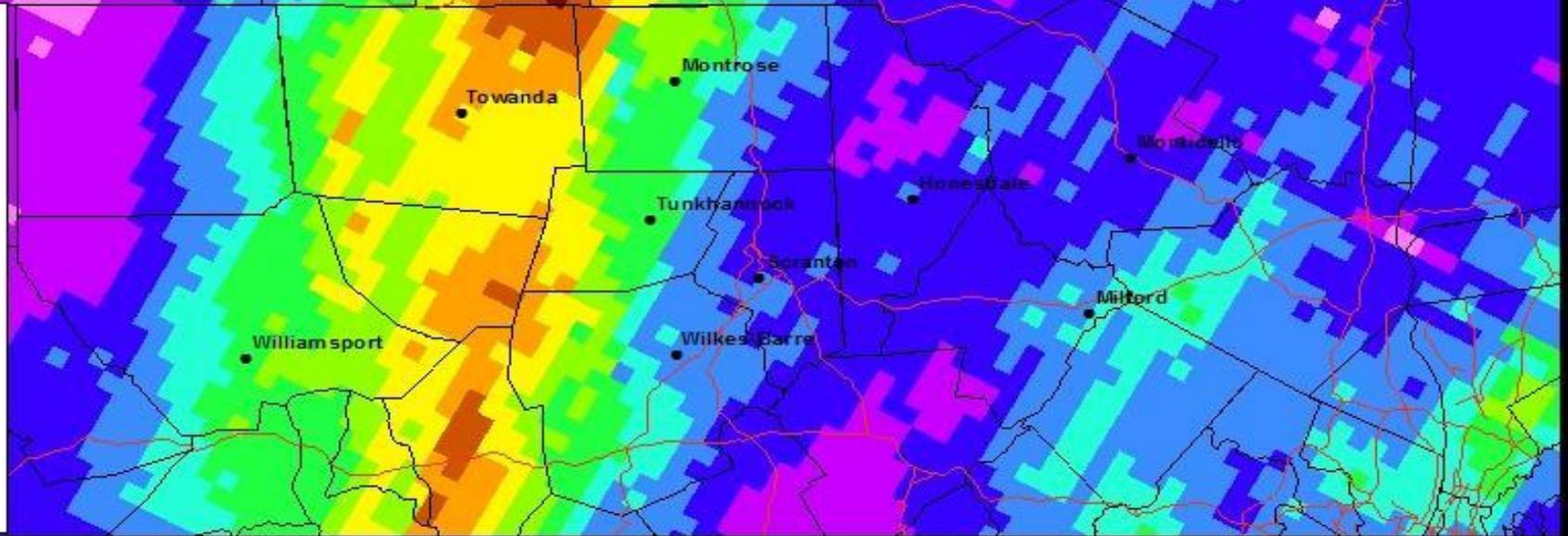
(preliminary)

48 Hour Accumulation from
8 AM EDT September 06, 2011 to
8 AM EDT September 08, 2011



Rainfall inches

- 0 - 1
- 1.0 - 2
- 2.0 - 3
- 3.0 - 4
- 4.0 - 5
- 5.0 - 6
- 6.0 - 7
- 7.0 - 8
- 8.0 - 9
- 9.0 - 10
- 10.0 - 11
- 11.0 - 12





The New York Times

Friday, September 9, 2011 Last Update: 8:04 PM ET



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Obama Stumps for Jobs Plan, Calling for 'Action Now'

By MARK LANDLER and JACKIE CALMES 27 minutes ago

President Obama took his \$447 billion jobs plan on the road on Friday, beginning a fall offensive in support of his proposal.

• Guitars, a Federal Raid and a Jobs Speech 6:26 PM ET

Post a Comment | Read (164)

Will the Jobs Plan Make a Difference?

By THE NEW YORK TIMES 5:10 PM ET

For some employers, factors more important than payroll taxes will affect their future hiring plans.



Hans Pennink/Associated Press

< 1 2 3 4 5 6 7 >

Evacuated residents sought shelter at SUNY Binghamton.

Flooding Persists in Southern Tier of N.Y.

By COREY KILGANNON 37 minutes ago

The area was inundated by record-high floodwaters as the remnants of Tropical Storm Lee dumped rain across the Northeast, reflooding regions still reeling from Irene.

OPINION >

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Rick Perry says it's a scam on young people. Is he right?



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MARKETS > At close 09/09/2011

S.&P. 500	Dow	Nasdaq
1,154.23	10,992.13	2,467.99
-31.67	-303.68	-61.15
-2.67%	-2.69%	-2.42%

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Day 3 – Friday, September 9th

- Mandatory water conservation and boil water orders issued.
- Shelter Populations Peak
 - BU Events Center – 1700
 - BU West Gym – 110
 - Johnson City HS – 700
 - Endwell FD – 130
 - Port Crane FD – 15
 - Animal Shelter - 80



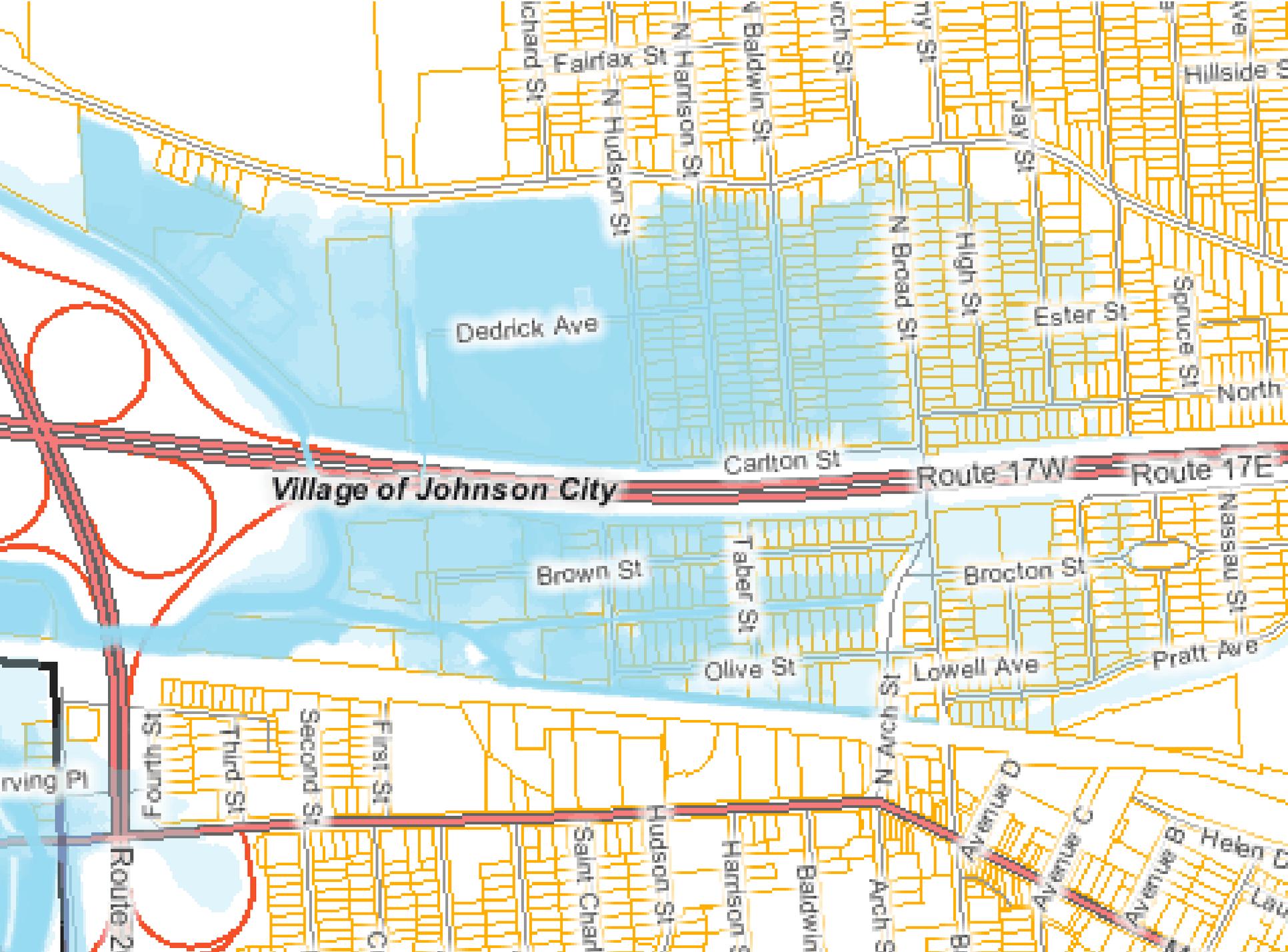


Days 4 and 5

- Rivers drop below Major Flood Stage at all gauges
- A Public Health Emergency is declared for the Twin Orchards area of Vestal.

Alert and Warning

- River forecasts were frequently revised (upward) as actual rainfall materialized and projections became more certain.
- Important new tools since the 2006 Flood:
 - GIS inundation layers keyed to the river gauges
 - NY Alert
- Combination of the two enabled us to rapidly determine evacuation areas, and to accurately direct public notification.



Village of Johnson City

Dedrick Ave

Route 17W

Route 17E

Brown St

Taber St

Olive St

Brocton St

Lowell Ave

Pratt Ave

Fourth St

Third St

Second St

First St

Saint Charles

Hudson St

Harrison St

Baldwin St

Arch St

Avenue A

Avenue B

Avenue C

Avenue D

Heavenly

Law

Living Pl

Route 2

Hillside

North

Nassau St

Law

Richard St

Fairfax St

N Hudson St

N Harrison St

N Baldwin St

Arch St

High St

Jay St

N Broad St

High St

Ester St

Spruce St

Ave

Evacuation and Sheltering

- Early identification and rapid notification of areas that would flood minimized need for boat rescues.
- Red Cross opened shelters near evacuated areas.
- As situation deteriorated, need for shelter opening accelerated rapidly.
- County Transit utilized to collect evacuees and transport them to shelters.

Evacuation and Sheltering

- Need for “mega-shelters” and co-location of special needs shelters was evident, due to the magnitude of evacuations.
- Largest facilities available and safe from flooding were selected.
- Citizens instructed to evacuate with medications and pets.
- County Animal Rescue Team (CART) activated to open a shelter for evacuated pets.





**Photo: Capt. Vincent Monticello
Civil Air Patrol**



**Sept 8, 2011 2:55PM
Binghamton, NY**







Courtesy of Bill Walsh

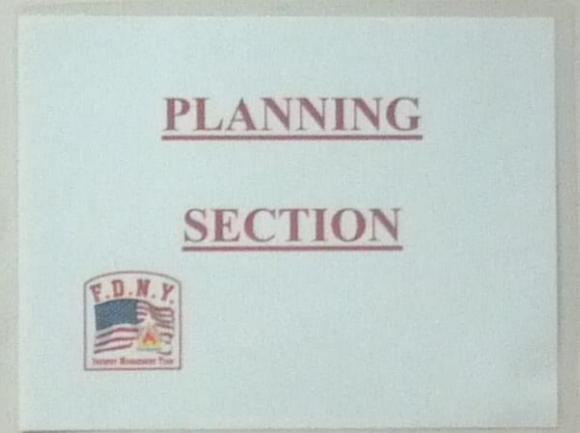


The Situation

- Evacuated 24,000 people
- Sheltered of 2,500 people and 200 pets
- Major damage to public water and sewer systems
- Contamination of over 350 private wells
- More than 7,000 damaged structures
 - 2,500 major damage or destroyed
- **NO Loss of Life**

Managing the Response

- Emergency Operations Center
 - Requested resources from throughout the state
- Largest deployment of resources (prior to Sandy)
 - (including 9/11)
- Public Information Officer
 - Press Releases
 - NY-Alert
 - 211



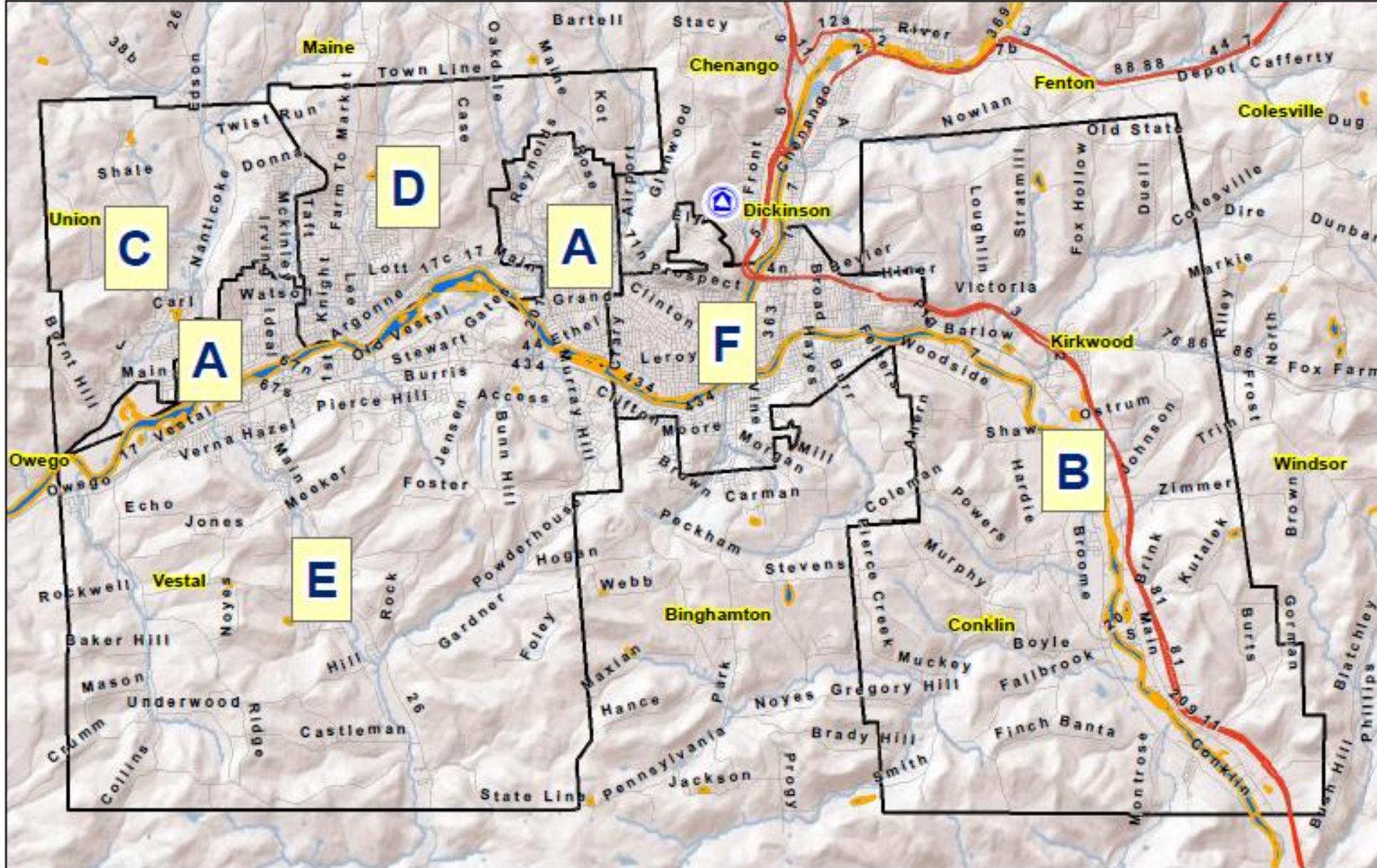


Broome County Divisions Operations Map Operation Period 5

Operational Period 9/11/11 20:00-08:00 9/12/11

0 2 4 8 Miles

1 in = 3 miles



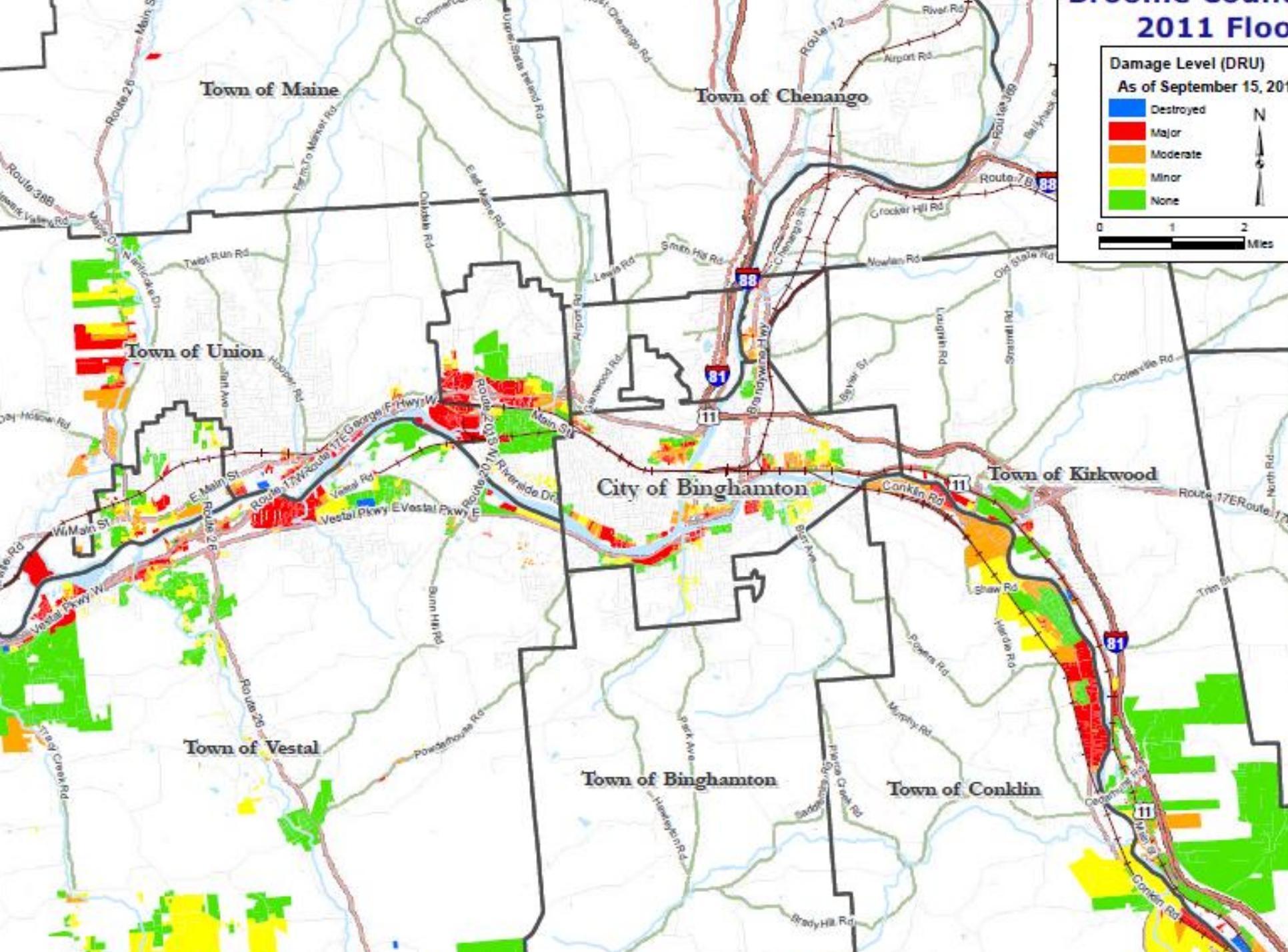
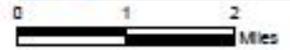
Recovery

- The transition to recovery begins relatively quickly.
- Damage Assessment
- Debris Management
- Health and Human Services
 - Mental Health
- Volunteer and Donations Management

Damage Assessment

- Code Enforcement Disaster Assistance Response Teams (CEDAR)
- Critical Infrastructure
 - Water/Sewer
 - Electric/Natural Gas
 - Telephone (landline and cellular)

2011 Flood







Health and Human Services

- Physical and Mental Health of the sheltered and community
- Water Sanitation
 - Private well contamination
- Hospital Inundation/Loss of Nursing Home Beds
- Housing
 - Temporary Housing

Volunteer and Donations Management

- Donations and Volunteers were managed through the United Way of Broome County on behalf of Broome County Government.
- Donations received: \$903,000
- Volunteers: “thousands”

Economic Recovery

- FEMA is working with local governments on long term economic planning and recovery

Mitigation

- Lead by the county planning department
- Hazard Mitigation Program
 - Buyout program





Questions?



Michael A. Ponticiello

Disaster Preparedness Coordinator

Broome County Office of Emergency Services

607-778-1178

mponticiello@co.broome.ny.us