

Appendix F. Lee Weather Details

A summary of weather forecasts, radar screen shots, cumulative rainfall, and flooding effects are all provided in this appendix. All of the weather data supports the fact that Lee was a slow moving system that stalled over the Southern Tier area of New York and deposited historically significant rainfall through the region.

The resulting flooding was an all time record for the area and exceeded the “500-year” flood levels set during the 2006 event.

F1. Summary of AtmosForecast reports 9/5/11 – 9/8/11

NYSEG and RGE subscribe to the AtmosForecast for weather and meteorology information. Summaries of the Atmos forecasts leading up to the Tropical Depression Lee (flooding) event are captured below. This list captures the first forecast for each day leading up to the event.

¶

AtmosForecast Consulting Meteorologists¶
P.O. Box 8285¶
Portland, ME 04101¶
Fax: 425-790-4438¶
vix 207-878-9486 ¶

Email: atmos@maine.rr.com

Weather Update ¶

¶

9/5/11 re: 8AM Conference Call ¶

¶

NYSEG & RGE ¶

¶

Today: ¶

¶

The front will slowly crab east today and clear northern NY later this afternoon and southern counties by midnight, a tropical connection with the relics of “Lee” having become established. A swath of an additional 1”-2” can be expected from Utica to Plattsburgh through early tomorrow. Lesser amounts will fall to the east and west. ¶

¶

There is only a minimal threat of thunder south and east of Plattsburgh and Binghamton today. ¶

¶

Additional heavy rain is quite possible on a Glens Falls to Elmira axis Wednesday as another envelope of tropical moisture becomes ensnared. The potential for 2”-4” is not out of the question. ¶

¶

Shall update prior to noon. ¶

¶

P.W. Cousins¶
Please do not reply to this message. Thank you. ¶

¶

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Weather Update¶

9/6/11 5:30AM¶

¶
NYSEG & RGE¶

¶

The prospect of another major rain event looms large.¶

¶

The deluge will ramp up today, easing midday Thursday. The relics of "Lee" contribute to the morass. The potential for 2"-4" along and south of I-90 during this 48 hour period is quite real. Only Liberty and Brewster service areas as well as the northern Adirondacks, the St. Lawrence and Champlain Valleys would receive less than 2".¶

¶

Shall reassess later today. ¶

¶

P.W. Cousins¶

Please do not reply to this message. Thank you. ¶

¶

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Weather Update¶

9/7/11 5:40PM¶

¶
NYSEG & RGE¶

¶

The end is near. The heaviest rain, that is.¶

¶

The spigot will slowly close on the tropical conduit of water very tightly aligned north-south over central NY tonight. ¶

¶

Another 2" will accumulate in a 100 mile wide band east of Rochester and Elmira to Utica and Binghamton. Far less rain will fall east and west of this region.¶

Wind will not be a concern. A few scattered non-severe thunderstorms will slowly disappear south of I-90 in this corridor during the next 2-4 hours. ¶

¶

Shall continue to monitor.¶

¶

P.W. Cousins¶

¶

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Consulting Meteorologists¶

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Fax: 425-790-4438¶

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Weather Update¶

9/7/11 6AM¶

¶

NYSEG & RGET

¶

Additional heavy rain can be expected today. The gradient will be very tight. ¶

¶

Another 3" will accumulate along the southern border from Binghamton to Jamestown through midday tomorrow, with the possibility of an isolated 5" near the southern Finger Lakes. Expect 1"-2" from Albany to Dunkirk, with less than one inch additional north of Schuyler Falls, Watertown, Syracuse and Buffalo. The other dry slot will be south of Kingston to Liberty where additional rainfall will not exceed 1". ¶

The focus will be from Elmira east through midday today and west early tomorrow through noon. ¶

There will be a few scattered non-severe thunderstorms south of I-90 during the next 12 hours. ¶

¶

Shall update later today. ¶

¶

P.W. Cousins¶

Please do not reply to this message. Thank you. ¶



¶

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Consulting Meteorologists¶

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Portland, ME 04101¶

Fx: 425-790-4438¶

vc: 207-878-9486 ¶

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Weather Update¶

9/8/11 2:45AM¶

¶

NYSEG & RGE¶

¶

A very localized final pulse of downpours must be endured through mid afternoon today within 75 miles of all sides of Binghamton. Expect an additional 1.1"-2.2" in this region with attendant flooding issues.¶

¶

Another plume of tropical moisture containing non-severe thunderstorms will affect southeast NY. The areas of concern are the entire Hudson valley south of Albany, the Taconics and the eastern Catskills including the Liberty service areas. 1.0"-1.5" will fall through early afternoon. ¶

¶

Shall continue to monitor.¶

¶

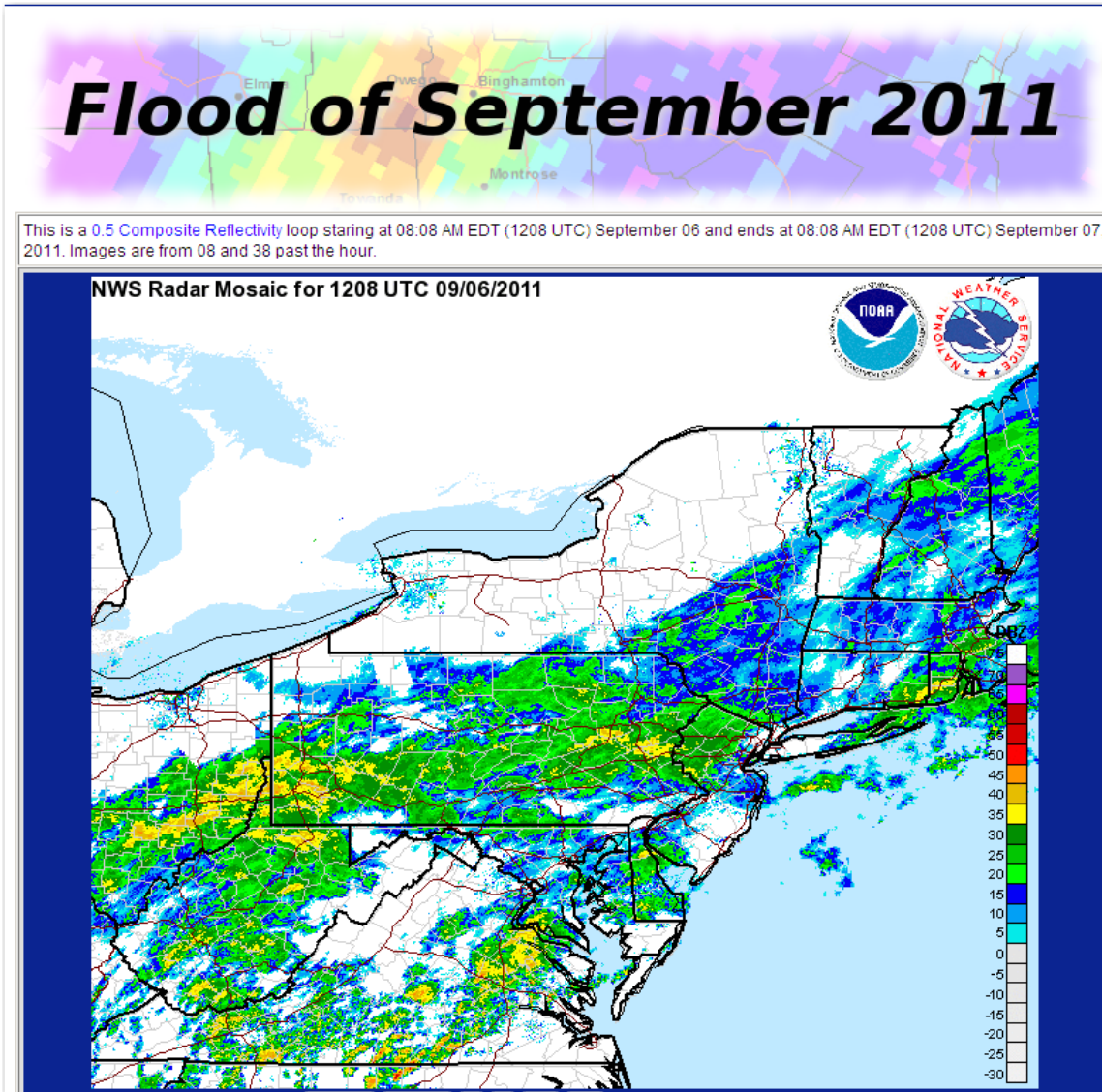
P.W. Cousins¶

F2. NOAA Hurricane Irene Statistics

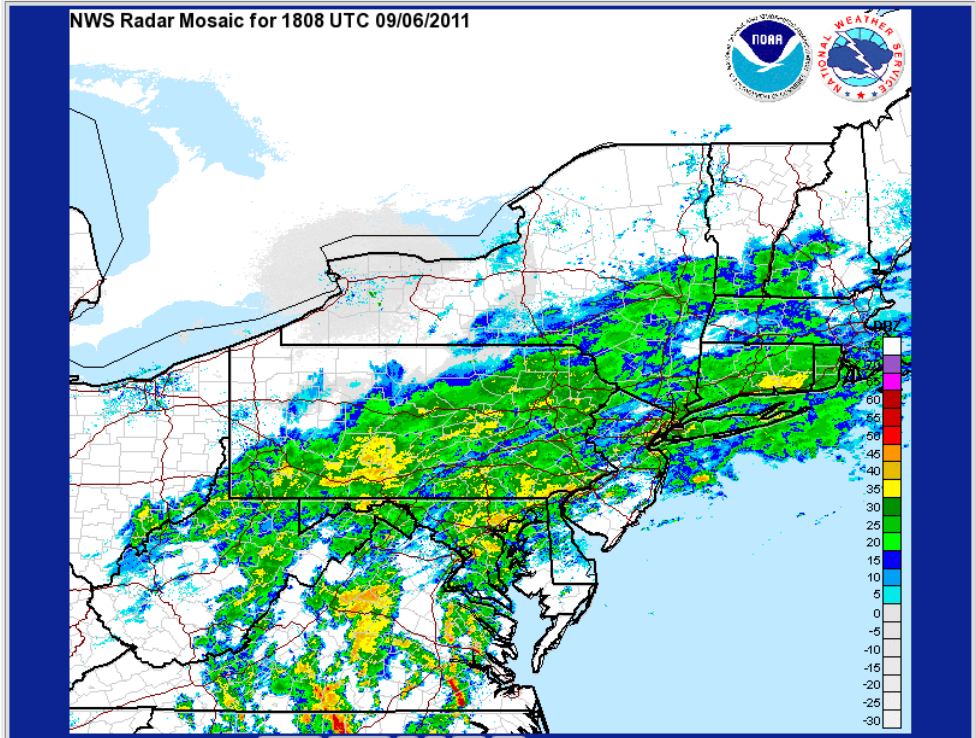
The Binghamton NY NOAA weather office provided detailed information regarding the track, intensity, and resulting flooding due to Lee. This section provides data for:

- F2A. Radar screen shots (time/date stamped)
- F2B Total precipitation amounts
- F2C River levels at various locations

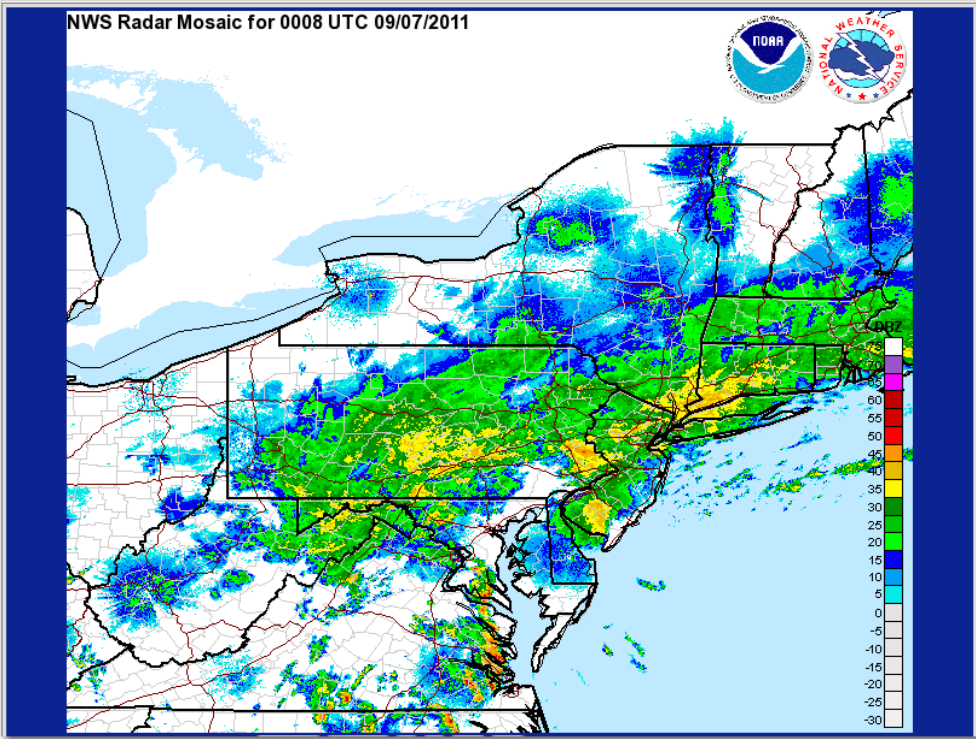
F2A. Radar screen shots (time/date stamped)



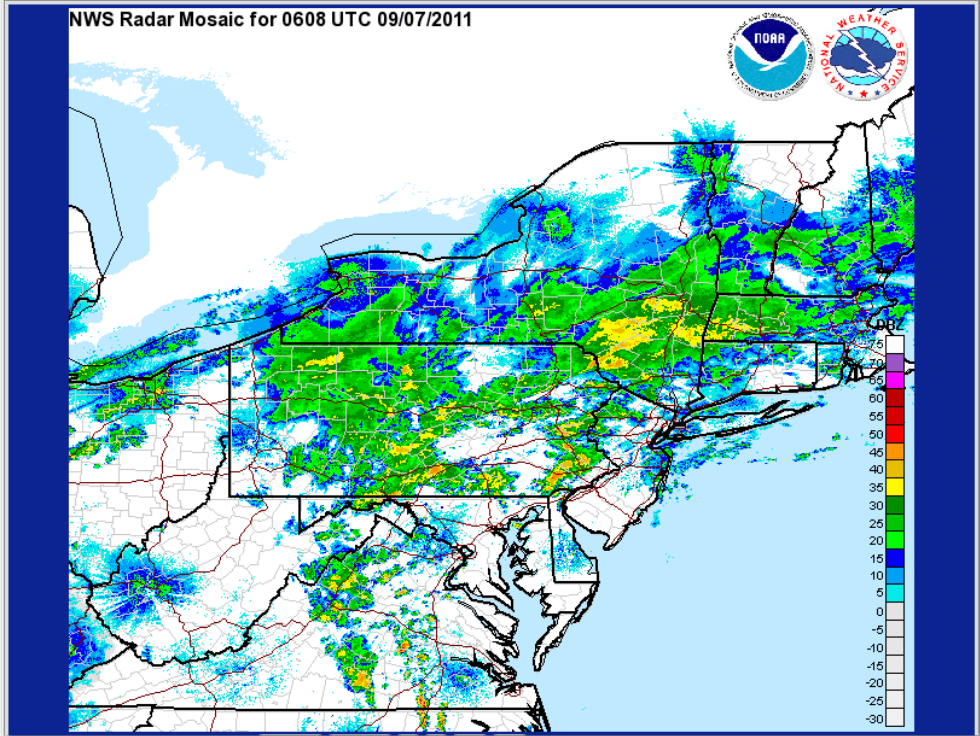
This is a 0.5 Composite Reflectivity loop starting at 08:08 AM EDT (1208 UTC) September 06 and ends at 08:08 AM EDT (1208 UTC) September 07, 2011. Images are from 08 and 38 past the hour.



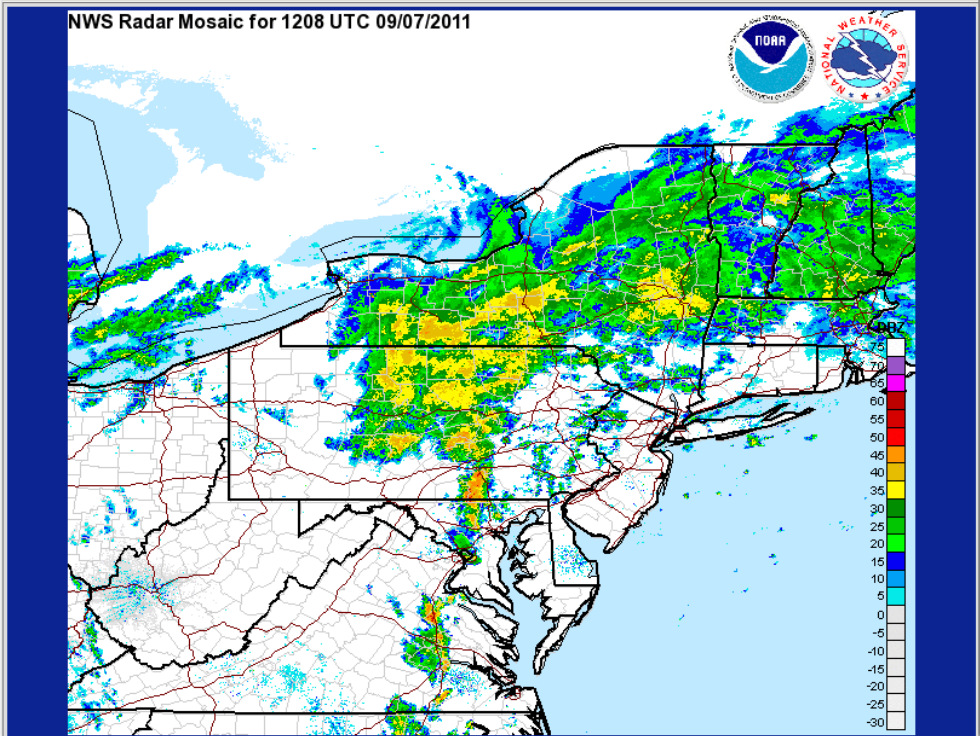
This is a 0.5 Composite Reflectivity loop starting at 08:08 AM EDT (1208 UTC) September 06 and ends at 08:08 AM EDT (1208 UTC) September 07, 2011. Images are from 08 and 38 past the hour.



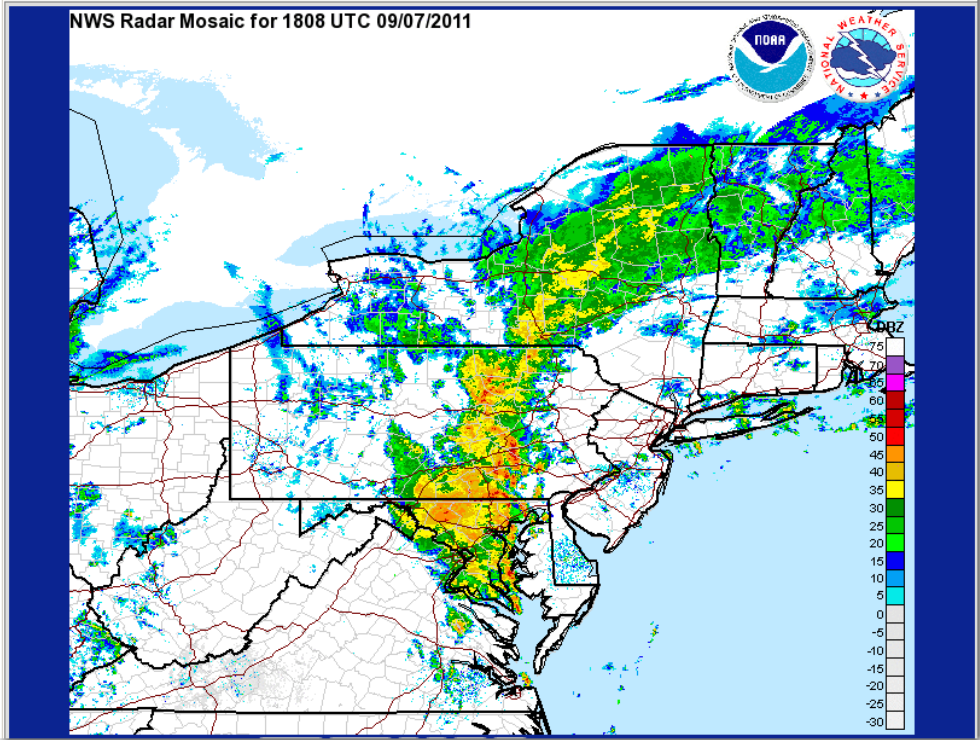
This is a 0.5 Composite Reflectivity loop starting at 08:08 AM EDT (1208 UTC) September 06 and ends at 08:08 AM EDT (1208 UTC) September 07, 2011. Images are from 08 and 38 past the hour.



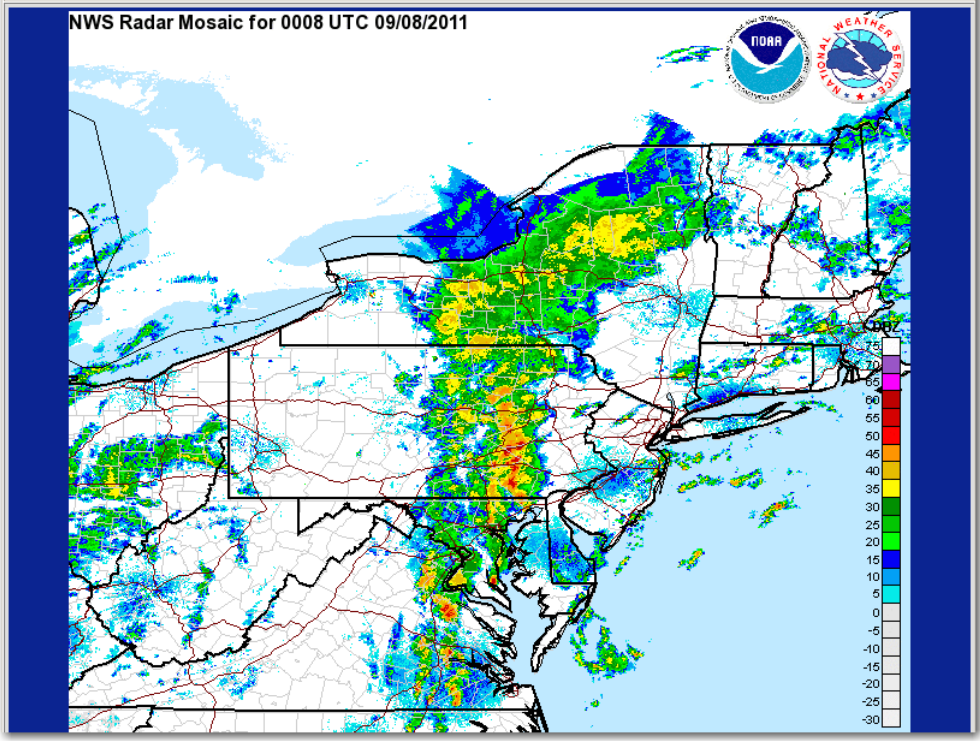
This is a 0.5 Composite Reflectivity loop starting at 08:08 AM EDT (1208 UTC) September 07 and ends at 08:08 AM EDT (1208 UTC) September 08, 2011. Images are from 08 and 38 past the hour.



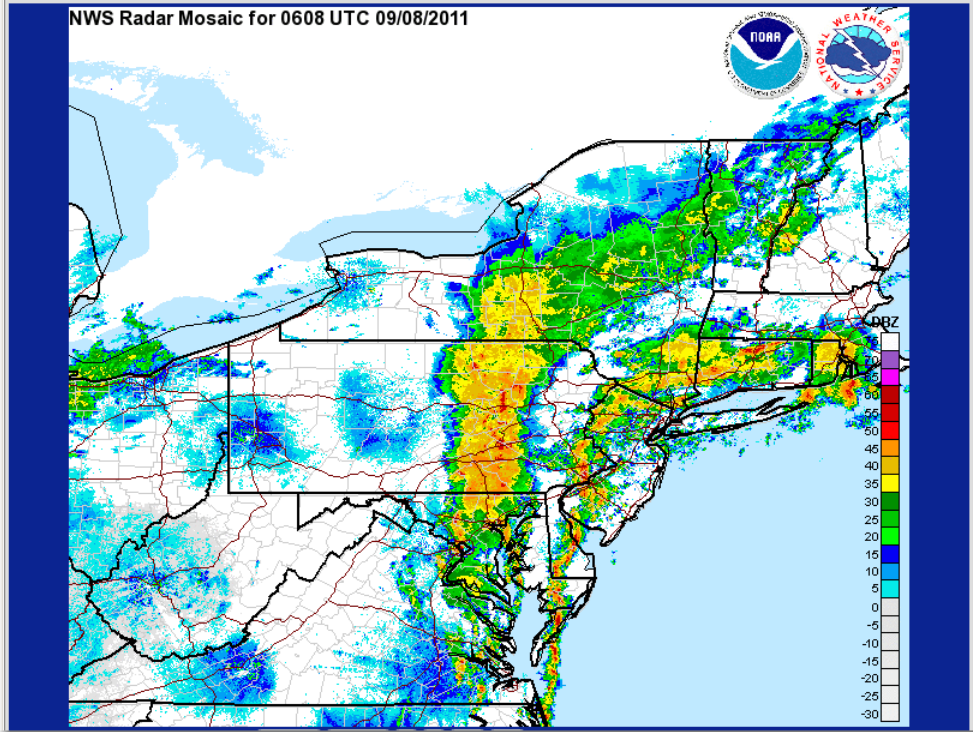
This is a 0.5 Composite Reflectivity loop starting at 08:08 AM EDT (1208 UTC) September 07 and ends at 08:08 AM EDT (1208 UTC) September 08, 2011. Images are from 08 and 38 past the hour.



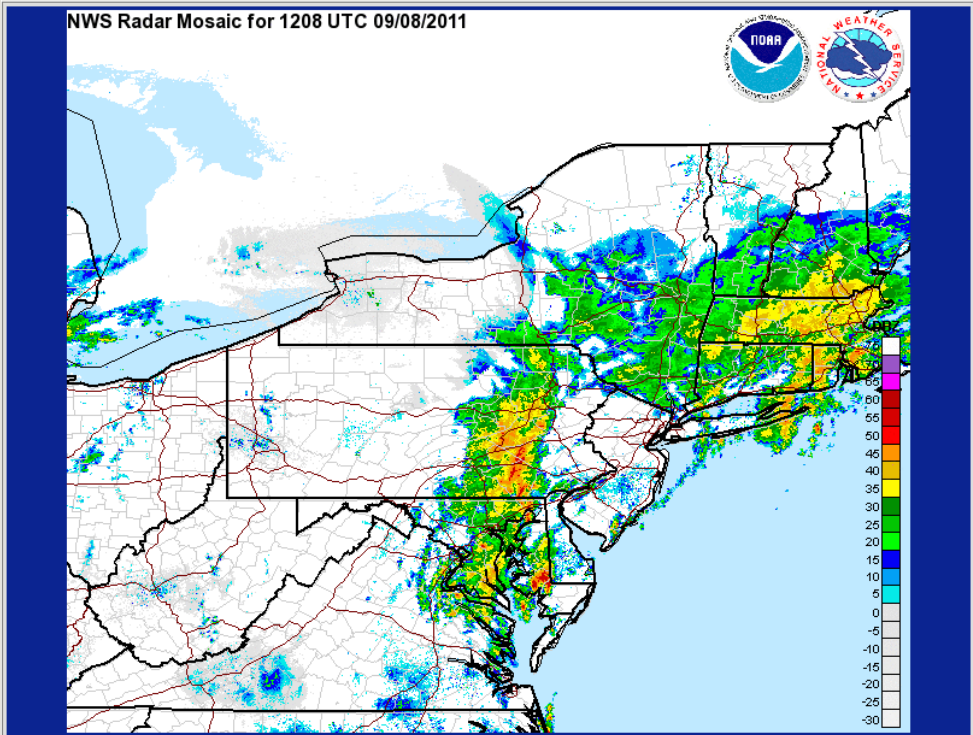
This is a 0.5 Composite Reflectivity loop starting at 08:08 AM EDT (1208 UTC) September 07 and ends at 08:08 AM EDT (1208 UTC) September 08, 2011. Images are from 08 and 38 past the hour.



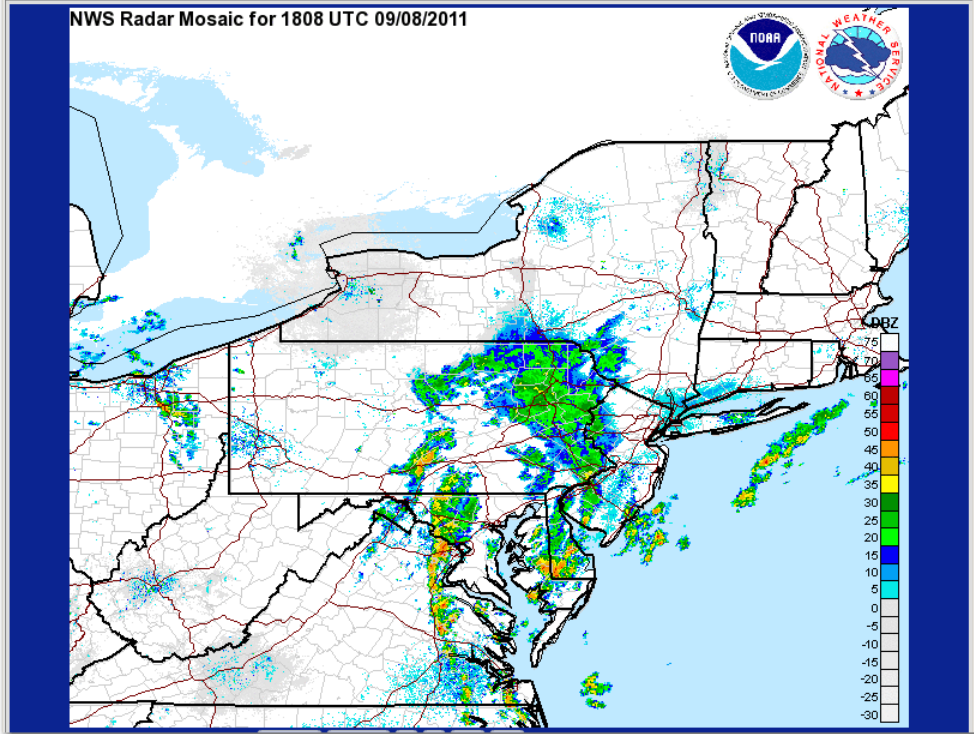
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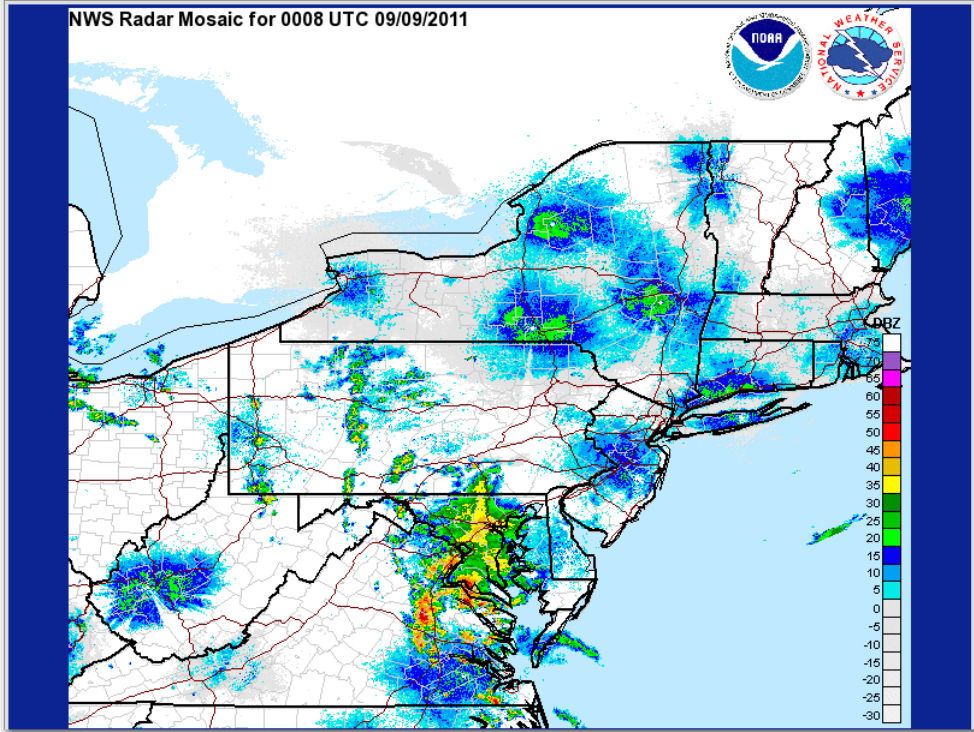
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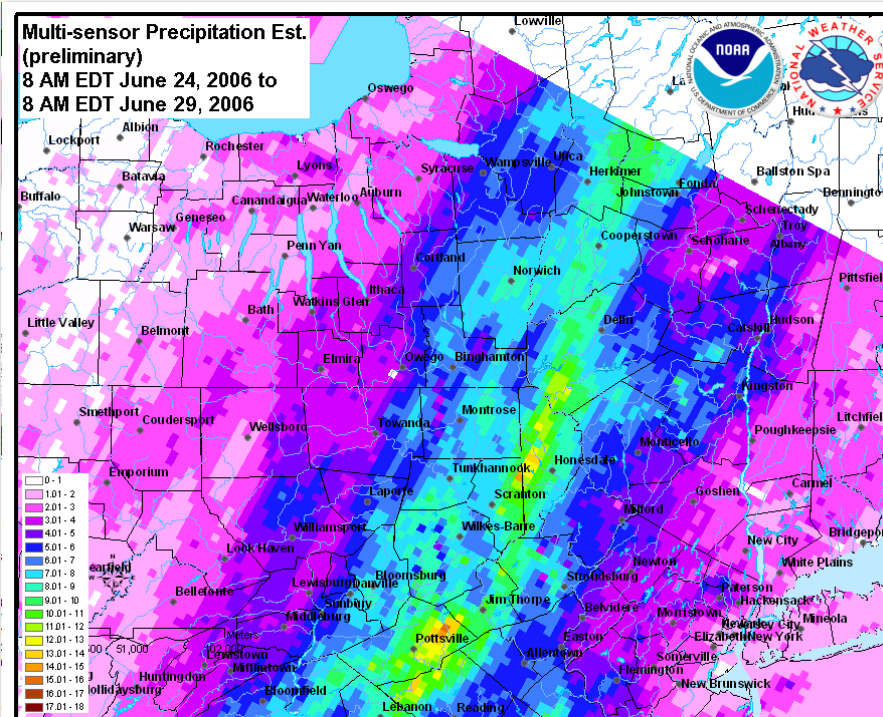
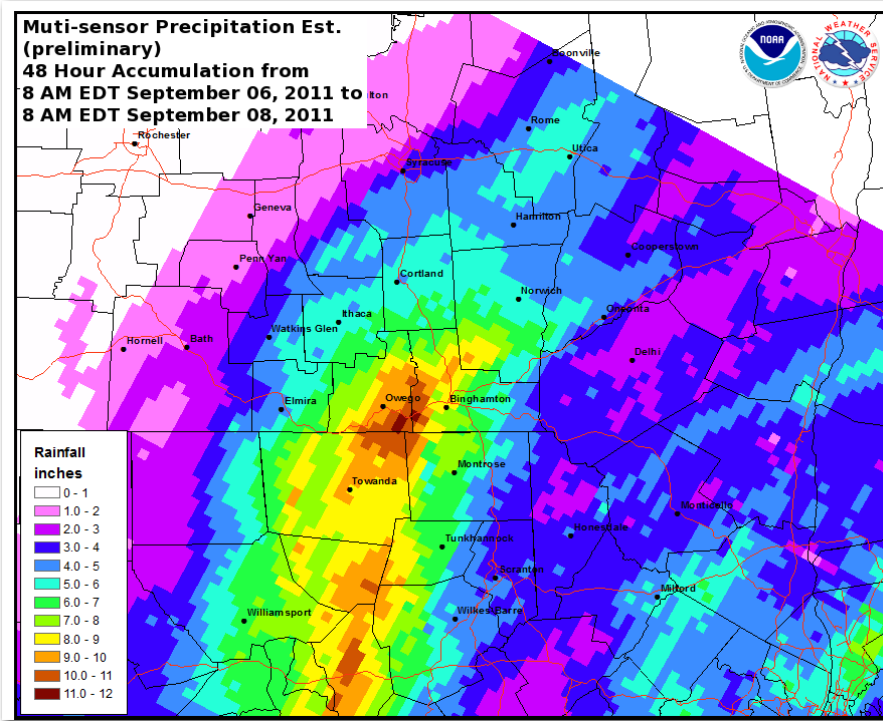
This is a 0.5 Composite Reflectivity loop starting at 08:08 AM EDT (1208 UTC) September 08 and ends at 08:08 AM EDT (1208 UTC) September 09, 2011. Images are from 08 and 38 past the hour.



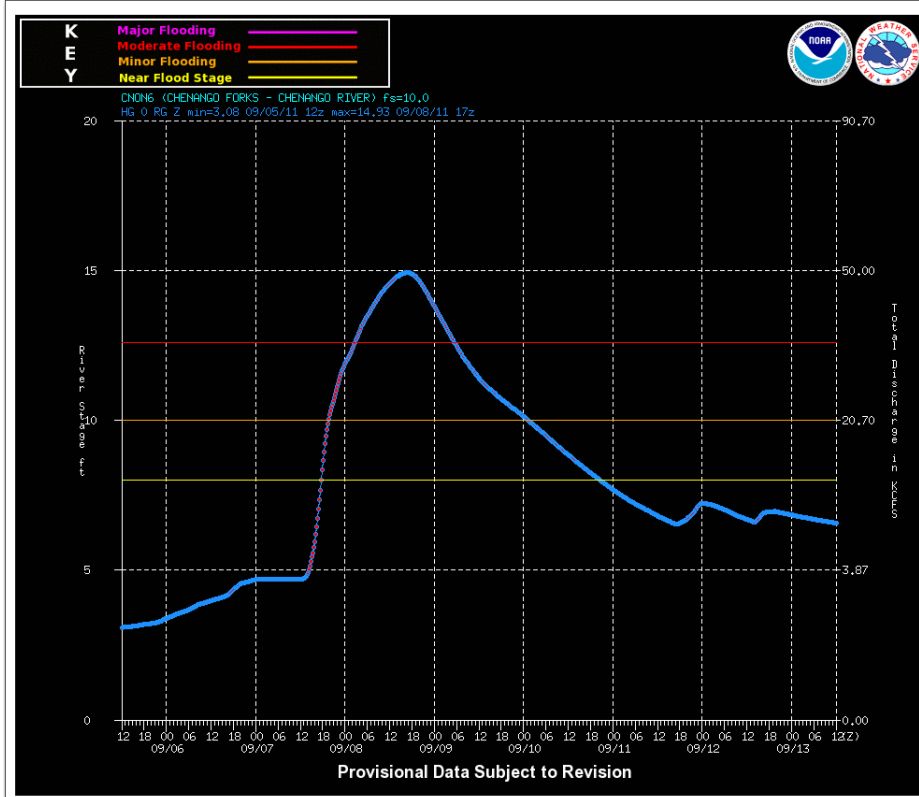
This is a 0.5 Composite Reflectivity loop starting at 08:08 AM EDT (1208 UTC) September 08 and ends at 08:08 AM EDT (1208 UTC) September 09, 2011. Images are from 08 and 38 past the hour.



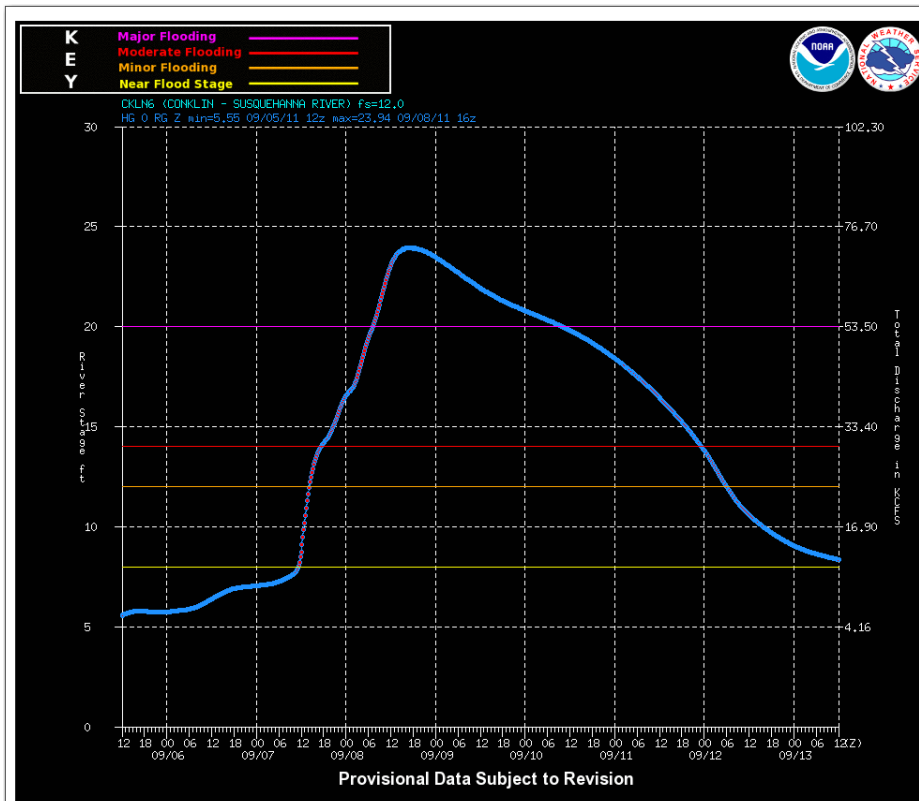
F2B. Total precipitation amounts



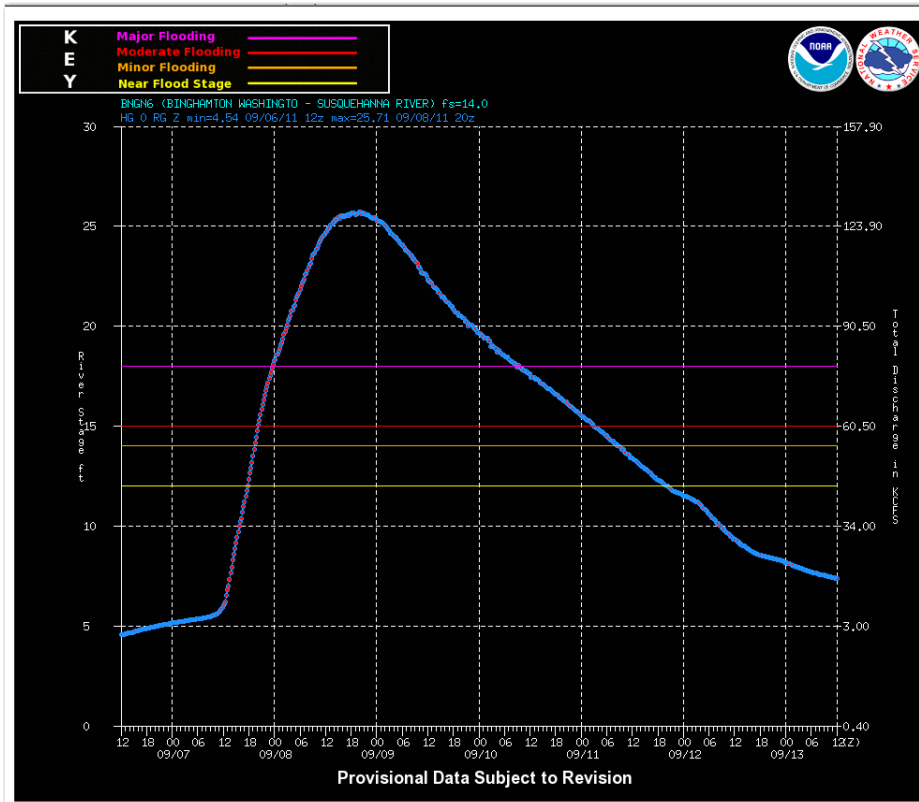
F2C. River levels at various locations



Chenango River at Chenango Forks

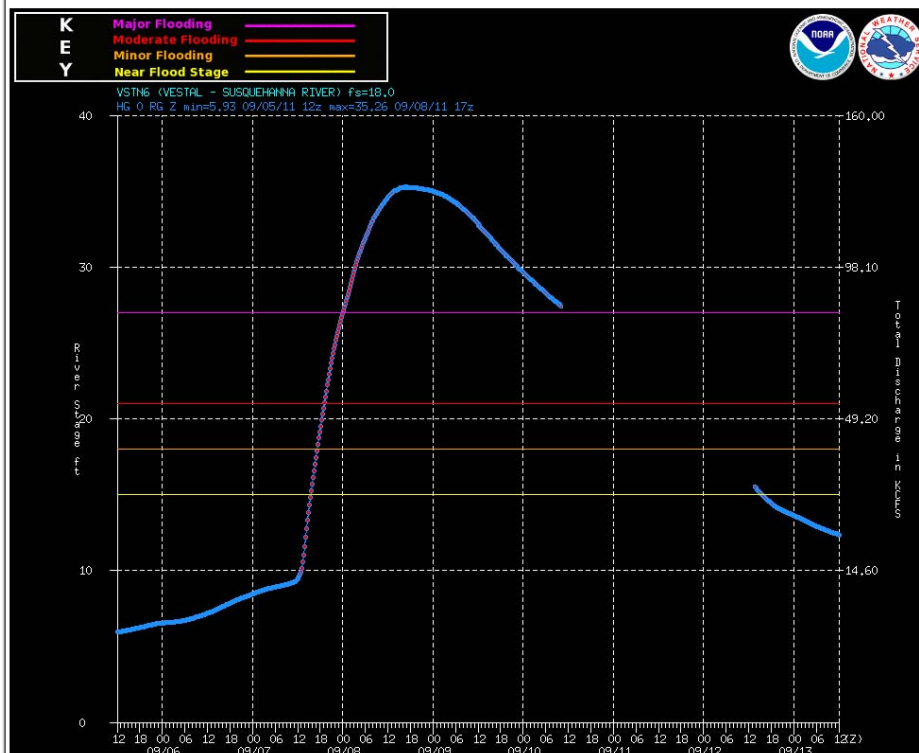


Susquehanna River at Conklin

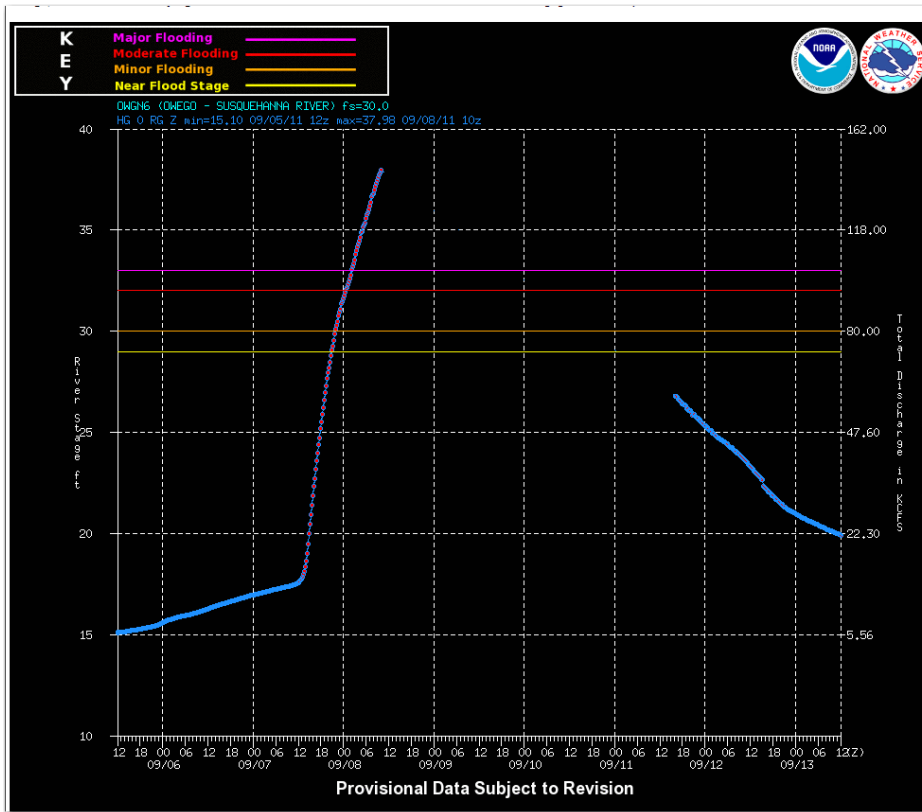


Susquehanna River at Binghamton

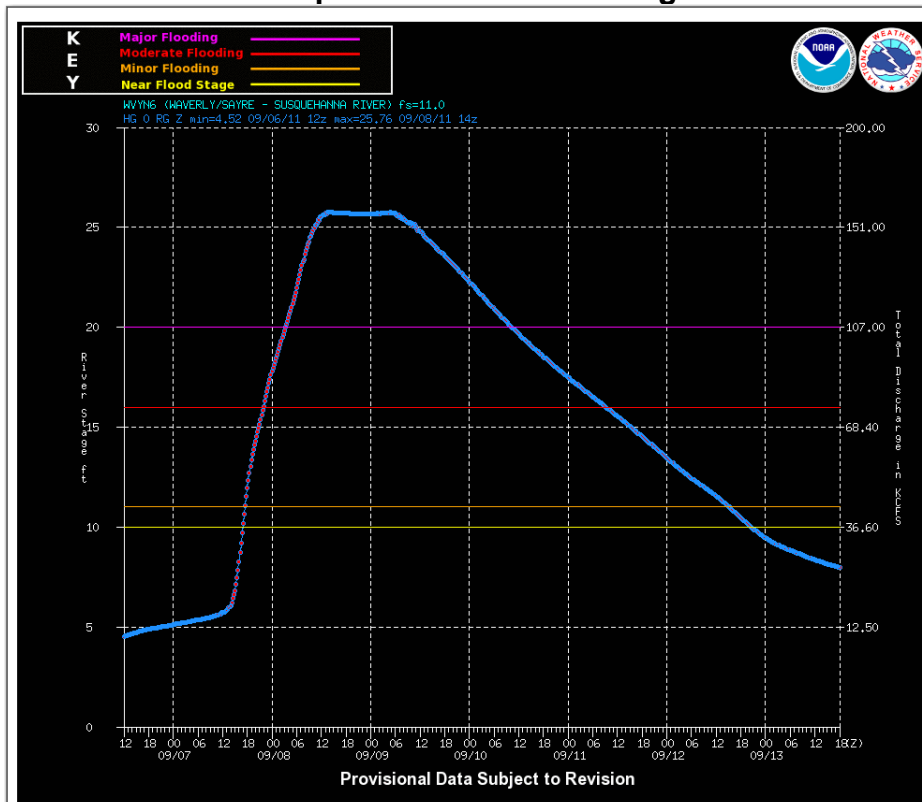
River Gage at Vestal, NY During the September 2011 Flood
 The river gage at Vestal, NY experienced a communication outage. That is why the trace below is missing from about September 10, at 1200 UTC to September 12 at 1200 UTC. Ob



Susquehanna River at Vestal



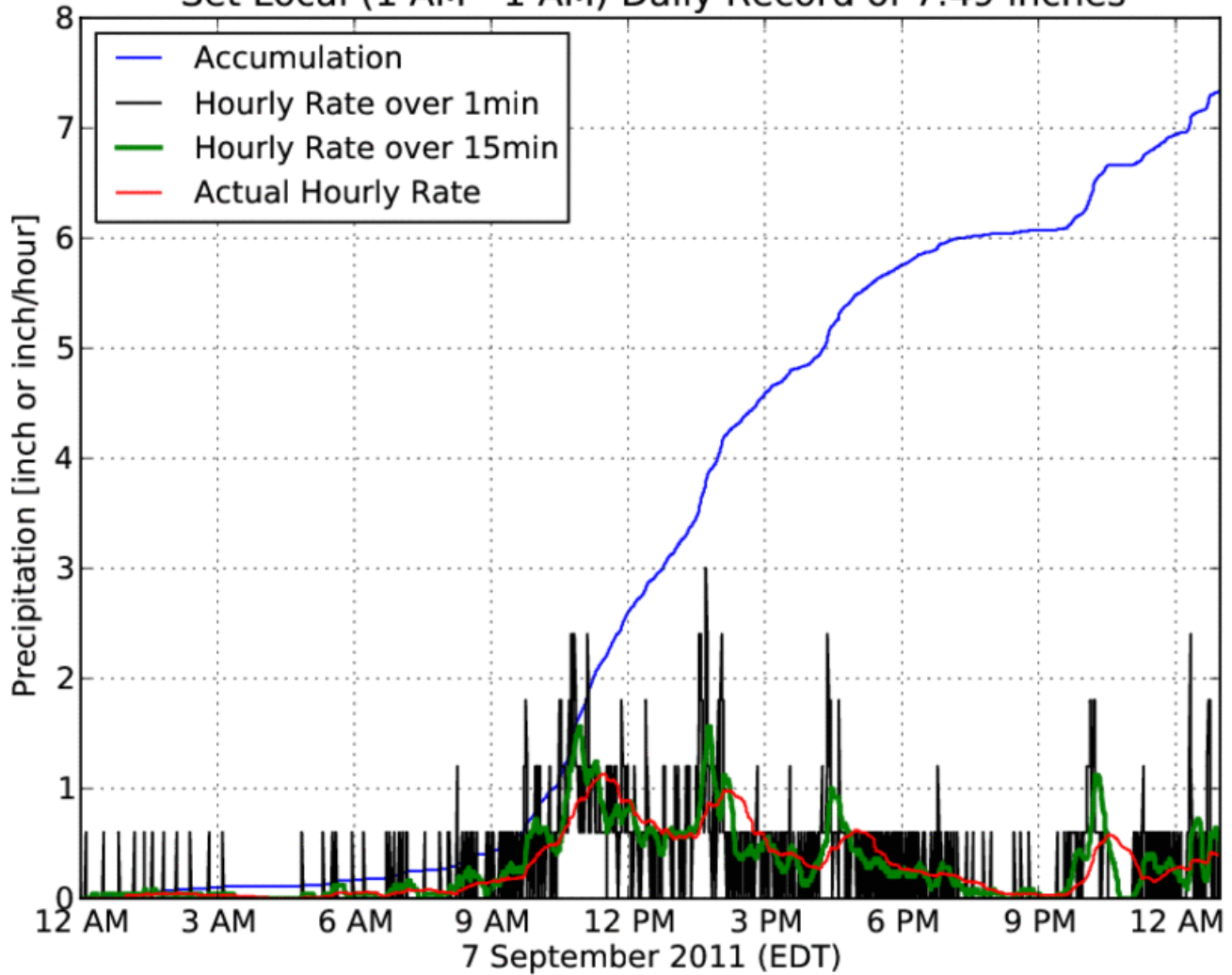
Susquehanna River at Owego



Susquehanna River at Waverly

A graphic that shows various rainfall accumulation rates at the Greater Binghamton Airport.

7 Sep 2011 Binghamton (KBGM) One Minute Rainfall Set Local (1 AM - 1 AM) Daily Record of 7.49 inches



Courtesy Daryl Herzmann

Flood of September 07-08, 2011

THE FOLLOWING ARE 2 DAY RAINFALL REPORTS FOR THE PERIOD FROM TUESDAY EVENING THROUGH THURSDAY MORNING 9/6-9/8. THESE TOTALS PRIMARILY ENCOMPASS THE HEAVY RAINFALL EVENTS AND FLASH FLOODING ON WEDNESDAY SEPTEMBER 7TH. THANK YOU TO ALL COOPERATIVE WEATHER OBSERVERS, COCORAHS, AND OTHER RAINFALL SPOTTER NETWORKS.

*****STORM TOTAL RAINFALL*****

LOCATION	STORM TOTAL RAINFALL /INCHES/	TIME/DATE OF MEASUREMENT	COMMENTS
NEW YORK			
...BROOME COUNTY...			
VESTAL CENTER	9.92	109 PM 9/10	9.92
BINGHAMTON REG ARPT	9.19	1254 PM 9/10	9.19
1 NNW VESTAL CENTER	8.93	110 PM 9/10	8.93
VESTAL CENTER	8.90	1252 PM 9/10	8.90
1 NW PARK TERRACE	8.47	111 PM 9/10	8.47
1 SE KATTELLVILLE	7.74	109 PM 9/10	7.74
1 NW MOUNTAIN VIEW T	7.61	113 PM 9/10	7.61
1 SE MEADOWBROOKE ES	7.36	111 PM 9/10	7.36
DORCHESTER ESTATES	7.06	246 PM 9/10	7.06
DAMASCUS	5.60	108 PM 9/10	5.60
DEPOSIT	4.55	225 PM 9/10	4.55
1 SE GULF SUMMIT	4.42	112 PM 9/10	4.42
...CAYUGA COUNTY...			
PINE HOLLOW	4.39	229 PM 9/10	4.39
2 ESE MONTVILLE	4.03	114 PM 9/10	4.03
1 SE CONKLIN COVE	3.20	114 PM 9/10	3.20
1 NE WILLETS	2.91	219 PM 9/10	2.91
1 E AUBURN	1.68	218 PM 9/10	1.68
1 WNW OAKWOOD	1.38	113 PM 9/10	1.38
1 N SPRING LAKE	0.91	115 PM 9/10	.91
...CHEMUNG COUNTY...			
VAN ETTEN	5.79	117 PM 9/10	5.79
1 SW ROSS TOWN	5.61	116 PM 9/10	5.61
1 ESE ELMIRA	5.49	116 PM 9/10	5.49
1 NNW EAST ELMIRA	5.26	117 PM 9/10	5.26
1 NE WEST ELMIRA	5.03	225 PM 9/10	5.03
1 W BIG FLATS	3.37	118 PM 9/10	3.37
...CHENANGO COUNTY...			
COVENTRY	8.46	1251 PM 9/10	
CHENANGO LAKE	5.77	118 PM 9/10	5.77
2 W PRESTON	5.68	119 PM 9/10	5.68
UPPERVILLE	4.91	120 PM 9/10	4.91
1 W SHERBURNE	4.64	241 PM 9/10	4.65
...CORTLAND COUNTY...			
1 NW HUNTS CORNERS	6.40	105 PM 9/10	6.40
MARATHON	6.04	1252 PM 9/10	
2 SSW WILLET	5.95	125 PM 9/10	5.95
1 NW MARATHON	4.55	126 PM 9/10	4.55

...DELAWARE COUNTY...					
ARKVILLE	4.02	127 PM	9/10	4.02	
1 NW WALTON	3.87	244 PM	9/10	3.87	
3 SE DE LANCEY	3.46	128 PM	9/10	3.46	
SOUTH KORTRIGHT	3.16	128 PM	9/10	3.16	
...MADISON COUNTY...					
2 NNW EARLVILLE	4.33	131 PM	9/10	4.33	
1 SSE ERIEVILLE	4.05	236 PM	9/10	4.05	
2 SW MUNNSVILLE	3.74	132 PM	9/10	3.74	
1 E ABELL CORNERS	3.67	131 PM	9/10	3.67	
1 S CANASTOTA	3.64	130 PM	9/10	3.64	
1 SSE ATWELL CORNERS	3.59	133 PM	9/10	3.59	
1 NNE ONEIDA	3.14	129 PM	9/10	3.14	
...ONEIDA COUNTY...					
1 S NEW HARTFORD	3.71	135 PM	9/10	3.71	
VERNON	3.60	135 PM	9/10	3.60	
DIX	3.54	246 PM	9/10	3.54	
2 E MARCY	3.46	135 PM	9/10	3.46	
1 NNE TRENTON FALLS	3.36	244 PM	9/10	3.36	
1 WNW DUMBARTON	2.92	136 PM	9/10	2.92	
1 NW CANTERBURY HILL	2.78	224 PM	9/10	2.78	
2 NW STACY BASIN	2.73	239 PM	9/10	2.73	
3 SSW WOODGATE	2.08	133 PM	9/10	2.08	
2 SSE REDMOND CORNER	1.98	222 PM	9/10	1.98	
1 SE POINT ROCK	1.92	134 PM	9/10	1.92	
BOONVILLE	1.75	134 PM	9/10	1.75	
...ONONDAGA COUNTY...					
TULLY LAKE PARK	3.95	137 PM	9/10	3.95	
2 NNW POMPEY	3.62	139 PM	9/10	3.62	
DEWITT	3.19	138 PM	9/10	3.19	
2 E MARCELLUS	2.88	139 PM	9/10	2.88	
1 NNE SKYTOP	2.78	138 PM	9/10	2.78	
SYRACUSE HANCOCK ARP	2.65	1256 PM	9/10	2.65	
SKANEATELES	2.27	242 PM	9/10	2.27	
1 W CAMILLUS	1.92	137 PM	9/10	1.92	
1 E THREE RIVERS	1.16	138 PM	9/10	1.16	
BALDWINVILLE	1.13	140 PM	9/10	1.13	
2 NNE OAK ORCHARD	1.08	222 PM	9/10	1.08	
...OTSEGO COUNTY...					
2 N UNADILLA	6.06	244 PM	9/10	6.06	
1 NE ONEONTA	5.13	238 PM	9/10	5.13	
1 N COOPERSTOWN	3.70	223 PM	9/10	3.51	
...SCHUYLER COUNTY...					
1 W ALPINE JUNCTION	4.84	141 PM	9/10	4.84	
2 NE CATHARINE	4.77	142 PM	9/10	4.77	
4 ESE CAYUTA	4.70	101 PM	9/10	4.7	
2 NNW SMITH VALLEY	4.66	231 PM	9/10	4.66	
1 W CAYUTAVILLE	4.48	141 PM	9/10	4.48	
BURDETT	4.43	144 PM	9/10	4.43	
1 SSW READING CENTER	3.73	143 PM	9/10	3.73	
HECTOR	3.62	145 PM	9/10	3.62	
1 W TYRONE	2.19	143 PM	9/10	2.19	
...SENECA COUNTY...					
WATERLOO	1.27	245 PM	9/10	1.27	

...STEBEN COUNTY...					
1 WNW CATON	4.14	145 PM	9/10	4.14	
1 SSW CORNING	3.51	224 PM	9/10	3.51	
SONORA	3.17	147 PM	9/10	3.17	
COOPERS PLAINS	3.12	1251 PM	9/10	3.12	
ADDISON	2.33	218 PM	9/10	2.33	
BATH	2.27	147 PM	9/10	2.27	
1 SW CAMPBELL	2.21	146 PM	9/10	2.21	
2 W HAVERLING HEIGHT	2.06	219 PM	9/10	2.06	
3 ENE WALLACE	1.14	146 PM	9/10	1.14	
1 SW WEBBS CROSSING	0.79	228 PM	9/10	.79	
...SULLIVAN COUNTY...					
WURTSBORO	4.82	149 PM	9/10	4.82	
BLOOMINGBURG	4.34	221 PM	9/10	4.34	
2 NNE NARROWSBURG	4.08	206 PM	9/10	4.08	
3 E MELODY LAKE	3.71	241 PM	9/10	3.71	
2 SSW COCHECTON	3.64	236 PM	9/10	3.64	
2 NW MAMAKATING PARK	3.58	148 PM	9/10	3.58	
1 SSE CLARYVILLE	3.50	103 PM	9/10	3.5	
LONG EDDY	3.17	149 PM	9/10	3.17	
...TIOGA COUNTY...					
TIOGA TERRACE 2	11.24	150 PM	9/10	11.24	
TIOGA TERRACE	10.39	150 PM	9/10	10.39	
1 ENE VALLEY MOBILE	10.31	151 PM	9/10	10.31	
1 NNW PRICE HOME	6.64	152 PM	9/10	6.64	
2 NW BERKSHIRE	6.62	151 PM	9/10		
2 N NEWARK VALLEY	6.30	107 PM	9/10	6.30	
1 WSW UPPER FAIRFIELD	5.86	150 PM	9/10	5.86	
...TOMPKINS COUNTY...					
2 WNW CAROLINE CENTE	5.24	156 PM	9/10	5.24	
2 SSE SLATERVILLE SP	5.17	154 PM	9/10	5.17	
RED MILLS	4.81	153 PM	9/10	4.81	
1 WSW VARNA	4.75	229 PM	9/10	4.75	
1 SSE GROTTO	4.65	155 PM	9/10	4.65	
1 SW RED MILLS	4.62	227 PM	9/10	4.62	
1 NNE NORTH LANSING	3.98	153 PM	9/10	3.98	
GROTON	3.95	153 PM	9/10	3.95	
SOUTH HILL	3.45	154 PM	9/10	3.45	
...YATES COUNTY...					
PENN YAN REG ARPT	1.34	1258 PM	9/10	1.34	

F3. Summary of Weather Briefings/Conference Calls

Atmos Forecast : Covers the NYSEG and RG&E Service Areas and NYS	
Date/Time	Weather Information
9/04 – 8 PM Email Update	<p><u>Tonight:</u></p> <p>Three very hot squall lines: Oneonta to Ticonderoga, Hudson to Pennington VT, and Barton to Berkshire NY. These will arc to the ENE at 30 mph during the next 3-5 hours. Several cells could generate gust to 50 mph, hail to 1", and rainfall to 1" within 15 minutes along with moderate cloud to ground lightning.</p> <p>Other scattered storms will traverse the state with none other than cloud to ground lightning and brief downpours. All storms will collapse after 10PM, showers remaining.</p> <p><u>Tomorrow:</u></p> <p>As the front slowly traverses NY tomorrow a tropical connection will become established. The vestiges of Tropical Storm Lee will become integrated. A swath of 2"-3" can be expected from just north of Elmira to the Adirondacks, a reduction from previous outlooks: very encouraging. Locally greater accumulations are possible from Lake Placid to Plattsburgh. Less rain will fall to the east and west of this axis, a positive trend. There is only a minimal threat of thunder south and east of Glens Falls and Binghamton. The rain will exit the service area from west to east rapidly Tuesday morning.</p>
9/04 – 12 PM Email Update	<p><u>This Afternoon:</u></p> <p>Several squall lines are pressing east at 30 mph. One is exiting the eastern border of NY: another is decaying from Syracuse to Elmira. No severe weather is anticipated. A large cluster will enter the Liberty service area around 11AM and may contain heavy rain and gusts to 40 mph along with moderate frequency of cloud to ground lightning.</p> <p>The next round of storms will blossom after 2PM as the low clouds melt away and the atmosphere destabilizes: the entire state under the gun. There is a severe weather potential from a few of these storms, the highest risk I-81 east, perhaps excluding the Brewster service area, and shall update later this afternoon. Damaging winds and small hail the concern, storms losing their punch after sunset, expiring by 11PM. There is a very low risk of an isolated tornado north of Glens Falls 50 miles and greater east of Lake Ontario to the VT border through this evening as well.</p> <p><u>Tomorrow:</u></p> <p>Excessive rainfall is expected to expand of much of NY west of Plattsburgh, Utica and Binghamton with heavy showers farther east as a front will plod through the state. This will be quite a rainmaker as a tropical connection will become established. There is only a minimal threat of thunder south and east of Glens Falls and Binghamton. By midnight a swath of 2"+ will accumulate from the Adirondacks southwest to Elmira.</p> <p>Heavy rain will shift to eastern NY later Monday night easing early Tuesday as the relics of Tropical Storm Lee sweep into the Northeast. Event totals may approach 3" along the I-81 corridor northeast into Lake Placid. Expect less than 2" Rochester Corning west, 1"-2" through the Catskills and Albany south through the Brewster service area.</p>
9/06 - 5:30 AM Email Update	<p>The prospect of another major rain event looms large.</p> <p>The deluge will ramp up today, easing midday Thursday. The relics of "Lee" contribute to the morass. The potential for 2"-4" along and south of I-90 during this 48 hour period is quite real. Only Liberty and Brewster service areas as</p>

Atmos Forecast : Covers the NYSEG and RG&E Service Areas and NYS	
Date/Time	Weather Information
	well as the northern Adirondacks, the St. Lawrence and Champlain Valleys would receive less than 2".
9/6 – 11:30 AM Email Update	<p>Brace yourself: another major rain event looms large for portions of the service area.</p> <p>The next soggy siege will commence later today, not easing until later Thursday. The relics of "Lee" contribute to the deluge.</p> <p>Expect 2"-4" along and south of I-90 during the next 48+ hours. There is a low threat of up to 6" along the southern border west of I-81 and east of I-390. The focus will be east tomorrow and west Thursday. Only the Adirondacks, the St. Lawrence and Champlain Valleys as well as the Niagara Frontier will collect less than 2".</p>
9/07 – 6:00 AM Email Update	<p>Additional heavy rain can be expected today. The gradient will be very tight.</p> <p>Another 3" will accumulate along the southern border from Binghamton to Jamestown through midday tomorrow, with the possibility of an isolated 5" near the southern Finger Lakes. Expect 1"-2" from Albany to Dunkirk, with less than one inch additional north of Schuyler Falls, Watertown, Syracuse and Buffalo. The other dry slot will be south of Kingston to Liberty where additional rainfall will not exceed 1".</p> <p>The focus will be from Elmira east through midday today and west early tomorrow through noon.</p> <p>There will be a few scattered non-severe thunderstorms south of I-90 during the next 12 hours.</p>
9/07 – 5:00 PM Email Update	<p>The end is near. The heaviest rain, that is.</p> <p>The spigot will slowly close on the tropical conduit of water very tightly aligned north-south over central NY tonight.</p> <p>Another 2" will accumulate in a 100 mile wide band east of Rochester and Elmira to Utica and Binghamton. Far less rain will fall east and west of this region.</p> <p>Wind will not be a concern. A few scattered non-severe thunderstorms will slowly disappear south of I-90 in this corridor during the next 2-4 hours.</p>
9/08 – 2:45 AM Email Update	<p>A very localized final pulse of downpours must be endured through mid afternoon today within 75 miles of all sides of Binghamton. Expect an additional 1.1"-2.2" in this region with attendant flooding issues.</p> <p>Another plume of tropical moisture containing non-severe thunderstorms will affect southeast NY. The areas of concern are the entire Hudson valley south of Albany, the Taconics and the eastern Catskills including the Liberty service areas. 1.0"-1.5" will fall through early afternoon.</p>

Summary of Weather Briefings/Conference Calls National Weather Service

Date / Time	Description
9/07 – 11:40 AM	<p>Ponding of water in roads, fields, yards and possible isolated/scattered basement flooding due to VERY saturated grounds and high water tables and some creeks, streams rising but no immediate concerns of significant flooding. Nonetheless, the situation remains fluid with a moderate confidence level and monitoring future forecasts and waterways is essential.</p> <p>BTW...there has been some raised concern of Lake Champlain Level. Despite widespread 4-6 inches during Irene, the lake only rose just over 2 feet and today was 98.2 feet (<2 feet below flood stage) Right now, we STILL anticipate an approach to 99 feet but would likely need to see widespread 3-4 inches to threaten flood stage.</p>
9/07 – 2:28 PM	<p>THE NATL WEATHER SVC IN BINGHAMTON HAS ISSUED A</p> <p>* FLASH FLOOD WARNING FOR. BROOME COUNTY IN CNTL NY. CHEMUNG COUNTY IN CNTL NY. CHENANGO COUNTY IN CNTL NY. CORTLAND COUNTY IN CNTL NY. OTSEGO COUNTY IN CNTL NY. TIOGA COUNTY IN CNTL NY. BRADFORD COUNTY IN NE PA. WESTERN LUZERNE COUNTY IN NE PA. SUSQUEHANNA COUNTY IN NE PA. WYOMING COUNTY IN NE PA.</p> <p>* UNTIL 815 PM EDT</p> <p>* AT 218 PM EDT.NATL WEATHER SVC DOPPLER RADAR INDICATED AN AREA OF EXCESSIVE RAINFALL OVER THE WARNED AREA. A BAND OF VERY HEAVY RAINFALL CONTINUES TO FEED NORTHWARD ACROSS THE WARNING AREA. THIS PATTERN SHOULD CONTINUE FOR SEVERAL MORE HRS.AT LEAST.WITH EXISTING FLOOD PROBLEMS ONLY WORSENING.</p> <p>SEVERAL LOCAL & STATE GOVERNMENTS HAVE ALSO DECLARED STATES OF EMERGENCY. UNNECESSARY TRAVEL IS HIGHLY DISCOURAGED.</p>
9/07 – 4:00 PM Flood Warning	<p>SUSQUEHANNA RIVER AT OWEGO AFFECTING TIOGA COUNTY SUSQUEHANNA RIVER AT UNADILLA AFFECTING DE & OTSEGO COUNTIES SUSQUEHANNA RIVER NEAR WINDSOR AFFECTING BROOME COUNTY CHENANGO RIVER AT SHERBURNE AFFECTING CHENANGO COUNTY CHENANGO RIVER AT GREENE AFFECTING CHENANGO COUNTY CHENANGO RIVER AT CHENANGO FORKS AFFECTING BROOME COUNTY UNADILLA RIVER AT ROCKDALE AFFECTING CHENANGO & OTSEGO COUNTIES TIOUGHNIAGA RIVER AT CORTLAND AFFECTING CORTLAND COUNTY OTSELIC RIVER AT CINCINNATUS AFFECTING CORTLAND COUNTY FORECAST FLOODING CHANGED FROM MODERATE TO MAJOR SEVERITY FOR THE FOLLOWING RIVERS IN NY.PA. SUSQUEHANNA RIVER AT CONKLIN AFFECTING BROOME & SUSQUEHANNA COUNTIES FORECAST FLOODING CHANGED FROM</p>

Date / Time	Description
	<p>MODERATE TO MAJOR SEVERITY FOR THE FOLLOWING RIVERS IN NY.PA.</p> <p>SUSQUEHANNA RIVER AT VESTAL AFFECTING BROOME & TIOGA COUNTIES FORECAST FLOODING CHANGED FROM MINOR TO MAJOR SEVERITY FOR THE FOLLOWING RIVERS IN NY.</p> <p>SUSQUEHANNA RIVER AT BAINBRIDGE AFFECTING CHENANGO & DE COUNTIES FORECAST FLOODING CHANGED FROM MAJOR TO RECORD SEVERITY FOR THE FOLLOWING RIVERS IN NY.</p> <p>SUSQUEHANNA RIVER AT BINGHAMTON WA STREET AFFECTING BROOME COUNTY PRECAUTIONARY/PREPAREDNESS ACTIONS.</p>
9/08 – 3:52 AM	<p>THE FLOOD WARNING CONTINUES FOR THE FOLLOWING RIVERS IN NEW YORK.PA.</p> <p>SUSQUEHANNA RIVER AT OWEGO AFFECTING TIOGA COUNTY</p> <p>SUSQUEHANNA RIVER AT UNADILLA AFFECTING DE & OTSEGO COUNTIES</p> <p>SUSQUEHANNA RIVER NEAR WINDSOR AFFECTING BROOME COUNTY</p> <p>SUSQUEHANNA RIVER AT BAINBRIDGE AFFECTING CHENANGO & DE COUNTIES</p> <p>SUSQUEHANNA RIVER AT CONKLIN AFFECTING BROOME & SUSQUEHANNA COUNTIES</p> <p>SUSQUEHANNA RIVER AT BINGHAMTON WA STREET AFFECTING BROOME COUNTY</p> <p>SUSQUEHANNA RIVER AT VESTAL AFFECTING BROOME & TIOGA COUNTIES</p> <p>SUSQUEHANNA RIVER AT WAVERLY/SAYRE AFFECTING TIOGA & BRADFORD COUNTIES</p> <p>CHENANGO RIVER AT CHENANGO FORKS AFFECTING BROOME COUNTY</p> <p>SUSQUEHANNA RIVER AT TOWANDA AFFECTING BRADFORD COUNTY</p> <p>SUSQUEHANNA RIVER AT MESHOPPEN AFFECTING WYOMING COUNTY</p> <p>SUSQUEHANNA RIVER NEAR WILKES-BARRE AFFECTING LUZERNE COUNTY</p> <p>EAST BRANCH DE AT HARVARD AFFECTING DE COUNTY</p> <p>FALL CREEK AT ITHACA AFFECTING TOMPKINS COUNTY</p> <p>ONEIDA CREEK AT ONEIDA AFFECTING MADISON & ONEIDA COUNTIES</p> <p>PRECAUTIONARY/PREPAREDNESS ACTIONS.</p>

Date / Time	Description
9/08/11 – 9:23 PM	<p>THE FLOOD WARNING CONTINUES FOR THE SUSQUEHANNA RIVER AT OWEGO. * AT 6:00 AM THUR THE STAGE WAS 38.0 FEET. * FLOOD STAGE IS 30.0 FEET. * RECORD FLOODING IS OCCURRING & RECORD FLOODING IS FORECAST. * FORECAST.THE RIVER WILL CONTINUE RISING TO NEAR 39.8 FEET THIS EVENING. THE RIVER WILL FALL BELOW FLOOD STAGE SUN MORNING.</p> <p>THE FLOOD WARNING CONTINUES FOR THE SUSQUEHANNA RIVER AT UNADILLA. * AT 2:00 PM THUR THE STAGE WAS 15.9 FEET. * FLOOD STAGE IS 11.0 FEET. * MAJOR FLOODING IS OCCURRING & MAJOR FLOODING IS FORECAST. * FORECAST.THE RIVER WILL CONTINUE RISING TO NEAR 16.3 FEET AROUND MIDNIGHT TONIGHT THEN BEGIN FALLING.</p> <p>THE FLOOD WARNING CONTINUES FOR THE SUSQUEHANNA RIVER NEAR WINDSOR. * AT 1:30 PM THUR THE STAGE WAS 24.1 FEET. * FLOOD STAGE IS 17.0 FEET. * MAJOR FLOODING IS OCCURRING & MAJOR FLOODING IS FORECAST. * FORECAST.THE RIVER WILL CONTINUE RISING TO NEAR 26.0 FEET FRI MORNING THEN BEGIN FALLING.</p> <p>THE FLOOD WARNING CONTINUES FOR THE SUSQUEHANNA RIVER AT BAINBRIDGE. * AT 1:30 PM THUR THE STAGE WAS 25.7 FEET. * FLOOD STAGE IS 15.0 FEET. * MAJOR FLOODING IS OCCURRING & MAJOR FLOODING IS FORECAST. * FORECAST.THE RIVER WILL CONTINUE RISING TO NEAR 26.7 FEET THIS EVENING THEN BEGIN FALLING.</p> <p>THE FLOOD WARNING CONTINUES FOR THE SUSQUEHANNA RIVER AT CONKLIN. * AT 2:00 PM THUR THE STAGE WAS 23.9 FEET. * FLOOD STAGE IS 12.0 FEET. * MAJOR FLOODING IS OCCURRING & MAJOR FLOODING IS FORECAST. * FORECAST.THE RIVER WILL CONTINUE RISING TO NEAR 25.0 FEET AROUND MIDNIGHT TONIGHT THEN BEGIN FALLING.</p> <p>THE SUSQUEHANNA RIVER AT BINGHAMTON WA STREET. * AT 1:45 PM THUR THE STAGE WAS 25.6 FEET. * FLOOD STAGE IS 14.0 FEET. * RECORD FLOODING IS OCCURRING & RECORD FLOODING IS FORECAST. * FORECAST.THE RIVER WILL CONTINUE RISING TO NEAR 26.2 FEET THIS EVENING THEN BEGIN FALLING.</p> <p>THE FLOOD WARNING CONTINUES FOR THE SUSQUEHANNA RIVER AT VESTAL. * AT 2:00 PM THUR THE STAGE WAS 35.2 FEET. * FLOOD STAGE IS 18.0 FEET. * RECORD FLOODING IS OCCURRING & RECORD FLOODING IS FORECAST. * FORECAST.THE RIVER IS CRESTING NOW & WILL FALL SLOWLY FRIDAY INTO THE WEEKEND.BUT STILL ABOVE FLOOD STAGE.</p>
9/08 – 3:44 AM	<p>THE FLOOD WARNING CONTINUES FOR THE SUSQUEHANNA RIVER AT OWEGO. * AT 3:00 AM FRI THE STAGE WAS MISSING * FLOOD STAGE IS 30.0 FEET. * RECORD FLOODING IS OCCURRING & RECORD FLOODING IS FORECAST. * FORECAST.THE RIVER WILL CONTINUE TO FALL TO BELOW FLOOD STAGE BY LATE SAT EVENI</p>

Date / Time	Description
	<p>THE FLOOD WARNING CONTINUES FOR THE SUSQUEHANNA RIVER AT UNADILLA. * AT 3:00 AM FRI THE STAGE WAS 16.2 FEET. * FLOOD STAGE IS 11.0 FEET. * MAJOR FLOODING IS OCCURRING & MAJOR FLOODING IS FORECAST. * FORECAST.THE RIVER WILL CONTINUE TO FALL TO A STAGE OF 13.7 FEET BY SAT MORNING.</p> <p>THE FLOOD WARNING CONTINUES FOR THE SUSQUEHANNA RIVER NEAR WINDSOR. * AT 3:30 AM FRI THE STAGE WAS 24.0 FEET. * FLOOD STAGE IS 17.0 FEET. * MAJOR FLOODING IS OCCURRING & MAJOR FLOODING IS FORECAST. * FORECAST.THE RIVER WILL REMAIN NEARLY STEADY THIS MORNING.THEN FALL TO NEAR 19.2 FEET BY LATE SAT AFTERNOON.</p> <p>THE FLOOD WARNING CONTINUES FOR THE SUSQUEHANNA RIVER AT BAINBRIDGE. * AT 2:30 AM FRI THE STAGE WAS 26.0 FEET. * FLOOD STAGE IS 15.0 FEET. * MAJOR FLOODING IS OCCURRING & MAJOR FLOODING IS FORECAST. * FORECAST.THE RIVER WILL CONTINUE TO FALL TO A STAGE OF 21.1 FEET BY SAT MORNING.</p> <p>THE FLOOD WARNING CONTINUES FOR THE SUSQUEHANNA RIVER AT CONKLIN. * AT 3:00 AM FRI THE STAGE WAS 22.5 FEET. * FLOOD STAGE IS 12.0 FEET. * MAJOR FLOODING IS OCCURRING & MAJOR FLOODING IS FORECAST. * FORECAST.THE RIVER WILL RISE SLIGHTLY TO NEAR 22.7 FEET THIS MORNING.THEN FALL TO NEAR 14.1 FEET BY LATE SAT AFTERNOON.</p> <p>THE FLOOD WARNING CONTINUES FOR THE SUSQUEHANNA RIVER AT BINGHAMTON WA STREET. * AT 2:45 AM FRI THE STAGE WAS 23.8 FEET. * FLOOD STAGE IS 14.0 FEET. * MAJOR FLOODING IS OCCURRING & MODERATE FLOODING IS FORECAST. * FORECAST.THE RIVER WILL CONTINUE TO SLOWLY FALL.</p> <p>THE FLOOD WARNING CONTINUES FOR THE SUSQUEHANNA RIVER AT VESTAL. * AT 3:00 AM FRI THE STAGE WAS 34.0 FEET. * FLOOD STAGE IS 18.0 FEET. * RECORD FLOODING IS OCCURRING & MAJOR FLOODING IS FORECAST. * FORECAST.THE RIVER WILL CONTINUE TO FALL TO BELOW FLOOD STAGE BY EARLY MON MORNING.</p>
9/08 - 8:29 AM	<p>THE NATL WEATHER SVC IN BINGHAMTON HAS CONTINUED THE</p> <p>* FLASH FLOOD WARNING FOR. BROOME COUNTY IN CNTL NY. CHEMUNG COUNTY IN CNTL NY. CHENANGO COUNTY IN CNTL NY. CORTLAND COUNTY IN CNTL NY. OTSEGO COUNTY IN CNTL NY. TIOGA COUNTY IN CNTL NY. BRADFORD COUNTY IN NE PA. SUSQUEHANNA COUNTY IN NE PA. WYOMING COUNTY IN NE PA.</p>

Date / Time	Description
	* UNTIL 230 PM EDT THURSDAY
9/09 – 3:46 AM	<p>SUSQUEHANNA RIVER AT OWEGO AFFECTING TIOGA COUNTY SUSQUEHANNA RIVER AT VESTAL AFFECTING BROOME & TIOGA COUNTIES CHENANGO RIVER AT SHERBURNE AFFECTING CHENANGO COUNTY CHENANGO RIVER AT GREENE AFFECTING CHENANGO COUNTY CHENANGO RIVER AT CHENANGO FORKS AFFECTING BROOME COUNTY UNADILLA RIVER AT ROCKDALE AFFECTING CHENANGO & OTSEGO COUNTIES TIOUGHNIAGA RIVER AT CORTLAND AFFECTING CORTLAND COUNTY SUSQUEHANNA RIVER AT TOWANDA AFFECTING BRADFORD COUNTY SUSQUEHANNA RIVER AT MESHOPPEN AFFECTING WYOMING COUNTY SUSQUEHANNA RIVER NEAR WILKES-BARRE AFFECTING LUZERNE COUNTY THE FLOOD WARNING CONTINUES FOR THE FOLLOWING RIVERS IN NEW YORK.PA..</p> <p>SUSQUEHANNA RIVER AT UNADILLA AFFECTING DE & OTSEGO COUNTIES SUSQUEHANNA RIVER NEAR WINDSOR AFFECTING BROOME COUNTY SUSQUEHANNA RIVER AT BAINBRIDGE AFFECTING CHENANGO & DE COUNTIES SUSQUEHANNA RIVER AT CONKLIN AFFECTING BROOME & SUSQUEHANNA COUNTIES SUSQUEHANNA RIVER AT BINGHAMTON WA STREET AFFECTING BROOME COUNTY SUSQUEHANNA RIVER AT WAVERLY/SAYRE AFFECTING TIOGA & BRADFORD COUNTIES PRECAUTIONARY/PREPAREDNESS ACTIONS.</p>