

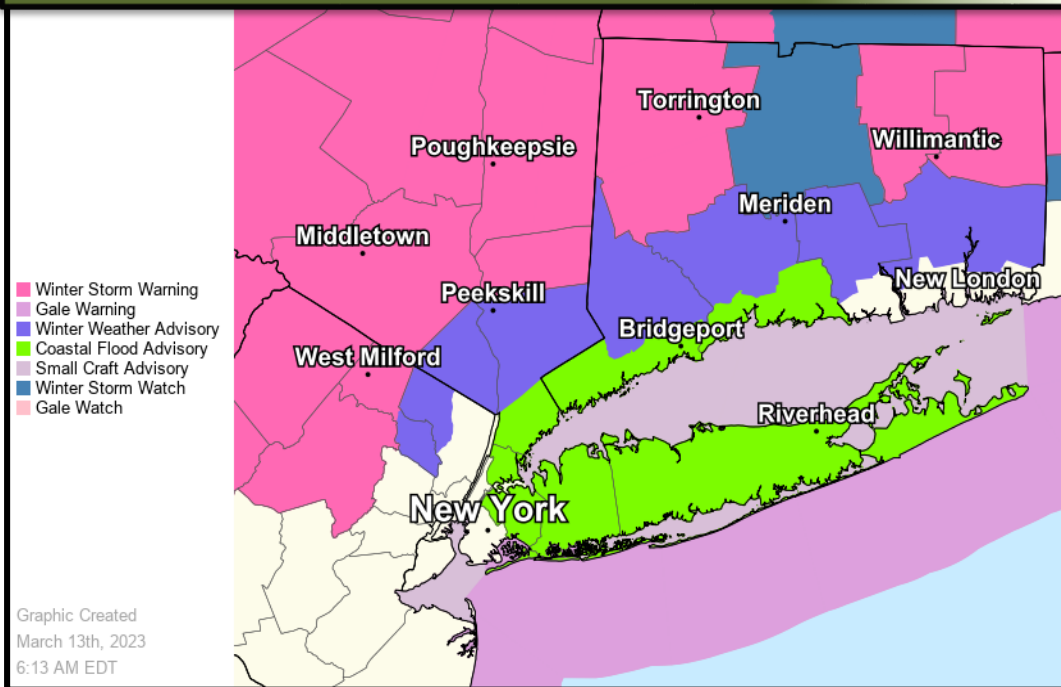
Nor'easter Today into Tomorrow Night...

Briefing #2






What's Changed?

- Winter Storm Warnings are now in effect for Orange and Putnam Counties, NY and Western Passaic, NJ.
- Winter Weather Advisories for E. Passaic, and W. Bergen NJ, Rockland and N Westchester in NY, and N. Fairfield, N. Middlesex, N. New Haven and N. New London counties in CT.
- Coastal flood advisories remain in effect for much of the coast for tonight's/tomorrow morning's high tides.

Current Hazards

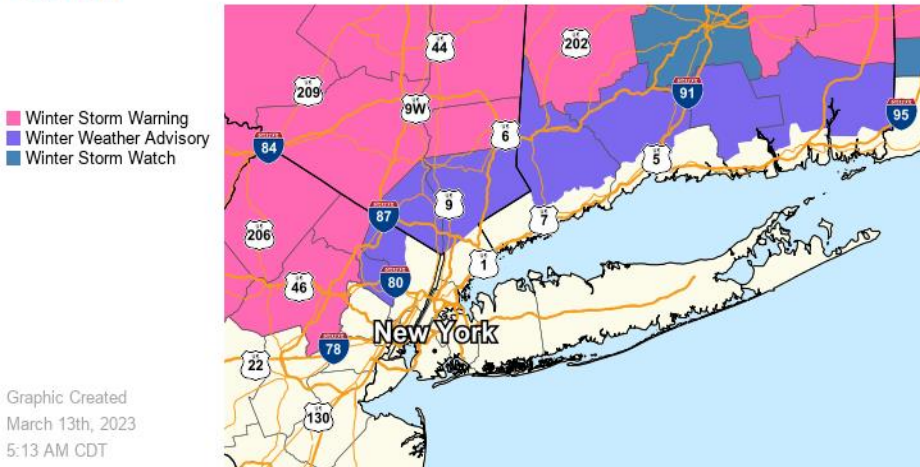


Main Points – Nor'Easter

Hazard	Impacts	Location	Timing
Heavy Snow 5-10" likely, locally 1ft-possible above 750ft Winter Storm Warning 	<ul style="list-style-type: none"> Snowfall Rates of 1-2"/hr likely Tonight into Tomorrow AM Scattered to numerous downed tree limbs and powerlines Difficult travel 	Interior portions of Lower Hud and NE NJ. Highest impact across elevations above 500 ft.	<ul style="list-style-type: none"> Rain changing to snow aft midnight Periods of heavy snow Tonight into Tomorrow Snow tapering late Tomorrow
Heavy Rain to Snow 2-2 1/2" of rain likely, locally 3" possible 	<ul style="list-style-type: none"> Rainfall of 1" in 6hr, 2" in 12hr tonight into tomorrow am. Scattered areas of minor urban/small stream flooding likely Rain changes to snow tomorrow. Light to mod snow accum possible. 	NYC/NJ metro, SW CT and coast	<ul style="list-style-type: none"> Heavy rain tonight Rain changes to snow tomorrow from NW to SE. Snow tapers off tomorrow night.
Strong Winds 20-35G40-45mph City/Coast, higher gusts possible twin forks 	<ul style="list-style-type: none"> Few to scattered downed tree limbs and power lines. Power outages possible. 	Coastal Areas, including NYC/NJ metro Highest winds for E LI/ SE CT	<ul style="list-style-type: none"> Easterly gusts to 40 mph tonight/tomorrow AM, except 45 mph SE CT and E LI. W/NW gusts 40-45 mph Tomorrow aft into Wed areawide.
Coastal Impacts 1 to locally 2 ft flooding above ground level (AGL) 	<ul style="list-style-type: none"> Minor to locally moderate coastal flood impacts Scattered dune erosion 	Moderate coastal flood threat along Peconic, Gardiners Bay, W LI Sound, and W Great South Bay	<ul style="list-style-type: none"> Times of high tide tonight
Marine Gale conditions 	<ul style="list-style-type: none"> Seas 8-12 ft on the Ocean Seas 3-5 ft central/eastern Long Island Sound and twin forks 	Nearshore Waters	<ul style="list-style-type: none"> Tonight into Wednesday

Heavy Snow

Winter Watches Warnings and Advisories



Forecast Challenges:

Confidence is high in a significant heavy wet snowfall for interior portions of Lower Hud and NE NJ.

Surface temperatures and the potential for a changeover to period of moderate to heavy snow down to the city/coast and SW CT as early as tomorrow AM. This will depend on track and intensity of the low pressure system.

Hazards and Impacts:

Interior portions of Lower Hud Valley and NE NJ

- ✓ **Snow Accum:** 3-10". Locally 1+ ft possible. Highest amounts likely above 750ft.
- ✓ **Timing:** Rain changes to heavy snow after midnight and continues into tomorrow morning. Periods of moderate snow tomorrow aft/eve, before coming to an end by around midnight.
- ✓ **Snowfall rates:** 1-2"/hr midnight through tomorrow AM
- ✓ **Snow Character:** Wet
- ✓ **Temps:** Lower 30s
- ✓ **Impacts:** Scattered to numerous downed trees limbs and powerlines. Difficult travel.

Most Likely Snowfall – Official Forecast

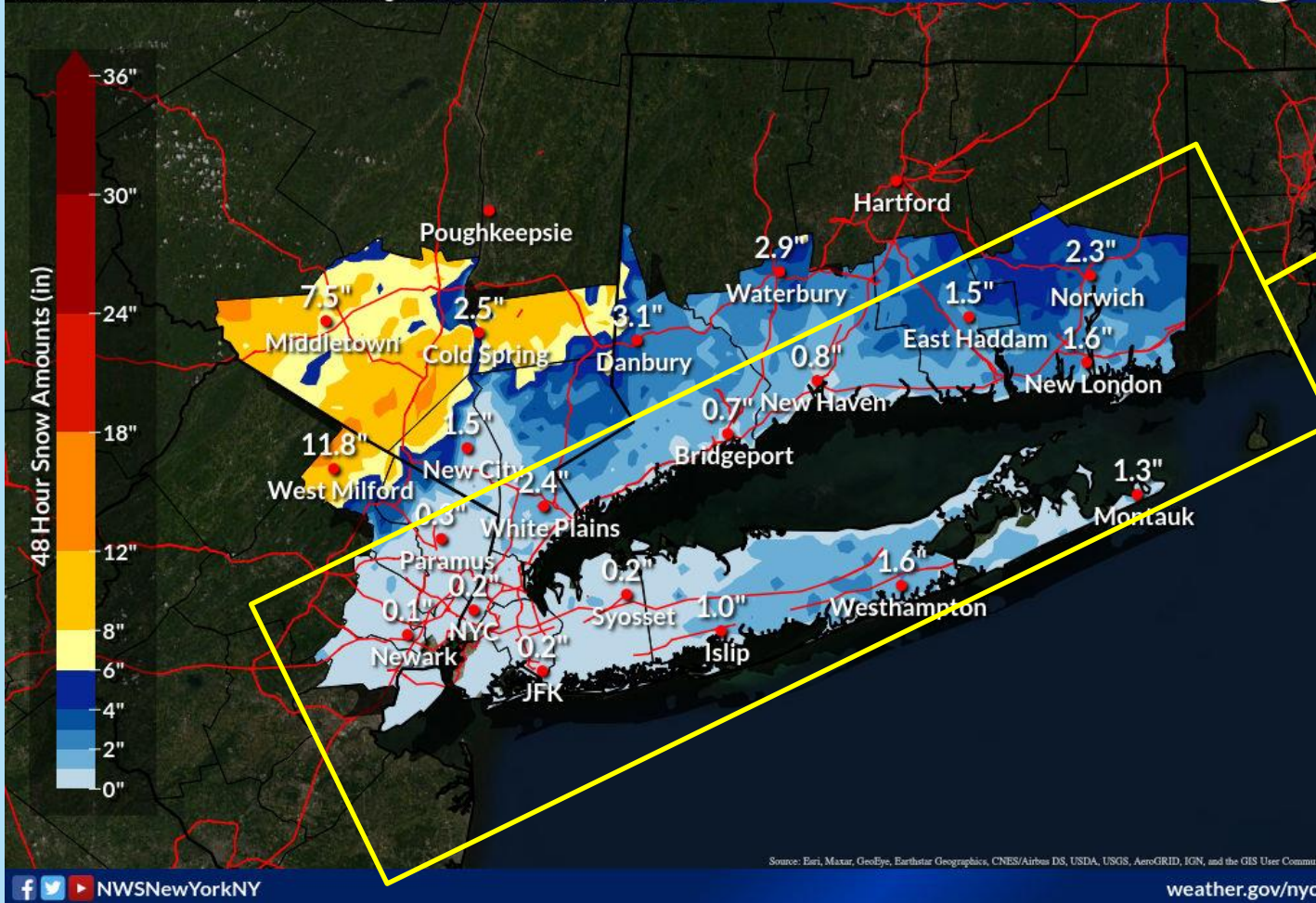
Expected Snowfall - Official NWS Forecast

Weather Forecast Office

New York, NY

Valid 8 AM Mon Mar 13, 2023 through 8 AM Wed Mar 15, 2023 EDT

Issued Mar 13, 2023 4:27 AM EDT



The greatest uncertainty in snow amounts is in the boxed area. It will be dependent on how quickly low pressure intensifies and how close it comes to the coast.

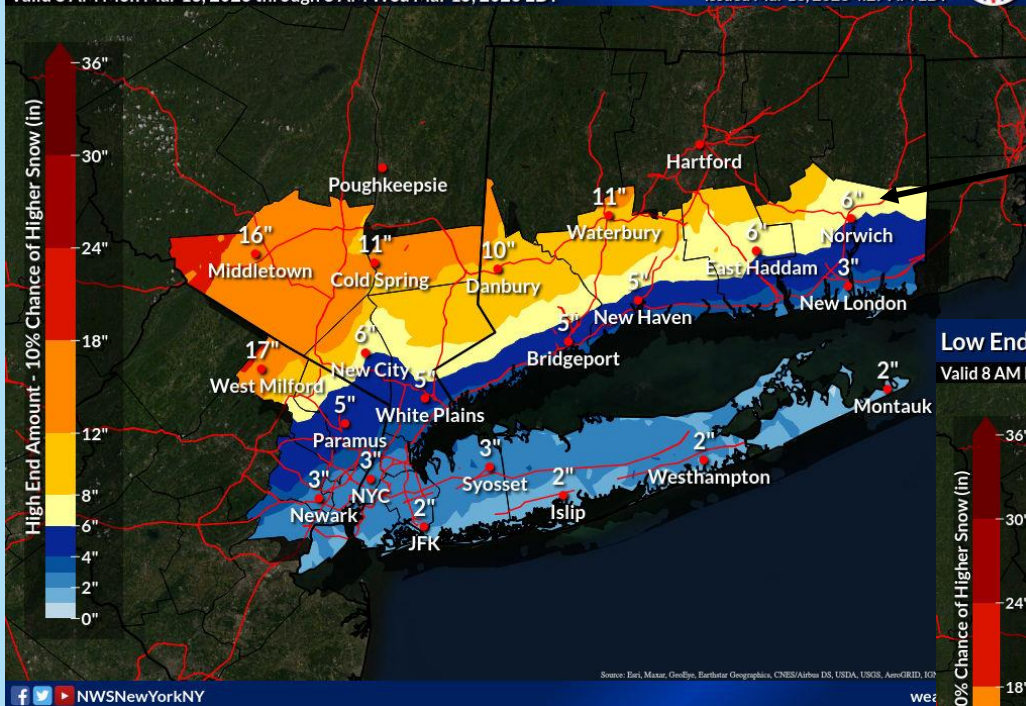
Probabilistic Snowfall Forecast

High End Amount - 1 in 10 Chance (10%) Of Higher Snowfall

Valid 8 AM Mon Mar 13, 2023 through 8 AM Wed Mar 15, 2023 EDT

Weather Forecast Office
New York, NY

Issued Mar 13, 2023 4:27 AM EDT



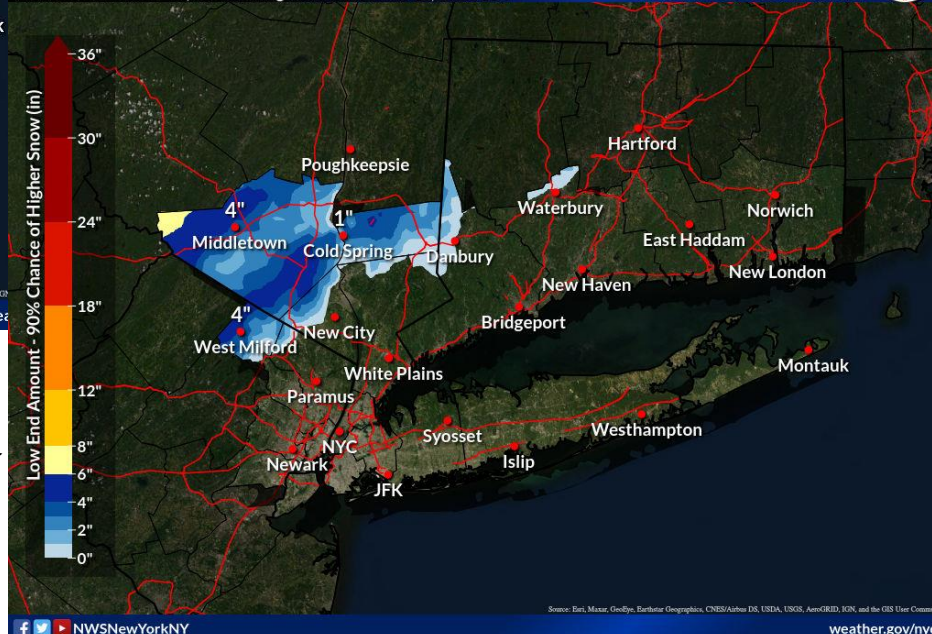
Snow amounts could be close to these levels if low pressure intensifies quicker than forecast, transitions rain to snow earlier than forecast and/or lingering heavy snow banding over the region for a longer period of time.

Low End Amount - 9 in 10 Chance (90%) Of Higher Snowfall

Valid 8 AM Mon Mar 13, 2023 through 8 AM Wed Mar 15, 2023 EDT

Weather Forecast Office
New York, NY

Issued Mar 13, 2023 4:27 AM EDT

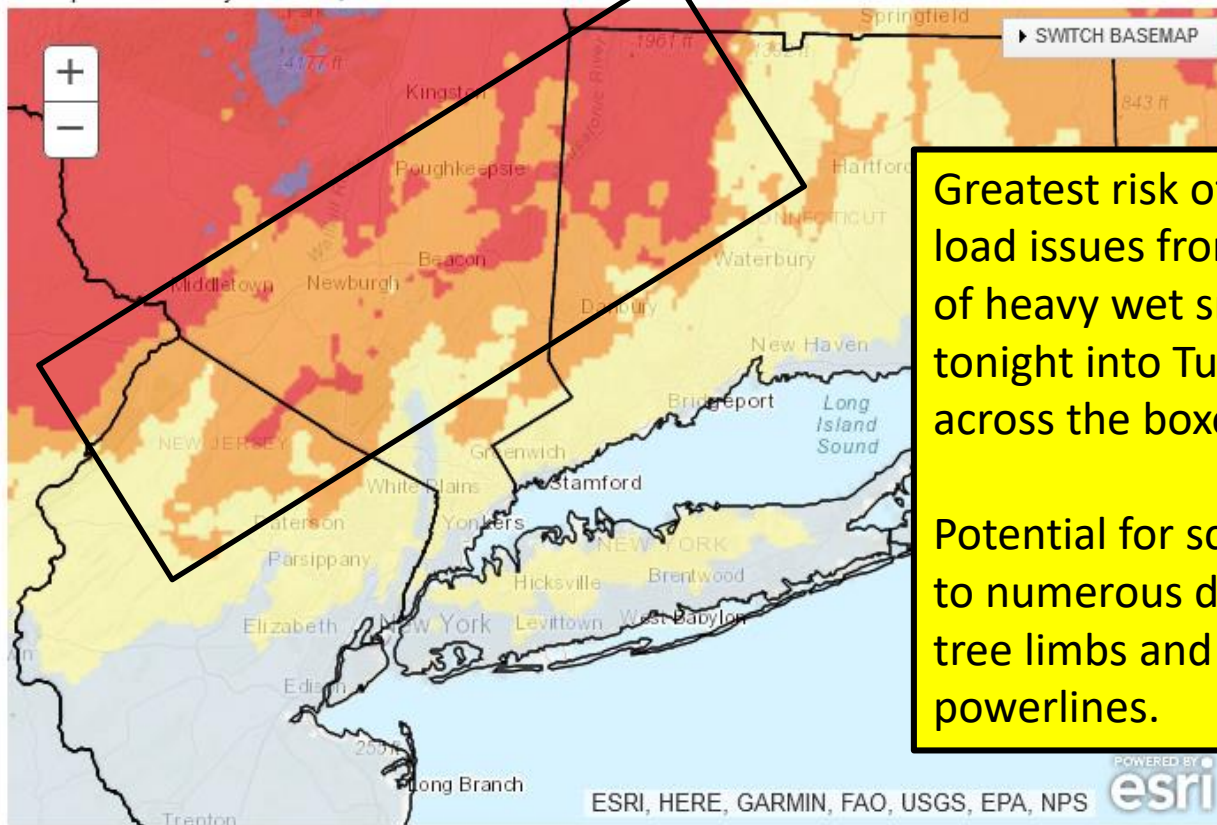


Expect at least this much snow.

Snow Load Impact

WSSI Snow Load -- Day3

Valid through Tue, Mar 14, 2023 08 PM ET








Greatest risk of snow load issues from 6+” of heavy wet snow tonight into Tuesday across the boxed area.

Potential for scattered to numerous downed tree limbs and powerlines.

Potential Winter Storm Impacts

Winter Storm Severity Index (WSSI)

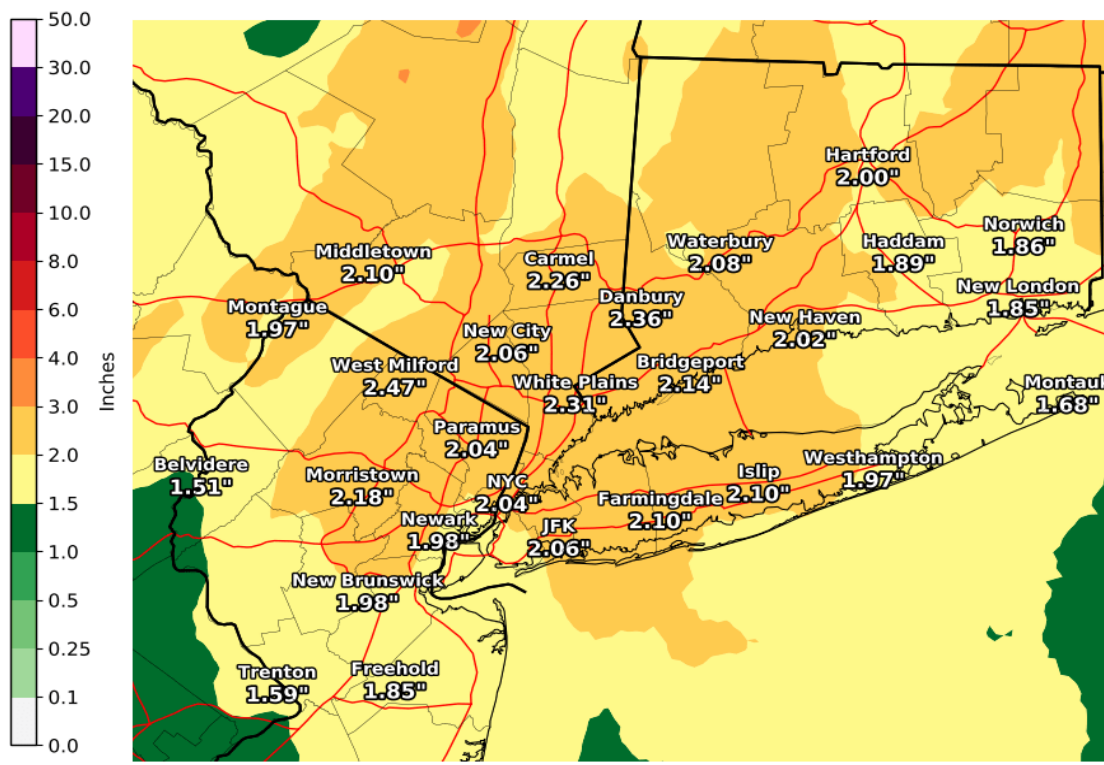
Issued: Sat, Mar 11, 2023 07 PM ET

Winter Weather Area	Minor Impacts	Moderate Impacts	Major Impacts	Extreme Impacts
<p> Winter Weather Area</p> <p>Expect winter weather.</p> <ul style="list-style-type: none"> Winter driving conditions. Drive carefully. 	<p> Minor Impacts</p> <p>Expect a few inconveniences to daily life.</p> <ul style="list-style-type: none"> Winter driving conditions. Use Caution while driving. 	<p> Moderate Impacts</p> <p>Expect disruptions to daily life.</p> <ul style="list-style-type: none"> Hazardous driving conditions. Use extra caution while driving. Closures and disruptions to infrastructure may occur. 	<p> Major Impacts</p> <p>Expect considerable disruptions to daily life.</p> <ul style="list-style-type: none"> Dangerous or impossible driving conditions. Avoid travel if possible. Widespread closures and disruptions to infrastructure may occur. 	<p> Extreme Impacts</p> <p>Expect substantial disruptions to daily life.</p> <ul style="list-style-type: none"> Extremely dangerous or impossible driving conditions. Travel is not advised. Extensive and widespread closures and disruptions to infrastructure may occur. Life-saving actions may be needed.

Heavy Rain

Expected Rainfall/Liquid Equivalent

Valid: 03/13/2023 12:00 AM - 03/16/2023 12:00 PM EDT



Hazards and Impacts:

Heavy rainfall for NYC/NJ metro, LI, and SE CT tonight into tomorrow morning:

- ✓ **Storm Total Rainfall:**
 - ✓ 2 to 2 1/2", locally 3"
- ✓ **Rainfall Rates:** Peak rates from 10pm to 10am Tonight into tomorrow AM
 - ✓ Moderate to high potential (>70%) for...
 - ✓ 1" in 6hr
 - ✓ 2" in 12hrs
 - ✓ Low potential (<30%) for 1" in 3 hr

Impacts:

- ✓ Scattered areas of minor urban and poor drainage flooding.
- ✓ Minor flooding possible along a few quick responding small rivers and streams of NE NJ and Lower Hudson Valley.
- ✓ Heavy rainfall during the times of high tide could exacerbate flooding in vulnerable coastal and shoreline communities.

Forecast Challenges:

Confidence is increasing in forecast rainfall amounts. Flood impacts may be locally enhanced due to combo of rain, snow melt, and snow clogged drains.

Strong Winds

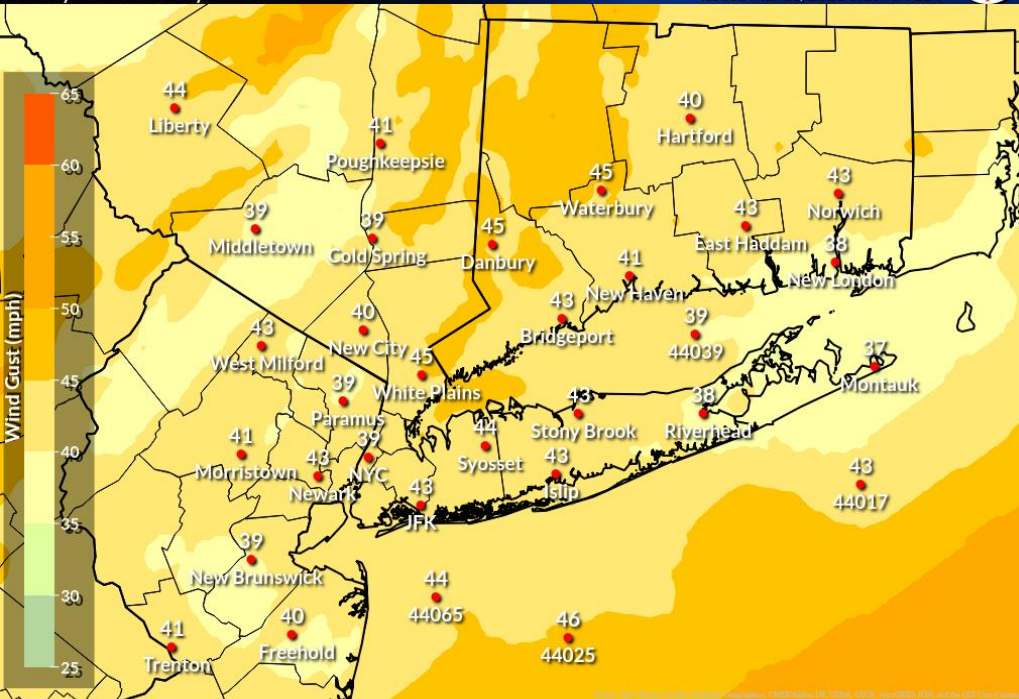
Maximum Wind Gusts

Tuesday and Wednesday

Weather Forecast Office

New York, NY

Issued Mar 13, 2023 5:19 AM EDT



f NWSNewYorkNY

weather.gov/nyc

Hazards and Impacts:

Eastern Long Island and southeastern CT

- ✓ Tomorrow: East winds of 20 to 30 mph with gusts of 40 to 50 mph.
- ✓ Late tomorrow through Wed: W/NW winds of 25 to 35 mph with gusts 40 to 50 mph tomorrow Aft into Wed. **Impacts**: Scattered downed tree branches and powerlines. A few trees and power lines could be downed.

NYC and rest of coast

- ✓ Tomorrow AM: East winds of 20 to 25 mph with gusts 35 to 45 mph.
- ✓ Late tomorrow Through Wed: W/NW winds of 25 to 35 mph with gusts 40 to 50 mph.
- ✓ **Impacts**: A few downed tree branches and powerlines. Impacts could be intensified to the coast if heavy wet snow banding develops down to the coast tomorrow.

Interior

- ✓ W/NW winds of 20 to 25 mph with gusts 30 to 40 mph tomorrow afternoon through Wed.
- ✓ **Impacts**: Scattered to numerous downed tree limbs and powerlines possible due to snow load and winds.

Forecast Challenges:

The exact track and intensification of low pressure will determine peak winds tomorrow morning into Wednesday.



Minor to Locally Moderate Coastal Flooding

Marine / Coastal Hazards



Coastal Flood Hazards and Impacts:

- ✓ **Coastal Flood Advisory:** Widespread minor to moderate (1-2 ft above ground) coastal flooding along Western Great South Bay, Jamaica Bay, Western LI Sounds, and Peconic and Gardiners Bay during the tonight/tomorrow AM high tide.

Shoreline Hazards and Impacts:

- ✓ 4-7' breaking waves along the oceanfront, resulting in beach erosion and flooding during times of high tide tonight/early tomorrow AM. Minor erosion impacts to dune base possible.
- ✓ 1 to 3' breaking waves along Western LI sound and Orient Point shoreline resulting in beach erosion and wave splash over bulkheads and seawalls.




Uncertainty:

- ✓ Magnitude of coastal flooding tonight/tomorrow AM will be dependent on timing of easterly gale winds backing from the E to NE. Forecast has been leaned towards a later wind shift, and higher surge scenarios based on low pressure track and intensity spread.

For the latest coastal flood forecasts (hydrographs and tables) and the tools to visualize the potential coastal impacts (zoomable potential inundation map, impact catalogs, climatology, etc.) in your area of concern please go to the [NWS New York, NY Coastal Flooding Page](#)



Coastal Flooding Thresholds

	Minor (CF Advisory)	Moderate (CF Warning)	Major (Warning)
Picture	 Westport	 Lindenhurst	 New Haven
Hazard	<ul style="list-style-type: none"> • Low threat of property damage...and no direct threat to life. • 1 to 2 ft of inundation in shoreline and vulnerable areas. 	<ul style="list-style-type: none"> • Elevated threat of property damage...with a risk to life if one places themselves in unnecessary danger. • 2 to 3 ft of inundation in shoreline and vulnerable areas. • Minor to no inundation of surrounding coastal communities. 	<ul style="list-style-type: none"> • Significant threat to life and property. • 3-5+ ft of inundation in shoreline and other vulnerable areas. • Minor to moderate inundation (1 to 3 ft) of surrounding coastal communities that rarely experience coastal flooding.
Impact	<ul style="list-style-type: none"> • A few shoreline and vulnerable roadways and adjacent properties will experience shallow flooding. 	<ul style="list-style-type: none"> • Several shoreline and vulnerable area home and businesses will experience water inside. • Several low-lying coastal and shoreline roads will be closed. • A few cars may take on water or even be destroyed. 	<ul style="list-style-type: none"> • Evacuations will be necessary for the most vulnerable shoreline and coastal areas. • Many coastal communities will experience damage...with some shoreline and flood prone homes and businesses being destroyed. • Many cars will likely be submerged or washed away. • Several sections of nearshore roads and escape routes will be impassable and a few could be washed out. • Flood waters may extend well inland in low lying areas.

Event Summary

- ✓ A heavy wet snowfall is expected across interior portions of the Lower Hudson Valley and northeastern NJ. Greatest amounts expected in the higher elevations. Scattered to numerous downed tree limbs and power lines possible due to snow loading.
- ✓ There remains the potential for an accumulating snowfall down to the coast tomorrow.
- ✓ Strong easterly wind gusts to 40-50 mph are possible across E LI/SE CT tomorrow through Wednesday. Widespread northwesterly gusts to 50mph tomorrow evening into Wednesday.
- ✓ Minor to locally moderate coastal flooding along Western Great South Bay, Jamaica Bay, Western LI Sounds, and Peconic and Gardiners Bay during tonight/early tomorrow AM high tide.