

Strong Winter Storm Fri Night thru Sat

Briefing Number 4

Overview -

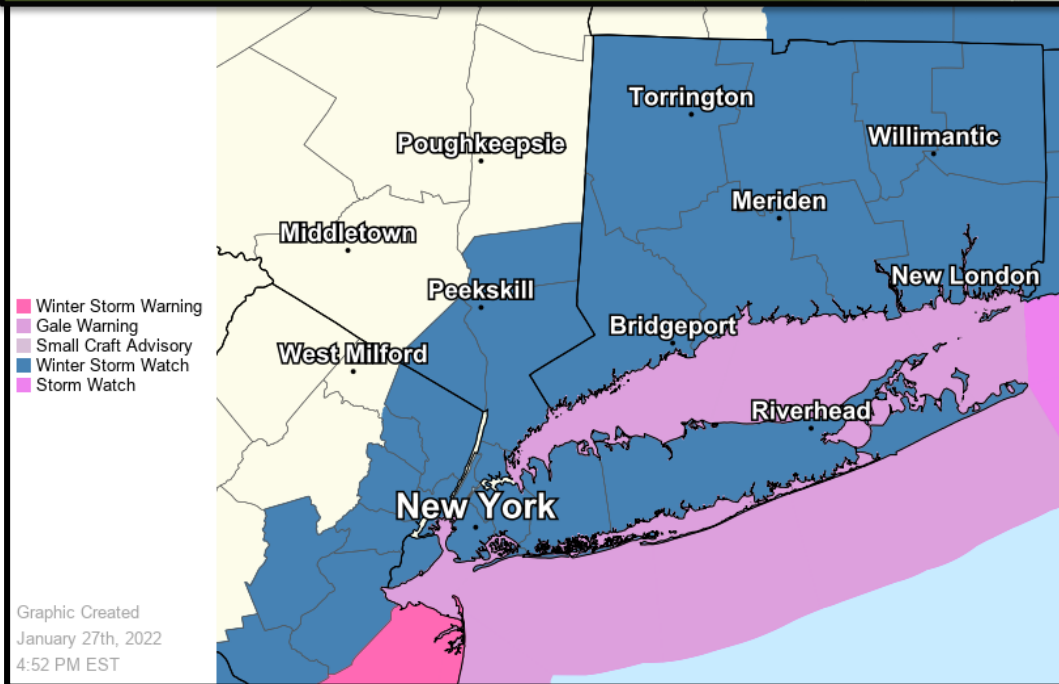
Confidence is increasing for a strong storm system to bring moderate to heavy snowfall and strong winds to much of the area Friday night through Saturday.

What's Changed?





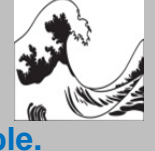
Winter Storm Watch expanded to include most of NE NJ and Lower Hudson valley for Fri Night thru Sat.

Storm Watch issued for the ocean waters for Saturday.

Current Hazards



Main Points

Hazard	Impacts	Location	Timing
Heavy Snow 10-15" 	<ul style="list-style-type: none"> Snowfall Rates of 1-2"/hr possible Difficult travel Blizzard conditions possible 	SE CT, Long Island	<ul style="list-style-type: none"> Snow developing Fri Evening Periods of heavy snow possible Late Fri Night into Sat PM Snow tapering Sat Eve
Snow 5-10" 	<ul style="list-style-type: none"> Snowfall Rates of up to 1"/hr possible Hazardous Travel Blowing snow 	NYC, NE NJ, SW CT, and much of Lower Hudson Valley,	<ul style="list-style-type: none"> Snow developing Fri Evening Periods of moderate snow late Fri Night into Sat Aft Snow tapering late Sat Aft
Strong Winds 25-35G55mph E LI/SE CT 20-25G45mph NYC/NJ metro & rest of coast 	<ul style="list-style-type: none"> Scattered downed tree limbs and power lines. Isolated downed trees. 	Coastal Areas, including NYC/NJ metro	Peak winds Saturday morning into early Saturday evening
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 	Greatest threat along twin forks, north shore of LI and barrier islands. Dune Impacts: Oceanfront	Times of high tide Saturday AM/PM and Sunday AM
Marine Gale conditions expected. Storm conditions possible. 	<ul style="list-style-type: none"> Seas 10-15 ft on the Ocean Seas 4-6 ft central/eastern Long Island Sound and twin forks 	Nearshore Waters	Friday Night into Saturday Night

Moderate to Heavy Snow




Winter Watches Warnings and Advisories



Forecast Challenges:

Confidence is increasing in forecast snowfall amounts, but there is still uncertainty on the western extent and duration of moderate and heavy snow banding late Friday Night into Saturday. This will be refined over the next 36 hrs.

Hazards and Impacts:

Long Island and SE CT

- ✓ **Snow Accum:** 10-15"
- ✓ **Snowfall Rates:** 1-2"/hr possible
- ✓ **Snow Character:** Powdery snow
- ✓ **Temps:** Dropping into lower 20s Fri Night and holding thru Sat. Lower teens Sat Night.
- ✓ **Impacts:** Dangerous Travel, Blizzard conditions possible

NYC, NE NJ, SW CT, much of Lower Hud

- ✓ **Snow Accum:** 5-10"
- ✓ **Snowfall Rates:** Up to 1"/hr possible
- ✓ **Snow Character:** Powdery snow
- ✓ **Temps:** Dropping into teens to around 20 Fri Night and holding thru Sat. Around 10 F Sat Night.
- ✓ **Impacts:** Difficult Travel, Blowing snow

Orange and W Passaic County

- ✓ **Snow Accum:** 2-5"
- ✓ **Snow Character:** Powdery snow
- ✓ **Temps:** Dropping into lower to mid teens Fri Night and holding thru Sat. Single digits Sat Night.
- ✓ **Impacts:** Hazardous Travel, Blowing snow

Timing:

- ✓ Snow developing Friday evening. Heaviest snow from Late Friday Night through Saturday Aft/Eve. Snow ending late Sat aft/eve.

Official NWS NY Snowfall Forecast

Expected Snowfall - Official NWS Forecast

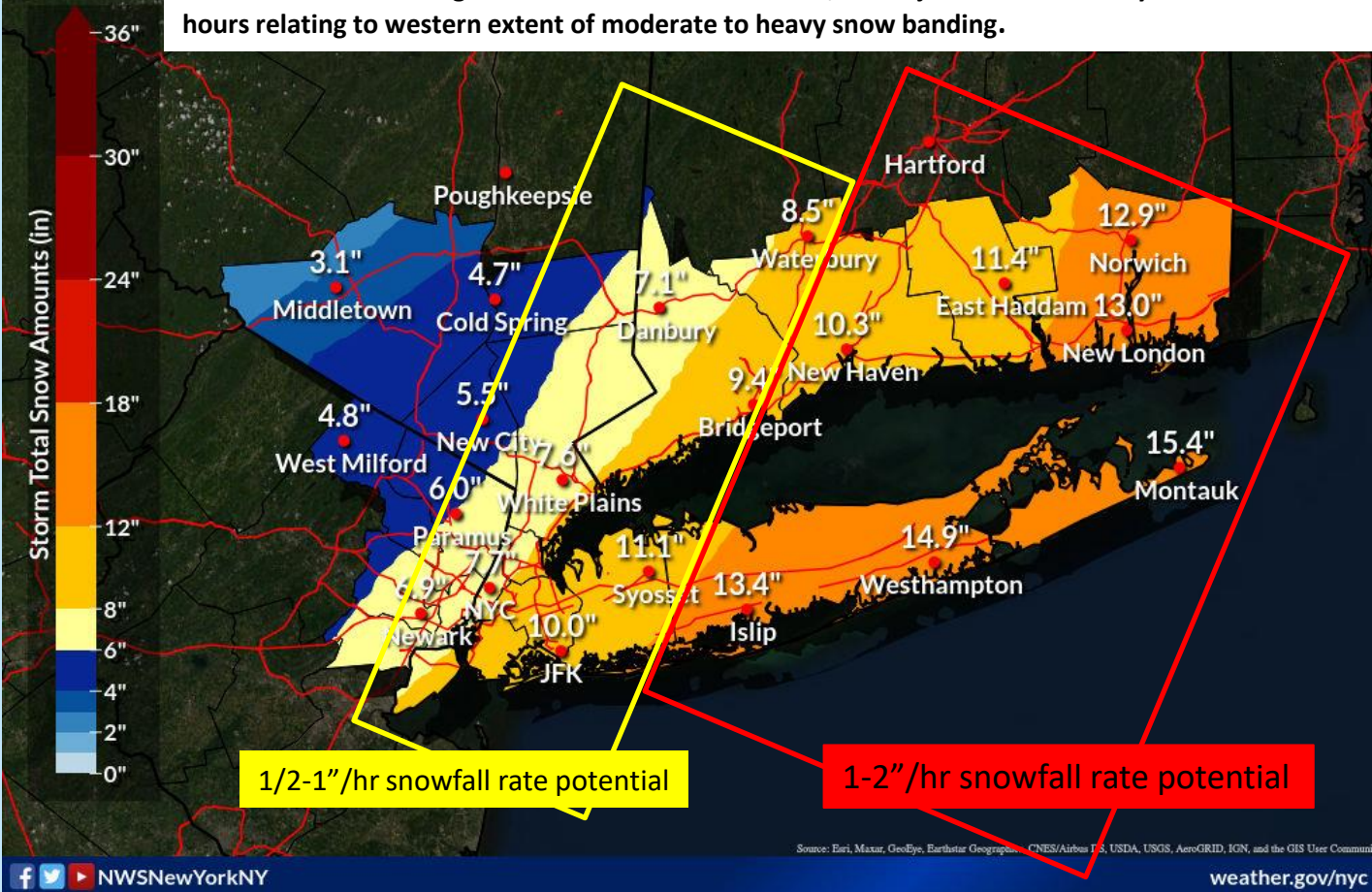
Weather Forecast Office
New York, NY

Valid 7 PM Fri Jan 28, 2022 through 7 AM Sun Jan 30, 2022 EST

Issued Jan 27, 2022 4:13 PM EST



Confidence is increasing in the snowfall forecast below, but adjustments are likely over the next 36 hours relating to western extent of moderate to heavy snow banding.



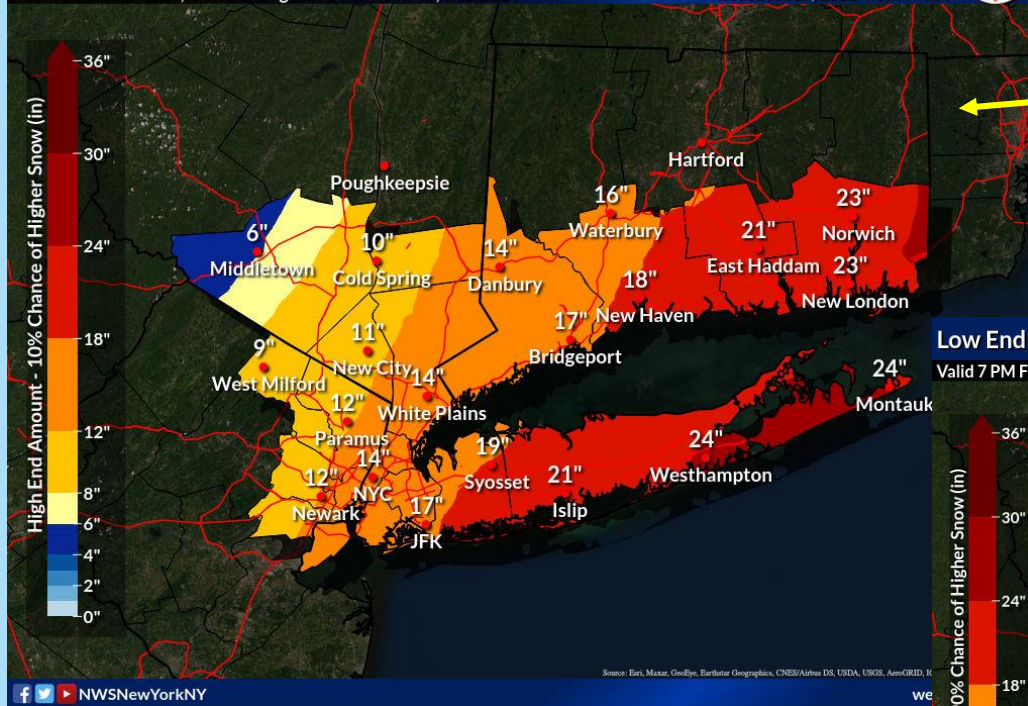
Probabilistic Snowfall Forecast Scenarios

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

Valid 7 PM Fri Jan 28, 2022 through 7 AM Sun Jan 30, 2022 EST

Weather Forecast Office
New York, NY

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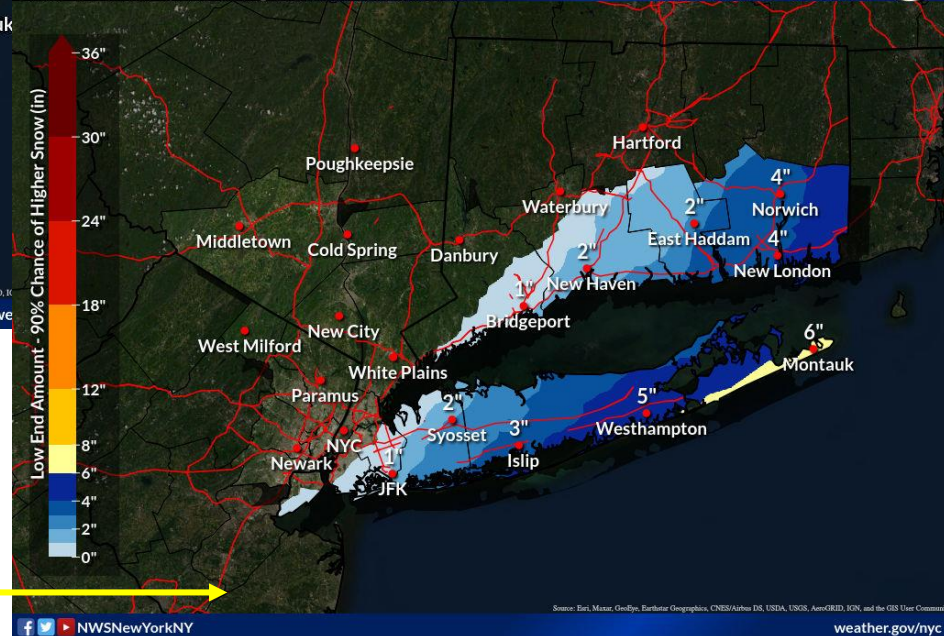
Snow amounts could be close to these levels in spots if the storm continues to tend west and/or heavy snow banding develops/persists over the area.

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

Valid 7 PM Fri Jan 28, 2022 through 7 AM Sun Jan 30, 2022 EST

Weather Forecast Office
New York, NY

Issued Jan 27, 2022 4:13 PM EST



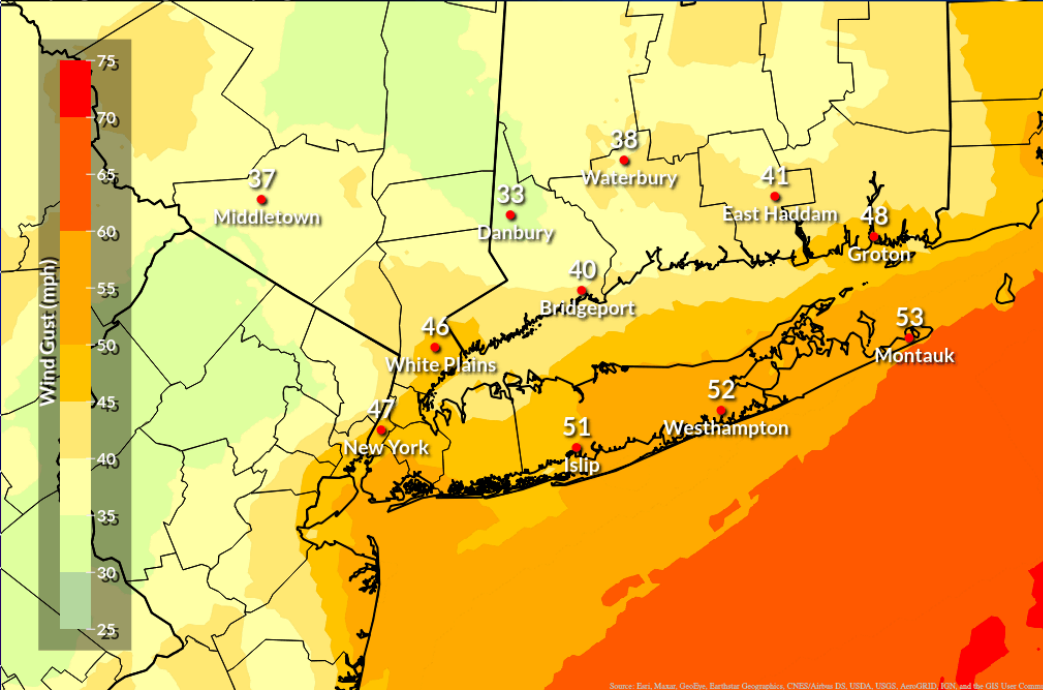
Snow amounts could be this low if the eastern most storm scenarios occur. The potential for this is decreasing.

Strong Wind Potential

Maximum Wind Gusts

Friday Night Through Saturday Night

Weather Forecast Office
New York, NY
Issued Jan 27, 2022 4:49 PM EST



  NWSNewYorkNY

weather.gov/nyc

Forecast Challenges:

Confidence is increasing in the forecast winds, but wind/gust speeds could increase or decrease by 5 mph or so based on storm track and intensity.

Hazards and Impacts:

Eastern LI and Southeastern CT

- ✓ **Peak Winds:** N 25-35g 50-55mph
- ✓ **Impacts:** Scattered downed tree limbs and power lines. Few downed trees. Power outages possible. **Dangerous travel with Blizzard conditions possible.**

NYC/NJ metro, SW CT, S Westchester

- ✓ **Peak Winds:** N 20-30 g 35-45 mph
- ✓ **Impacts:** Difficult travel with blowing and drifting snow.

Interior portions of NE NJ, Lower Hud, and SW CT

- ✓ **Peak Winds:** N 15-20 g 25-35 mph
- ✓ **Impacts:** Hazardous travel with blowing snow

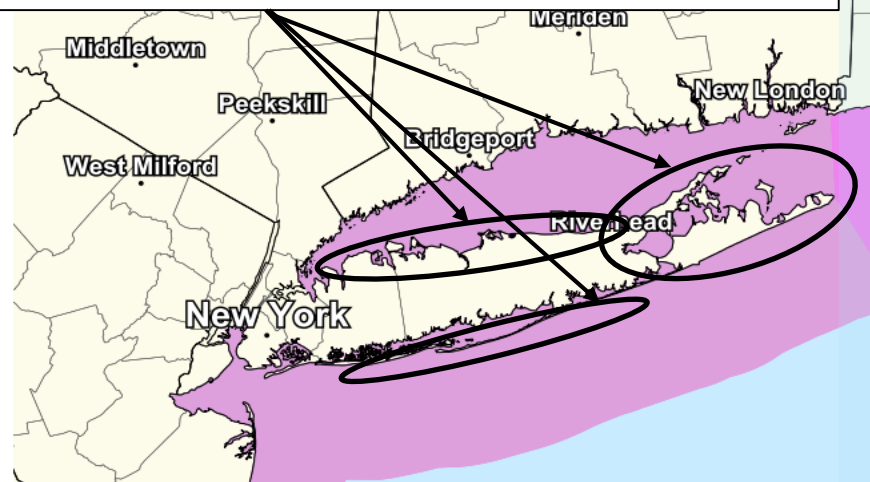
Timing:

- ✓ Strongest winds from Saturday morning into Saturday Evening

Coastal Flooding

Marine / Coastal Hazards

Potential for minor to localized moderate coastal flood impacts Saturday AM/PM and Sunday AM high tides



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 Flood Hazards and Impacts:

- ✓ Minor to locally moderate coastal flood impacts possible (flooding of 1 to locally 2 ft above ground), for the vulnerable twin forks, north shore of LI and north shore of barrier island shoreline communities for the Saturday AM/PM and Sunday AM high tides.
- ✓ **Impacts:** Several waterfront road closures possible and flooding of shoreline properties. Minor damage to shoreline structures possible.
- ✓ Elsewhere generally localized minor coastal impacts expected Sat AM/PM high tide, with more widespread minor flooding possible for south shore bay communities Sunday AM

Shoreline Hazards and Impacts:

- ✓ 4-8' breaking waves along the oceanfront with scattered areas of dune erosion. Overwashes are not likely.
- ✓ Minor to moderate erosion and wave splashover along the north shore of Long Island and twin forks from 3 to 5 ft surf during Sat AM through Sun AM high tides.




Timing:

- ✓ During times of high tide Saturday morning, Saturday evening, and Sunday morning

Forecast Challenges:

- ✓ The magnitude of coastal flooding will depend on the track, strength and speed of low pressure, which will need to be refined over the next 36 hrs. The most widespread minor coastal impacts may be with Sunday morning high tide.

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

- ✓ 10 - 15" of snow likely and strong winds across LI and SE CT Friday Night into Saturday Evening. Dangerous travel and blizzard conditions possible.
- ✓ 5 - 10" of snow and strong winds likely across NYC, NE NJ, SW CT and much of Lower Hudson Valley Friday Night into Saturday Afternoon. Difficult travel and blowing snow possible.
- ✓ Minor to locally moderate coastal impacts are possible for the vulnerable twin forks, north shore of LI and north shore of barrier island shoreline communities for the Saturday AM/PM and Sunday AM high tides. Minor flooding may become more widespread Sun AM high tides.
- ✓ Confidence is increasing on forecast snowfall, but there is still uncertainty on the western extent and/or duration of moderate and heavy snow banding late Friday Night into Saturday. This will be refined over the next 36 hrs.