

Winter Storm Late Saturday into Sunday



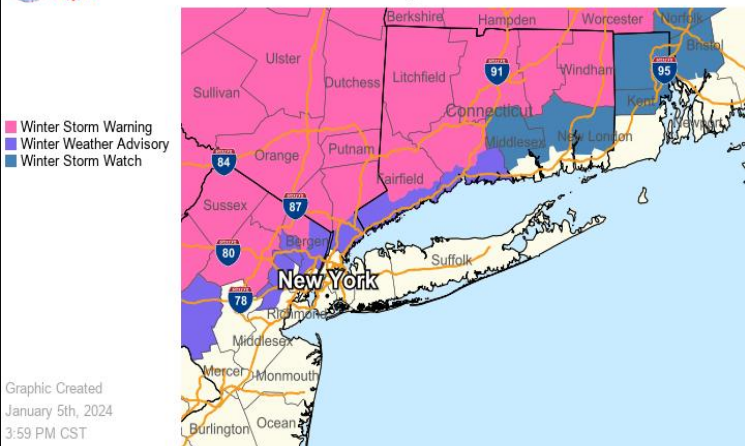
New York, NY
WEATHER FORECAST OFFICE

OVERVIEW

Low pressure will track towards the Mid Atlantic on Saturday and then southeast of the region while strengthening Saturday evening into Sunday morning.



Winter Watches Warnings and Advisories



FORECAST CHALLENGES

- Potential for a brief period of heavy snow along the city/coast Saturday evening. Increasing likelihood north of I-95.
- Timing of changeover from snow to rain along the coast Saturday evening, and then changeover Sun AM.
- Light additional snow accum possible Sun AM into Afternoon down to the coast.
- The forecast details for above will be refined thru tomorrow, but may not be fully evident until the storm is underway.

HAZARDS & IMPACTS

Wintry Precipitation:

Interior portions of NE NJ, LoHud Valley, and SW CT (Winter Storm Warning)

- **Total Snowfall:** 5 to 9" likely, 10-12" reasonable worst case, highest for interior LoHud. Wet snow type.
- **Snowfall Rates:** 1"/hr expected 5pm to 2am
- **Temperatures:** Upper 20s/Lower 30s
- **Winds:** North to Northeast 10 to 15 mph with gusts 25 mph.
- **Impacts:** Snow covered roads late Sat into Sun. Scattered downed tree limbs and wires likely.
- **Timing:** Snow developing late Sat aft (heavy at times) through 2am, lightening in intensity after 2am. Light snow ending Sunday afternoon.

Just North of I-95 in LoHud, NE NJ, SW CT (Winter Wx Advisory), and interior SE CT (Winter Storm Watch)

- **Total Snowfall:** 2 to 6" likely, up to 7" reasonable worst case. Wet snow type.
- **Snowfall Rates:** 1"/hr likely 5pm Sat to midnight-2am Sun.
- **Temperatures:** Lower 30s
- **Winds:** North to Northeast 15 to 20 mph with gusts 25 to 30 mph.
- **Impacts:** Snow covered roads late Sat into Sun. Scattered downed tree limbs and wires possible.
- **Timing:** Snow developing late Sat aft (heavy at times), snow will lighten in intensity after midnight-2am, and possibly mix with rain. Transition to light snow early Sun AM from NW to SE, before ending Sunday afternoon. Additional light snow accumulation possible.

NYC /NJ metro, Long Island, SE coastal CT

- **Total Snowfall:** 1 to 2", 2 to 4" reasonable worst case. Highest amounts across NW areas. Wet snow type.
- **Snowfall Rates:** ½ to 1"/hr possible 5pm to 10pm Sat.
- **Temperatures:** Lower to mid 30s
- **Total Rainfall/Liquid Equiv:** Around 1". Localized minor urban poor drainage flooding.
- **Winds:** Northeast 20 to 25 mph with gusts 35 to 45 mph, highest east.
- **Impacts:** Hazardous wintry travel likely Sat Eve, possible Sun afternoon.
- **Timing:** Snow developing late Sat aft (could be briefly heavy), likely transitioning to rain by 10pm and becoming lighter in intensity. Transition to light snow Sun AM from NW to SE, before ending Sunday afternoon. Spotty light snow accumulation possible.

NWS ALERTS

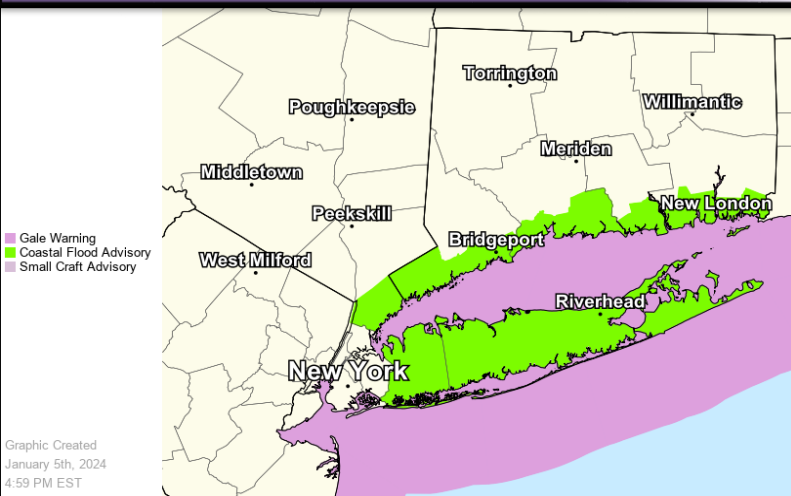
- **Winter Storm Warning for Interior portions of NE NJ, LoHud, and SW CT late Sat thru Sun**
- **Winter Storm Watch for Interior SE CT late Saturday thru Sunday**
- **Winter Weather Advisory along I-95 in LoHud, NE NJ, SW CT**

Coastal Flood/Shoreline/Marine Impacts Sat Night/Sunday



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Marine / Coastal Hazards



HAZARDS &
IMPACTS

Coastal Flood Impacts: Coastal Flood Advisory in effect for Sun AM high tide

- **Along southern and eastern bays of LI and along LI Sound** -Widespread minor coastal flooding (inundation above ground up to 1 ½ ft) for vulnerable coastal communities during the Sunday morning high tide.
- **NY/NJ Harbor, Jamaica Bay, and Long Island Sound portions of NYC** - Localized minor coastal flooding (inundation above ground up to 1 ft) for vulnerable coastal communities during the Sunday morning high tide

Shoreline Impacts:

- 4 to 7 ft breaking surf Sat night into Sunday.
- Beach escarpment likely Sat night into Sunday.
- Isolated dune erosion during Sun AM high tides. Overwashes are not expected.

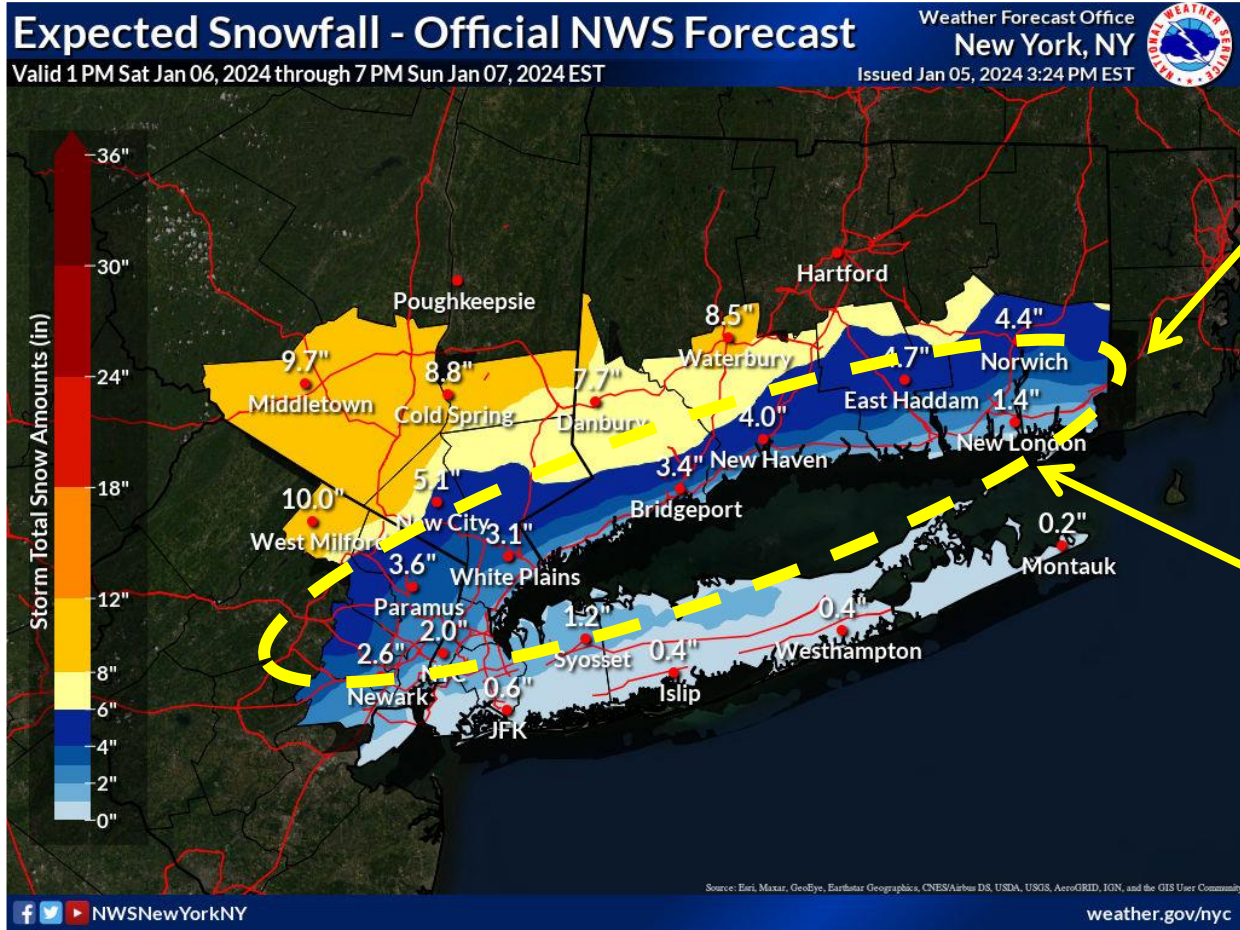
Marine:

- Gale conditions on all waters Saturday Night into Sunday

NWS
ALERTS

- **Coastal Flood Advisories in effect for much of the coast for Sunday morning high tide**

Rain / Snow Line Challenge



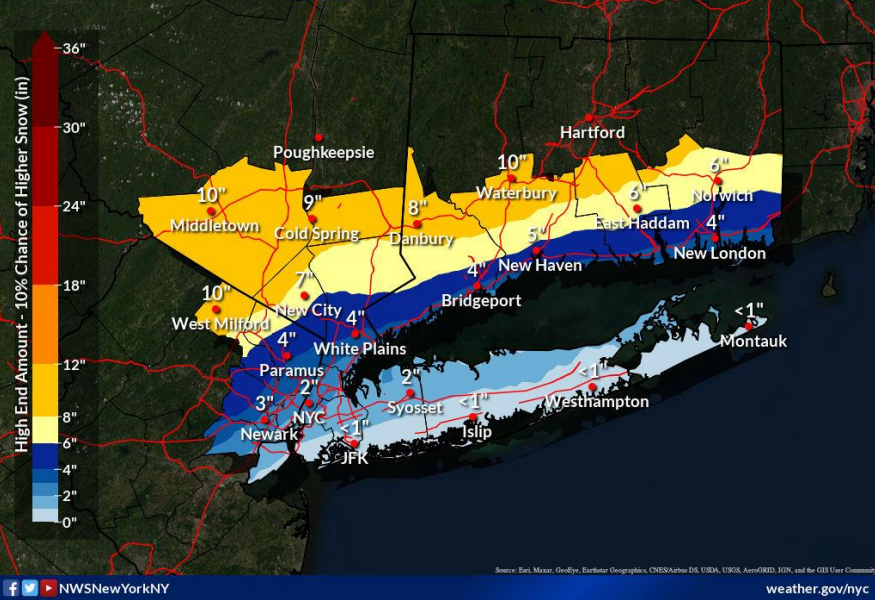
Greatest uncertainty in forecast snowfall amounts, dependent on exact intensity of snowfall at onset and timing of changeover to rain Saturday evening/night.

Snow amounts could be 1 to 2" higher/lower than forecast in this area if transition occurs later/earlier or snowfall intensity is heavier/lighter than forecast Sat eve/night. The fine details of this forecast will be refined as the event nears, but may not be evident until the storm is underway.

Probabilistic NWS New York Snowfall Forecasts

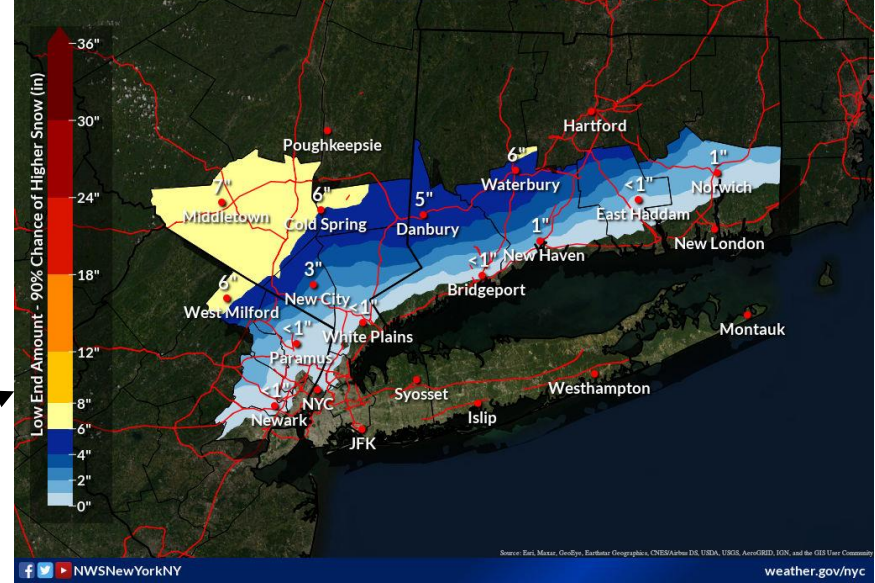


High End Amount - 1 in 10 Chance (10%) Of Higher Snowfall
Valid 1 PM Sat Jan 06, 2024 through 7 PM Sun Jan 07, 2024 EST
Weather Forecast Office New York, NY
Issued Jan 05, 2024 3:24 PM EST



Across the interior, snow amounts could occur at a location based on heavy snow banding location, duration and/or higher snowfall ratios.
Along the city/coast, snow amounts could be this high if transition occurs later and/or snowfall intensity is heavier than forecast Sat eve/night.

Low End Amount - 9 in 10 Chance (90%) Of Higher Snowfall
Valid 1 PM Sat Jan 06, 2024 through 7 PM Sun Jan 07, 2024 EST
Weather Forecast Office New York, NY
Issued Jan 05, 2024 3:24 PM EST

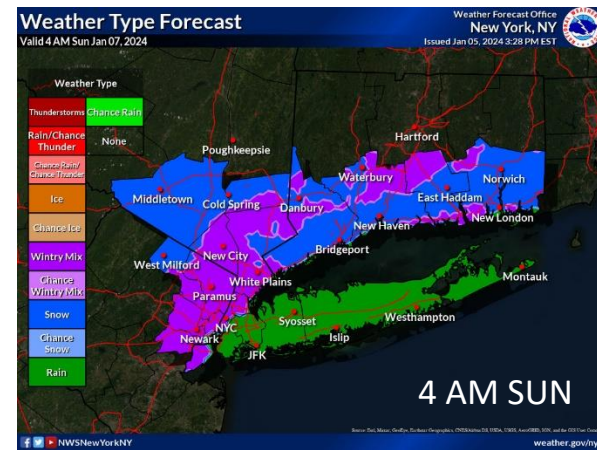
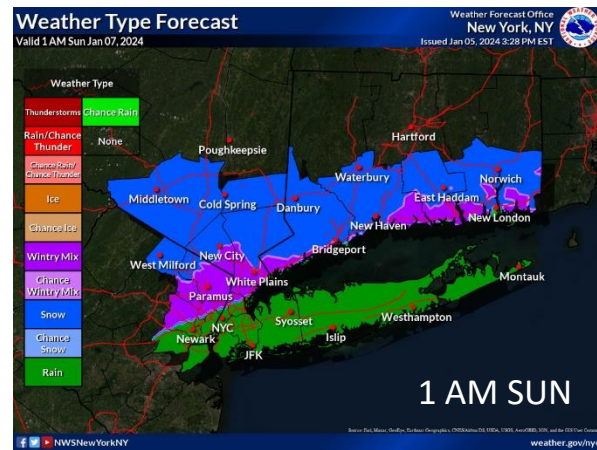
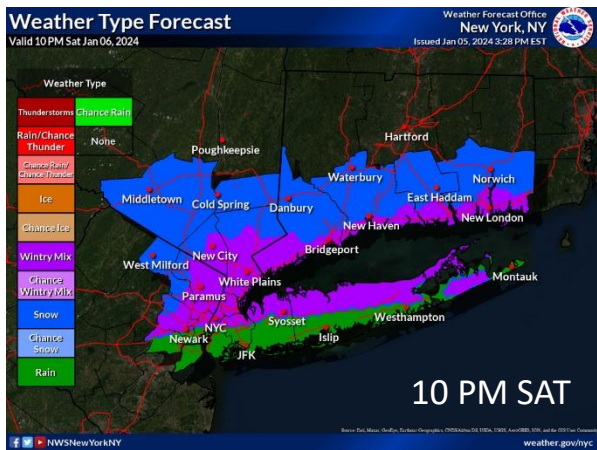
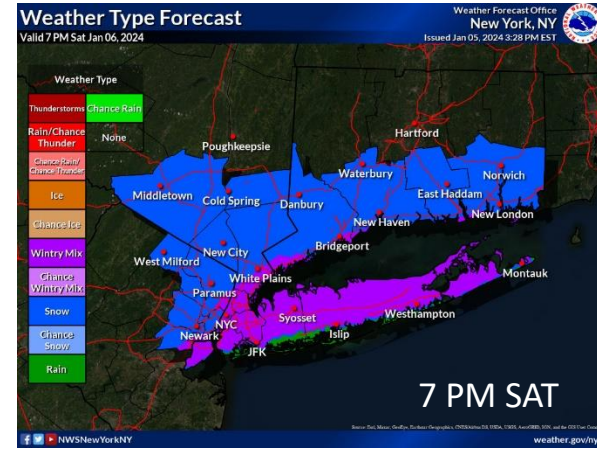
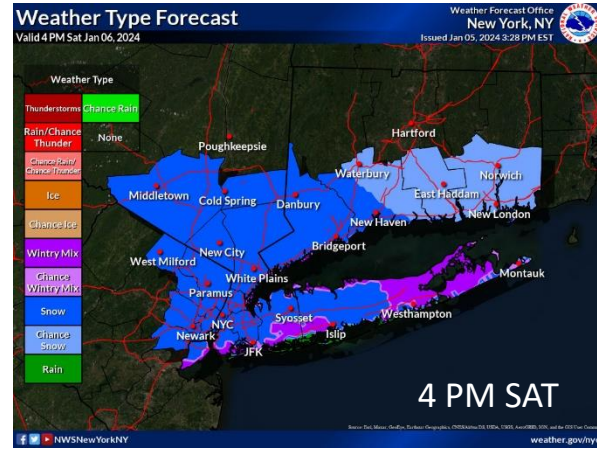
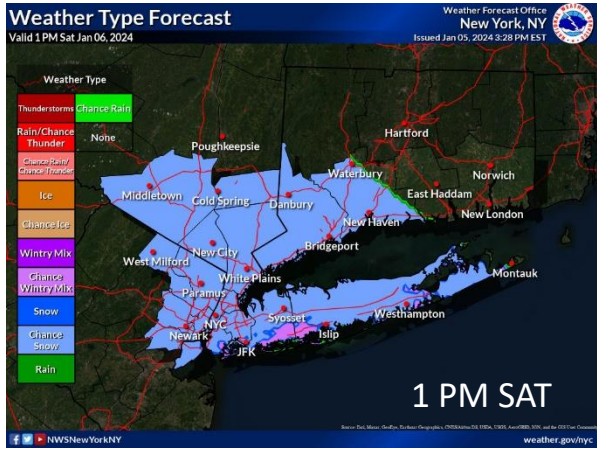


Expect at least this much snow

Changeover Timing



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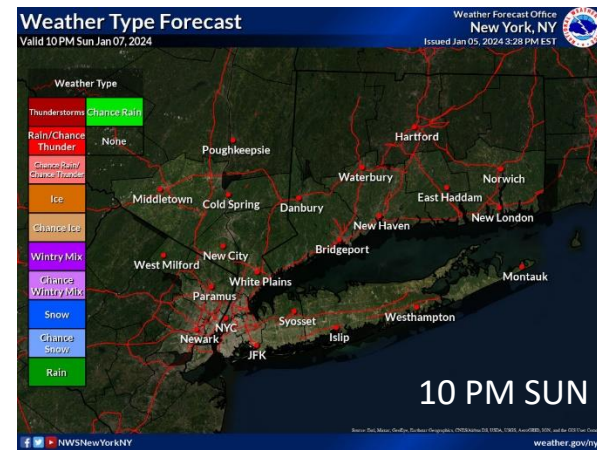
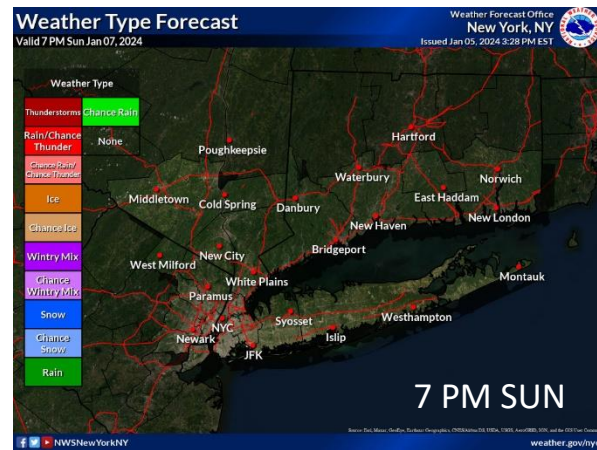
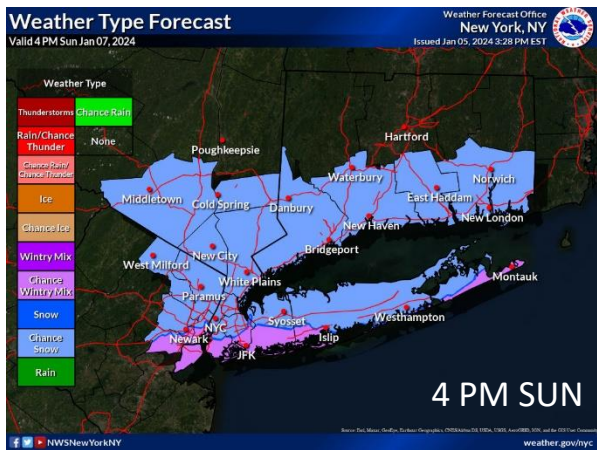
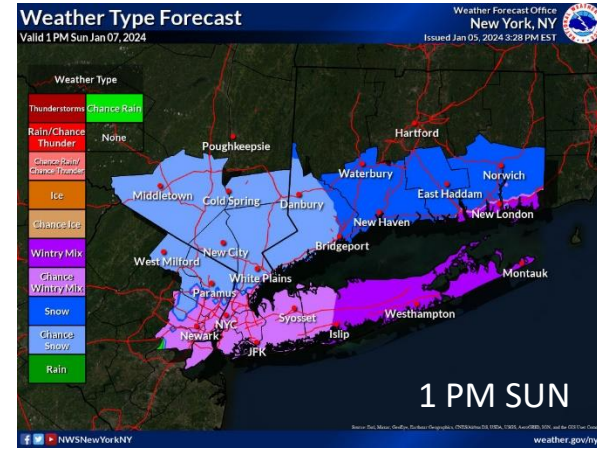
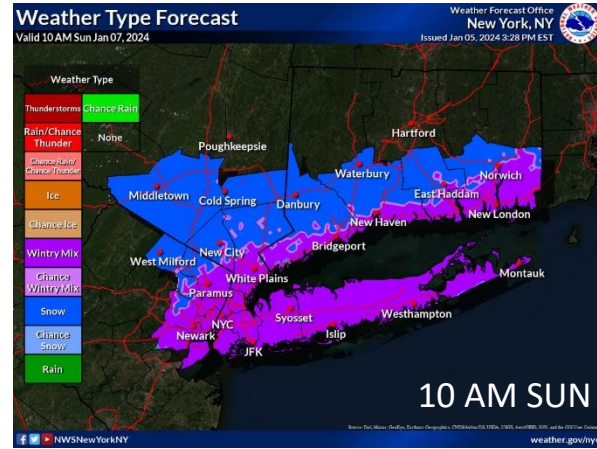
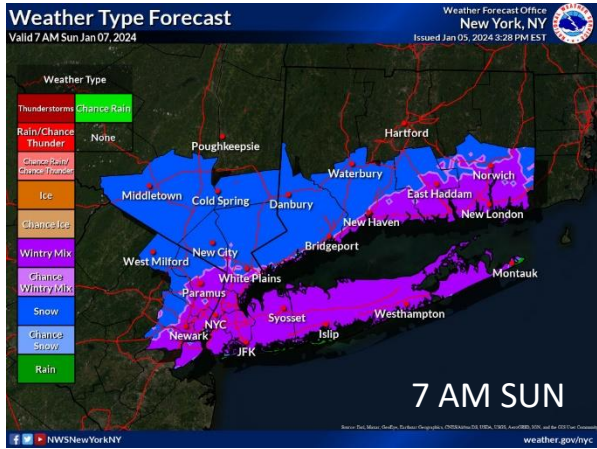
ISSUED: 1/5/2024 5:01 PM

www.weather.gov/nyc

Changeover Timing



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ISSUED: 1/5/2024 5:01 PM

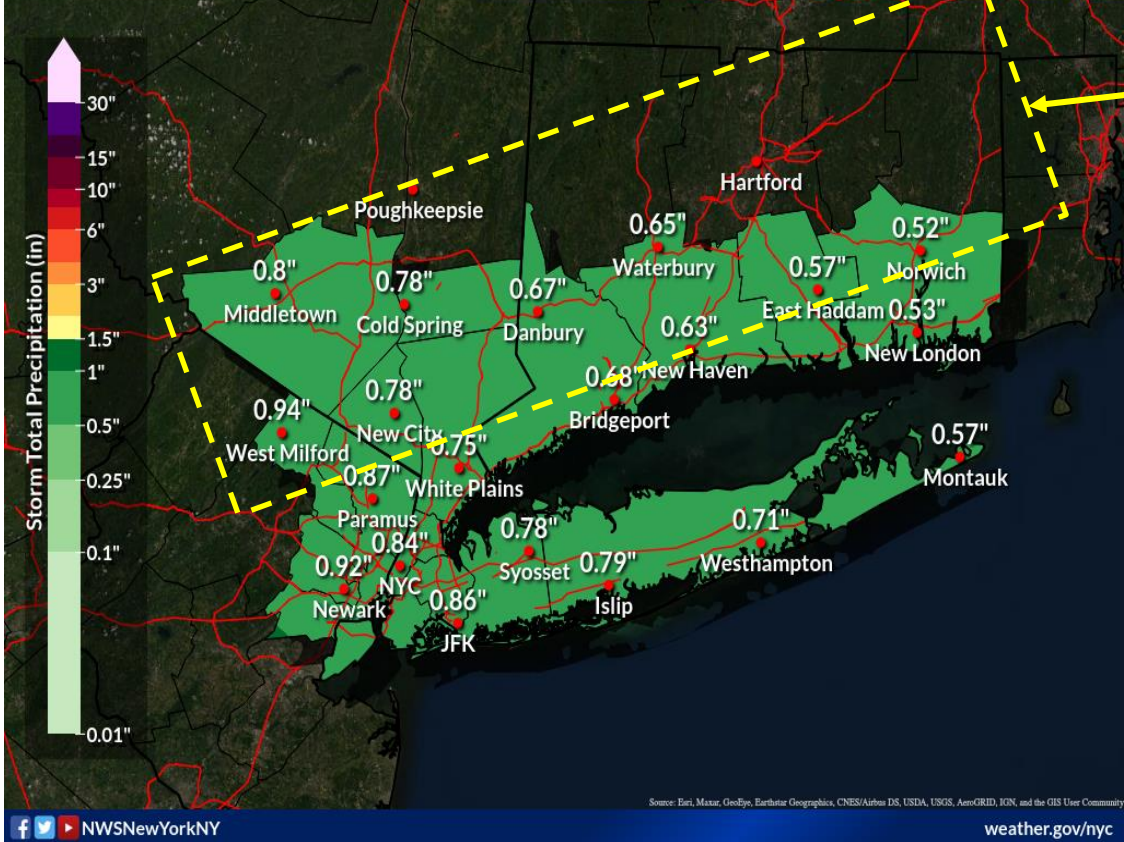
www.weather.gov/nyc

Most Likely Rainfall/Liquid Equivalent – Official Forecast



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Expected Rainfall/Liquid Equivalent - Official NWS Forecast
Weather Forecast Office
New York, NY
Valid Sat 1:00PM through Sun 7:00PM EST
Issued Jan 05, 2024 3:18 PM EST



This will mainly be liquid equivalent in form of snow.

f t NWSNewYorkNY

weather.gov/nyc

Source: Erii, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

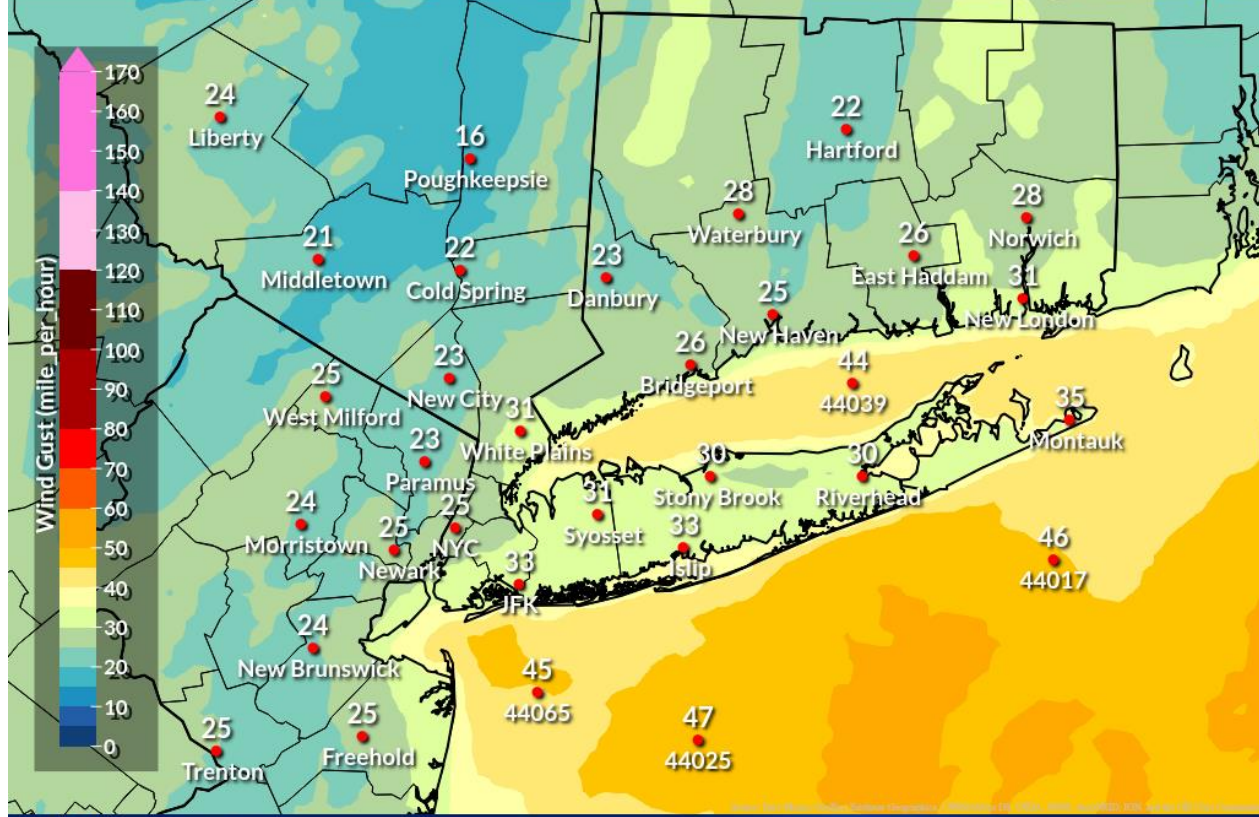
Maximum Wind Gust Forecast

Saturday's Maximum Wind Gusts

Weather Forecast Office
New York, NY

Valid Sat Jan 06 7:00AM through Sun Jan 07 7:00AM EST

Issued Jan 05, 2024 4:31 PM EST



Maximum Wind Gust Forecast

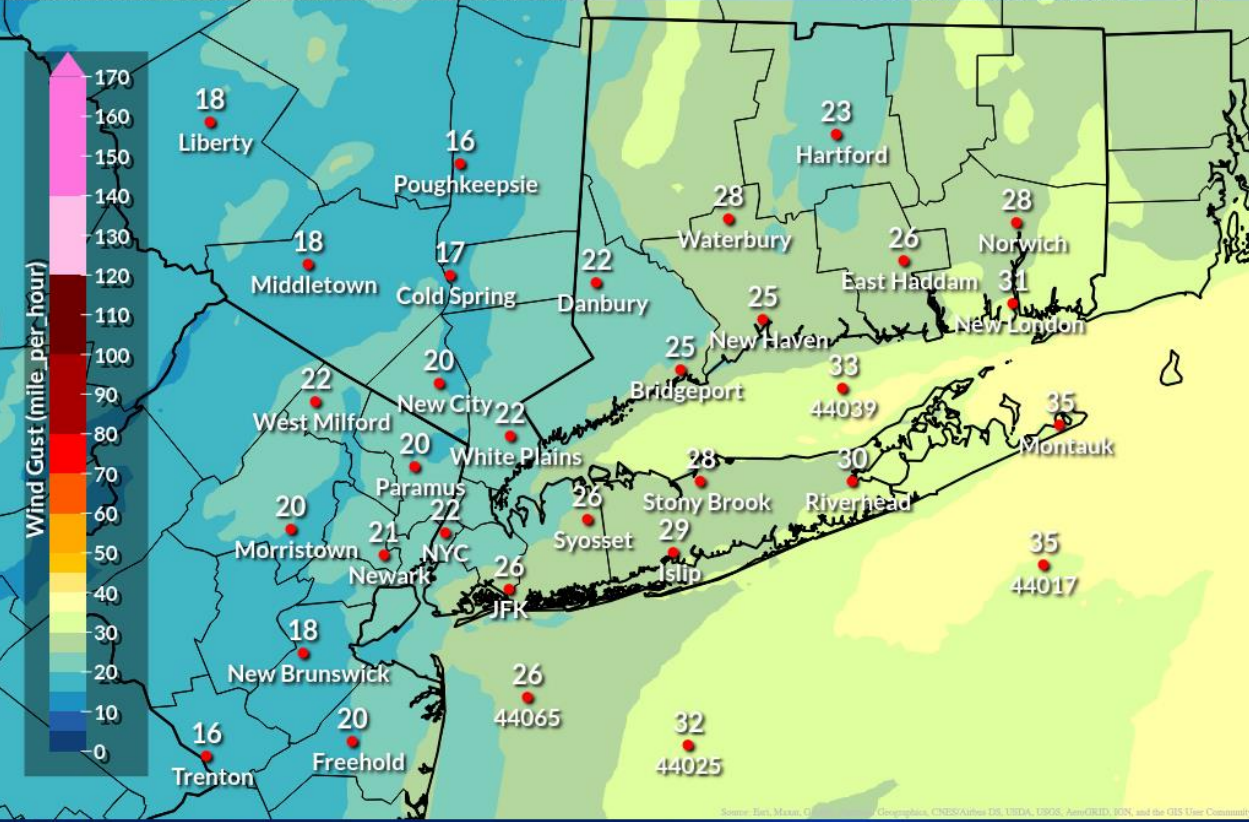


Sunday's Maximum Wind Gusts

Weather Forecast Office
New York, NY

Valid Sun Jan 07 7:00AM through Mon Jan 08 7:00AM EST

Issued Jan 05, 2024 4:32 PM EST



Major Storm System late Tuesday into Wednesday



Flood Hazard Outlook (Experimental): Northeast Flood Event
Issued: 2024-01-05 3:00 PM CST valid through 2024-01-12 3:00 PM CST | Next Issuance: 2024-01-06 3:00 PM CST

Flood Hazard Messages

Northeast and Mid-Atlantic

- Considerable flooding impacts, including moderate to major river flooding, will be possible in southeast NY and northern NJ beginning Tuesday.
- Elsewhere, minor to moderate flood impacts will be possible starting Tuesday through the week.

Considerable river flood impacts possible Tuesday Night into Wednesday

Disclaimer: This outlook provides an overview of potential flooding impacts. Please refer to detailed products issued by local National Weather Service offices for official forecasts and warnings. (www.weather.gov)

For more information and/or to provide feedback: https://www.weather.gov/products/PCF/PED_EngFloodHazardOutlook_2022.pdf

Moderate risk of flash flooding along quick responding rivers Tuesday Night into Wednesday

Day 5 Excessive Rainfall Outlook
 Valid 12Z Tue Jan 09 2024
 Thru 12Z Wed Jan 10 2024
 Issued: 1950Z Fri Jan 05 2024
 Forecaster: SCHICHEL
 DOC/NOAA/NWS/NCEP/WPC

Risk of rainfall exceeding flash flood guidance within 25 miles of a point

MDT: At Least 40% MRGL: At Least 5%
SLGT: At Least 15%

POTENTIAL HAZARDS & IMPACTS

FORECAST CHALLENGES

Flooding Rainfall Potential:

- **Total Rainfall Potential:** 2-4"+ of rainfall Tuesday Night into Wednesday
- **Significant River Flooding Potential:**
 - **Widespread minor to moderate river flooding is likely** Tuesday Night into Wednesday, particularly for the quick responding NE NJ and Lower Hud River basins. **Potential for major flooding along a few to several rivers if high end of rainfall forecasts realized.**
 - Significant rises expected along large stem rivers with minor to moderate flood potential.
- **Widespread urban and poor drainage flooding potential, with localized flash flood potential.**
- **Compounding flood factors:**
 - Streamflows and soil moisture are running anomalously high.
 - Heavy rainfall and runoff coinciding with high tide Wed AM.
 - 1/2" of snow water equivalent potential across interior.

Strong to Damaging Wind Potential:

- Moderate probability for 40-50 mph wind gusts across much of the region.
- **Low probability for 60+ mph wind gusts along the coast.**

Moderate to locally Major Coastal Flooding Potential

- Widespread moderate flooding (inundation 2 to 3 ft above ground) potential with the Wednesday morning high tide.
- **Locally major flooding (inundation 3+ ft above ground level) possible, particularly along southern bays of Long Island.**

Major Shoreline Impact Potential:

- 14 to 18 ft breaking surf.
- **Widespread dune erosion with scattered overwashes. Isolated breaches possible where dunes have been compromised by earlier storms.**

Marine:

- Gale conditions and 20 ft ocean seas likely Tuesday into Wednesday. **Storm conditions possible on the ocean late Tuesday into Wednesday**

This event is still 4 to 5 days away. Details will be refined late in the weekend into early next week.