



Hazardous Weather Briefing

3:00 PM ET

Monday, March 13th, 2023

*Prepared by: Michael Souza – MEMA Meteorologist
& NWS Boston/Norton*

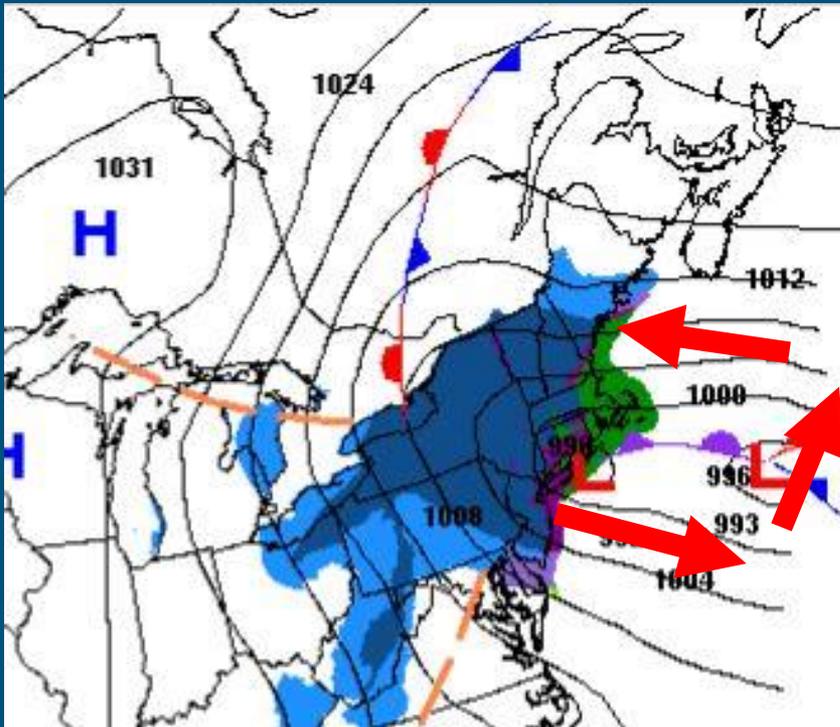
Massachusetts Emergency Management Agency

Strong Nor'easter Expected



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Management Agency

Tonight through Early Wednesday Morning



Surface Map: Valid 8AM Tuesday

- Strong Nor'easter expected late this evening through early Wednesday morning

Hazards Include:

- Heavy/wet snow and strong gusty wind leading to power outages and tree debris
- Widespread hazardous travel on Tuesday, *especially for northern/interior/western MA*
- Minor coastal flooding/beach erosion possible

Current NWS Headlines



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For Upcoming Nor'easter

Winter Storm Warning

8PM Tonight → 8AM Wed

Winter Storm Watch

This Evening → Wed AM

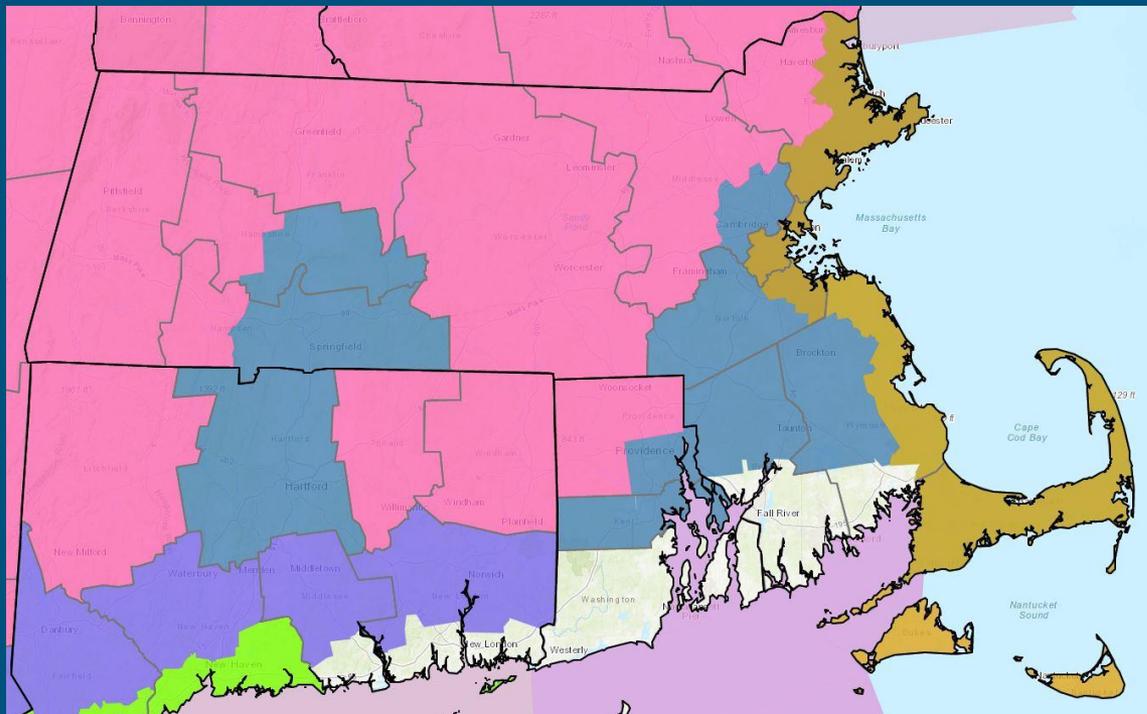
*(Likely to become an **advisory**)*

High Wind Warning

8AM Tue → 8AM Wed

Coastal Flood Watch

Late Tue Night → Wed AM



Additional NWS Headlines are likely by late this afternoon/tonight where any watches become warnings or advisories

Expected Snowfall



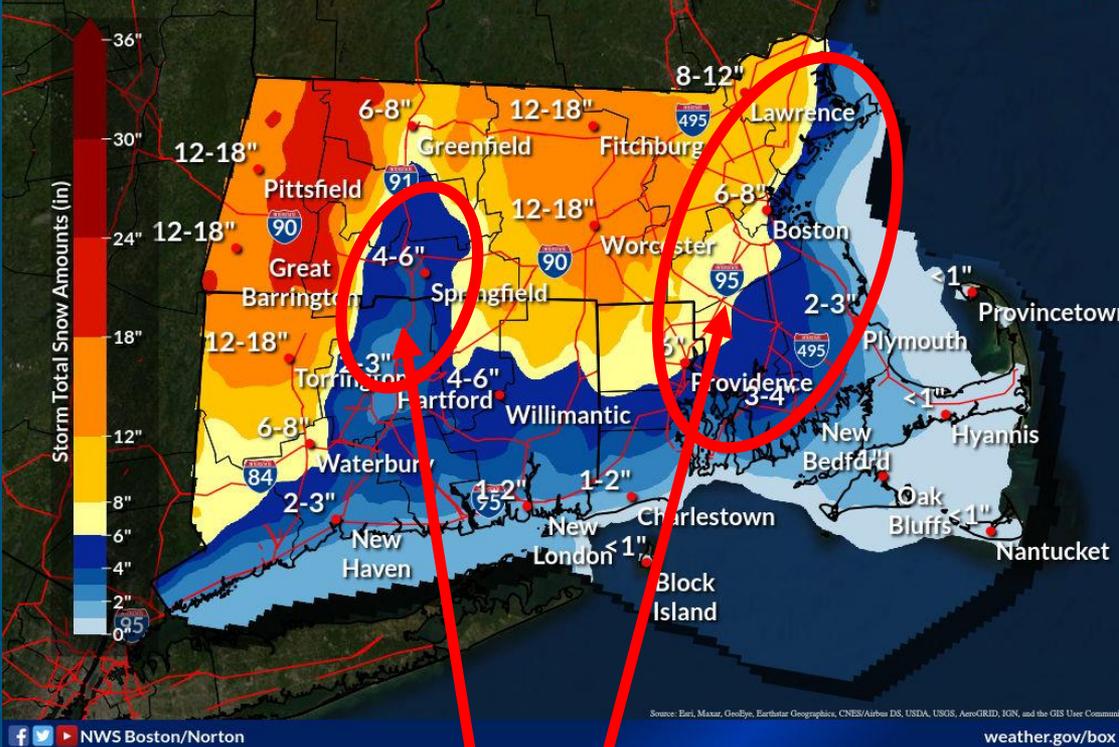
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Highest Confidence Amounts

Event Total Snowfall

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

Weather Forecast Office
Boston/Norton, MA
Issued Mar 13, 2023 5:57 AM EDT



- Highest snowfall amounts across the Berkshires & Worcester, Middlesex, and Essex county
- Lesser amounts closer to the coastal plain and along the Southcoast/Southshore

Areas of Highest Uncertainty Regarding Snow Totals:

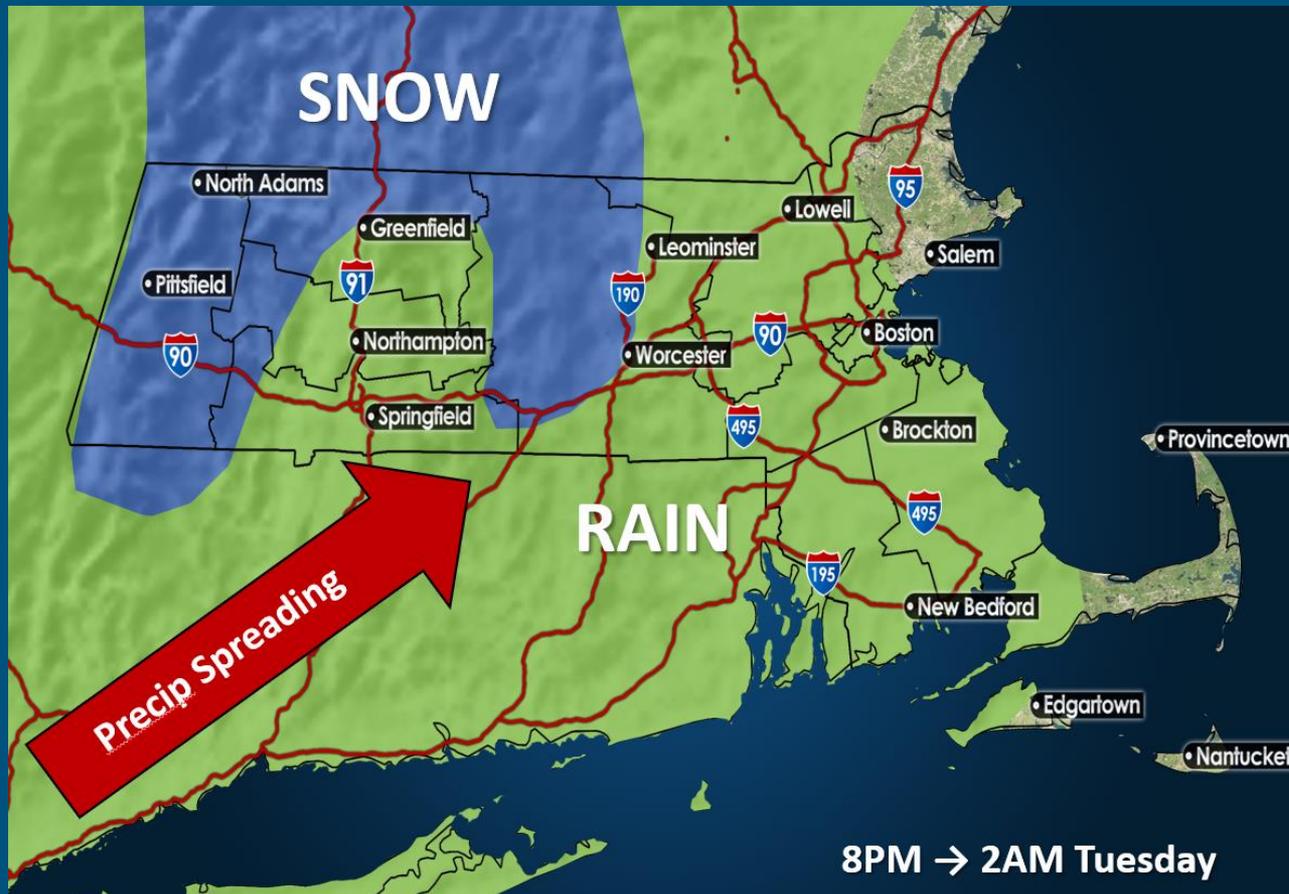
If heavier snow bands DON'T develop in these areas, snow totals will be lower. However, threat is too close to call

Storm Timeline - I



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Precipitation Types and Onset Times



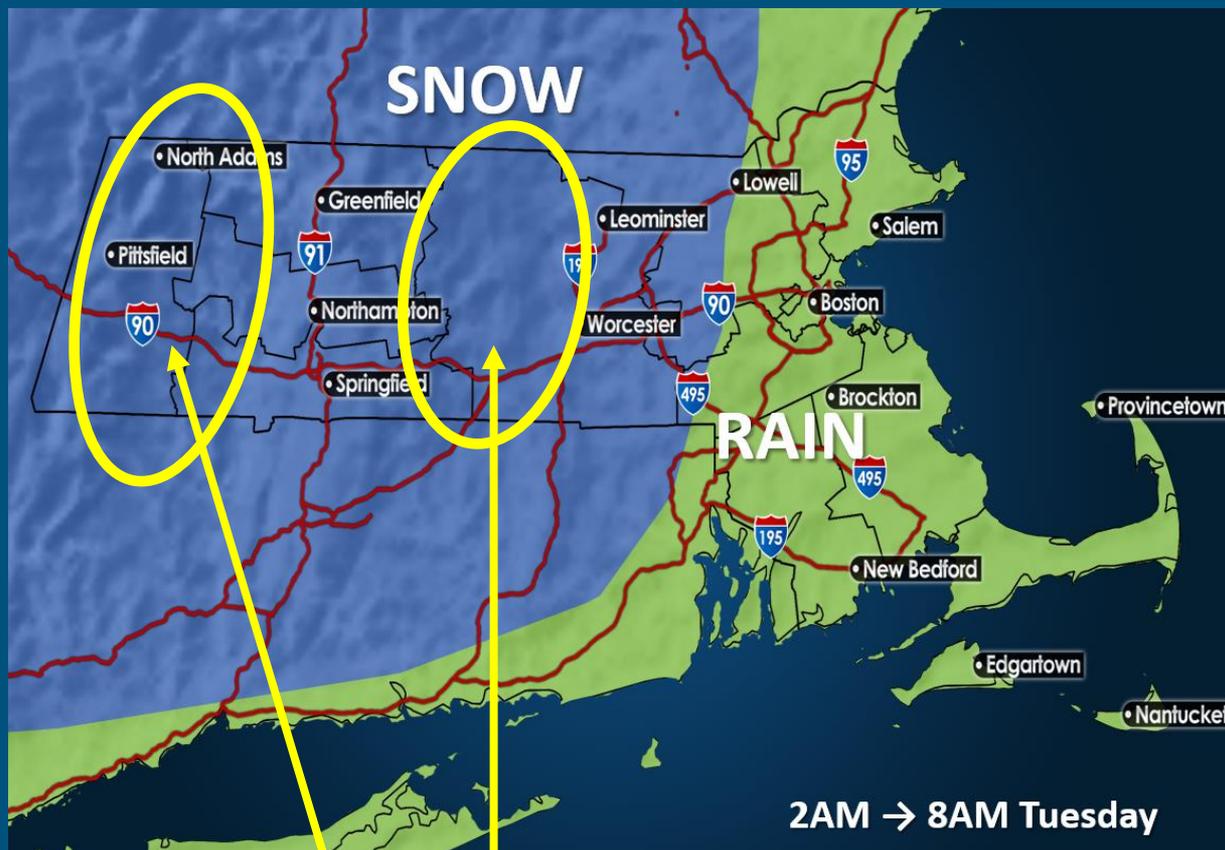
- Precipitation spreads east-northeastward this evening through late tonight
- Begins as rain for most with temperatures above freezing
- Colder over the Berkshires and Worcester County where it's likely to begin and end as all snow
- Some heavier 1"/hr rates begin over the Berkshires closer to midnight

Storm Timeline - 2



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Precipitation Types and Onset Times



- Cold air begins to push south and east as rain changes over to snow (remains as snow)
- Still mostly rain across eastern MA but will soon change over to all snow by mid AM
- 1-2"/hr rates persist over the Berkshires
- Near 1"/hr rates begin over Worcester County by 6-8AM

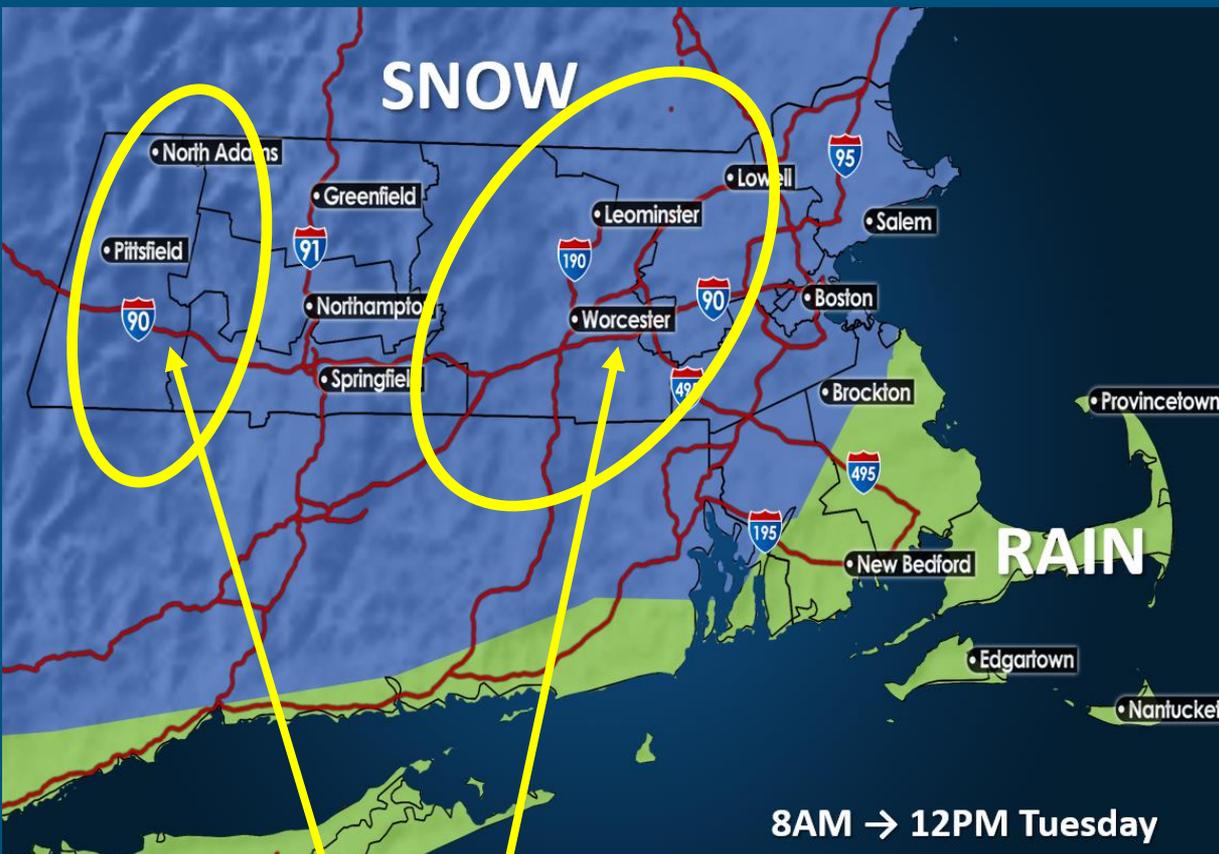
Storm Timeline - 3



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Precipitation Types and Onset Times

- Cold air continues to quickly push south and east as rain changes over to snow
- Any rain more confined to the Southcoast, Cape/Islands
- 1-2"/hr rates persist over the Berkshires and north-central MA



Areas of 1-2"/hr Snowfall Rates

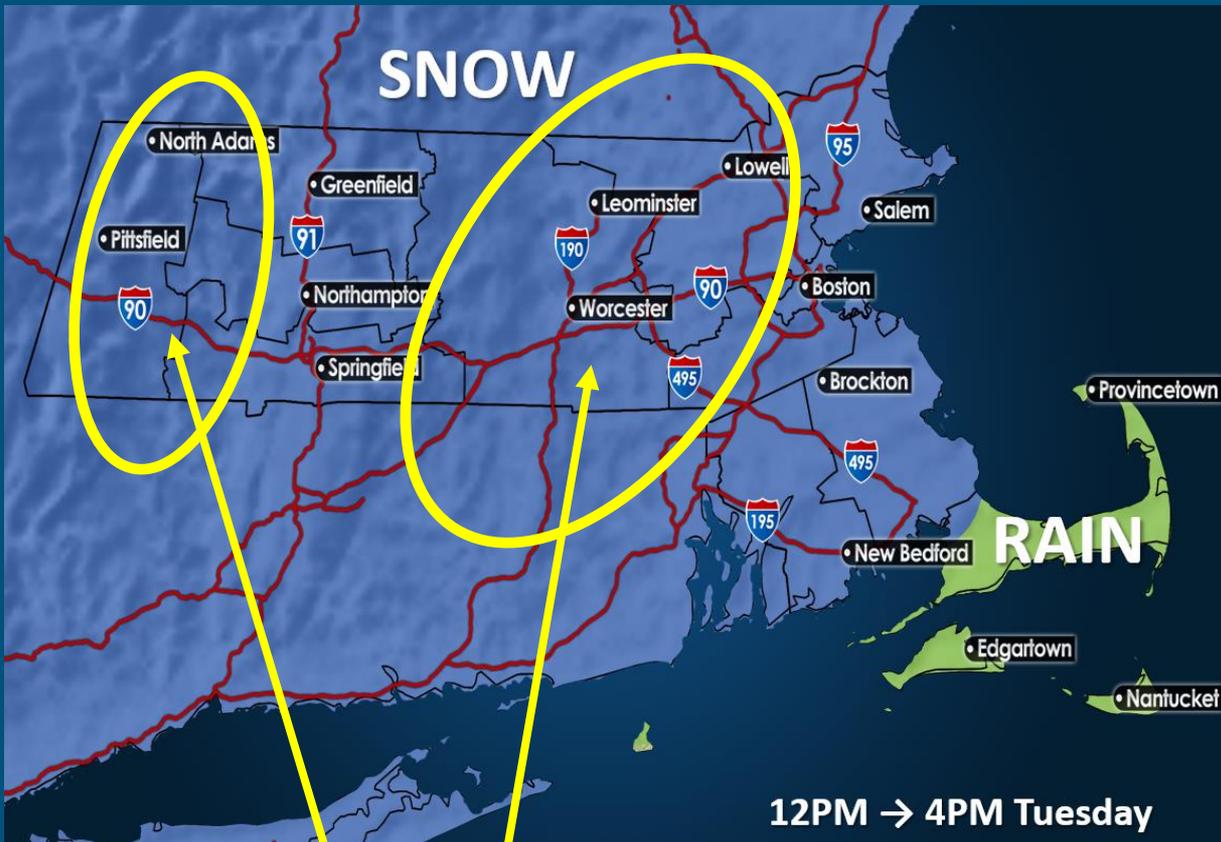
Storm Timeline - 4



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Precipitation Types and Onset Times

- Cold air continues to quickly push south and east as rain changes over to snow (remains as snow)
- Any rain more confined Cape/Islands, expected to change over to snow by 4-6PM
- 1"/hr rates persist over the Berkshires and expand into eastern MA



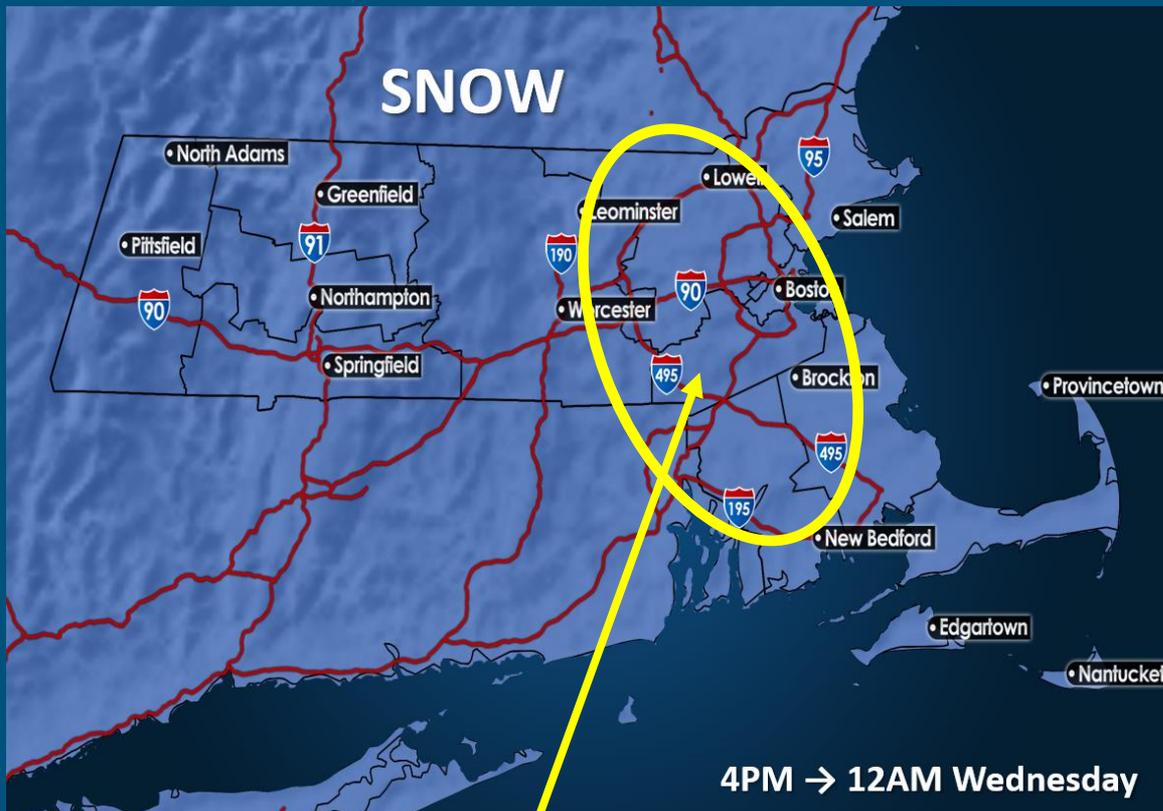
Areas of 1"/hr Snowfall Rates

Storm Timeline - 5



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Precipitation Types and Onset Times



Possible redeveloping period of moderate snowfall

- Snow continues through Tuesday night
- Some 0.5"/hr rates may redevelop over eastern MA by 8-10 PM, threat lingers through midnight
- Snow begins to taper to snow showers overnight into early Wed AM and end from west to east by 5-9AM
(perhaps closer to 10AM-noon over the Cape)

High/Low End Snowfall

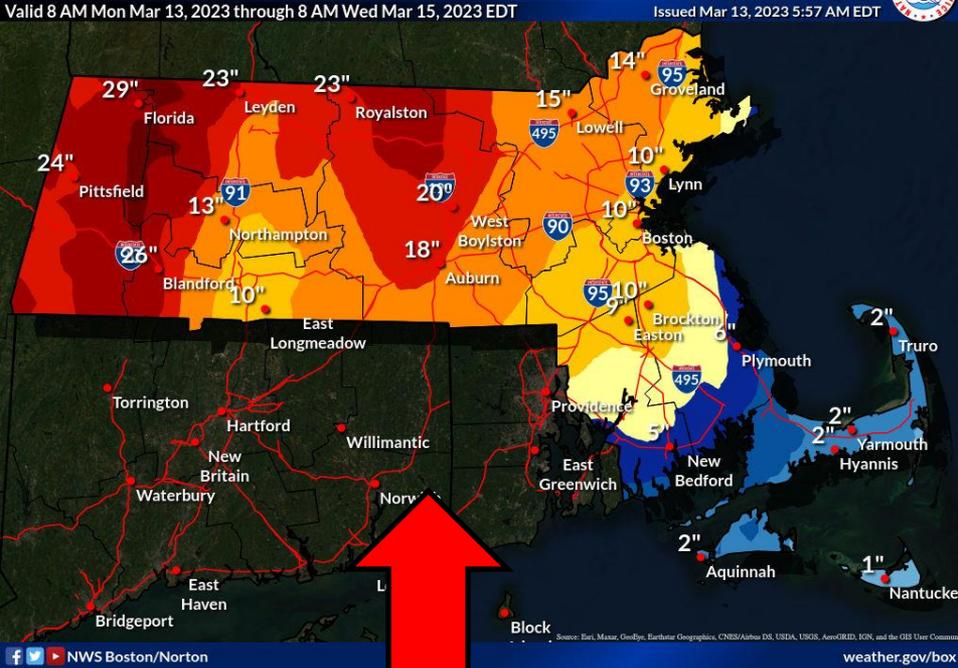


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Best/Worst Case Scenarios

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

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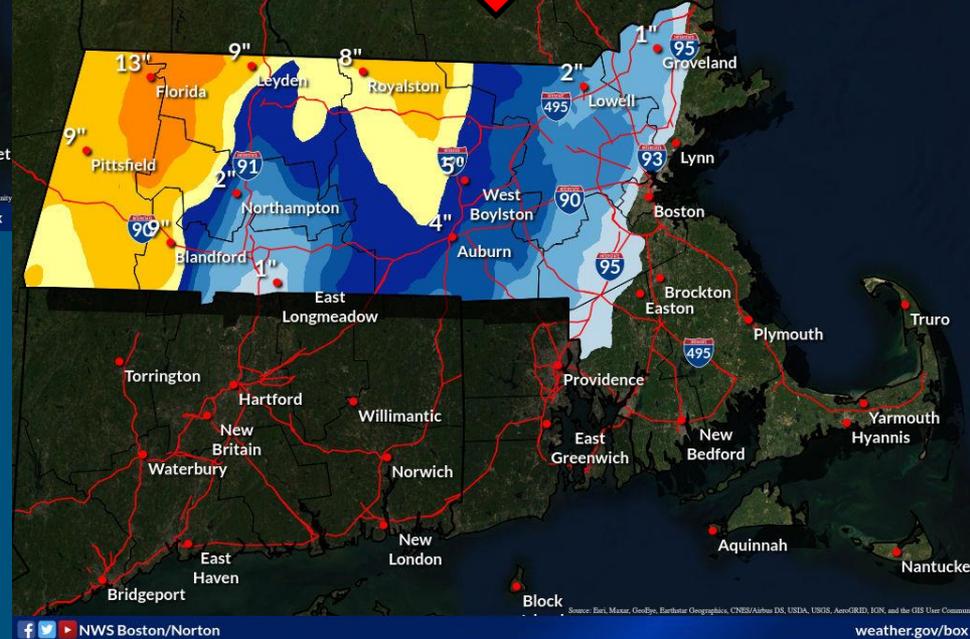


Highest Possible Amounts
(Worse case if storm strengthens more, producing more cold air and snowfall)

Lowest Possible Amounts

(Best Case if storm tracks more north and west, allowing more rain to mix with snow)

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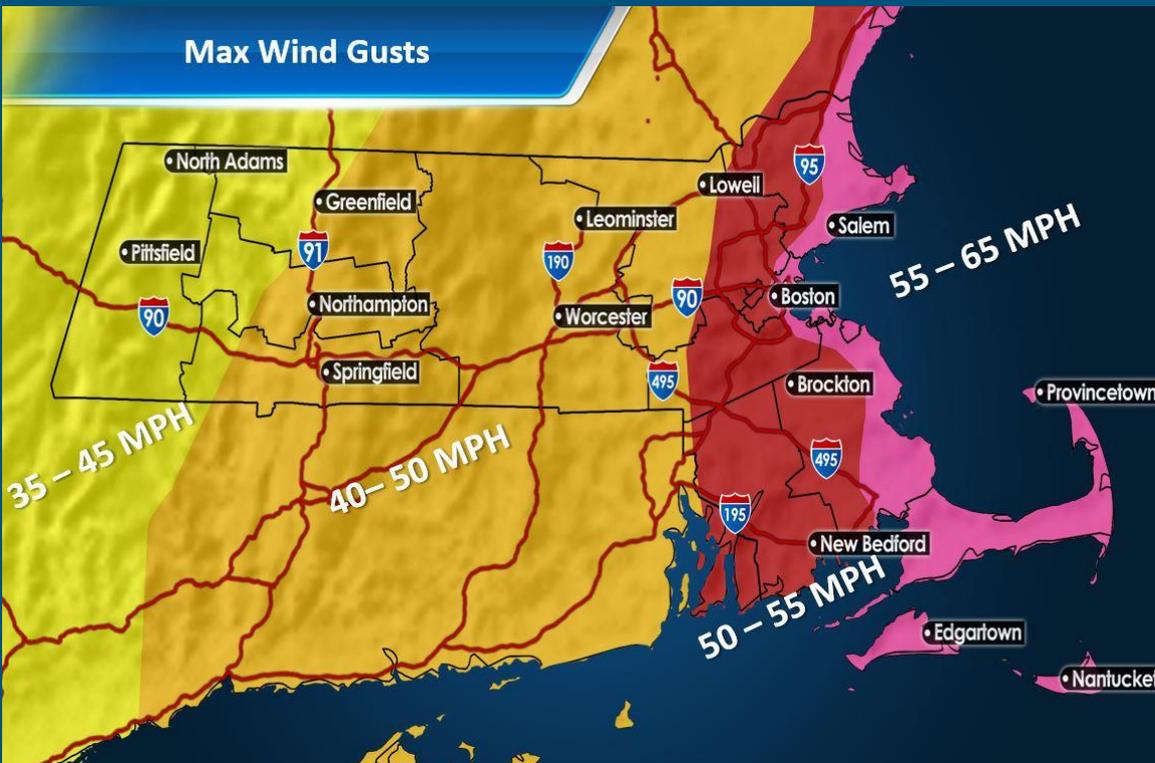


Wind Gust Potential



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Tuesday Morning Through Late Tuesday Night



Widespread Power Outage Potential Exists

Combination of heavy/wet snow along with strong gusty wind will lead to more widespread power outage potential

- Strongest wind gusts across the eastern coastline, Cape and the Islands
- Lesser wind gusts further inland
- Strongest wind gusts likely to occur between 8AM through 10PM Tue
- Wind gusts slightly decrease but remain elevated into Wed (30-40 mph gusts) which may prevent power restoration efforts

Coastal Flooding Potential



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Late Tue Night into Wed AM High Tide

Minor
Coastal
Flooding
Potential
Areas



- Low astronomical tides help with limiting coastal flood potential
- However strong and persistent onshore flow will allow water to pile up along the coastline
- This leads to the possibility of minor coastal flooding across the eastern shoreline during the high tide which may cause flooding across low lying vulnerable roadways
- Low chance at seeing any isolated pockets of moderate flooding (*Scituate, Morrissey Blvd Boston, Hull, etc*)
- Large waves may cause beach erosion

Recap



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Tonight through Early Wednesday Morning

- Strong and long lasting Nor'easter to impact the region late tonight through Wednesday morning
- Widespread hazardous travel on Tuesday, *especially for interior/western MA and areas north of the MA Pike*
- Widespread heavy/wet/plowable snow
- Strong gusty winds, *especially along coastal MA*
- Widespread power outage potential
- Minor coastal flooding/beach erosion possible

Latest Forecast Updates: Weather.gov/box/winter

Questions? Contact:

Michael Souza, CCM
Agency Meteorologist
Massachusetts Emergency Management Agency
400 Worcester Road, Framingham, MA 01702
Cell: 774-279-4087
E-Mail: Michael.Souza@mass.gov

NWS Boston/Norton
E-Mail: Box.Operations@NOAA.gov
Phone: 508.622.3250