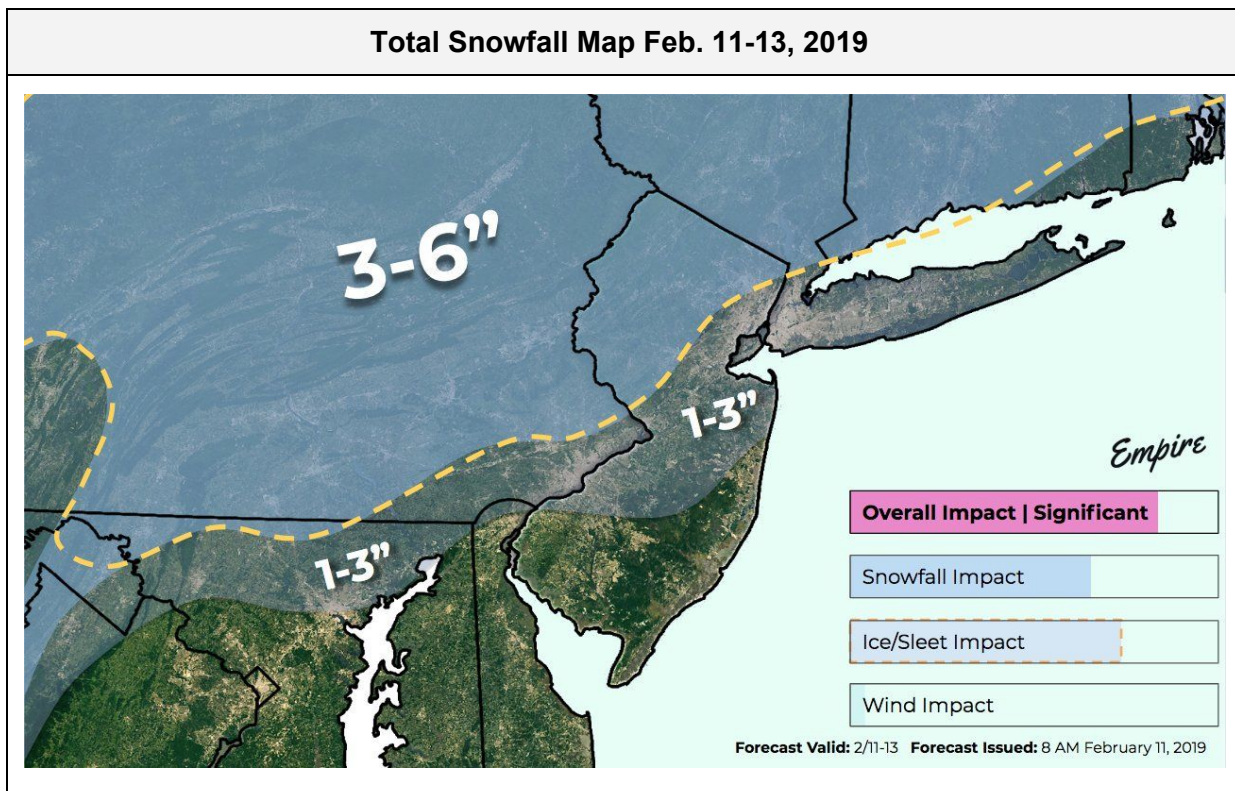


Hazards Overview & Briefing			Next Update: As Needed
Possible Impact	Expected Snow/Ice	Timing	Confidence
Notable	1-3" Snow & Up to 0.10" Ice Possible	Start: 6-8am Tue End: 3-5am Wed	Moderate
Forecast Update: Snow arrives early Tuesday morning, accumulates 1"-3" before it changes to sleet/freezing late morning and afternoon. A change to plain rain occurs Tuesday evening.			



Synoptic Briefing

A large winter storm system tracking over the Great Lakes region bring some snow, sleet and freezing rain on Tuesday. A band of snow will begin moving in from the south later tonight, but strong Arctic high pressure to north will delay this band from reaching Northeast NJ until the early Tuesday morning commute. By late Tuesday morning, warmer air moving in aloft will already cause snow to change to sleet and then to freezing rain as the day progresses. Before the changeover, snow will accumulate 1-3 inches in Secaucus, NJ. Sleet and freezing rain will continue for most of the day, before gradually changing to plain rain from south to north Tuesday evening. Rain may become heavy at times, before ending late Tuesday night. Timing of this change over is detailed in the timing section below.

Timing

Mostly cloudy skies but dry conditions will continue through tonight. We now expect snow to move into the area between 6-8am Tuesday morning. Snow will initially be light, until around 9am-10am, when snow intensity will likely increase before changing to sleet and freezing rain from south to north between 10am-12pm Tuesday. This wintry mix will continue through Tuesday afternoon before all precipitation changes to plain rain between 6-8pm Tuesday. Rain may become heavy at times, before ending late Tuesday night or early Wednesday morning. A detailed precipitation type breakdown can be found below:

- Snow Start: 6-8am Tue**
- Change to Sleet/Freezing Rain: 10am-12pm Tue**
- Change to Rain: 6-8pm Tue**
- Rain Ends: 3-5am Wed**

Potential Impacts and Uncertainties

The uncertainties to the forecast are as follows:

1. What time does snow arrive late tonight or tomorrow morning? Slightly earlier onset may allow for the higher end of totals.
2. How much snow falls before it changes to sleet and then freezing rain?

Bands of snow may have a tough time pushing north into Northeast NJ with drier air in the lower levels from strong arctic high pressure to the north. Eventually the lower levels will moisten enough to allow for these bands to move further north during the morning hours. But there might only be 1-2 hours of steadier, heavier snow falling that accumulates more effectively, before a change to sleet late in the morning. This could mean snowfall totals are lower.

Another smaller possibility is that the dry air actually enhances the banding with stronger lift in the atmosphere and thus snow is falling very heavy at times. This could delay warmer air from moving in aloft and the subsequent changeover to sleet/freezing rain for another few hours into the late morning or early afternoon hours. This could result in higher snowfall totals.

- Boom scenario (more snow than expected - 10% probability): 3-6" snow
- Bust scenario (less snow than expected - 20% probability): C-1" snow
- Expected scenario - 70% probability: 1-3" snow and up to .10" of ice possible.



Location Snowfall Forecast		
Location	Forecast Accumulation	Forecast Impact Level
SAMPLE LOCATION	1-3" snow, up to .10" ice possible	Notable

Last Updated: 12:30pm EST SAMPLE | **Forecaster:** Vallee