



Rain, Flooding, Snow & Ice

February 16, 2022
3:07 PM

Overview

Key Messages

- Wind Advisory in effect today (through tonight in OH)
 - ◆ Gusts 35 to 45 mph from the south
- Rain begins this afternoon, continues into Thu AM
 - ◆ Heavy at times late tonight into Thu AM
 - ◆ Minor Flooding Expected into weekend
- Rain transitions to snow from NW to SE Thu
 - ◆ A period of freezing rain and sleet expected
 - ◆ Heavy snow rates Thu afternoon
- Winter Storm Warnings & Advisories issued. Flood Watch remains in effect

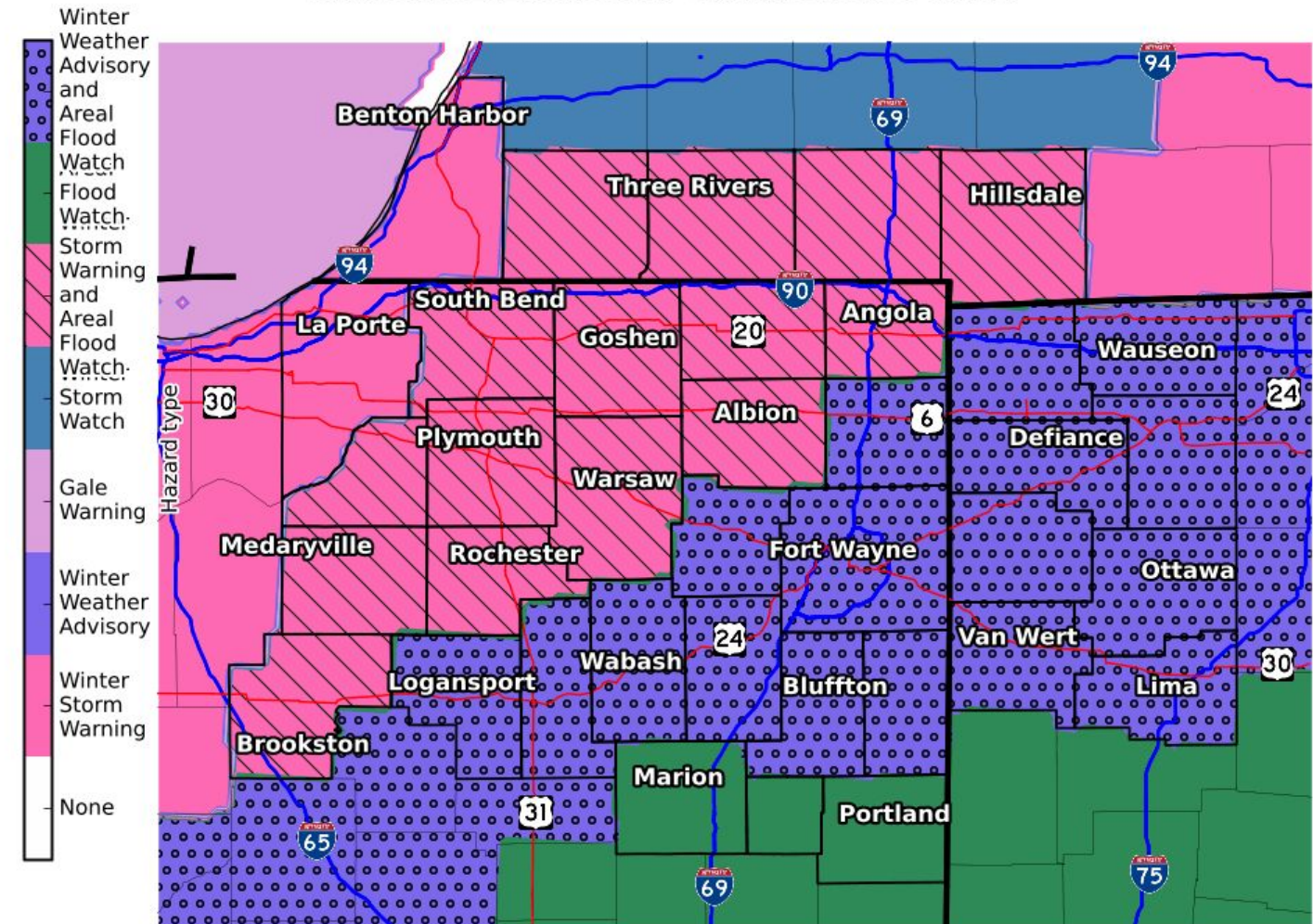
NEW Important Updates

- Winter Storm Watch upgraded. Wind advisory extended in OH. Snow increased & shifted SE

Next Scheduled Briefing

- Thursday Morning

Watch, Warning and Advisory Thursday Evening
Valid: 02/17/2022 04:00 PM - 02/17/2022 07:00 PM EST



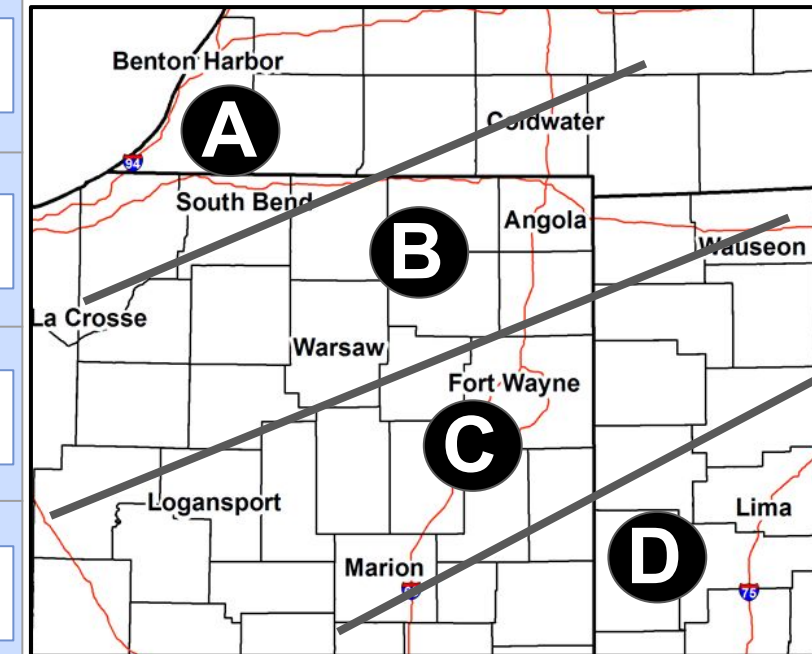


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Timeline

| | Wed 6 PM-12 AM | Thu 12 AM-6 AM | Thu 6 AM-12 PM | Thu 12 PM-6 PM | Thu 6 PM-12 AM | Fri 12 AM-6 AM |
|---|-------------------|-------------------|-----------------------|-------------------|-------------------|-------------------|
| A | | | 4-8" Snow; <0.1" Ice | | | |
| B | | | 6-10" Snow; <0.1" Ice | | | |
| C | | | 2-5" Snow; <0.1" Ice | | | |
| D | | | Little Snow/Ice | | | |



| | | | | |
|---------------|---------------|----------------------------|--------------------------------|---------------------|
| Light Rain | Light Snow | Light Sleet/Ice Pellets | Light Freezing Rain/Drizzle | Light Wintry Mix |
| Moderate Rain | Moderate Snow | Moderate Sleet/Ice Pellets | Moderate Freezing Rain/Drizzle | Moderate Wintry Mix |
| Heavy Rain | Heavy Snow | Heavy Sleet/Ice Pellets | Heavy Freezing Rain/Drizzle | Heavy Wintry Mix |



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Expected River Flooding - Maumee Basin of Indiana

Height in Feet - Current | Forecast

| | | |
|----------------------------------|-----|------|
| Maumee River: Fort Wayne | 3.5 | 19.2 |
| Spy Run: Ft. Wayne Childrens Zoo | 5.9 | None |
| St. Mary's River: Decatur | 5.7 | 19.6 |
| St. Mary's R Muldoon: Fort Wayne | 4 | 15.4 |
| St. Joseph River: Newville | 5.6 | 13 |
| St. Joseph River: Fort Wayne | 2.6 | 11.6 |

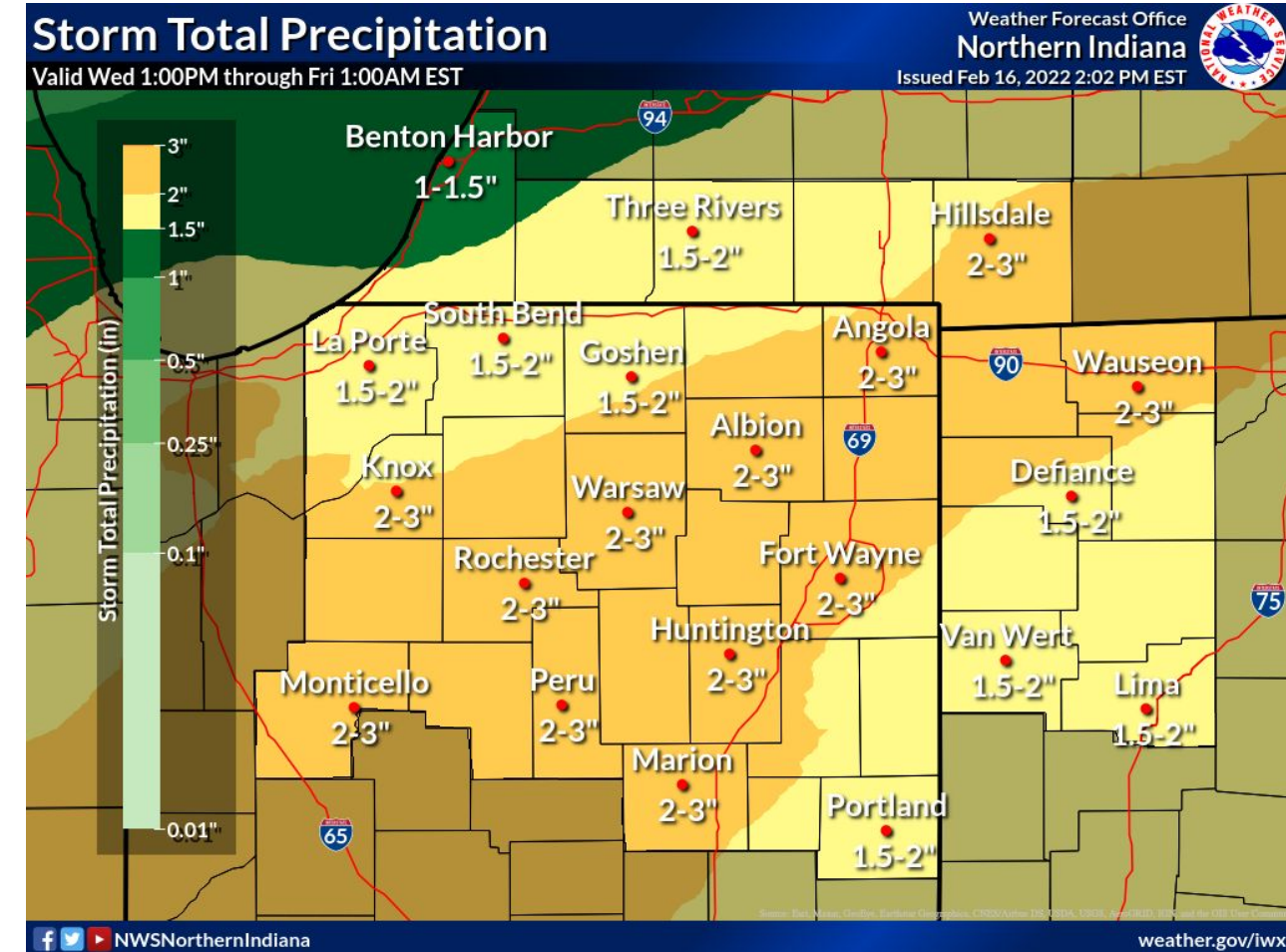
Action Stage

Minor Flood Stage

Moderate Flood Stage

Major Flood Stage

Forecast Liquid Precipitation This Afternoon-Thu Evening*



- Cresting late Friday into Saturday (Newville later)
- Does NOT consider ice jams. Ice jams can lead to rapid water level fluctuations with little or no advance notice.
- For details visit water.weather.gov

*Some of this will fall as snow, particularly northwest



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Expected River Flooding - Maumee Basin of Ohio

Height in Feet - Current | Forecast

| | Current | Forecast |
|------------------------------|---------|----------|
| Maumee River: Defiance | N/A | 10.8 |
| Maumee River: Napoleon | 3.1 | 14.9 |
| St. Joseph River: Montpelier | 5.2 | 12.4 |
| Auglaize River: Ft. Jennings | 2.3 | 15.8 |
| Ottawa River: Kalida | 4.9 | 18.7 |
| Tiffin River: Stryker | 5 | 13.4 |
| Blanchard River: Ottawa | 8.4 | 25.6 |
| Auglaize River: Defiance | 7.9 | 22.5 |

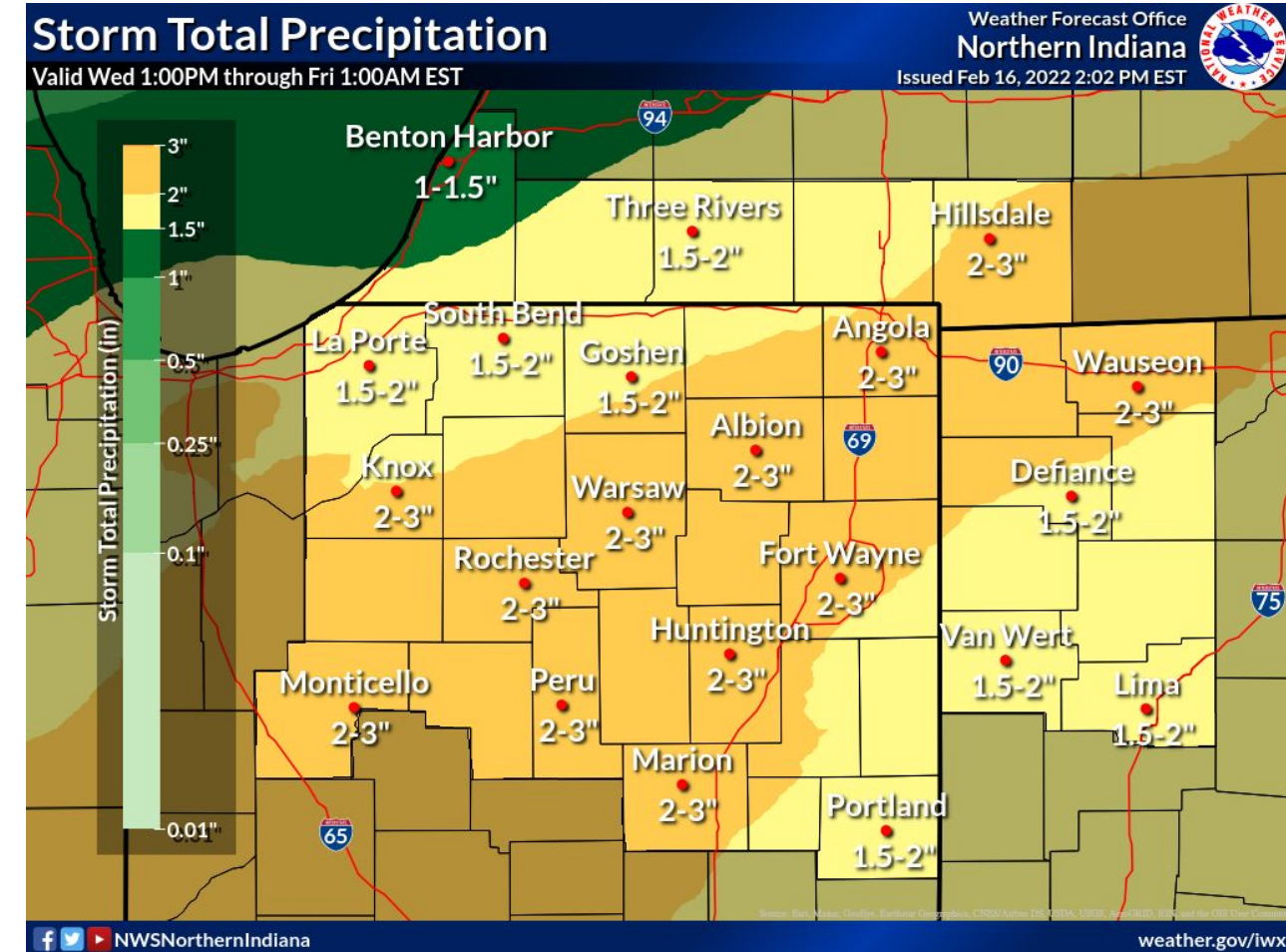
Action Stage

Minor Flood Stage

Moderate Flood Stage

Major Flood Stage

Forecast Liquid Precipitation This Afternoon-Thu Evening*



- Cresting late Friday into Saturday (Montpelier & Ottawa later)
- Does NOT consider ice jams. Heavy ice on Maumee river.
- For details visit water.weather.gov

*Some of this will fall as snow, particularly northwest



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Expected River Flooding - Wabash Basin

Height in Feet - Current | Forecast

| Location | Current | Forecast |
|---------------------------------|---------|----------|
| Wabash River: Bluffton | 2.3 | 13.6 |
| Wabash River: Linn Grove | 5.5 | 13.9 |
| Wabash River: Logansport | 4.6 | None |
| Wabash River: Wabash | 4.6 | 13.8 |
| Eel River: North Manchester | 3.6 | 13.8 |
| Little River: Huntington | 3.2 | None |
| Mississinewa River: Marion | 1.8 | None |
| Salamonie River: Portland | 2.6 | 11.9 |
| Salamonie River: Warren | 6.9 | 12 |
| Tippecanoe River: Ora | 7.9 | 12 |
| Tippecanoe River: Winamac (DCP) | 6 | 9.4 |

Action Stage

Minor Flood Stage

Moderate Flood Stage

Major Flood Stage

- Cresting Friday (Portland Thursday night, Ora Sunday)
- Does NOT consider ice jams. Heavy ice on Salamonie and downstream portions of Wabash.
- For details visit water.weather.gov



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Expected River Flooding - St. Joseph (MI/IN) & Kankakee Basins

Height in Feet - Current | Forecast

| | Current | Forecast |
|---------------------------------|---------|----------|
| St. Joseph River: Three Rivers | 4.6 | 7.1 |
| St. Joseph River: Mottville | 3.7 | None |
| St. Joseph River: Elkhart | 19.6 | 23.4 |
| St. Joseph River: South Bend | 1.1 | 5.4 |
| St. Joseph River: Niles | 6.1 | 10.4 |
| Elkhart River: Goshen | 3.1 | 6.9 |
| N Branch Elkhart R: Cosperville | 4.2 | 6.8 |
| Kankakee River: Davis | 6.1 | 9.6 |
| Yellow River: Plymouth | 5.4 | 13.9 |
| Yellow River: Knox | 5.6 | None |

Action Stage

Minor Flood Stage

Moderate Flood Stage

Major Flood Stage

- Cresting late weekend (Plymouth Friday night)
- Does NOT consider ice jams.
- For details visit water.weather.gov



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Phase 2: Snow/Ice

Forecast Uncertainties



Still some uncertainty in exact changeover time which would impact the snow totals, but confidence is growing in placement of axis of highest snowfall totals. Also uncertainty on exact ice amounts.

Snow Rates/Character



Rates near 2"/hr possible late Thursday afternoon into early evening. Snow will initially be wet/heavy but transitions to "normal" late Thursday

Winds

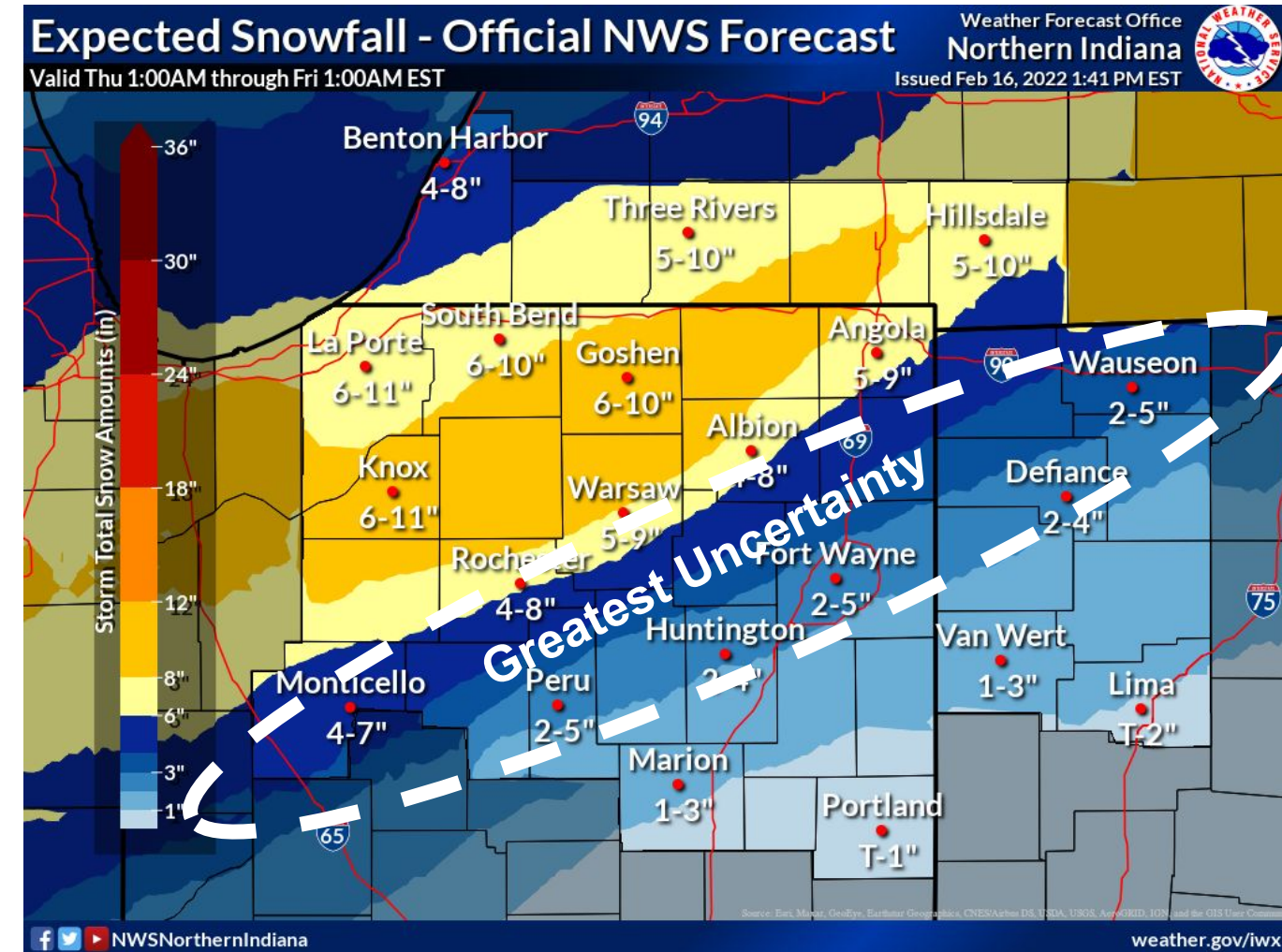


North to northeast winds gusting to 30 mph will lead to blowing/drifting snow Thursday afternoon & evening, resulting in further reduced visibilities.

Impacts



Significant travel impacts are increasingly likely, especially for the Thursday afternoon & evening commute. **Plan for potentially greatly increased travel times!**

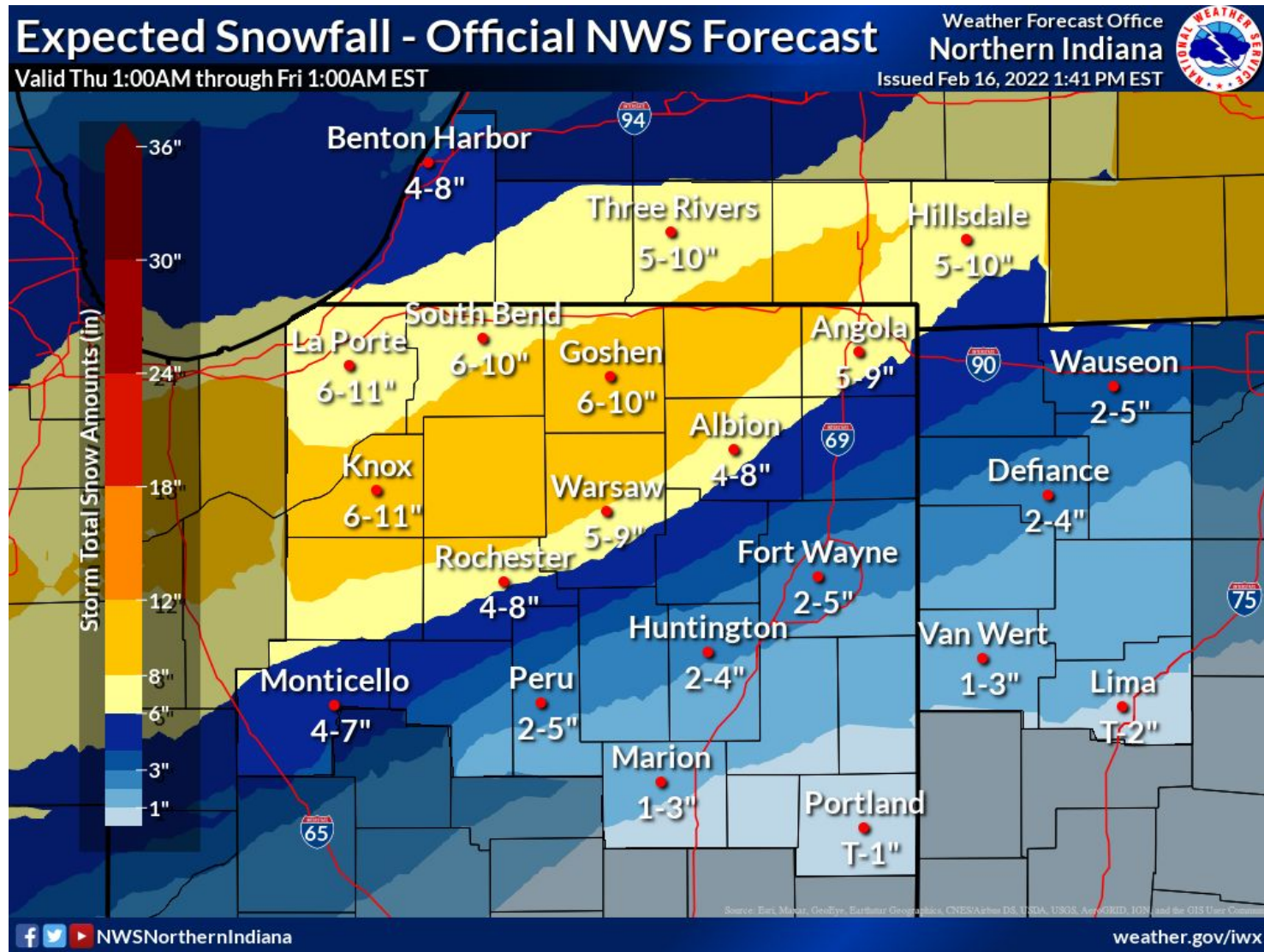




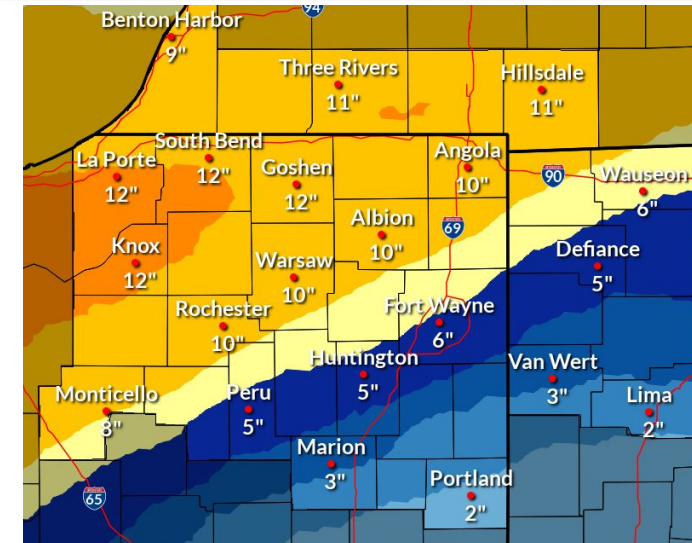
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Expected Snowfall

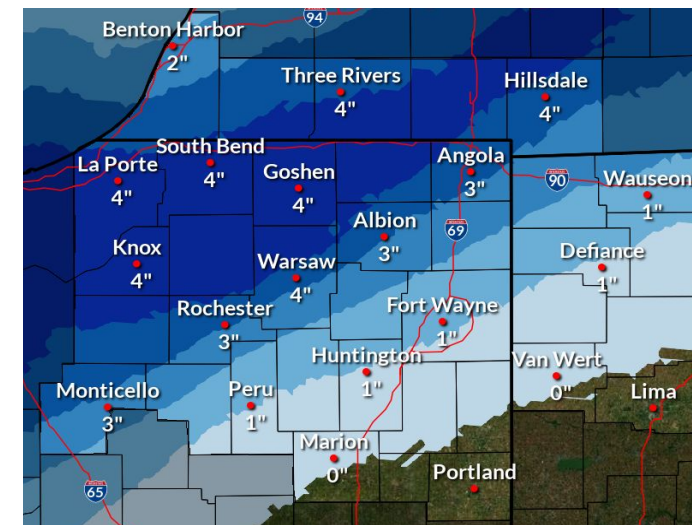


Expected Snowfall Thursday



High End Amount

1 in 10 Chance (10%) of Higher Snowfall



Low End Amount

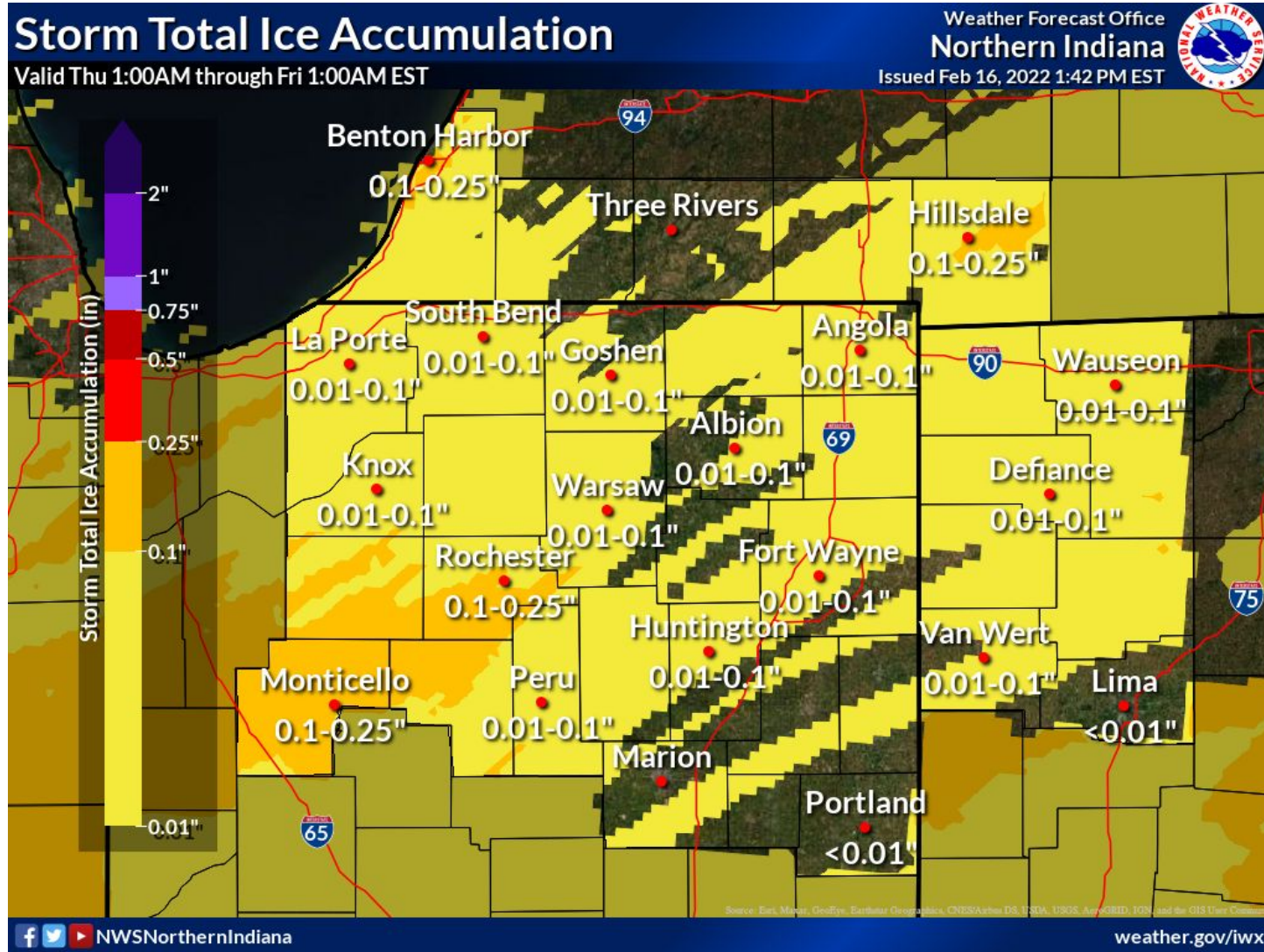
9 in 10 Chance (90%) of Higher Snowfall



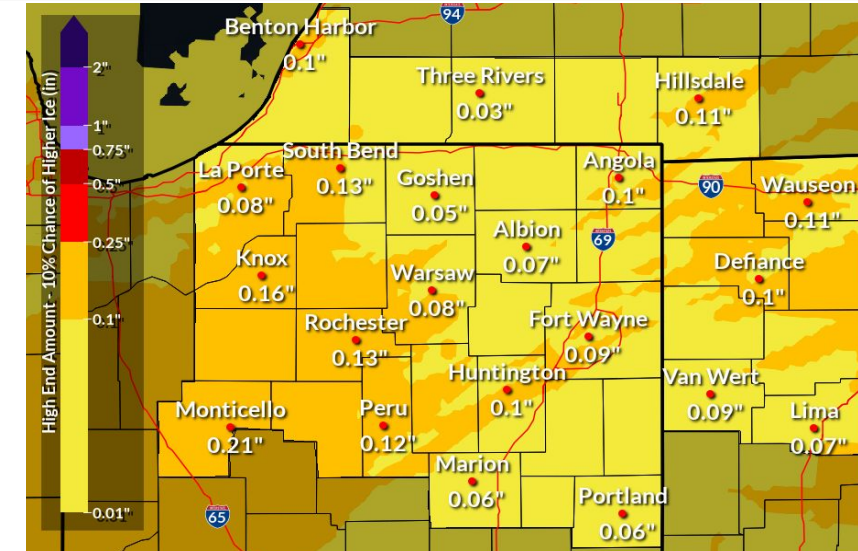
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Expected Ice Accumulation



Expected Ice Accumulation Thursday



High End Amount 1 in 10 Chance (10%) of Higher Ice Accum



Low End Amount 9 in 10 Chance (90%) of Higher Ice Accum

National Weather Service
Northern Indiana



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Forecast Confidence Levels

Snow Amounts



Ice/Freezing Rain Amounts



Rain Amounts/Flooding



Timing



Confidence Details

→ Timing of arrival of the cold air is still somewhat uncertain. This lends uncertainty with respect to precipitation type, snow and ice totals, especially along US-24.

Alternate Scenarios

→ A shift in the storm track on Thursday would result in a faster transition to snow which would result in higher snowfall totals and less flooding.



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Looking Ahead



Temperatures and Wind Chills:

Thu night/Fri AM: 7 to 15° (Feels like -5 to 5°)

Friday: 26 to 31°

Winds:

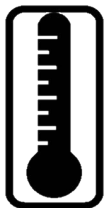
Thu night: From the north 10-15 mph, gusts to 20 mph

Friday: Turning southwest 10-15 mph



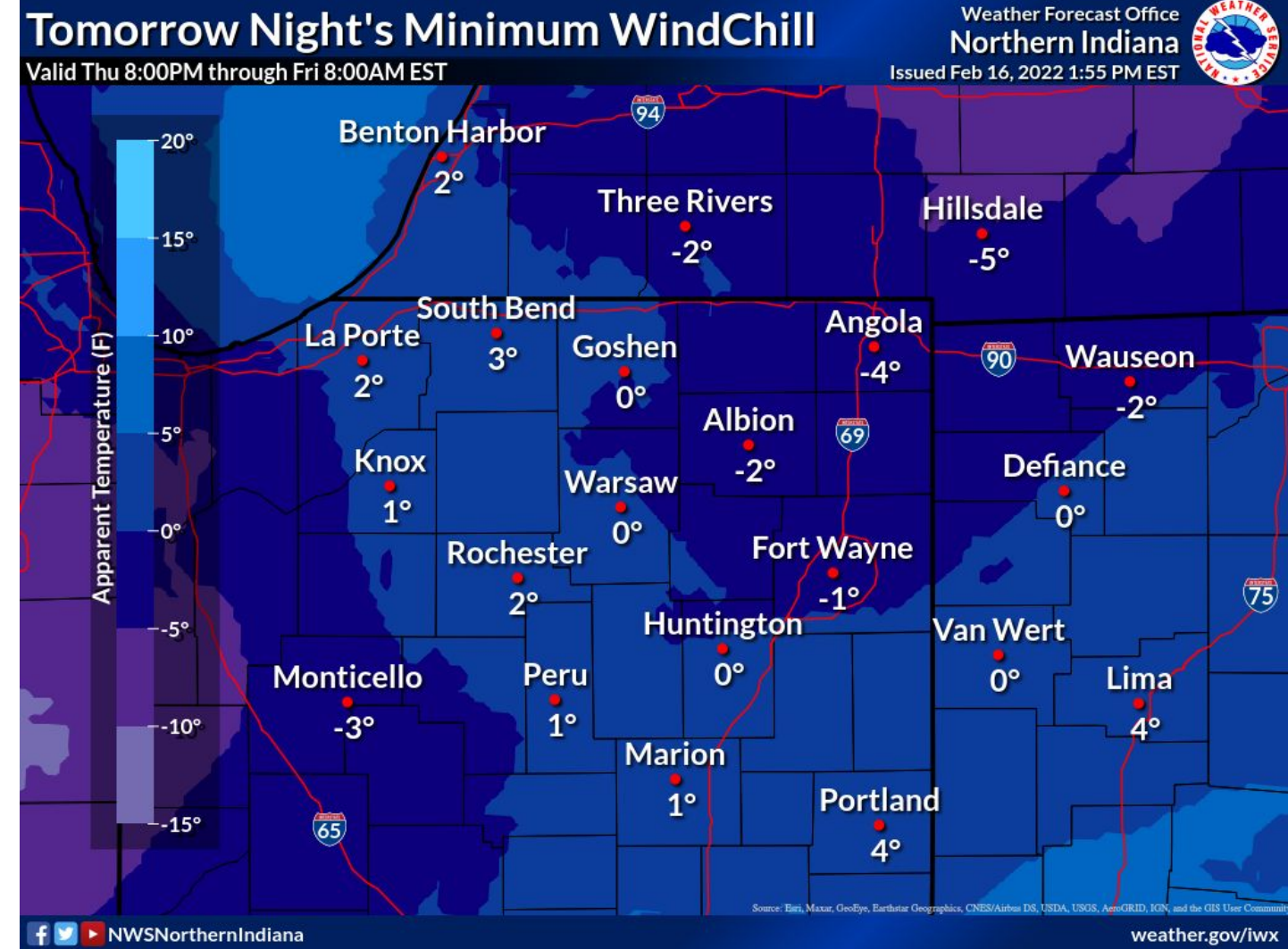
Additional Snow?

Light snow possible Friday night but little additional accumulation.



Next Week

40-50's Sun-Tue



Minimum Wind Chills Thursday Night/ Friday Morning

Watch out for *Ice Jams*

- Ice jams are accumulations of ice in a stream that obstruct flow
- Once formed, water can rise several feet in a matter of minutes
- NEVER attempt to cross flooded roads or drive around barricades



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