



Winter Storm to Bring Heavy Snow Starting Tonight

January 17, 2023
3:04 PM

Significant Snowfall Expected

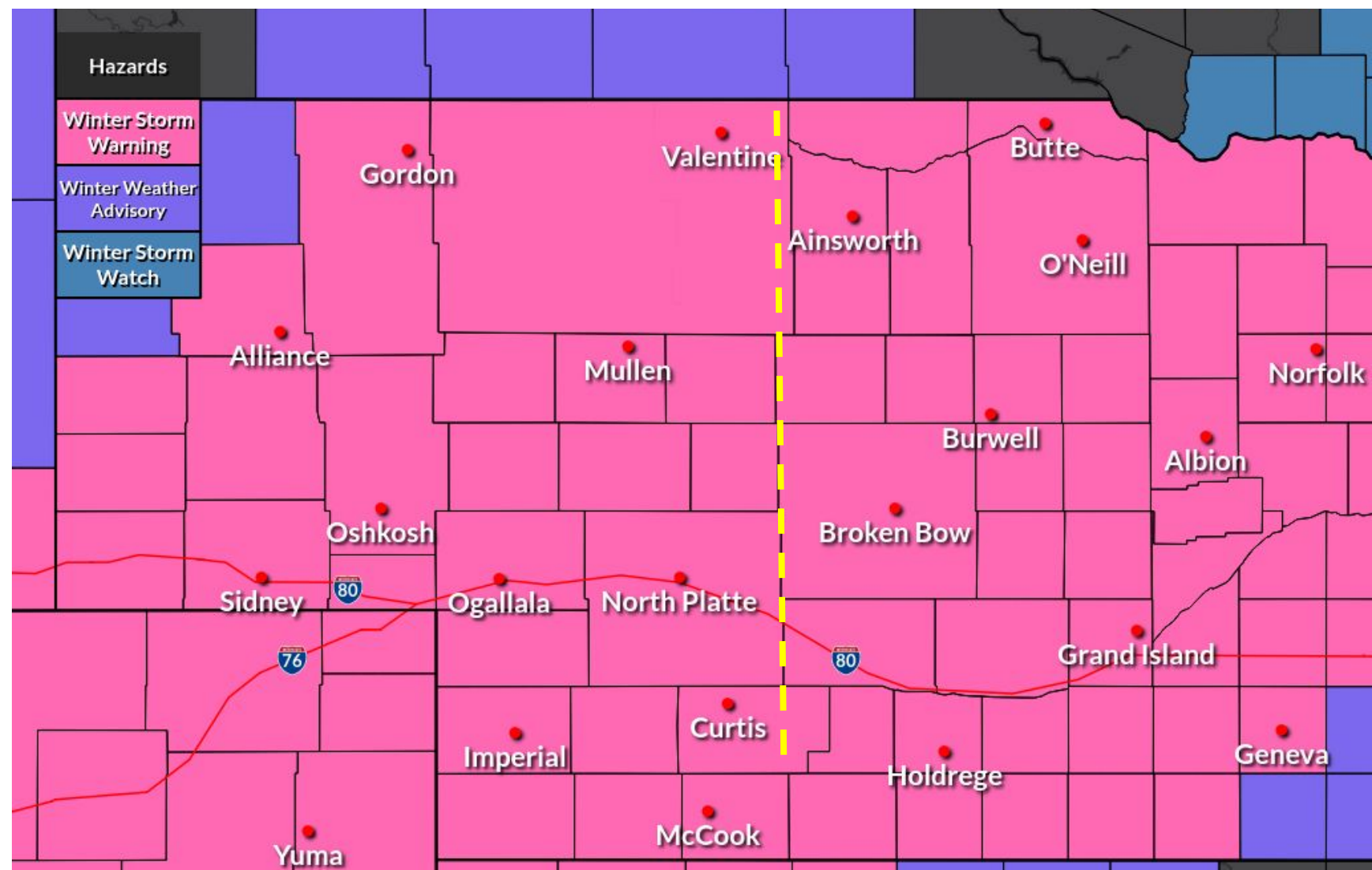
Key Messages

- A **Winter Storm Warning** is in effect from this evening into Wednesday night for **all** of north central and western Nebraska.
 - The warning begins **this evening** for areas west of the **yellow** dashed line.
 - For areas east of the **yellow** dashed line, the warning begins **after midnight**.
- **Significant snow accumulations are likely, including along Interstate 80.**
- **Hazardous to near impossible travel conditions are expected and will impact I-80 and area highways.**

NEW

What Has Changed

- **Winter Storm Warning** expanded to include **ALL** of western and north central Nebraska.
- Snowfall totals have **increased** across the area, especially across far northern Nebraska



National Oceanic and
Atmospheric Administration
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National Weather Service
North Platte, NE



Heavy Snow Expected

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Storm Total Snowfall

What To Know

- High impact for much of central Nebraska, including Interstate 80!
- Snowfall amounts have increased across almost all of the forecast area, especially across the Sandhills into northern Nebraska.
- Snowfall rates of 1 to 2 inches per hour are likely after midnight tonight further exacerbate impacts.

Impacts



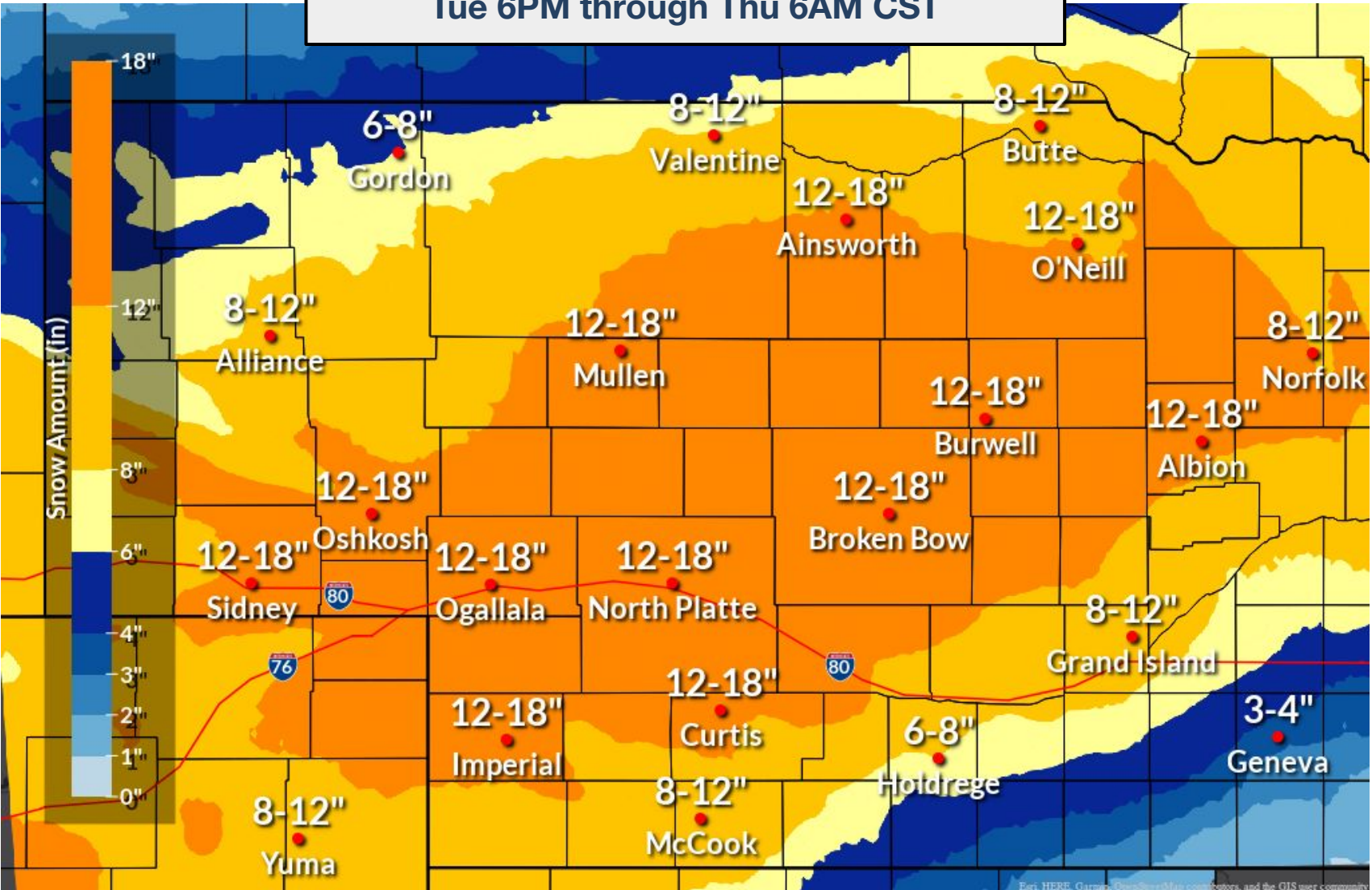
Travel will quickly become very difficult, to near impossible by early Wednesday morning, continuing through the evening.

Expect snow covered roadways and very poor visibility into Wednesday night. *Impacts are likely to linger into Thursday.*



Enhanced snow rates may result in rapid accumulation of snow on roadways, making it difficult for road crews to keep up.

Forecast Storm Total Snowfall (in)
Tue 6PM through Thu 6AM CST



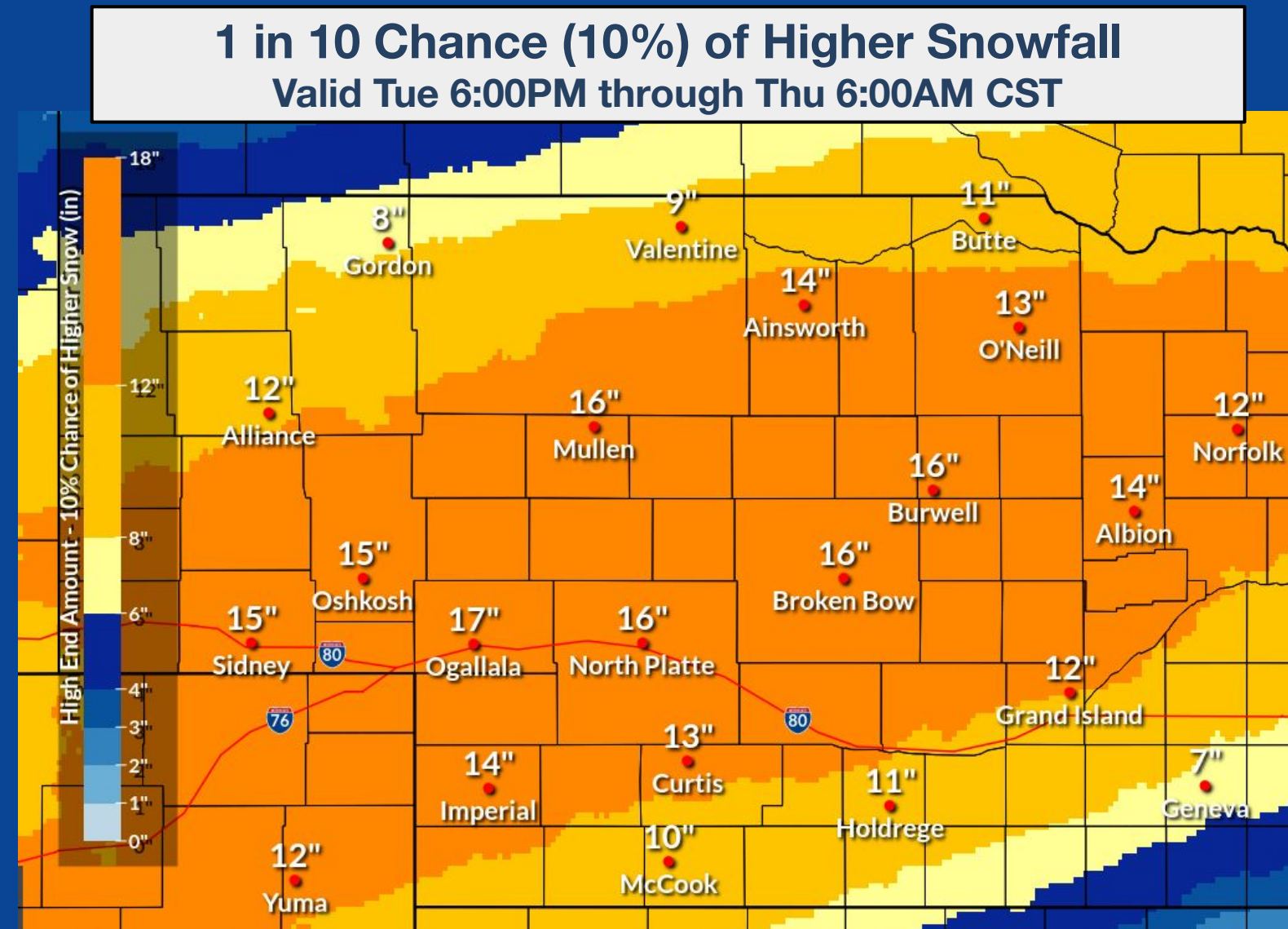


Snowfall - High End Potential

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High End Snowfall Scenario:

There is a 1 in 10 chance (10%) that locations will see these snowfall amounts or higher. This scenario is considered the *worst case scenario*.



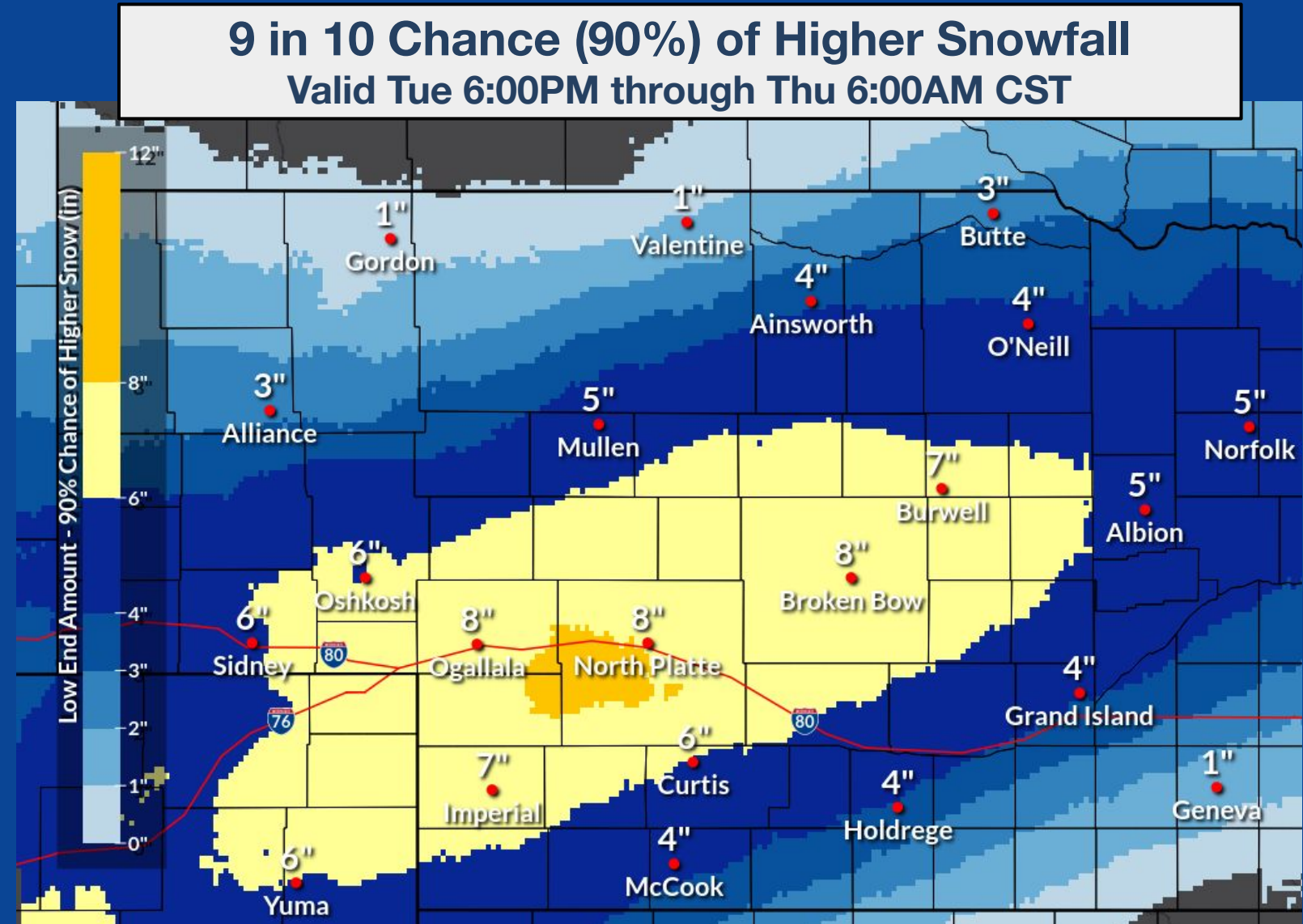


Snowfall - Low End Potential

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Lower End Snowfall Scenario:

There is a 9 in 10 chance (90%) that locations will see these snowfall amounts. This scenario is considered the *best case scenario*.



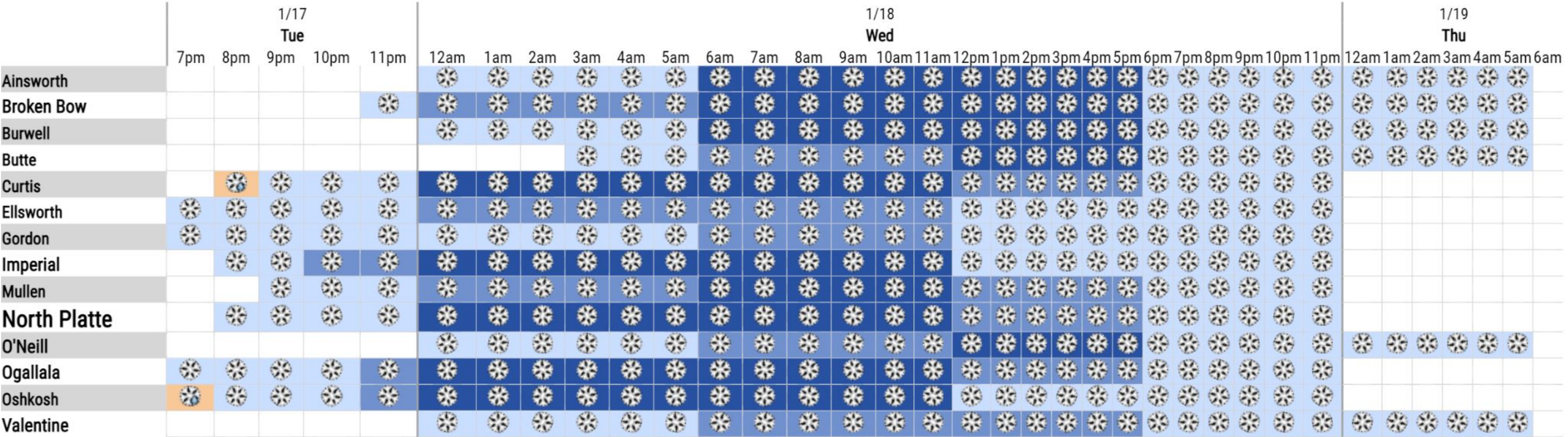


Snow Begins Tuesday Night

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Timeline and P-Type

Weather Forecast



*Created: 12 pm CST Tue 1/17/2023. Shows most impactful weather for the period beginning at the time shown. Weather symbols display where Probability of Precipitation ≥ 15%.

Timeline

- Wintry Mix + - Snow +

- Snow will spread into southwest Nebraska tonight.
- Snow gradually continues spreading northeastward overnight and reaches the Niobrara valley early Wednesday morning.

- Expansion of snow will be slowest toward the South Dakota border.
- Snow intensity will increase quickly with accumulations beginning shortly after onset.





Snow Begins Tuesday Night

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Expected Snowfall Amounts in a 6 Hour Time Block

Key Messages

- Snowfall rates of 1 to 2 inches per hour are likely after midnight.
- The bulk of the widespread heaviest snowfall is anticipated during the 12 hour period from 6 AM CST to 6 PM CST across the area.
- Amounts may vary, but the impacts will be *greatest* during this timeframe.
- **Regardless of *exact* total snowfall amounts, anticipate significant disruptions and impacts to daily life across the area.**

Snow Forecast

	1/17 Tue 6pm	1/18 Wed				1/19 Thu		Total
		12am	6am	12pm	6pm	12am	6am	
Ainsworth	0.0	0.4	5.0	4.9	2.1	0.0	0.0	12.4
Broken Bow	0.0	2.1	6.5	4.8	1.4	0.0	0.0	14.8
Burwell	0.0	0.8	5.3	7.3	1.7	0.1	0.0	15.2
Butte	0.0	0.0	1.7	4.2	2.2	0.1	0.0	8.2
Curtis	0.4	5.0	4.6	2.3	0.7	0.0	0.0	13.0
Ellsworth	0.4	3.2	4.4	1.5	0.1	0.0	0.0	9.6
Gordon	0.3	1.5	2.9	1.3	0.1	0.0	0.0	6.1
Imperial	1.4	4.7	5.2	1.2	0.6	0.0	0.0	13.1
Mullen	0.0	2.7	7.2	3.1	0.7	0.0	0.0	13.7
North Platte	0.2	4.7	6.4	2.5	0.6	0.0	0.0	14.4
O'Neill	0.0	0.1	2.9	6.4	2.4	0.3	0.0	12.1
Ogallala	0.8	6.3	6.8	2.0	0.4	0.0	0.0	16.3
Oshkosh	0.8	5.5	6.1	1.5	0.1	0.0	0.0	14.0
Valentine	0.0	0.4	4.0	2.7	1.0	0.0	0.0	8.1

*Table values in inches





Wind Forecast

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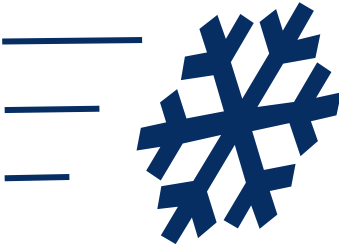
Maximum Wind Gust Forecast Timeline

Wind Details

- Northeasterly winds gradually become north, then northwest.
- Wind gusts of 25 to near 30 mph possible especially Wednesday afternoon.

Impacts

- Poor driving conditions in areas of blowing and drifting snow are expected Wednesday.
- Lingering impacts are likely Thursday due to gusty winds continue through early morning.
- Low visibility is possible.



Maximum Wind Gust Forecast

	1/17 Tue				1/18 Wed								1/19 Thu				
	12pm	3pm	6pm	9pm	12am	3am	6am	9am	12pm	3pm	6pm	9pm	12am	3am	6am	9am	12pm
Ainsworth	12	12	12	12	14	18	22	22	22	23	22	21	21	20	20	17	18
Broken Bow	9	12	13	14	16	18	21	23	24	26	26	24	23	20	20	18	17
Burwell	10	10	10	10	13	17	22	24	26	28	26	24	23	20	20	20	17
Butte	14	14	12	12	13	15	17	18	21	22	21	20	20	20	17	17	16
Curtis	12	15	16	18	22	23	23	24	26	28	26	22	21	16	15	14	15
Ellsworth	12	14	16	18	22	22	21	23	25	25	21	20	16	16	15	16	17
Gordon	9	12	14	14	15	18	18	18	20	20	17	14	14	14	16	16	15
Imperial	15	17	18	22	24	25	24	25	28	28	25	21	18	18	17	18	18
Mullen	8	10	14	15	18	21	21	23	23	24	23	18	18	20	17	17	17
North Platte	9	12	15	15	18	20	21	23	25	26	25	18	17	14	13	13	14
O'Neill	14	13	12	13	14	16	20	21	22	23	23	21	21	20	20	20	18
Ogallala	12	15	16	18	21	22	22	23	24	25	24	17	17	16	16	17	17
Oshkosh	12	14	14	16	18	18	18	21	23	24	21	13	14	15	15	15	16
Valentine	12	12	12	10	14	16	18	20	22	22	20	17	17	16	14	15	17

*Table values in mph





Temperature Forecast

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Including through the weekend for clean-up

→ Temperatures remain cold through the weekend. This will minimize melting and allow for refreeze at night.

Maximum Temperature Forecast

	1/17 Tue		1/18 Wed								1/19 Thu							
	6pm	9pm	12am	3am	6am	9am	12pm	3pm	6pm	9pm	12am	3am	6am	9am	12pm	3pm		
Ainsworth	29	27	24	25	23	23	23	24	22	20	21	19	18	25	30	30		
Broken Bow	34	30	29	29	26	25	25	24	22	21	20	20	19	26	31	31		
Burwell	29	27	26	25	24	24	24	24	22	21	20	18	17	23	29	29		
Butte	26	24	23	22	20	20	23	23	24	21	19	18	17	21	26	27		
Curtis	35	33	30	29	26	25	26	26	22	20	21	19	18	26	32	32		
Ellsworth	29	28	27	27	25	24	25	26	24	23	24	20	17	22	30	31		
Gordon	30	27	25	26	23	23	25	26	25	23	22	20	17	24	31	31		
Imperial	30	29	29	27	26	26	26	26	24	23	23	19	16	23	29	29		
Mullen	33	29	28	28	25	25	24	24	23	21	23	21	20	27	32	32		
North Platte	33	30	29	27	25	24	24	25	24	22	21	19	18	25	31	31		
O'Neill	29	26	23	23	21	22	23	24	22	21	19	18	17	22	27	27		
Ogallala	29	28	27	26	24	22	24	26	24	24	23	21	17	21	28	29		
Oshkosh	31	31	29	27	24	23	25	26	25	23	23	20	16	23	30	30		
Valentine	28	26	25	25	22	22	23	23	21	20	19	17	19	26	31	31		

*Table values in °F

Min|Max Temperature Forecast

	1/18 Wed		1/19 Thu		1/20 Fri		1/21 Sat		1/22 Sun	
Ainsworth	20	24	17	31	20	30	21	35	22	33
Broken Bow	20	25	17	32	18	31	17	33	18	33
Burwell	20	24	16	30	17	30	16	33	17	32
Butte	19	24	17	27	16	28	18	34	20	32
Curtis	19	27	16	35	15	34	15	33	14	36
Ellsworth	23	26	15	32	17	31	17	33	19	31
Gordon	21	26	16	32	17	31	20	35	21	32
Imperial	22	27	15	31	14	30	14	30	15	31
Mullen	21	25	19	33	19	32	20	35	21	34
North Platte	21	26	16	32	15	31	15	32	15	33
O'Neill	20	24	16	28	16	29	18	33	19	31
Ogallala	22	26	16	31	14	30	14	30	15	32
Oshkosh	22	27	15	32	14	31	13	32	16	33
Valentine	19	23	16	33	19	31	20	36	22	34



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Safety Info To Share

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Six Basic Steps for Properly MEASURING SNOW

Accurate and timely snowfall measurements are extremely important to your National Weather Service office, your community, local media, and many others. Here are the six steps you need to know for measuring snow:

1 Supplies



Ruler or yard stick
24" X 24" white board, flag

2 Planning



Find an open area away from tall objects, but sheltered from wind

3 Set-up



Set up before snow begins
Put your board out and mark it with the flag

4 Measuring Snow



Record your total to the nearest tenth of an inch
Wipe the board off after measuring
Measure once daily at the same time, after measuring place the board on top of snow

5 When Snow Stops



Measure as soon as the snow stops to avoid lower totals due to melting, settling and drifting

6 Reporting



weather.gov social media
SEND us your report!





Storm Summary

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Key Points to Take Home

- Heavy snow likely across central and western Nebraska, and much of the state Tuesday night into Wednesday night.
- Hazardous to near impossible travel conditions are expected and will impact I-80 and area highways.
- If you have travel plans, be prepared to alter or delay your plans. **KNOW** before you **GO**!

Additional Resources

- [Latest Radar Imagery](#)
- [Recent Snowfall Reports](#)
- [Nebraska 511](#)
- [NWS North Platte Probabilistic Snow](#)
- [Graphical Hazardous Weather Outlook](#)
- [NWS Winter Safety](#)



Winter Storms

Stay ahead of this storm by following the watches and warnings issued by the National Weather Service.



weather.gov

Contact Us!



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