



Dangerous Cold Temperatures

December 13, 2022
9:19 AM

Very Cold Wind Chills Possible Wednesday through Friday

Key Messages

- Two cold fronts are forecast to impact southeast Wyoming and the Nebraska panhandle in this upcoming week.
 - #1: The first will be moving through Sunday night into Monday.
 - #2: The second one will be moving through Wednesday into Thursday and is currently forecast to be much colder.
- Wind Chill Watches, Advisories, and Warnings are possible for Wednesday and Thursday due to the potential for wind chills below -30 degrees, especially in portions of eastern Wyoming and the Nebraska panhandle.
- There is still some uncertainty as to the exact location of where the arctic front will decide to set up, so fluctuations in the forecast temperatures are to be expected.

Minimum Wind Chill Forecast

	12/19 Mon				12/20 Tue				12/21 Wed				12/22 Thu				12/23 Fri				Minimum
	12am	6am	12pm	6pm																	
Alliance	-14	-15	-10	-20	-24	-24	-15	-20	-14	-15	-19	-37	-47	-50	-38	-40	-39	-38	-13	-15	-50
Chadron	-16	-15	-13	-17	-20	-20	-16	-19	-18	-21	-20	-31	-41	-45	-37	-36	-36	-33	-12	-12	-45
Cheyenne	0	1	16	2	1	0	16	10	5	5	-4	-29	-39	-44	-26	-28	-24	-20	4	5	-44
Douglas	-13	-10	1	-13	-17	-18	-8	-10	-10	-12	-27	-39	-48	-52	-32	-34	-32	-26	-1	-1	-52
Gering	-13	-14	6	-13	-18	-17	-4	-7	-5	-5	-10	-31	-42	-47	-35	-35	-35	-32	-5	-6	-47
Laramie	-6	-10	1	-6	-3	0	10	6	5	5	1	-25	-36	-41	-26	-28	-25	-16	3	2	-41
Rawlins	-5	-6	-1	-5	-2	-1	1	0	2	1	-3	-27	-37	-41	-27	-27	-25	-17	-2	-2	-41
Scottsbluff	-15	-16	4	-14	-18	-18	-6	-8	-6	-7	-10	-32	-44	-47	-35	-36	-36	-33	-4	-8	-47
Sidney	-16	-15	4	-11	-16	-16	-5	-8	-11	-10	-5	-33	-43	-47	-35	-37	-37	-34	-7	-12	-47
Torrington	-15	-13	7	-12	-18	-18	-3	-8	-8	-8	-10	-32	-44	-47	-33	-32	-31	-29	-3	-7	-47

*Table values in °F
 **Created: 3 am MST Sun 12/18/2022
 ***Values are minimums over the period beginning at the time shown.

Time Period of Forecast Coldest Temperatures/ Wind Chills

NEW What Has Changed

- First Issuance



Dangerous Cold, Wind, & Snow

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Arctic Cold Front Bringing Dangerous Cold, High Wind, & Snow Potential

Key Points - Wednesday



35 to 55% chance of snowfall across southeast Wyoming & the Nebraska panhandle. Best chances Wednesday afternoon and overnight.



Daytime wind chills -5 to -20 across the Nebraska panhandle will quickly drop to -40s and even -50s by late Wednesday night.



Wind gusts 35 to 45 mph possible across southeast Wyoming;

Wind gusts 25 to 35 mph possible across the Nebraska panhandle during the day, increasing with gusts to 40 mph possible overnight.

Travel Impacts



Falling and blowing snow may limit visibilities and create hazardous travel.

Plan ahead!

Check the forecast.

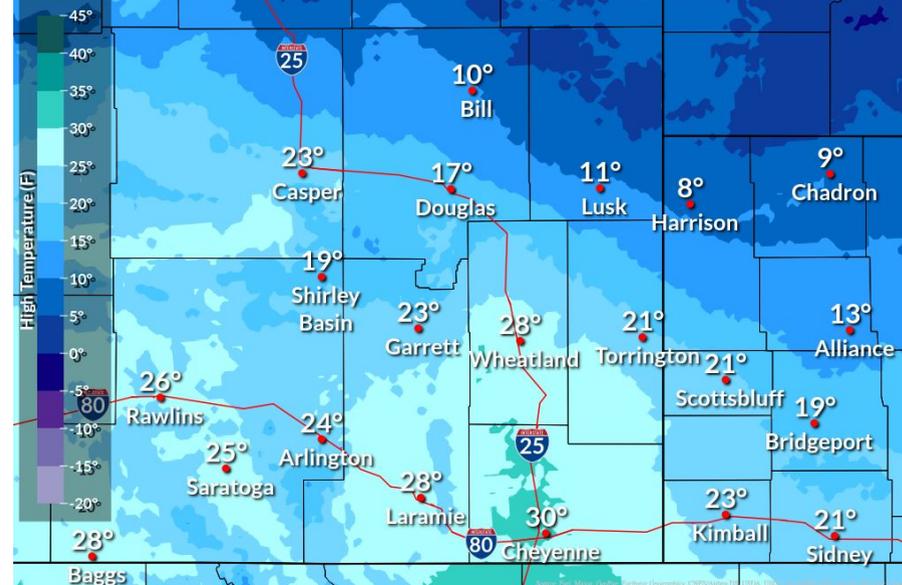
Give yourself extra time.

High Temperature Wednesday

Valid Wed 7:00AM through Wed 7:00PM MST

Weather Forecast Office
Cheyenne, WY

Issued Dec 18, 2022 3:35 AM MST



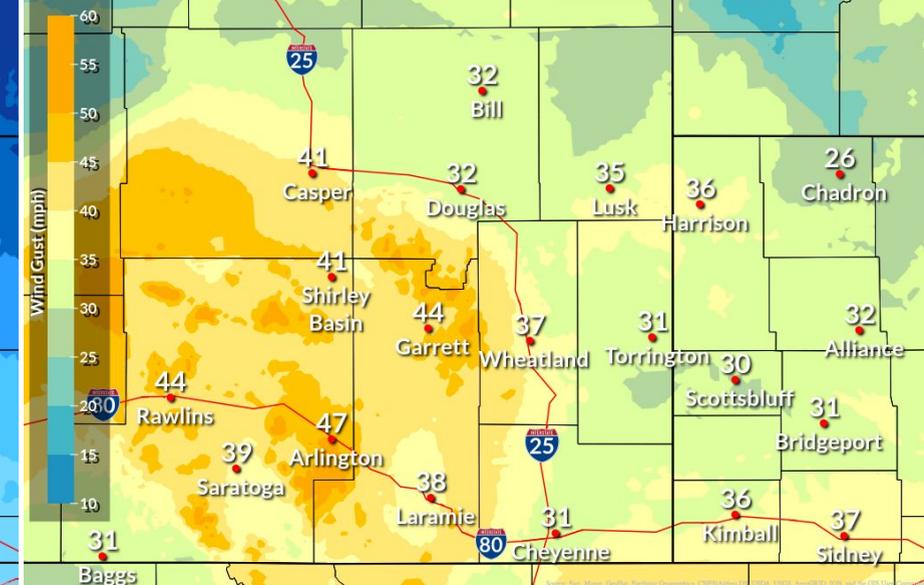
NWSCheyenne weather.gov/cys

Maximum Wind Gust

Valid Wed 6:00AM through Thu 6:00AM MST

Weather Forecast Office
Cheyenne, WY

Issued Dec 18, 2022 3:35 AM MST



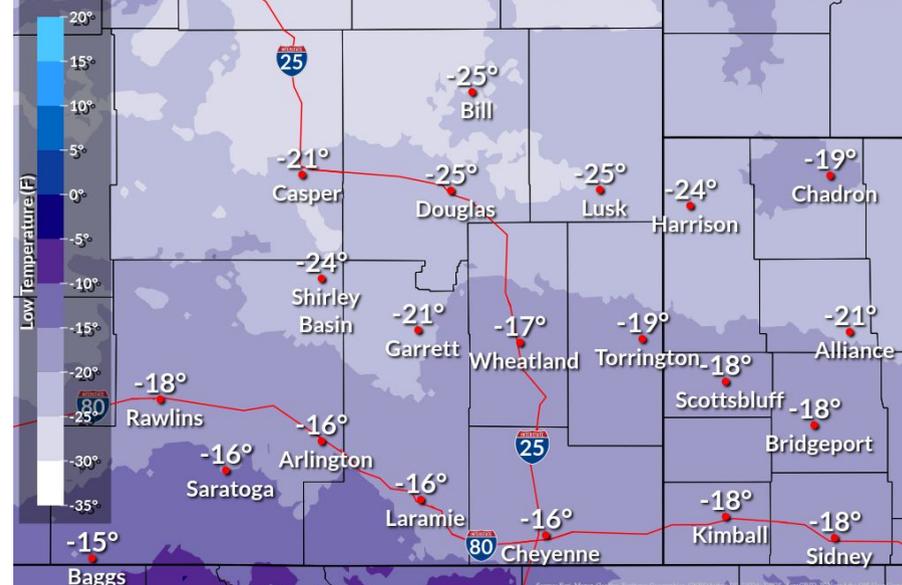
NWSCheyenne weather.gov/cys

Low Temperature Wednesday Night

Valid Wed 7:00PM through Thu 8:00AM MST

Weather Forecast Office
Cheyenne, WY

Issued Dec 18, 2022 3:35 AM MST



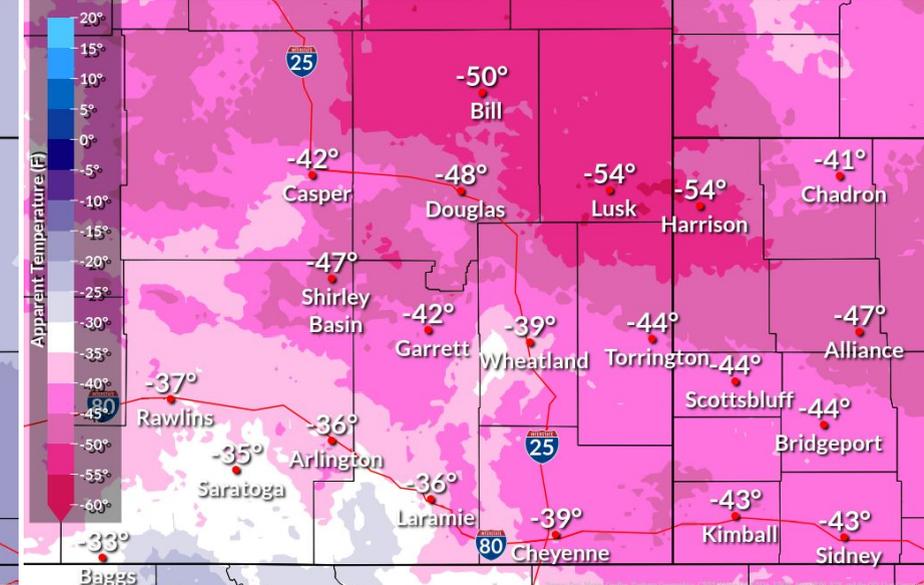
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Minimum WindChill

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National Oceanic and
Atmospheric Administration
U.S. Department of Commerce

National Weather Service
Cheyenne, WY



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Arctic Cold Front Bringing Dangerous Cold, High Wind, & Snow Potential

Key Points - Thursday



Snowfall is forecast to taper off through the morning. Confidence in total accumulations is low at this time. Stay tuned for more updates.



Coldest wind chills Thursday morning, gradually improving throughout the day, but still -30 to -40 degrees possible across most areas.



Wind gusts 30 to 40 mph possible across southeast Wyoming and the Nebraska panhandle through the afternoon; winds expected to decrease overnight.

Travel Impacts

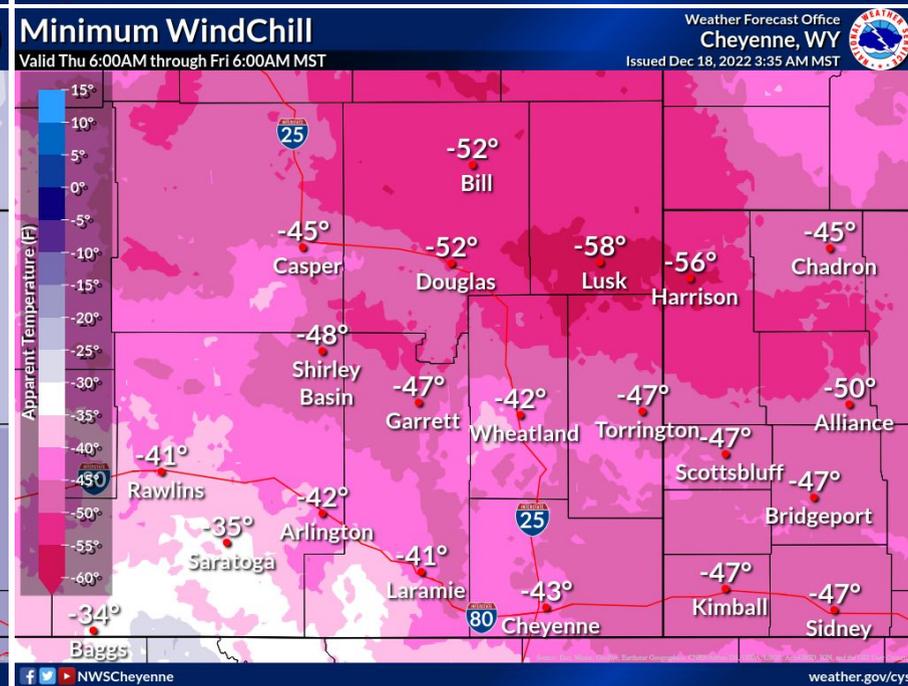
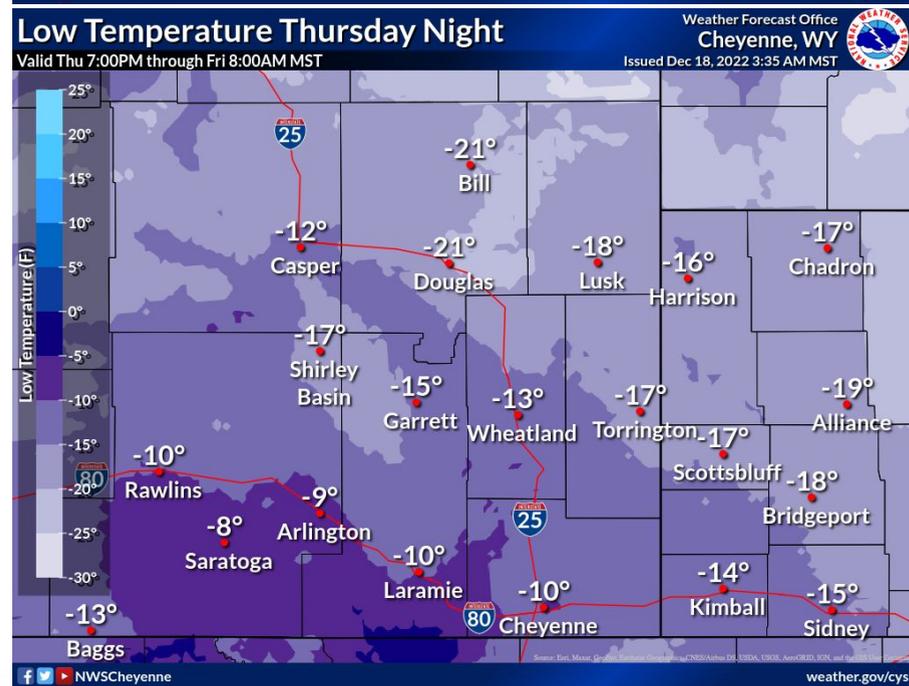
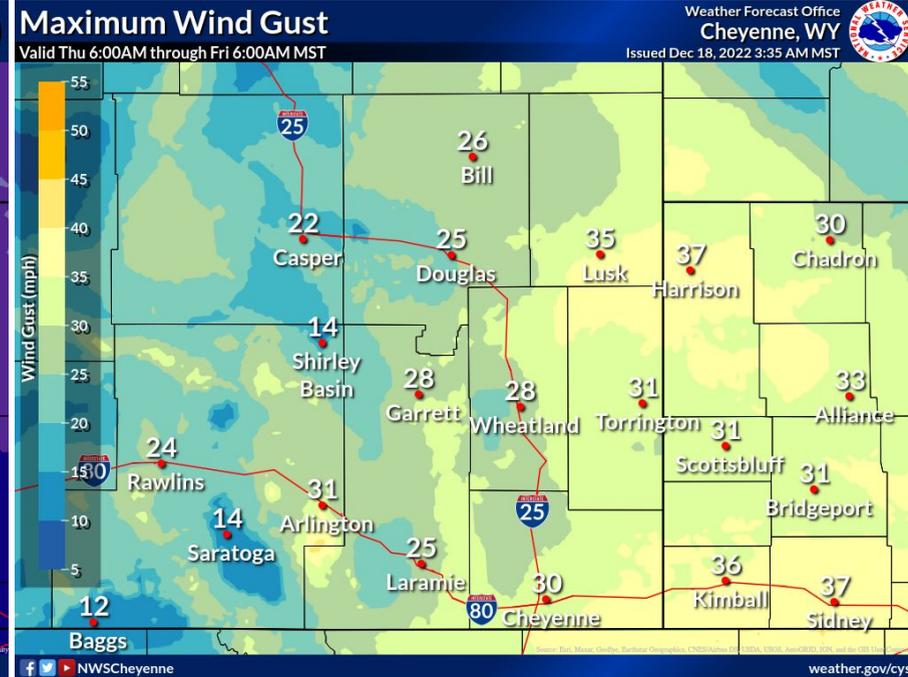
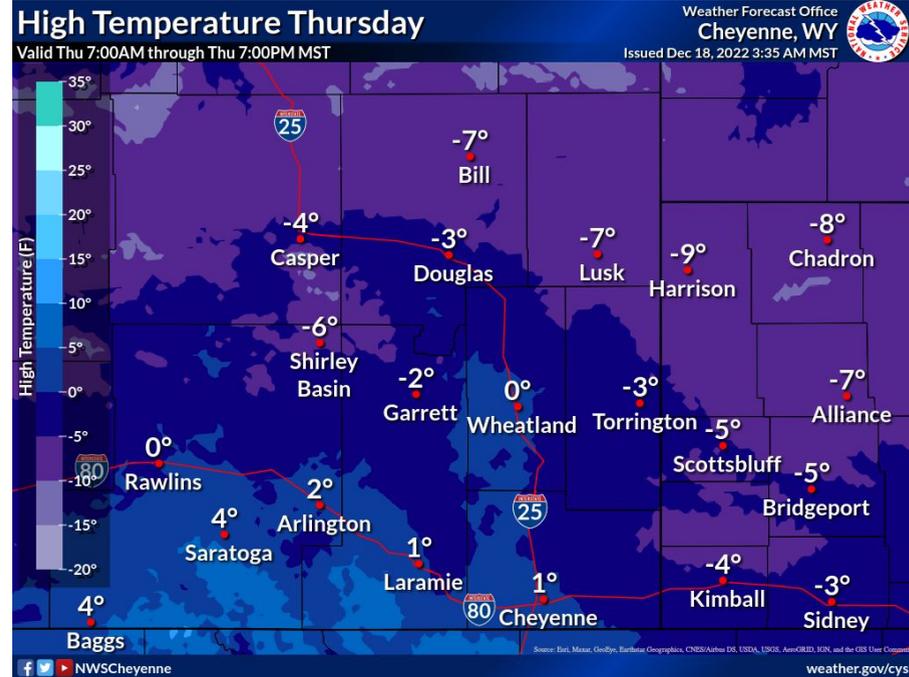


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NO WIND

The Science of Wind Chill



WINDY

98.6°F

Average temperature of the human body



Under calm conditions, the body radiates heat, creating a layer of warmth between our skin and the cold surroundings.

95°F

Hypothermia begins when our body temperature drops two to four degrees



But when it's windy, the moving air breaks up this insulating layer. It speeds up heat loss by whisking away the warmth from our skin.

Heat is moved away from our bodies.



weather.gov/winter