

HAZARD SIMPLIFICATION



What Does NWS Consolidation Mean For the Extreme Cold, Freeze, and Wind Chill Product Suites?

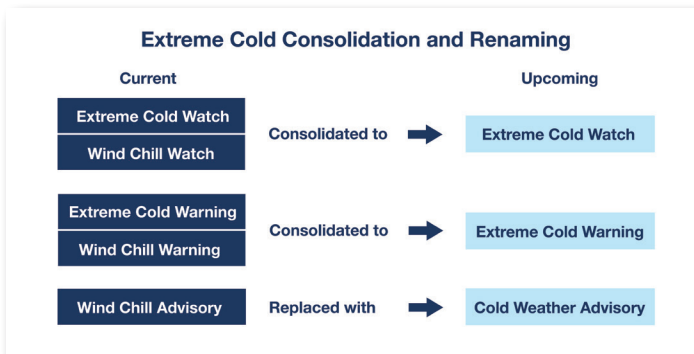


NWS is simplifying its suite of cold weather products to improve messaging of these hazards and provide better decision-making services.



What are we doing?

Wind Chill Watch/Warning/Advisory will be consolidated into the Extreme Cold Watch/Warning and Cold Weather Advisory. Hard Freeze Watch and Warning will be consolidated into the Freeze Watch/Warning.



What Do You Need To Know?

- As part of the ongoing National Weather Service (NWS) Hazard Simplification Project, the NWS is acting upon data collected during public and partner engagements, surveys, and social science research leading to consolidation of Wind Chill and Extreme Cold products and Freeze and Hard Freeze Products.
- The new NWS Cold Product Suite will allow NWS to communicate that cold is dangerous with or without wind. Wind chill will not go away although emphasis will be placed on “cold is cold” for public safety.
- Consolidation of NWS Freeze and Hard Freeze products into one streamlined Freeze Watch/Warning with enhanced language for hard freeze conditions as needed will simplify and improve messaging and service delivery.
- The scope of the NWS Frost/Freeze services is focused on vegetation and agriculture taking into account growing season, impacts, and precautionary/preparedness actions.

What would this look like?

Changes highlighted in yellow

New Freeze Warning with Hard Freeze Wording

URGENT - WEATHER MESSAGE
National Weather Service New Orleans LA
226 PM CST Wed Dec 21 2022

LAZ059-065>067-221200-
/O.NEW.KLIX.FZ.W.0008.221223T0300Z-221225T1200Z/
Upper Lafourche-Upper Terrebonne-Lower Terrebonne-Lower Lafourche-
Including the cities of Thibodaux, Raceland, Larose, Houma,
Bayou Cane, Chauvin, Cocodrie, Dulac, Montegut, Galliano,
Cut Off, Golden Meadow, and Leeville
226 PM CST Wed Dec 21 2022

...FREEZE WARNING IN EFFECT FROM 9 PM THURSDAY TO 6 AM CST
SUNDAY...

* **WHAT...Hard freeze with temperatures as low as 21 expected.**

* WHERE...Upper Lafourche, Upper Terrebonne, Lower Terrebonne
and Lower Lafourche Parishes.

* WHEN...From 9 PM Thursday to 6 AM CST Sunday.

* IMPACTS...Frost and freeze conditions will kill crops, other
sensitive vegetation and possibly damage unprotected outdoor
plumbing.

New Cold Weather Advisory

URGENT - WEATHER MESSAGE
National Weather Service Denver CO
200 PM MST Thu Feb 23 2023

COZ050-051-241300-
/O.NEW.KBOU.CW.Y.0004.230224T0000Z-230224T1600Z/
Sedgwick County-Phillips County-
Including the cities of Holyoke, Sedgwick, Julesburg, Amherst,
Haxtun, and Ovid
200 PM MST Thu Feb 23 2023

...**COLD WEATHER ADVISORY** IN EFFECT FROM 5 PM THIS AFTERNOON TO
9 AM MST FRIDAY...

* WHAT...Very cold wind chills expected. Wind chills as low as
20 below zero.

* WHERE...Julesburg and Holyoke.

* WHEN...From 5 PM this afternoon to 9 AM MST Friday.

* IMPACTS...The cold wind chills will cause frostbite in as
little as 30 minutes on exposed skin.

New Extreme Cold Warning

URGENT - **WEATHER MESSAGE**
National Weather Service Duluth MN
147 PM CST Wed Feb 1 2023

MNZ010>012-019>021-020800-
/O.NEW.KDLH.**EC.W**.0001.230203T0000Z-230203T1800Z/
Koochiching-North St. Louis-Northern Cook and Lake-
Central St. Louis-Southern Lake-Southern Cook-
Including the cities of International Falls, Ely, Isabella,
Hibbing, Two Harbors, Silver Bay, and Grand Marais
147 PM CST Wed Feb 1 2023

...**EXTREME COLD WARNING** IN EFFECT FROM 6 PM THURSDAY TO NOON CST
FRIDAY...

* WHAT...Dangerously cold wind chills expected. Wind chills as
low as 45 to 50 degrees below zero.

* WHERE...Koochiching, North St. Louis, Northern Cook and Lake,
Central St. Louis, Southern Lake and Southern Cook Counties.
This includes the Tribal Lands of the Grand Portage
Reservation and the Bois Forte Band, Lake Vermilion and, Nett
Lake areas.

* WHEN...From 6 PM Thursday to noon CST Friday.

* IMPACTS...The dangerously cold wind chills could cause frostbite
on exposed skin in as little as 5 minutes.



What are the benefits?

- Streamline forecast process
- Unify terms across the United States
- Simplified messaging by using a single product type for Extreme Cold and Wind Chill
- Simplified messaging by using a single product for Freeze and Hard Freeze
- Ability to message that cold is dangerous with or without wind
- Ability to offer clearer Watch/Warning/Advisory maps

Learn More!

NWS partners should watch for partner webinars coming this summer, and reach out to your local NWS office with questions or to learn more.