

## **Storm Prediction Center**

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**Mesoscale Discussion 1328** < Previous MD Next MD > Newcastle Chamberlain \*Kadoka **Hot Springs** Winner 4 Martin Mesoscale Yankton Douglas + Chadron Discussion Ainsworth O'Neill <sup>+</sup>Glendo #1328 Torrington Norfolk Valid Until: Very large hail up to around 3 inches in diameter 06/29/23 3:30 AM CDT and severe/damaging winds will remain a threat Concerning: **Severe Thunderstorm** Columbus as storms spread eastward early this morning. Watches #410, #411 Cheyenne Ogallala North Platte Grand Island Lincoln Julesburg Lexington Fort Collins Denver Phillipsburg Fields Plotted Concordia 0652Z MRMS RALA 06Z MUCAPE (J/kg) and Effective Shear (kts) Castle Rock Colby Oakley Colorado Springs on City Eads Scott City Tribune **Great Bend** Lamar Hutchinson La Junta **Garden City** Dodge City Wichita Ulysses

Springfield

**Boise City** 

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Alva

**Organization** 

Mesoscale Discussion 1328 NWS Storm Prediction Center Norman OK 0154 AM CDT Thu Jun 29 2023

Areas affected...Portions of northeastern  ${\tt CO}$  into southern  ${\tt NE}$  and far northern  ${\tt KS}$ 

Trinidad

Raton

Concerning...Severe Thunderstorm Watch 410...411...

 ${\tt Valid~290654Z~-~290830Z}$ 

The severe weather threat for Severe Thunderstorm Watch 410, 411 continues.

SUMMARY...Very large hail up to around 3 inches in diameter and severe/damaging winds will remain a threat as thunderstorms spread eastward early this morning.

DISCUSSION...A parade of supercells producing large to very large hail up to 3.25 inches in diameter is ongoing across northeastern CO into far southwestern NE. The leading supercell in Hays/Hitchcock Counties in NE is the most intense, and this cell will likely remain capable of producing very large hail in the short term. The low-level jet feeding into these storms is rather strong, with 1 km AGL winds from VWPs at KDDC/KICT showing 50+ kt south-southwesterly flow. The airmass downstream of these supercells is also very unstable, with 3000+ J/kg of MUCAPE available to support continued robust updrafts. West-southwesterly winds strengthen with height at mid/upper levels, which is fostering 50-60+ kt of deep-layer shear. This very favorable thermodynamic and kinematic environment is expected to support a continued severe hail/wind threat over the next couple of hours as the supercells move eastward into south-central NE and perhaps far north-central KS. There is some potential for the leading supercell to grow upscale into a small bow with a corresponding increase in the threat for severe/damaging winds.

- ..Gleason.. 06/29/2023
- ...Please see www.spc.noaa.gov for graphic product...

ATTN...WFO...GID...LBF...GLD...BOU...

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NOAA / National Weather Service National Centers for Environmental Prediction Storm Prediction Center 120 David L. Boren Blvd. Norman, OK 73072 U.S.A. spc.feedback@noaa.gov

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