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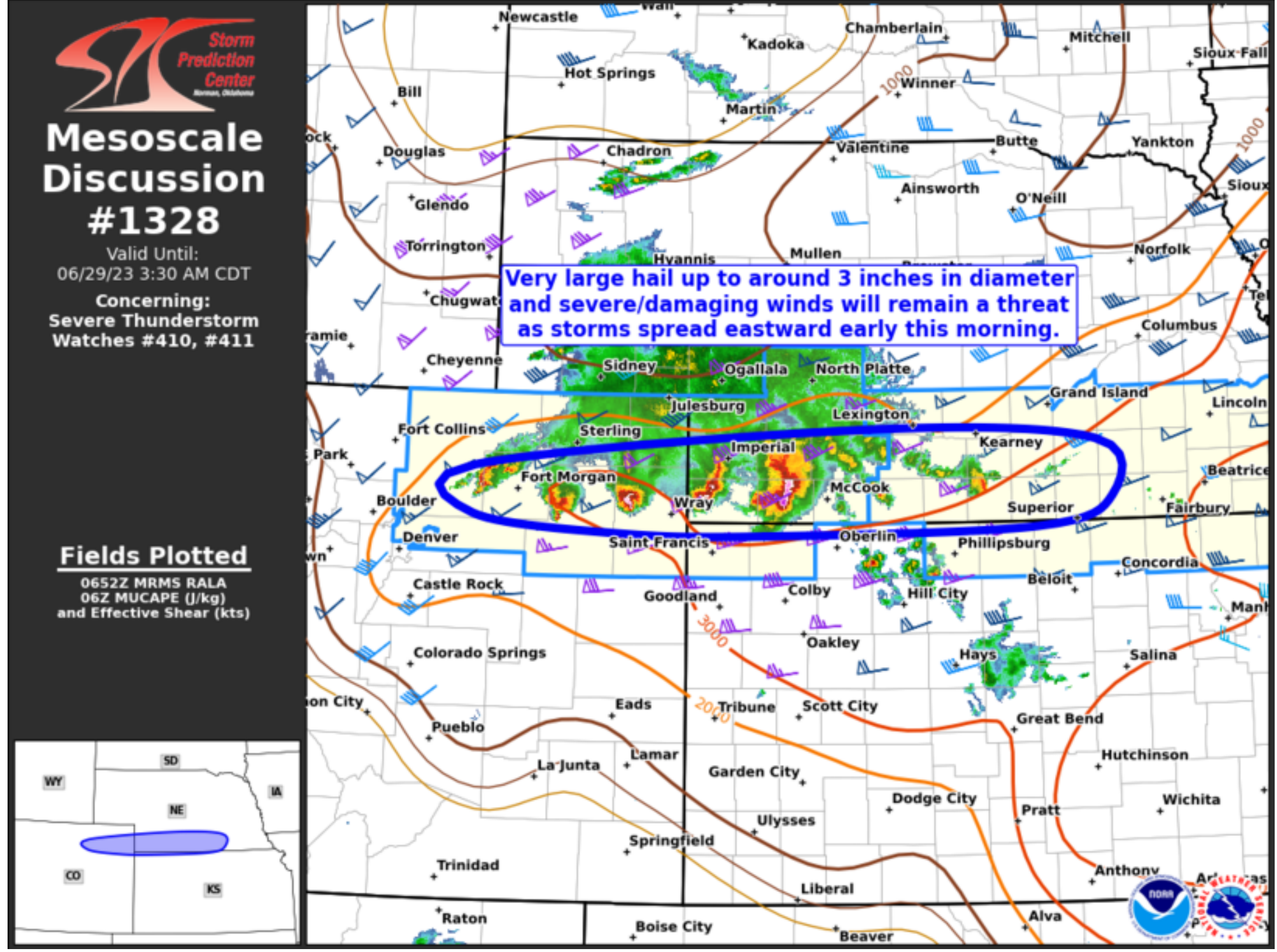
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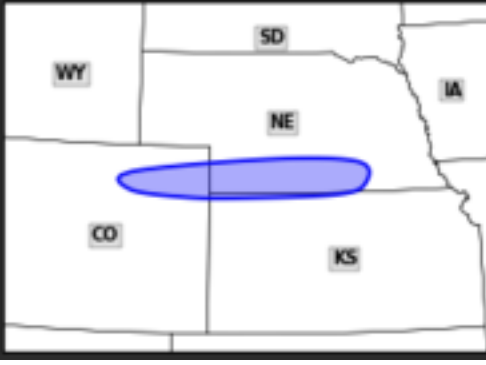
## Mesoscale Discussion 1328

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**Mesoscale Discussion #1328**  
 Valid Until:  
 06/29/23 3:30 AM CDT  
 Concerning:  
 Severe Thunderstorm  
 Watches #410, #411

**Fields Plotted**  
 06Z MRMS RALA  
 06Z MUCAPE (J/kg)  
 and Effective Shear (kts)



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

Areas affected...Portions of northeastern CO into southern NE and far northern KS

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

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 VWP at KDCC/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](http://www.spc.noaa.gov) for graphic product...

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

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