



Local forecast by
"City, St" or "ZIP"

Find us on
Facebook
SPC on Facebook

@NWSSPC

NCEP Quarterly
Newsletter

- Home (Classic)
- SPC Products
- All SPC Forecasts
- Current Watches
- Meso. Discussions
- Conv. Outlooks
- Tstm. Outlooks
- Fire Wx Outlooks
- RSS Feeds
- E-Mail Alerts
- Weather Information
- Storm Reports
- Storm Reports Dev.
- NWS Hazards Map
- National RADAR
- Product Archive
- NOAA Weather Radio

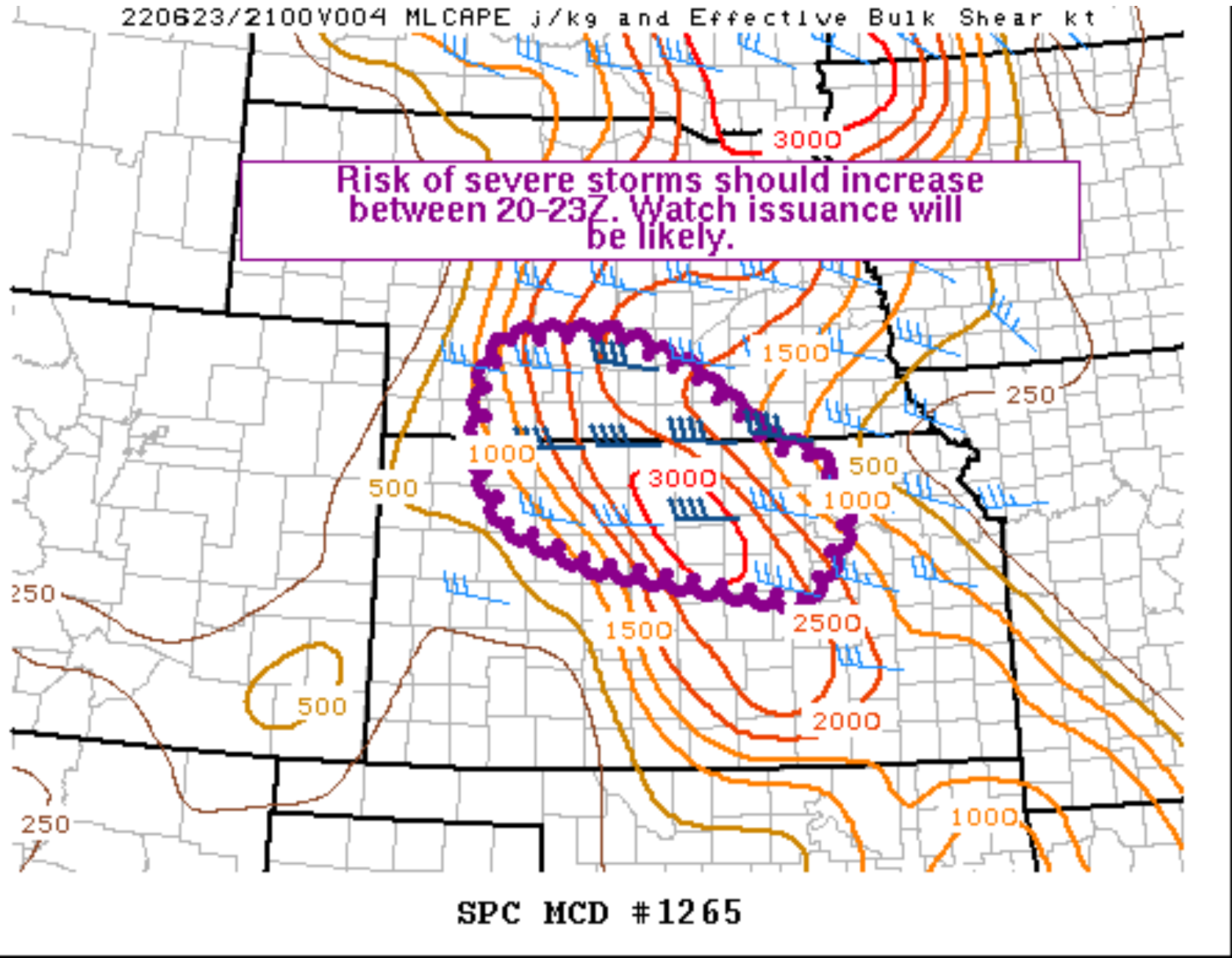
- Research
- Non-op. Products
- Forecast Tools
- Svr. Tstm. Events
- SPC Publications
- SPC-NSSL HWT
- Education & Outreach
- About the SPC
- SPC FAQ
- About Tornadoes
- About Derechos
- Video Lecture Series
- WCM Page
- Enh. Fujita Page
- Our History
- Public Tours

- Misc.
- Staff
- Contact Us
- SPC Feedback



Mesoscale Discussion 1265

[< Previous MD](#) [Next MD >](#)



Mesoscale Discussion 1265
NWS Storm Prediction Center Norman OK
0157 PM CDT Thu Jun 23 2022

Areas affected...Parts of north-central KS and south-central NE

Concerning...Severe potential...Watch likely

Valid 231857Z - 232130Z

Probability of Watch Issuance...80 percent

SUMMARY...The risk of widely scattered severe storms capable of large hail, severe gusts, and perhaps a tornado or two will increase between 20-23Z across parts of KS and NE. Watch issuance will be likely this afternoon.

DISCUSSION...In the wake of earlier elevated convection over north-central KS into southern NE, cloud clearing is allowing for boundary-layer heating/mixing amid upper 60s dewpoints. As a subtle midlevel impulse evident in water vapor imagery tracks eastward across parts of the area in conjunction with a deepening lee trough over the central High Plains, isolated high-based thunderstorm development may occur over parts of western KS/NE and track eastward into the increasingly moist/unstable airmass in the 20-23Z time frame. While less uncertain, additional convective development will be possible farther east in north-central KS into south-central NE -- where steep low-level lapse rates are developing along the western periphery of the recovering cold pool.

Current thinking is that a modest increase in midlevel west-southwesterly flow accompanying the subtle cyclonic impulse will result in 35-45 kt of effective bulk shear, which combined with the aforementioned destabilization should support organized convection including supercells. This activity should generally be focused from the eastern periphery of steep low-level lapse rates over northwest KS/southwest NE eastward along and north of a weak warm front lifting northward in central KS. Given modest midlevel lapse rates and an elongating mid/upper-level hodograph, large to very large hail will be possible with any semi-discrete supercell structures along with locally severe gusts. In addition, a gradual increase in the easterly low-level flow component amid a somewhat sheltered boundary layer is expected as the lee trough deepens. This would yield favorable clockwise-turning low-level hodographs supportive of a tornado or two with any longer-lived surface-based supercells. A watch will likely be needed for parts of the area this afternoon.

..Weinman/Grams.. 06/23/2022

...Please see www.spc.noaa.gov for graphic product...

ATTN...WFO...TOP...ICT...GID...LBF...DDC...GLD...

LAT...LON 39230047 39720077 40520079 40910055 40969924 40519812
39919735 39809675 39249648 38529697 38909948 39230047

[Top/All Mesoscale Discussions/Forecast Products/Home](#)

Weather Topics:
[Watches](#), [Mesoscale Discussions](#), [Outlooks](#), [Fire Weather](#), [All Products](#), [Contact Us](#)