



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

City, St

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

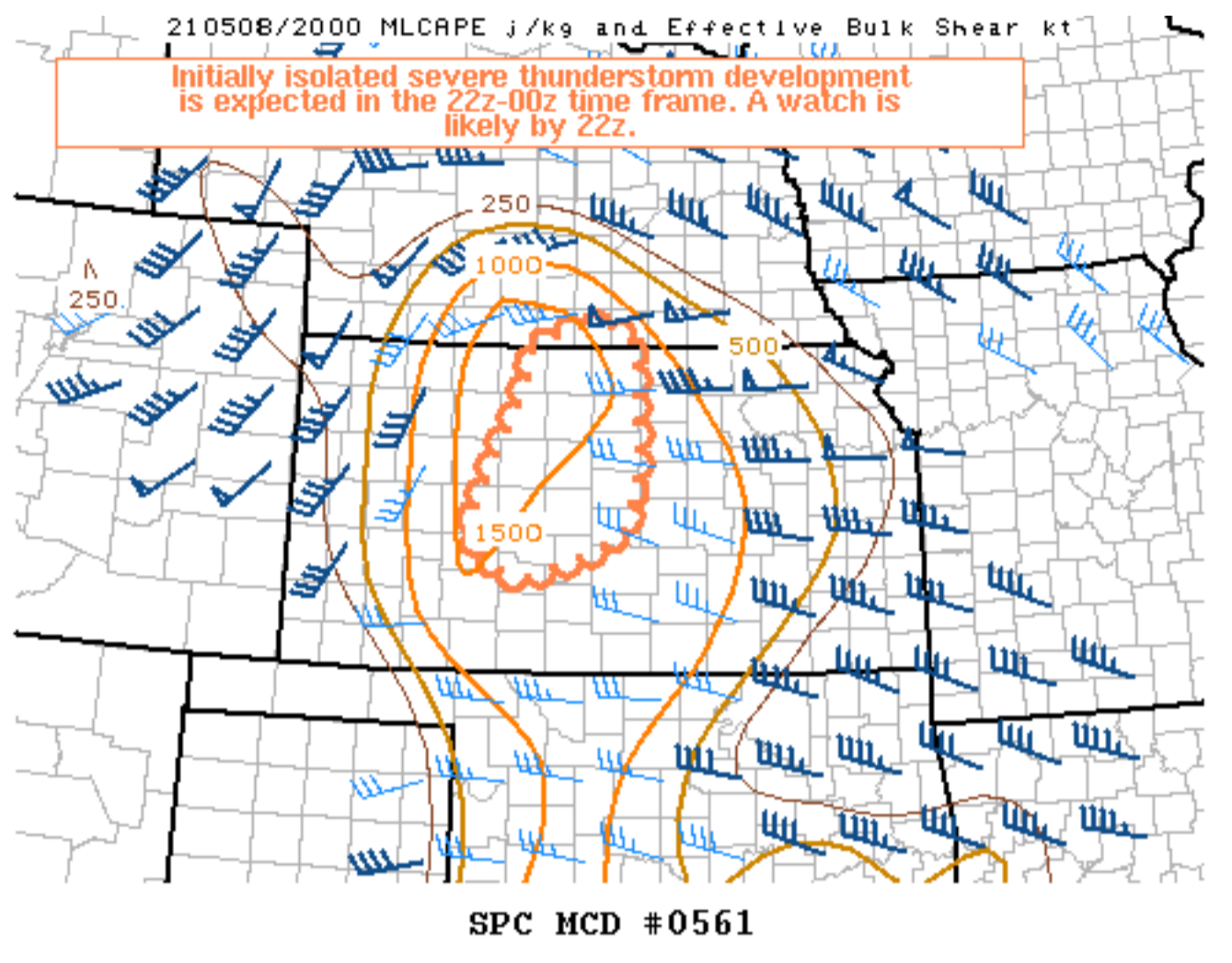


Mesoscale Discussion 561

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

210508/2000 MLCAPE j/kg and Effective Bulk Shear kt

Initially isolated severe thunderstorm development is expected in the 22z-00z time frame. A watch is likely by 22z.



SPC MCD #0561

Mesoscale Discussion 0561
NWS Storm Prediction Center Norman OK
0324 PM CDT Sat May 08 2021

Areas affected...portions of central KS and extreme south-central NE

Concerning...Severe potential...Watch likely

Valid 082024Z - 082230Z

Probability of Watch Issuance...80 percent

SUMMARY...Isolated severe thunderstorms are expected to develop in the 5-7 pm CDT/22z-00z time frame, with a risk for primarily large hail and damaging winds. Observational trends are being monitored and a watch is likely to 22z.

DISCUSSION...Latest visible satellite imagery shows a high-based cumulus field becoming better established over portions of southwest and central KS near a triple point north of Dodge City. A warm front extends north/east from the triple point across northern KS, while a cold front continues moving southward over western KS. Strong heating/mixing of mid-upper 50s surface dew points has resulted in moderate-strong MLCAPE beneath an EML within the warm sector, with further erosion of MLCINH contributing to thunderstorm development in the 22z-00z time frame as a mid-level shortwave trough approaches from the west.

Isolated supercell storms developing initially near the triple point will move east-northeast in the vicinity of the warm front with a risk for primarily large hail. Damaging winds will become more likely with time, and some risk for a tornado may also exist, especially with discrete storms near the warm front. Thunderstorm coverage should increase through early evening along the cold front as it advances eastward over north-central KS.

Trends continue to be monitored and a watch is likely by 22z.

..Bunting/Thompson.. 05/08/2021

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

ATTN...WFO...ICT...GID...DDC...

LAT...LON 37889922 37939965 38319993 39099957 39599931 39979920
40209872 40189814 39969796 39549797 39279795 38979795
38719796 38239814 37889922

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

Weather Topics:

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

National Weather Service • Since 1870

National Weather Service