

Site  
Map

News Organization

Search for:



SPC



NCEP



All NOAA

Go

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

City, St

Go

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 &amp; Outreach

About the SPC

SPC FAQ

About Tornadoes

About Derechos

Video Lecture Series

WCM Page

Enh. Fujita Page

Our History

Public Tours

Misc.

Staff

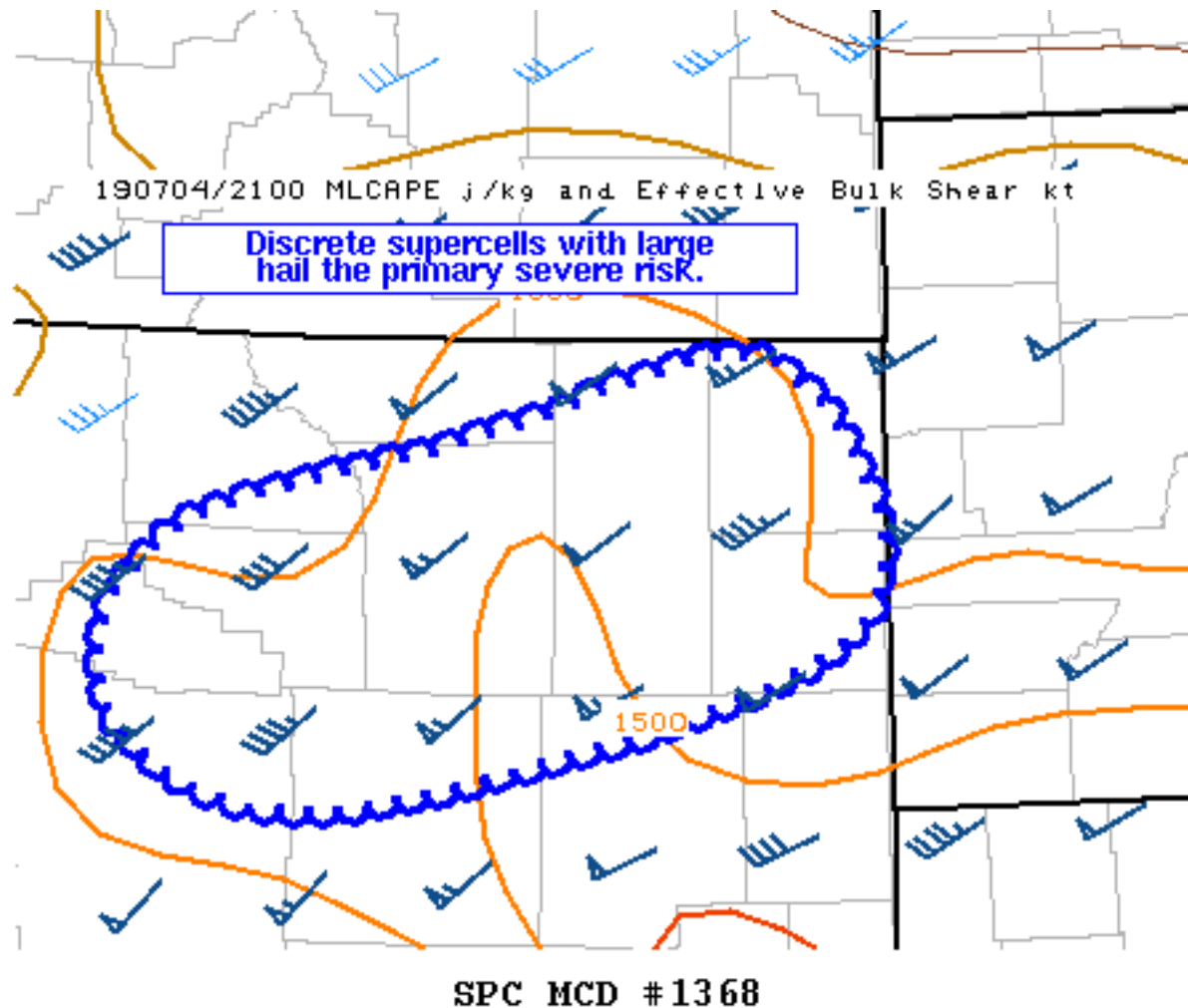
Contact Us

SPC Feedback

## Mesoscale Discussion 1368

&lt; Previous MD

Next MD &gt;



Mesoscale Discussion 1368

NWS Storm Prediction Center Norman OK

0458 PM CDT Thu Jul 04 2019

Areas affected...north-central and northeast WY

Concerning...Severe Thunderstorm Watch [483](#)...

Valid 042158Z - 042300Z

The severe weather threat for Severe Thunderstorm Watch 483 continues.

SUMMARY...Discrete supercells with large hail will be the primary severe risk for the next few hours. A local watch extension-in-area could be utilized for Butte County, SD if the storm near Devils Tower maintains its intensity and approaches the WY/SD border.

DISCUSSION...Radar imagery shows several widely spaced supercells from north-central WY into northeast WY. Surface observations show temperatures in the mid-upper 70s degrees F and dewpoints in the 50s



over northeast and north-central WY. As a result, 1000-1500 J/kg MLCAPE is objectively analyzed within this corridor. KRIW VAD shows a straight-line hodograph and forecast soundings indicate around 45-50kt effective shear. As thunderstorms continue to organize and strengthen as they move into the instability axis (located from southeast WY north-northwest to near the Bighorns), hail potential will probably increase with 1-2 inches in diameter possible. Although severe gusts may accompany the stronger downdrafts, it appears the hail risk is the primary hazard over the next few hours.

..Smith.. 07/04/2019

...Please see [www.spc.noaa.gov](http://www.spc.noaa.gov) for graphic product...

ATTN...WFO...UNR...CYS...BYZ...RIW...

LAT...LON 44900467 44580645 44110835 43360858 42980729 43750421  
44900467

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

Weather Topics:

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

---

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](mailto:spc.feedback@noaa.gov)  
Page last modified: July 04, 2019

[Disclaimer](#)  
[Information Quality](#)  
[Help](#)  
[Glossary](#)

[Privacy Policy](#)  
[Freedom of Information Act \(FOIA\)](#)  
[About Us](#)  
[Career Opportunities](#)