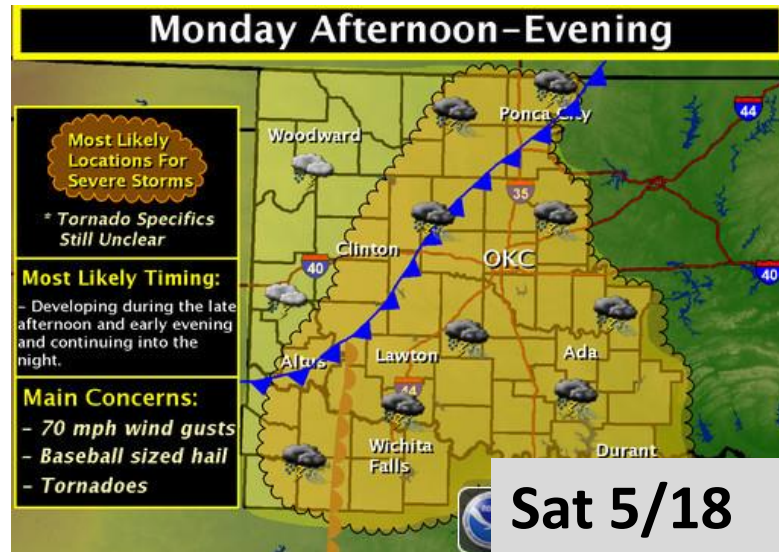
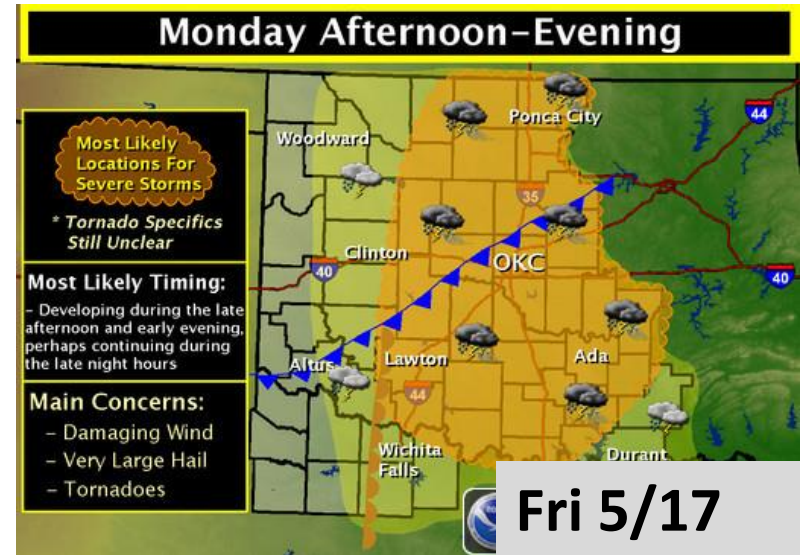
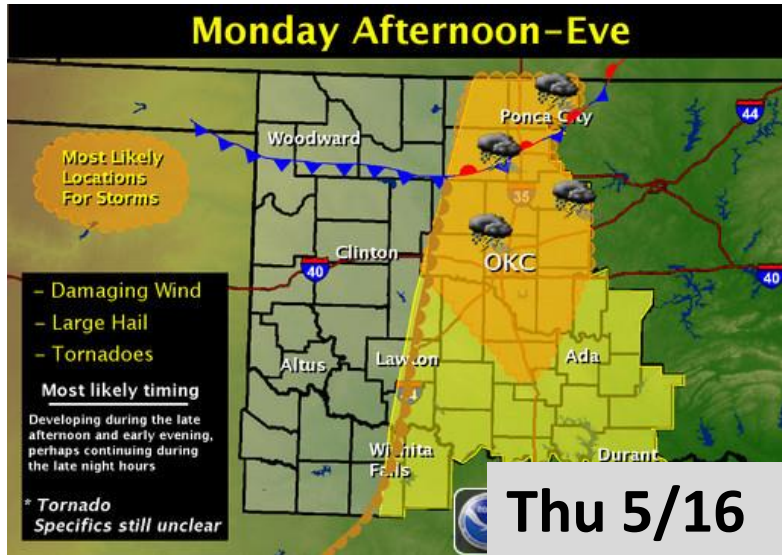


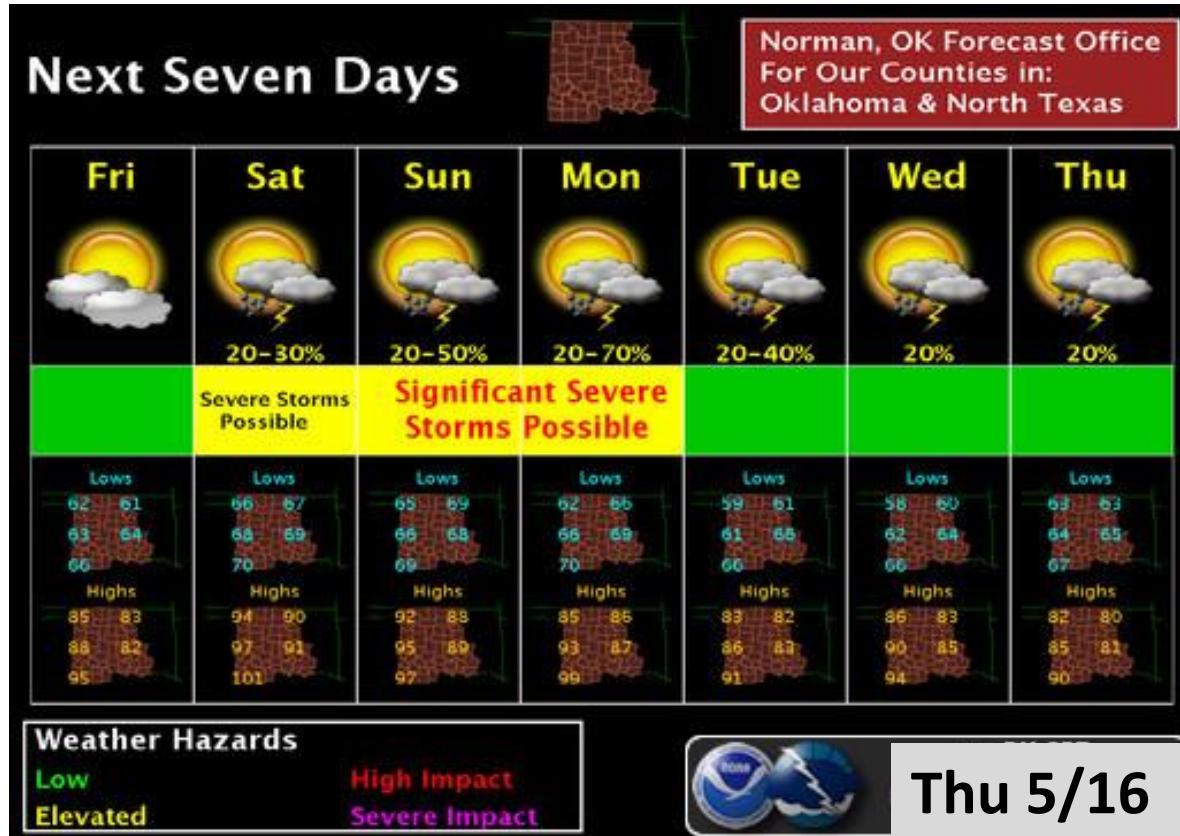
May 20, 2013
Newcastle-Moore Tornado

NWS Forecast Office Norman

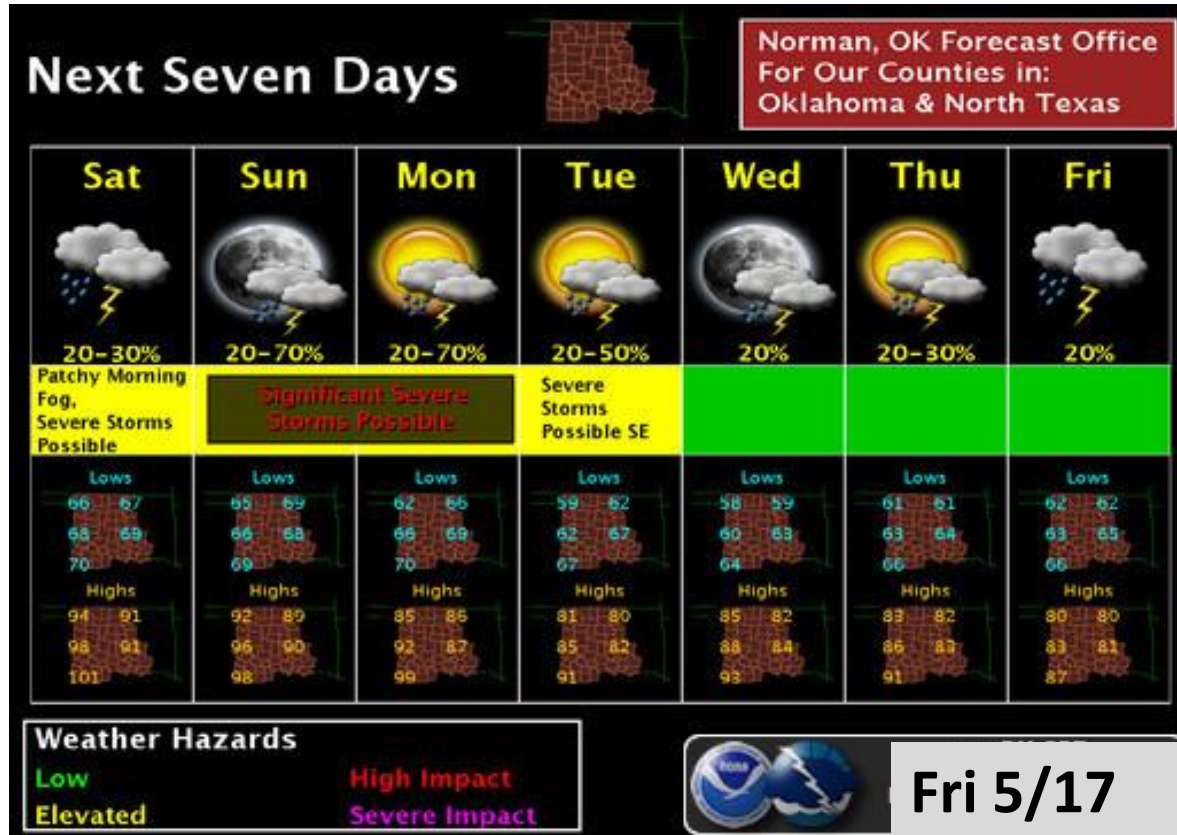
Medium Range Graphiccasts



Medium Range Forecasts



Medium Range Forecasts



Hazardous Weather Outlooks

Wed 5/15 at 5:00am

.DAYS TWO THROUGH SEVEN...THURSDAY THROUGH TUESDAY...

THUNDERSTORM OUTLOOK...

THUNDERSTORMS THAT DEVELOP WEDNESDAY EVENING MAY CONTINUE ACROSS SOUTH-CENTRAL AND SOUTHEAST OKLAHOMA EARLY THURSDAY MORNING. NO SEVERE WEATHER IS EXPECTED THURSDAY MORNING.

THUNDERSTORMS CHANCES WILL RETURN SATURDAY...MAINLY OVER WESTERN OKLAHOMA NEAR A DRYLINE. SEVERE STORMS ARE POSSIBLE LATE SATURDAY.

GREATER INSTABILITY AND WIND SHEAR WILL SUPPORT SEVERE STORMS ON SUNDAY AND MONDAY...MAINLY OVER THE CENTRAL AND EASTERN PORTIONS OF OKLAHOMA.

Thu 5/16 at 5:00am

.DAYS TWO THROUGH SEVEN...FRIDAY THROUGH WEDNESDAY...

THUNDERSTORM OUTLOOK...

THUNDERSTORMS CHANCES WILL RETURN SATURDAY AFTERNOON...MAINLY OVER WESTERN OKLAHOMA NEAR A DRYLINE. IF STORMS DO DEVELOP... THEY WILL LIKELY BE SEVERE WITH DAMAGING HAIL AND WIND THE MAIN THREATS.

GREATER INSTABILITY AND WIND SHEAR WILL SUPPORT SEVERE STORMS ON SUNDAY THROUGH TUESDAY...MAINLY OVER CENTRAL AND EASTERN PORTIONS OF OKLAHOMA. THE LATEST FORECAST DATA INDICATES THAT SIGNIFICANT SEVERE WEATHER WILL BE POSSIBLE...INCLUDING DESTRUCTIVE HAIL AND TORNADOES.

STAY AWARE OF THE LATEST FORECASTS AS THE WEEKEND APPROACHES.

Hazardous Weather Outlooks

Mon 5/20 at 5:00am

THUNDERSTORM OUTLOOK...

THERE IS A MODERATE RISK OF SEVERE THUNDERSTORMS THROUGH TONIGHT ACROSS PORTIONS OF OKLAHOMA AND WESTERN NORTH TEXAS.

LOCATION...

THE MODERATE RISK AREA IS SOUTHEAST OF A LINE FROM WICHITA FALLS TEXAS...TO LAWTON OKLAHOMA...TO EL RENO...TO GUTHRIE...TO STILLWATER.

TIMING...

THE MOST LIKELY TIME FOR SEVERE THUNDERSTORMS WILL BE FROM 1 PM THROUGH MIDNIGHT.

IMPACTS...

BASEBALL SIZED HAIL...DAMAGING WINDS...AND **A FEW TORNADOES ARE LIKELY WITH THE STRONGEST STORMS WITHIN THE MODERATE RISK AREA.**

Mon 5/20 at 10:00am

THUNDERSTORM OUTLOOK...

THERE IS A MODERATE RISK OF SEVERE THUNDERSTORMS THROUGH TONIGHT ACROSS PORTIONS OF OKLAHOMA AND WESTERN NORTH TEXAS. **A FEW TORNADOES ARE EXPECTED.**

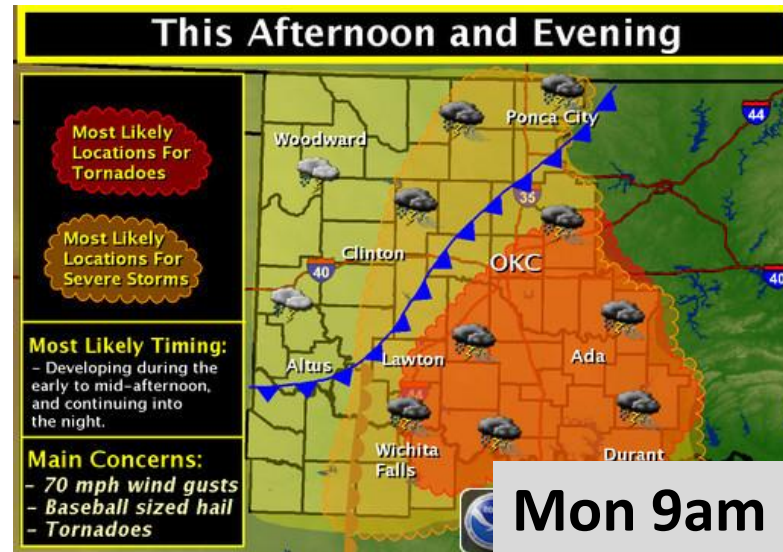
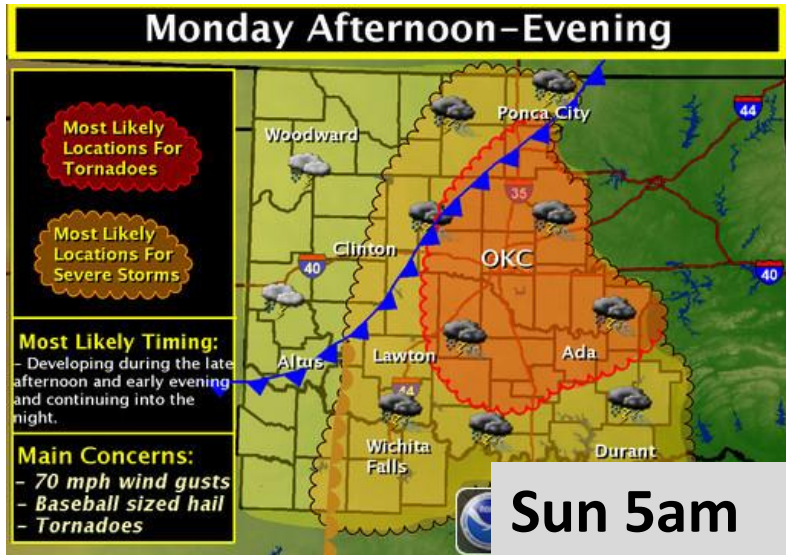
TIMING...

ALTHOUGH SEVERE THUNDERSTORMS WILL BE POSSIBLE FROM 1 PM THROUGH MIDNIGHT...**THE PEAK HOURS FOR SEVERE WEATHER...INCLUDING TORNADOES... WILL BE BETWEEN 3 PM AND 8 PM THIS AFTERNOON AND EVENING.**

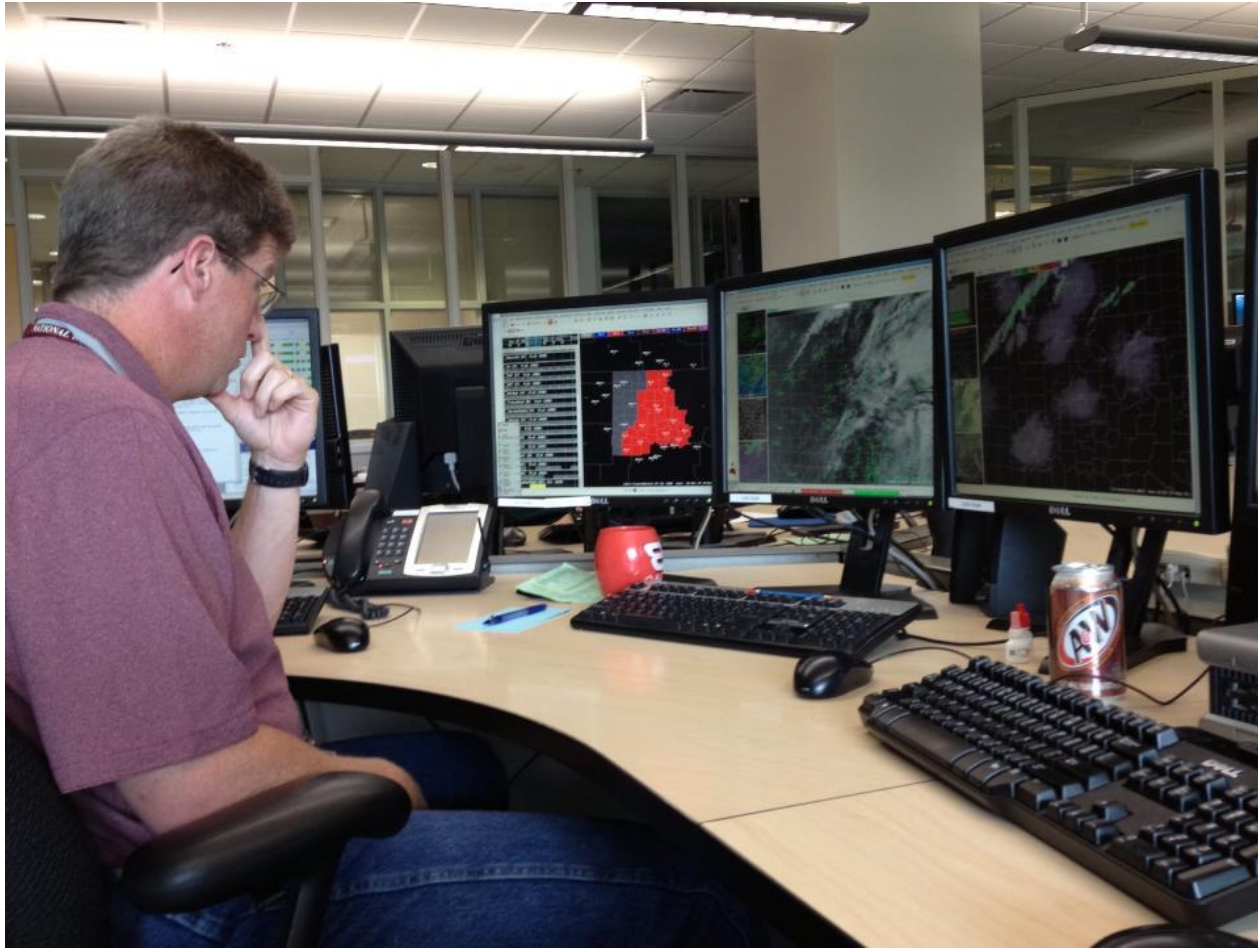
IMPACTS...

TORNADOES...POTENTIALLY STRONG WITH LONG TRACKS...ALONG WITH BASEBALL SIZED HAIL AND DAMAGING WINDS ARE LIKELY WITH THE STRONGEST STORMS WITHIN THE MODERATE RISK AREA.

Short Range Graphiccasts



NWS/SPC Coordination

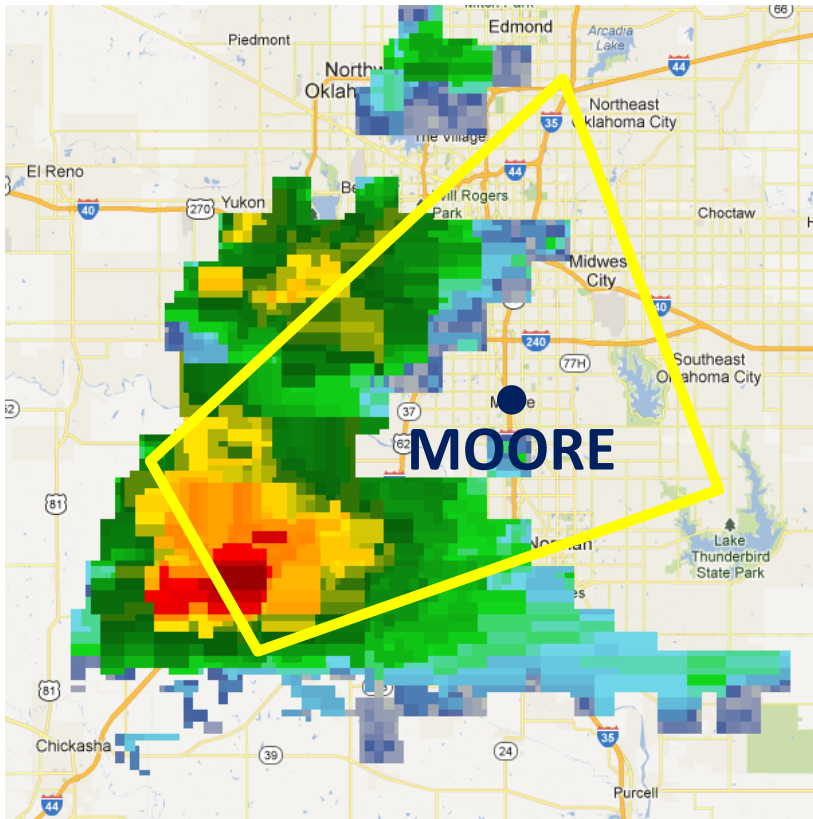


NWS Norman's Scott Curl coordinates the issuance of Tornado Watch 191 with the Storm Prediction Center

Severe Thunderstorm Warning

NATIONAL WEATHER SERVICE NORMAN OK

212 PM CDT MON MAY 20 2013



THE NATIONAL WEATHER SERVICE IN NORMAN HAS ISSUED A

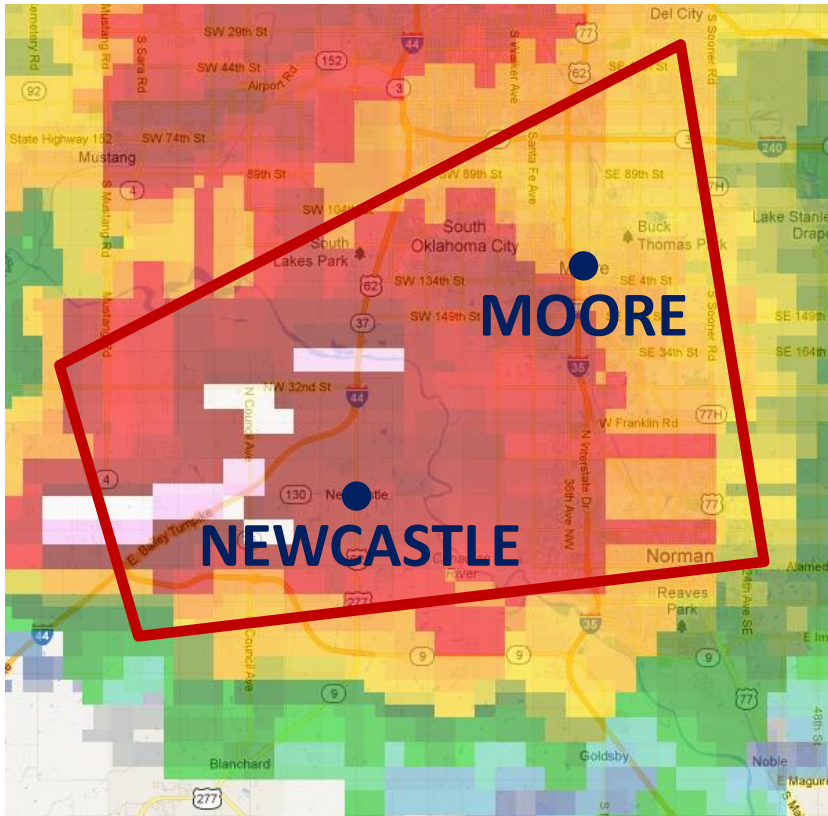
- * SEVERE THUNDERSTORM WARNING FOR...
SOUTHEASTERN CANADIAN COUNTY IN CENTRAL OKLAHOMA...
NORTHERN CLEVELAND COUNTY IN CENTRAL OKLAHOMA...
NORTHEASTERN GRADY COUNTY IN CENTRAL OKLAHOMA...
NORTHWESTERN MCCLAIN COUNTY IN CENTRAL OKLAHOMA...
WESTERN OKLAHOMA COUNTY IN CENTRAL OKLAHOMA...

* UNTIL 300 PM CDT

* AT 208 PM CDT...NATIONAL WEATHER SERVICE METEOROLOGISTS DETECTED A SEVERE THUNDERSTORM LOCATED NEAR BRIDGE CREEK...MOVING NORTHEAST AT 40 MPH.

* LOCATIONS IMPACTED INCLUDE...
OKLAHOMA CITY...MIDWEST CITY...MOORE...DEL CITY...MUSTANG...NEWCASTLE...TUTTLE...STANLEY DRAPER LAKE...BRIDGE CREEK...TINKER AIR FORCE BASE...FOREST PARK...VALLEY BROOK AND LAKE ALUMA.

Tornado Warning



NATIONAL WEATHER SERVICE NORMAN OK
240 PM CDT MON MAY 20 2013

THE NATIONAL WEATHER SERVICE IN NORMAN HAS ISSUED A

* TORNADO WARNING FOR...

NORTHWESTERN MCCLAIN COUNTY IN CENTRAL OKLAHOMA...
SOUTHERN OKLAHOMA COUNTY IN CENTRAL OKLAHOMA...
NORTHEASTERN GRADY COUNTY IN CENTRAL OKLAHOMA...
NORTHERN CLEVELAND COUNTY IN CENTRAL OKLAHOMA...

* UNTIL 315 PM CDT

* AT 238 PM CDT...NATIONAL WEATHER SERVICE
METEOROLOGISTS DETECTED A SEVERE THUNDERSTORM
CAPABLE OF PRODUCING A TORNADO. THIS DANGEROUS STORM
WAS LOCATED NEAR NEWCASTLE...AND MOVING EAST AT 20
MPH.

IN ADDITION TO A TORNADO...LARGE DAMAGING HAIL UP TO
GOLF BALL SIZE IS EXPECTED WITH THIS STORM.

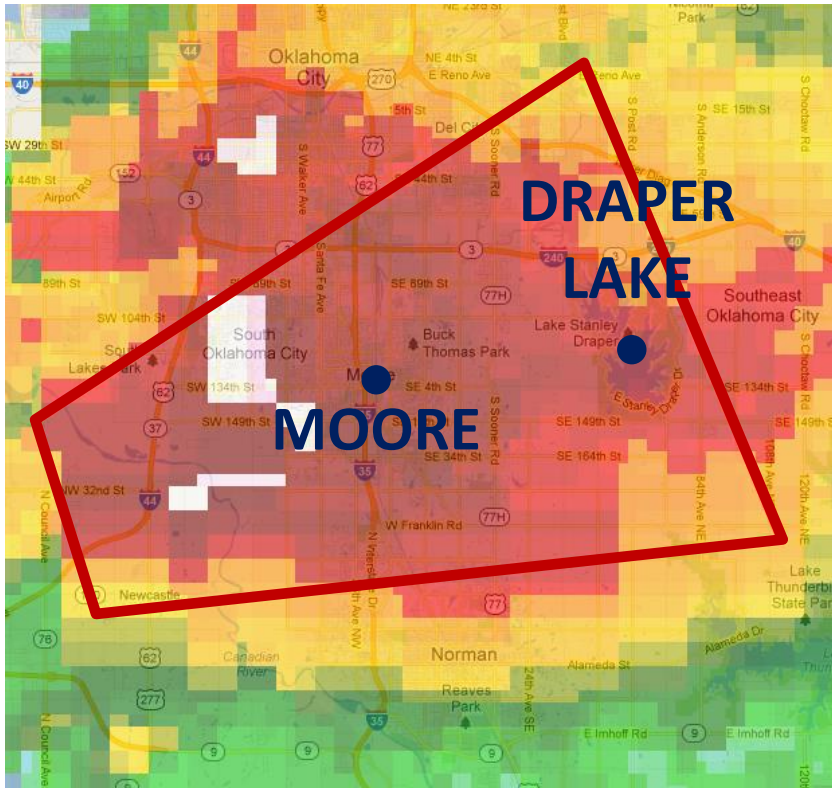
* **LOCATIONS IMPACTED INCLUDE...**

**NORMAN...MOORE...NEWCASTLE...BRIDGE CREEK AND VALLEY
BROOK.**

Tornado Emergency

NATIONAL WEATHER SERVICE NORMAN OK

301 PM CDT MON MAY 20 2013



THE NATIONAL WEATHER SERVICE IN NORMAN HAS ISSUED A

* TORNADO WARNING FOR...

NORTHWESTERN MCCLAIN COUNTY IN CENTRAL OKLAHOMA...

SOUTHERN OKLAHOMA COUNTY IN CENTRAL OKLAHOMA...

NORTHERN CLEVELAND COUNTY IN CENTRAL OKLAHOMA...

* UNTIL 345 PM CDT

* AT 259 PM CDT...NATIONAL WEATHER SERVICE METEOROLOGISTS AND STORM SPOTTERS WERE **TRACKING A LARGE AND EXTREMELY DANGEROUS TORNADO NEAR NEWCASTLE**. DOPPLER RADAR SHOWED THIS TORNADO MOVING NORTHEAST AT 20 MPH.

THIS IS A TORNADO EMERGENCY FOR MOORE AND SOUTH OKLAHOMA CITY.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

THIS IS AN EXTREMELY DANGEROUS AND LIFE THREATENING SITUATION. IF YOU CANNOT GET UNDERGROUND GO TO A STORM SHELTER OR AN INTERIOR ROOM OF A STURDY BUILDING NOW.

Social Media: Lead-up



NWS Norman @NWSNorman

17 May

What to expect: Monday - severe storms expected W and C OK afternoon. Tornado, hail and wind threat, but more uncertain. #okwx #txwx

Expand Reply Retweet Favorite More



NWS Norman @NWSNorman

19 May

We're going to be dealing with more severe weather tomorrow. #okwx pic.twitter.com/Utmpux9wzz

Hide photo Reply Retweet Favorite More



NWS Norman @NWSNorman

23h

Increasing concern for more tornadoes today, especially along and south of I-44! Please retweet this and help us spread the word. #okwx

Expand



NWS Norman @NWSNorman

20 May

Attention school systems, parents and students!! We may be dealing with dangerous storms at school dismissal time! Plan ahead! #okwx

Expand



NWS Norman @NWSNorman

20 May

Get ready! More svr storms today with tornadoes/giant hail 1 pm-midnight SE Wichita Falls to Stillwater. #okwx #txwx

Expand

Social Media: During Event



NWS Norman @NWSNorman

20h

A tornado watch will be issued soon for much of Oklahoma. Stay alert! [#okwx](#)

[Expand](#)



NWS Norman @NWSNorman

20h

Just launched a weather balloon. Cap is still there, but not strong and very breakable. Strong shear in place. [#okwx](#)

[Expand](#)



NWS Norman @NWSNorman

20h

Isolated supercells likely along dry line with storms initially capable of very large hail. Tornado threat increases thru afternoon.

[Expand](#)



NWS Norman @NWSNorman

20h

Tornado watch: rapid intense storm development expected next few hours, both near stalled front west of I-35, and near the dry line SW OK.

[Expand](#)



NWS Norman @NWSNorman

19h

230pm - people in south OKC, Moore and north Norman need to be pay VERY close attention to the storm near Newcastle!! [#okwx](#)

[Expand](#)



NWS Norman @NWSNorman

19h

222pm - things are getting very busy! Every storm that forms goes severe quickly. Please stay alert and be ready to act quickly! [#okwx](#)

[Expand](#)



NWS Norman @NWSNorman

19h

211pm - severe thunderstorm warning for OKC metro area. Severe storm near Bridge Creek moving NE 40 mph. [#okwx](#)

[Expand](#)



NWS Norman @NWSNorman

19h

208pm - storms developing near Blanchard and Tuttle, moving NE at 30 mph. Stay alert Norman, Moore, and S OKC. Not severe yet.

[#okwx](#)

[Expand](#)



NWS Norman @NWSNorman

19h

156pm - dry line visible on radar from SW of Minco to Elgin to Walters. Cold front from Minco to Yukon to Perkins. Areas S and E stay alert

[Expand](#)

Monday 12pm-2pm

Social Media: During Event



NWS Norman @NWSNorman

19h

One warning forecaster focusing on big supercell west of OKC.

#okwx pic.twitter.com/MVbwWhvigI

Hide photo Reply Retweet Favorite More



NWS Norman @NWSNorman

19h

DO NOT take cover under highway overpasses!!! You will prevent people from getting to shelter. Get OFF THE ROAD and find a store, restaurant

[Expand](#)



NWS Norman @NWSNorman

19h

245pm - you DO NOT want to be in your car in a tornado! Stay where you are. Get in, get down and cover up. Tornado may affect Moore/S OKC

[Expand](#)



NWS Norman @NWSNorman

19h

240pm - TORNADO WARNING for OKC metro! Developing tornado near Newcastle moving E 20 MPH. Take shelter!! #okwx

[Expand](#)



NWS Norman @NWSNorman













19h

239pm - storm west of Newcastle is intensifying and showing some rotation. Stay alert! No tornado warning yet. #okwx

[Expand](#)

Monday 2pm-2:50pm

Social Media: During Event

-  **NWS Norman** @NWSNorman 18h
303pm - This is as serious as it gets for SW OKC and Moore. Please seek shelter now! #okwx
Expand
-  **NWS Norman** @NWSNorman 18h
302pm - LARGE VIOLENT TORNADO moving toward Moore and SW OKC. Take cover right NOW!!! Do not wait!! #okwx
Expand
-  **NWS Norman** @NWSNorman 19h
301pm - TORNADO EMERGENCY OKC METRO!!
Expand
-  **NWS Norman** @NWSNorman 19h
Large dangerous tornado at 3pm!!! pic.twitter.com/2hUzMOBV7k
[View photo](#)
-  **NWS Norman** @NWSNorman 19h
Tornado north side of Newcastle at 256pm!
pic.twitter.com/yryCp4WUW1
[View photo](#)
-  **NWS Norman** @NWSNorman 19h
255pm - TORNADO! ON the north side of Newcastle moving east!
#okwx
Expand
-  **NWS Norman** @NWSNorman 18h
325pm - tornado crossed I-35 in south Moore and is now moving along and south of 4th street. Take cover! #okwx
Expand
-  **NWS Norman** @NWSNorman 18h
322pm - the tornado is so large you may not realize it's a tornado. If you are in Moore, go to shelter NOW! #okwx
Expand
-  **NWS Norman** @NWSNorman 18h
TORNADO EMERGENCY for the City of Moore. Get as far inside a sturdy building as you can. Cover up! Do not wait! #okwx
Expand
-  **NWS Norman** @NWSNorman 18h
319pm - TORNADO Approaching area near Warren Theater in Moore! Please take shelter. This is as bad as it gets. #okwx
Expand
-  **NWS Norman** @NWSNorman 18h
317pm - Large tornado east of Bray, Stephens County. Take Cover RIGHT NOW!!! #okwx
Expand
-  **NWS Norman** @NWSNorman 18h
Large deadly tornado moving into Moore near 134th and Western.
pic.twitter.com/YA2pzEegqG
[View photo](#)

Monday 2:55pm-3:25pm

Social Media: During Event



NWS Norman @NWSNorman

18h

340pm - Tornado could develop again at any time near Lake Stanley Draper! We are NOT in the clear yet! Stay alert! #okwx

Expand



NWS Norman @NWSNorman

18h

336pm - tornado has roped out west of Lake Stanley Draper. #okwx

Expand



NWS Norman @NWSNorman

18h

334pm - tornado moving toward lake Stanley Draper and will come VERY close to the KTLX radar site. #okwx

Expand



NWS Norman @NWSNorman

18h

332pm - SE OKC is in immediate danger! Take cover. Large violent tornado moving your way. Do not wait to see the tornado! #okwx

Expand



NWS Norman @NWSNorman

18h

TORNADO EMERGENCY for Moore. 328pm

pic.twitter.com/OiS2qUcmc

[View photo](#)

Monday 3:28pm-3:40pm

Social Media: During Event



US National Weather Service Norman Oklahoma

18 hours ago

314pm - LARGE VIOLENT TORNADO near SW 134th and Western.
Take cover in Moore NOW!!!



Like · Comment · Share

647



US National Weather Service Norman Oklahoma

18 hours ago


331pm - TORNADO EMERGENCY for Moore. Tornado moving north of 4th street between Sunnyslane and Sooner Road. Deadly serious situation. Save your life and seek shelter now.



Like · Comment · Share


210

Social Media: Event Aftermath


 **NWS Norman** @NWSNorman 17h
Newcastle-Moore OKC Tornado was on the ground approx. 40 minutes. Tornado warning was in effect for 16 minutes before tornado developed.
Expand


 **NWS Norman** @NWSNorman 18h
PRELIMINARY tornado damage track for the Newcastle-Moore-South OKC tornado. Based on radar and damage reports. #okwx
pic.twitter.com/MT0auFhmnY
[View photo](#)


 **NWS Norman** @NWSNorman 17h
Comparison between May 3 1999 and PRELIM May 20, 2013 tornado paths - #okwx pic.twitter.com/oDsgb4uZo4
[View photo](#)

 **NWS Norman** @NWSNorman 17h
458pm - Preliminary Rating of Newcastle-Moore Tornado at least EF-4 #okwx
Expand

 **NWS Norman** @NWSNorman 14h
FB page for Moore Tornado Recovery Information: facebook.com/MooreOKTornado...
Expand

 **NWS Norman** @NWSNorman 19m
We have an end point for the Newcastle/Moore tornado. 4.8 miles E of Moore at approx 336 pm CDT. #okwx #txwx
Expand

 **NWS Norman** @NWSNorman 31m
Survey teams are assessing damage. Reports/ratings will take some time as rounds of lightning/rain impact the damaged area. #okwx
Expand

 **NWS Norman** @NWSNorman 45m
NWS Norman is in direct contact with incident commanders and responders conducting search and rescue operations in Moore. #okwx
Expand

 **US National Weather Service Norman Oklahoma**
15 hours ago

647-pm Severe Thunderstorm Warning issued for the OKC Metro, this will not impact the First Responders/Recovery in Moore at the moment

Comparison of the Preliminary May 20, 2013 Tornado Track with the May 3, 1999 and May 8, 2003 Tornado Tracks

