

# Weekly Situation Awareness Briefing

Office of Student Affairs | Midwestern State University

July 27 – August 2, 2020

Prepared by: Eric Queller












# Weather For The Week

In collaboration with the Norman OK  
National Weather Service Forecast Office.



# Summary of the Week

July 27, 2020 – August 2, 2020

Today	Tonight	Tuesday	Tuesday Night	Wednesday	Wednesday Night	Thursday	Thursday Night	Friday
								
20%	50%	40%	30%	30%	20%		20%	
Mostly Sunny then Slight Chance T-storms	Heavy Rain	Chance T-storms	Chance T-storms	Chance T-storms	Slight Chance T-storms	Mostly Sunny	Slight Chance T-storms	Mostly Sunny
High: 95 °F	Low: 74 °F	High: 89 °F	Low: 74 °F	High: 93 °F	Low: 74 °F	High: 95 °F	Low: 73 °F	High: 91 °F

## Hazardous Weather Outlook

**Today:** A 20 percent chance of showers and thunderstorms after 4pm. Mostly sunny, with a high near 95. Heat index values as high as 100. South southwest wind 6 to 9 mph.

**Tonight:** A 50 percent chance of showers and thunderstorms, mainly after 7pm. Some of the storms could produce heavy rainfall. Mostly cloudy, with a low around 74. East southeast wind 7 to 10 mph. New rainfall amounts between a tenth and quarter of an inch, except higher amounts possible in thunderstorms.

**Tuesday:** A 40 percent chance of showers and thunderstorms. Mostly cloudy, with a high near 89. South wind 3 to 6 mph.

**Tuesday Night:** A 30 percent chance of showers and thunderstorms, mainly after 1am. Mostly cloudy, with a low around 74. South southeast wind around 6 mph.

**Wednesday:** A 30 percent chance of showers and thunderstorms, mainly after 1pm. Partly sunny, with a high near 93. South southwest wind 6 to 9 mph.

**Wednesday Night:** A 20 percent chance of showers and thunderstorms. Partly cloudy, with a low around 74.

**Thursday:** Mostly sunny, with a high near 95.

**Thursday Night:** A 20 percent chance of showers and thunderstorms. Partly cloudy, with a low around 73.

**Friday:** Mostly sunny, with a high near 91.

**Friday Night:** A 20 percent chance of showers and thunderstorms. Partly cloudy, with a low around 70.

**Saturday:** Mostly sunny, with a high near 91.

**Saturday Night:** A 20 percent chance of showers and thunderstorms. Partly cloudy, with a low around 70.

**Sunday:** Mostly sunny, with a high near 92.

- Heavy rain/flash flooding threat over south OK and in to North Texas today.
- An area of low pressure around 1000 miles east of the Windward Islands may become a tropical depression or tropical storm in the next day or two.



# Hazard Planer

July 27, 2020 – August 2, 2020

Day / Threat	Mon	Tue	Wed	Thu	Fri	Sat	Sun
Severe Storms							
Heavy Rain / Flash Flooding	N NM, Panhandles, OK, N TX						
Fire Weather							
Wind							
Heat							

	Very Rare- Once Every 5-10 years
	Rare – Once Every 1-5 years
	Uncommon- A Few Times a Year
	Common – Happened Frequently
	Very Common- Happened Often
	No Weather Threats

\*Threat levels are based on the NWS Severe Thunderstorm Risk Categories

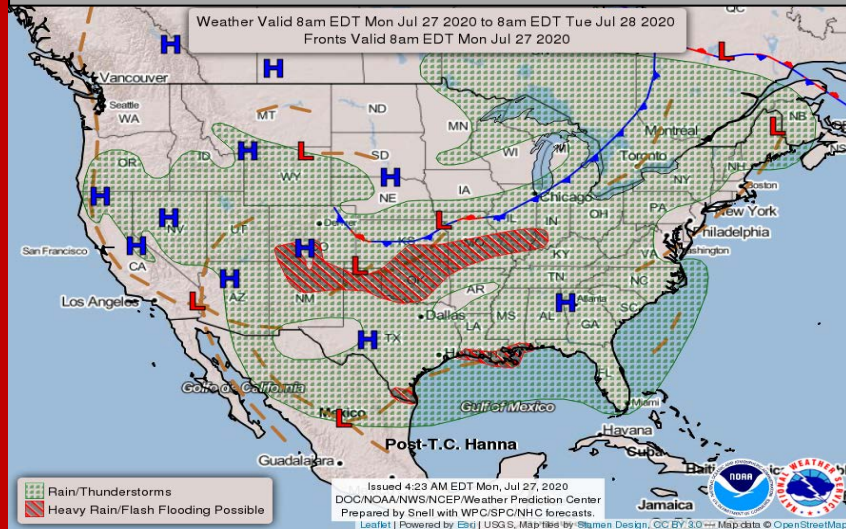
For more details on the colors in the treat matrix refer to slide 11 in the briefing (last weather slide).

# Short Term Forecast (Monday AM/PM)

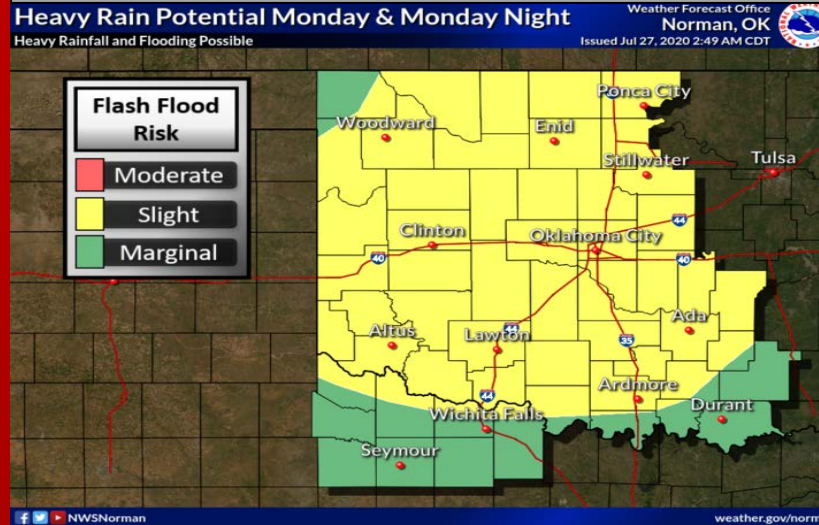
July 27, 2020 – August 2, 2020

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## Forecast Chart



## Hazardous Weather Outlook



## Excessive Rainfall Outlook



## .SHORT TERM...

(Today and tonight) Issued at 453 AM CDT Mon Jul 27 2020

And the rain begins. Areas of showers and thunderstorms are moving into and developing over northern Oklahoma this morning with hints of a Mesoscale Convective Vortex (MCV) developing over southwest Kansas. And a cold front is moving into northwest Oklahoma which will also create a focus for storm development. We may see a brief waning of the showers and storms this morning, but even if we do, additional development is expected this afternoon and rounds of storms will persist overnight and into Tuesday. Precipitable water values will be very high with values between 2 and 2.5 inches predicted over much of the forecast area. Storms will likely be very efficient rainfall producers and locally heavy rainfall is possible. There is still some question on where in northern or central Oklahoma the heaviest rain will develop and that will depend on where the surface cold front (and any outflow boundaries) are located, and in the short term will also depend on the movement of the MCV in southwest Kansas. Although there is some question on geography, it appears likely that some locations will receive some very heavy rainfall over the next 36 hours, so we are issuing a flood watch with this package for a fairly broad area of northern, central and southwestern Oklahoma. The scattered to widespread showers and thunderstorms will continue into Tuesday.

[Link to Forecast Discussion](#)

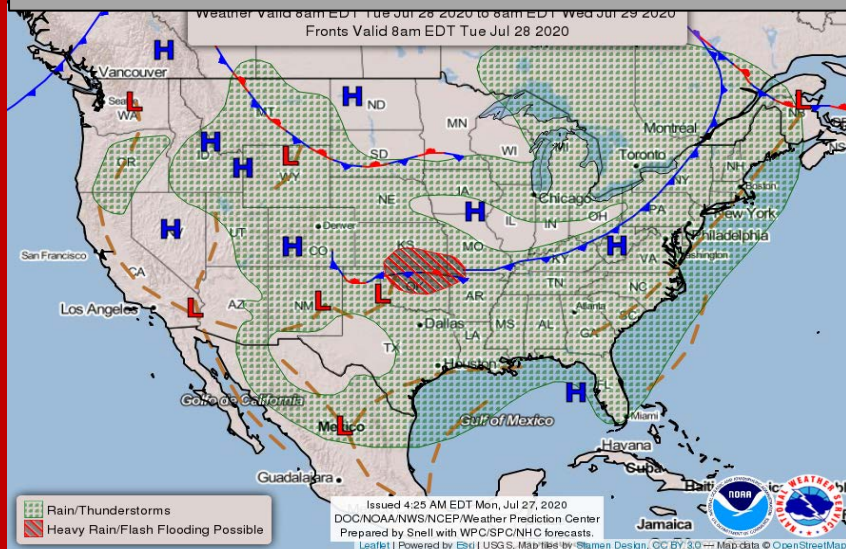


# Tuesday Forecast (Tuesday AM/PM)

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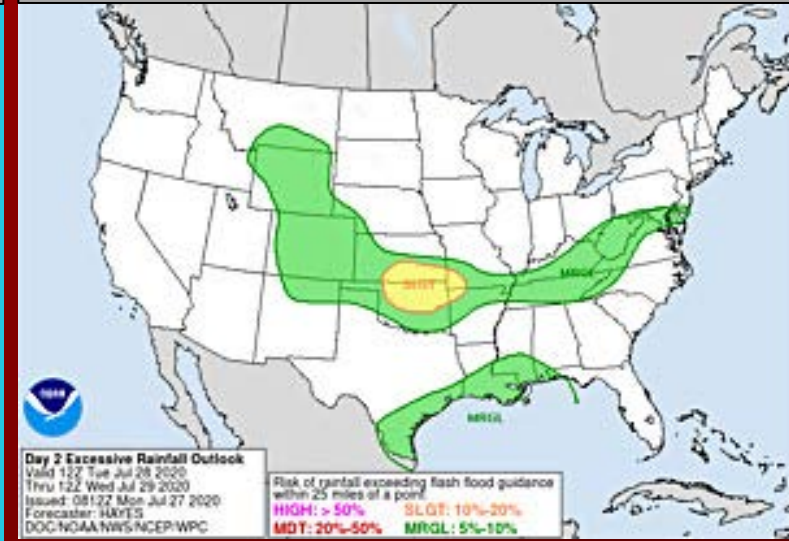
### Forecast Chart



### Hazard Weather Outlook

No Severe Weather Outlook

### Excessive Rainfall Outlook



## .SHORT TERM...

(Today and tonight) Issued at 4:53 AM CDT Mon Jul 27 2020

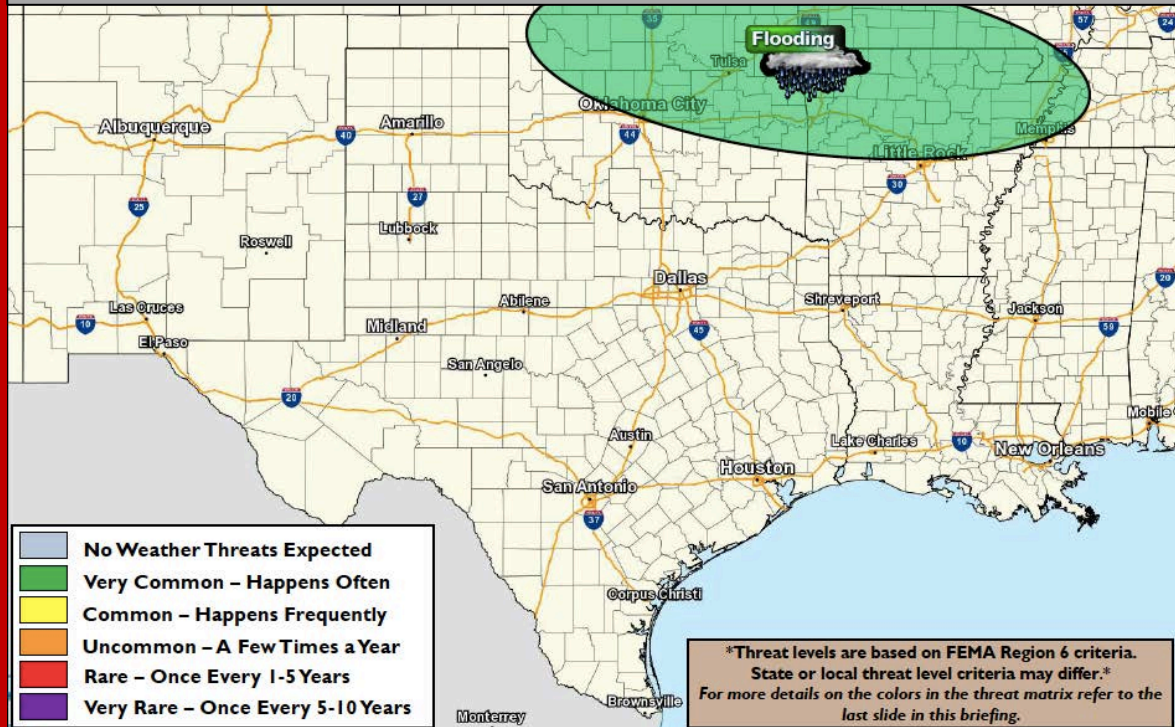
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[Link to Forecast Discussion](#)

# Long Term Forecast (Rest of Week)

July 27, 2020 – August 2, 2020

### Weather Hazards



### .LONG TERM...

(Tuesday through Sunday) Issued at 412 AM CDT Mon Jul 27 2020  
Widespread rain is expected to be ongoing on Tuesday, However, much of where the heaviest precipitation from ongoing storms sets up on Tuesday as will be dependent of the evolution of the storms Monday night, such as the location of the synoptic frontal boundary and any outflow boundaries. All the model solutions are projecting 2.0+ precipital water values across our entire forecast area, with consensus that the frontal boundary will be stalled across northern Oklahoma, and a bullseye of QPF across portions of central into northcentral Oklahoma. For now, the excessive rainfall and best potential for any flooding would be across central through northcentral Oklahoma. Weak shear and limited instability will make severe thunderstorms unlikely.

By mid-week, a high pressure ridge building across the American Southwest is expected to produce a northwest flow aloft pattern, with several shortwaves coming down from the Central High Plains resulting in chances of showers and thunderstorms from Wednesday through Saturday. With a return of south winds on Wednesday and Thursday, surface moisture will be on the increase, as well as a descent transport of gulf moisture advecting up through the mid- levels enhanced by nocturnal low-level jets setting. Although its still far out in time and may change with model runs, the GFS, ECMWF, and Canadian models are hinting strong dynamic forcing within the wave coming through Thursday night, and with Best LI values projections near -10.0 along with a surface boundary coming through, the potential for strong to severe storms is possible.



# Tropical Weather Outlooks – Atlantic/Gulf

July 27, 2020 – August 2, 2020

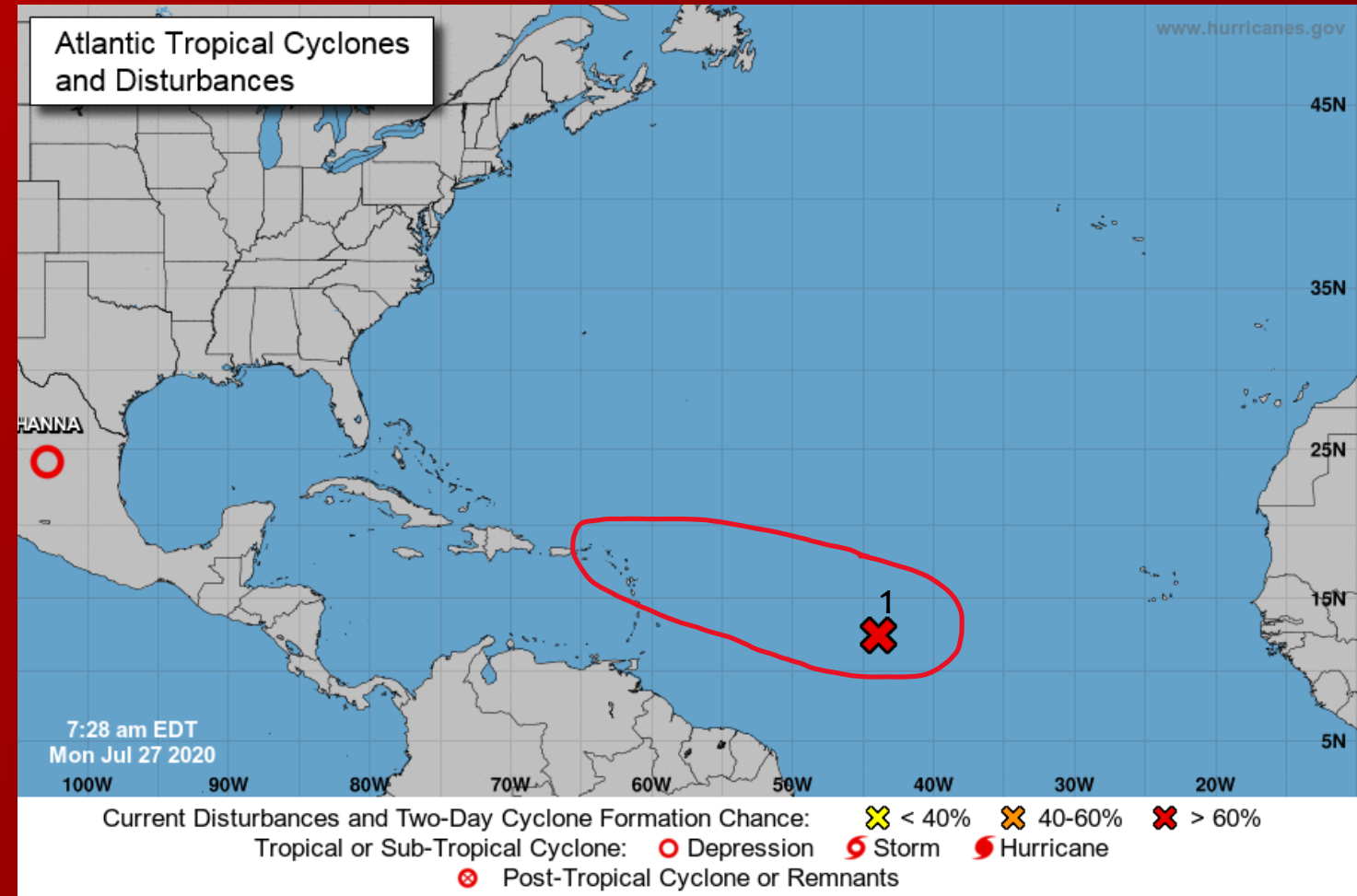
## Areas of Possible Development

Area	Chance of Development	Potential Impact to Texas Cost
1	High	No impact expected in the next days.

## Active Tropical Cyclones

Storm	Potential Impact to Texas
Hanna	Lingering flood/standing water issues in Deep South Texas.

See <http://www.hurricanes.gov> for the latest on the tropics or any active storms





## Weather “Threat Matrix

Color	Definition	Criteria	Example(s)
<b>Green</b>	<p><b>Very Common</b></p> <p><b>Safety:</b> Rarely a Direct Threat to Life and Property  <b>Impact Potential:</b> Typical Results in Little Inconvenience to Daily Routines</p>	<p><b>Severe:</b> Marginal Risk from SPC  <b>Flooding:</b> Minor Flooding expected over localized areas.  <b>Fire Weather:</b> No/Watches/Warnings, fuel moisture above 10% or green up active.</p>	<ul style="list-style-type: none"> <li>Thunderstorms expected over MSU Texas; a few may produce winds to knock down a few trees</li> </ul>
<b>Yellow</b>	<p><b>Somewhat Common – Happens Frequently</b></p> <p><b>Safety:</b> Rarely a Direct Threat to Life and Property.  <b>Impact Potential:</b> Typical Results in Some Inconvenience to Daily Life</p>	<p><b>Severe:</b> Slight Risk from SPC  <b>Flooding:</b> Nuisance Flooded expected for a widespread area, or Minor flooding expected isolated areas.  <b>Fire Weather:</b> Red Flag Watch/Warning and/or SPC outlines enhanced or critical fire outlook.</p>	<ul style="list-style-type: none"> <li>2-3 inches of rainfall expected over central North Texas towns today; some minor street flooding.</li> <li>Scattered severe storms possible, one or two tornadoes expected, along with strong winds and large hail.</li> </ul>
<b>Orange</b>	<p><b>Uncommon – A Few Times a Year</b></p> <p><b>Safety:</b> Often Threatening to Life and Property, some Damage Unavoidable.  <b>Impact Potential:</b> Typically Results in Minor Disruption to Daily Life</p>	<p><b>Severe:</b> Enhanced Risk from SPC  <b>Flooding:</b> Minor Flooding expected over a widespread area (including urban locations), or. Moderate flooding expected over isolated areas.  <b>Flooding: Fire Weather:</b> Critical fire outlook for more than 2 consecutive days, Warnings for or more consecutive days, D3-D4 drought conditions.</p>	<ul style="list-style-type: none"> <li>A snow/sleet mix is expected to move through or near Wichita Falls area tomorrow morning; travel impacts likely.</li> <li>Numerous severe storms possible with few tornados possible along with severe winds and large damaging winds.</li> </ul>
<b>Red</b>	<p><b>Rare – Once every 1-5 Years</b></p> <p><b>Safety:</b> Extensive Property Damage Likely, Life Saving Actions Also will be Needed.  <b>Impact Potential:</b> Will likely result in Large Disruption of Daily Life</p>	<p><b>Severe:</b> Moderate Risk from SPC.  <b>Flooding:</b> Moderate flooding expected over widespread area (including urban locations).  <b>Fire:</b> Fire Weather: Large area of critical conditions for 2 or more days, Warning for 3 or more days, severe to extreme drought.</p>	<ul style="list-style-type: none"> <li>Widespread severe storms likely, strong tornadoes, widespread wind damages, and destructive hail.</li> <li>Large fires ongoing throughout the area with critical fire weather conditions expected to continue.</li> </ul>
<b>Pink</b>	<p><b>Very Rare- Once Every 5-10 Years</b></p> <p><b>Safety:</b> Property Damage Unavoidable, Immediate Action to Save Life will be Needed.  <b>Impact Potential:</b> Typically Results in Long-Lived Widespread Major Disruption to Daily Life.</p>	<p><b>Severe:</b> High Risk from SPC  <b>Flooding:</b> Major flooding expected over a widespread area  <b>Fire:</b> Large are of critical conditions for 2 or more days, Warnings for 3 for more days, Long Term (Months) of severe to extreme drought.</p>	<ul style="list-style-type: none"> <li>Widespread severe storms expected, tornado outbreak probable with long-lived, very widespread and particularly intense storms .</li> </ul>





# Student Affairs

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## Incidents, Events & Important Information

In collaboration with MSU Texas Police  
Department, Student Leadership & Development,  
WFPD, WFEM, WFFD, NWS, & TDEM



# Incidents Reported In The Last 168 Hours

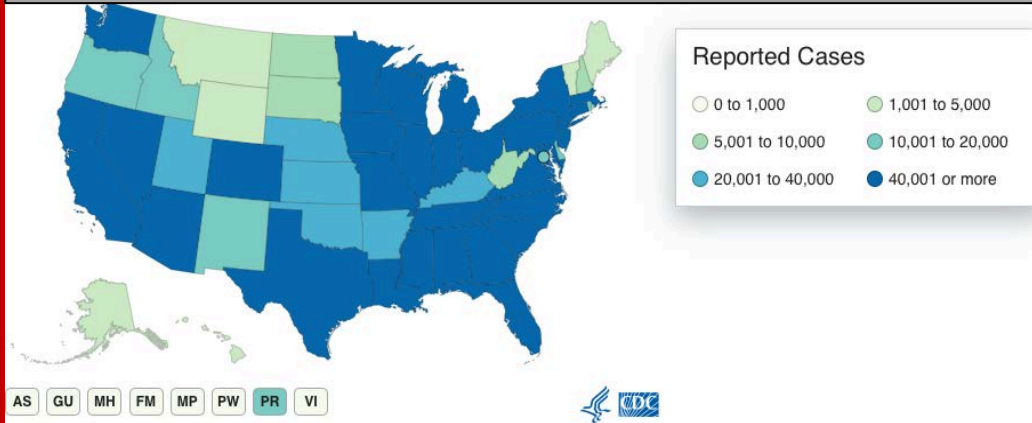
July 27, 2020 – August 2, 2020

DATE	EVENT / INCIDENT	Location
March 1, 2020	COVID-19	World
March 13, 2020	National Emergency	All 50 state & 5 territories.
March 13, 2020- ongoing	State of Texas disaster declaration.	All counties in Texas.
April 24, 2020 – ongoing	Live Safe - Work Safe Order.	Wichita Falls.
June 1, 2020 – November 30, 2020	Hurricane Season	Atlantic and Gulf of Mexico

# COVID-19 Incident

July 27, 2020 – August 2, 2020

## CDC US COVID-19 Map



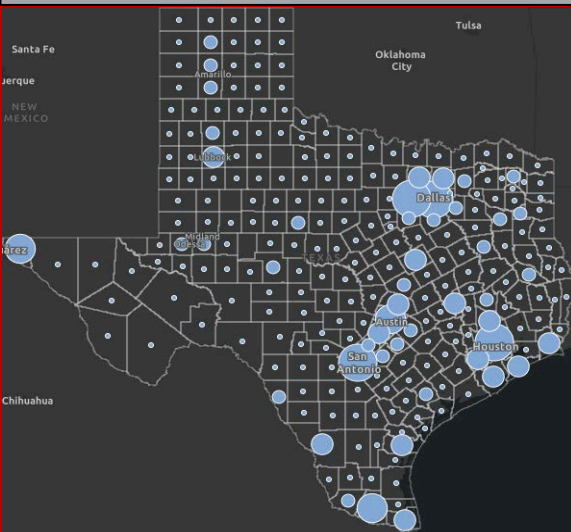
## COVID-19 Numbers

World	
Confirmed Cases	Total Deaths
15,785,641	640,016
United States	
Confirmed Cases	Total Deaths
4,163,892	145,982
Texas	
Confirmed Cases	Total Deaths
381,656	5,038
Wichita Falls	
Confirmed Cases	Total Deaths
808	9
MSU Texas Campus	
Confirmed Cases	Total Deaths
10	0

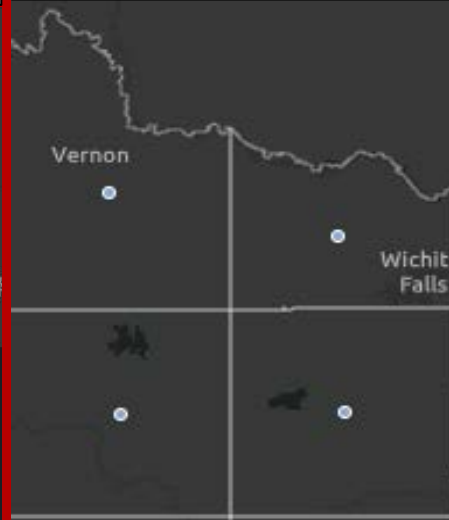
## Current risk assessment:

- The immediate risk of being exposed to this virus is still low for most Americans, but as the outbreak expands, that risk will increase. Cases of COVID-19 and instances of community spread are being reported in a growing number of states.
- People in places where ongoing community spread of the virus that causes COVID-19 has been reported are at elevated risk of exposure, with the level of risk dependent on the location.
- Healthcare workers caring for patients with COVID-19 are at elevated risk of exposure.
- Close contacts of persons with COVID-19 also are at elevated risk of exposure.
- Travelers returning from affected international locations where community spread is occurring also are at elevated risk of exposure, with level of risk dependent on where they traveled.

## TXDH COVID-19 Map



## NTX COVID-19 Map





# Major Campus Events

July 27, 2020 – August 2, 2020

DATE(S)	LOCATION	EVENT
3/25/2020 - Second Summer Semester	Online	MSU Texas will be switching from in person lecture to online lecturing (COVID-19)

- NOTE



For more information, please contact:

July 27, 2020 – August 2, 2020



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