# Seasonal Weather Hazards and Preparedness



LBA Coalition Meeting Bossier City, LA





# Getting the Word

- NOAA Weather Radio
- Internet (weather.gov/shv)
- Social Media (NWSShreveport
  - Facebook.com/NWSShreveport
  - X **V** Twitter.com/NWSShreveport
- Cell phone (mobile.weather.gov)
- Television/Radio











### **Monitor These Products**



The weather specific
Winter Weather
Strong Thunderstorms
Minor Flooding
Dense Fog
Elevated Winds
Heat

The event is a public inconvenience and creates travel/general hazard.



Conditions are favorable for the specified weather

Severe Thunderstorm

Flash Flood

Hurricane

High Winds

Winter Weather

Keep a "Watch" for weather threats



The weather specific

Tornado

Severe Thunderstorm

Flash Flood

Hurricane

High Winds

Winter Storm

is imminent/occurring
and is considered a threat
to life and /or property.



# Severe Weather Preparedness



### Criteria for a Severe Thunderstorm







Hail of 1 inch or larger (Quarter size or larger)

Winds of 58 mph (50kts) or greater

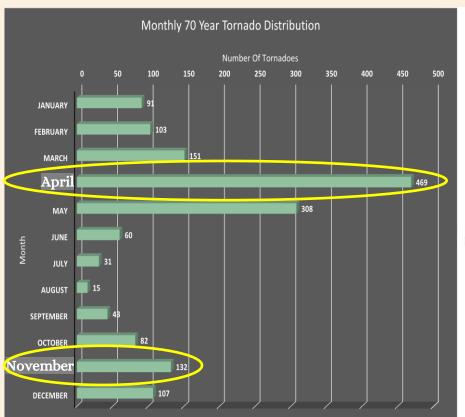
\*Tornadoes or Funnel Clouds\*

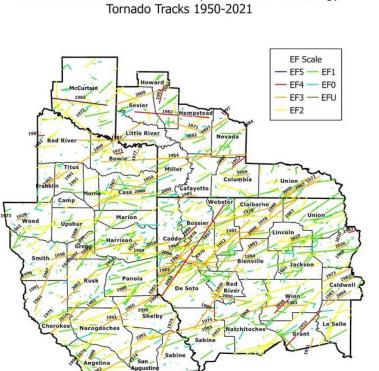
### TAKE SHELTER INSIDE STURDY BUILDING IMMEDIATELY!

TORNADO WARNINGS are issued for Tornadoes and Funnel Clouds
SEVERE THUNDERSTORM WARNINGS are issued for Winds and/or Hail



# Tornadoes Can Happen Anytime/Anywhere





National Weather Service Shreveport Tornado Climatology



### **Know Where To Go**

# TORNADO SAFETY FOR EMPLOYERS



Label Shelter Locations: Use small interior rooms or hallways on the lowest level (away from windows, doors).



Ensure Accountability: Develop an emergency response plan and checklists to assign roles and account for everyone onsite.



Have Disaster Supplies: Keep first aid kits, food, water, and more in all shelters.



Train Staff: Ensure everyone knows what to do during emergencies. Regularly practice sheltering exercises.



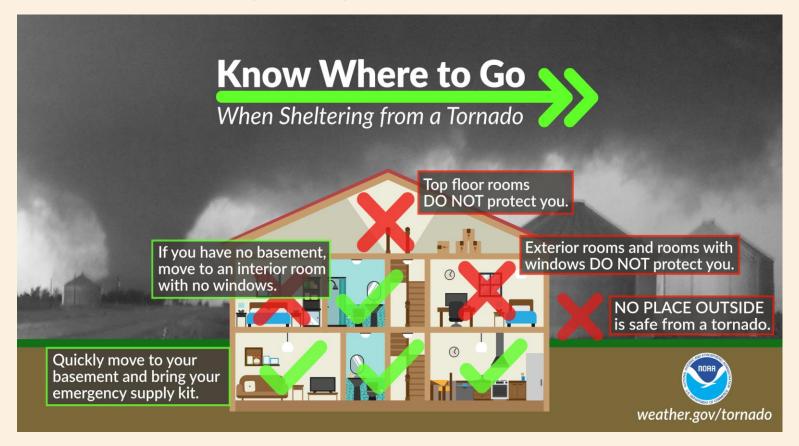
weather.gov osha.gov/tornado







### LOW...CENTER...HEAD





### **Bank Vaults Saves Lives**



Fourteen Tinker Federal Credit Union workers in Moore, Oklahoma hid in the vault with eight customers (May 2013)



### When Thunder Roars, Go Indoors!



### Lightning Is Deadly

- Lightning is one of the top three storm-related killers in the US and can strike as far as 10 miles away from a storm
- ➤ **STOP** all outdoor activities
- Seek shelter in a substantial building (not a tent or open air building) or a hard-topped vehicle
- ➤ Wait 30 minutes after the storm to resume activities, if no other storms are in the area



### Turn Around Don't Drown!



### **FLOOD SAFTETY TIPS**

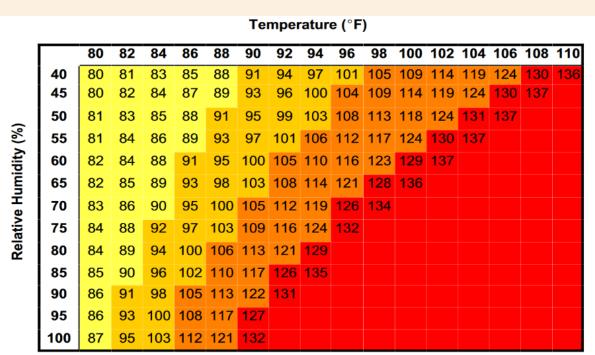
- ➤ Flash Flooding is the #1 weather-related killer in the US. GET TO HIGHER GROUND!
- ➤ <u>DON'T DRIVE INTO WATER.</u> Nearly half of all deaths occur with people in motor vehicles.
- SIX inches of flowing water can knock a person off their feet and <u>TWO</u> feet of water can float any vehicle.
- Be really careful, especially at night, and avoid flood prone areas. <u>DON'T DRIVE</u> <u>AROUND BARRICADES!</u>



# Heat Preparedness



### What is the Heat Index?





The <u>Heat Index</u>, also known as the apparent temperature, is what the temperature feels like to the human body when relative humidity is combined with the air temperature.



# Excessive Heat Warning/Heat Advisory





# Stay Heat Safe This Summer



SPEND SOME TIME IN AIR CONDITIONING



# Heat Illness Signs

### **Heat Exhaustion**

### **Heat Stroke**

### **ACT FAST**

- Move to a cooler area
- Loosen clothing
- Sip cool water
- Seek medical help if symptoms don't improve

**Dizziness** 

**Thirst** 

Heavy Sweating

Nausea

Weakness



**Dizziness** 

Becomes Unconscious

### **ACT FAST**

### **CALL 911**

- Move person to a cooler area
- Loosen clothing and remove extra layers
- Cool with water or ice

Heat exhaustion can lead to heat stroke.

**Heat stroke** can cause death or permanent disability if emergency treatment is not given.













# Hurricane Preparedness

2024 Hurricane Season



# A Look Back at 2023

### 4th Most active season on record

Behind only 2020 (30 named storms), 2005 (28), 2021 (21), Tied with 1933 (20)

### 20 Named storms

Average is 14. Exhausted the list of names for the second year in a row

### 7 Hurricanes & 3 Major Hurricanes

Average is 7 and 3

### 3 US landfalls

Including 1 Major Hurricane (Idalia-Cat.3) in Florida, and 2 Tropical Storms (Harold and Ophelia) in South Texas and North Carolina respectively. No storms impacted Louisiana.



### 2024 Atlantic Hurricane Names

| Alberto | Helene | Oscar |
|---------|--------|-------|
| Alberto | пенене | USCa  |

Beryl Isaac Patty

Chris Joyce Rafael

Debby Kirk Sara

Ernesto Leslie Tony

Francine Milton Valerie

Gordon Nadine William



# No official CPC forecast until May

- → We are in a El Nina with "likely chance" (83%) to transition to ENSO Neutral between April and June.
  - ♦ 2020 and 2021 were strong La Nina, 2005 was Neutral, and 2023 was and El Nino season
- → 62% chance La Nina develop from June through August
- → "Could" mean a more storms, but remember, no matter the ENSO forecast.....



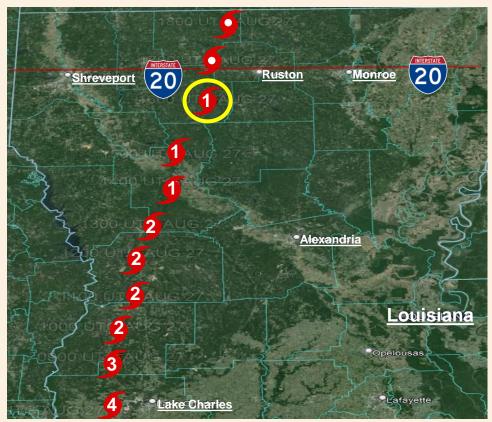
It only takes one



storm to make it a bad season!



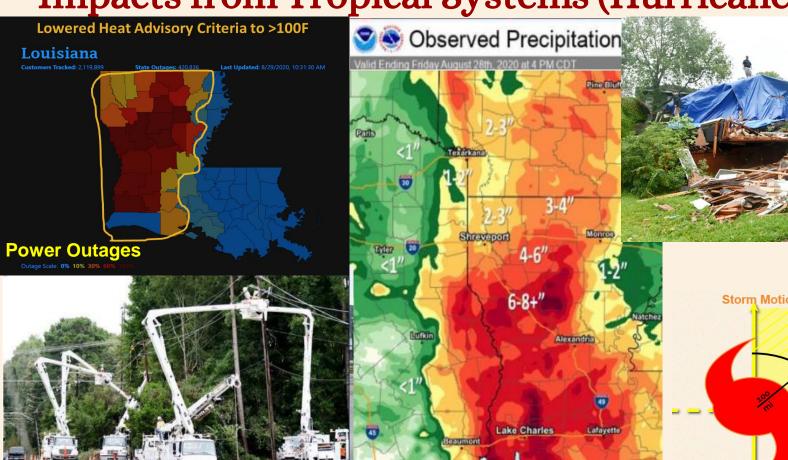
### Do Tropical Systems Impact North Louisiana?

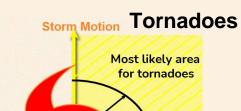


Path of Hurricane Laura (2020) across the state of Louisiana

- Short Answer....YES
- Since 2000, several tropical cylones have moved across Northern Louisiana
  - <u>2002-Lili</u> (as a Tropical Storm)
  - <u>2004-Matthew</u> (as a Tropical Depression)
  - <u>2005-Rita</u> (as a Tropical Storm)
  - <u>2007-Humberto</u> (as a Tropical Depression)
  - <u>2008-Gustav</u> (as a Tropical Depression)
  - <u>2012-Issac</u> (as a Tropical Depression)
  - <u>2017-Cindy & Harvey</u> (as a Tropical Depressions)
  - <u>2019-Barry</u> (as a Tropical Storm)
  - <u>2020-Cristobal, Laura, Delta</u> (Laura was still a hurricane as it reached Interstate 20 corridor)

Impacts from Tropical Systems (Hurricane Laura)







### Hurricane Preparedness

# **ASSEMBLE DISASTER SUPPLIES**



Make a list of supplies and assemble them before hurricane season begins. Have enough food and water for each person for at least three days. Fill your prescriptions and have medicine on hand. Radios, batteries and phone chargers are also must-haves. Gas up your vehicle and have cash on hand.



Food & water



Medicine & prescriptions



Keep gas tank full



Radio, batteries, phone chargers



Cash on hand



Outdoor Generator



# Winter Weather Preparedness



# Winter Weather Warnings/Advisories

### WATCH

Winter Storm

≥ 50% chance of Winter WX

### **ADVISORY**

Winter Weather Wind Chill

### WARNING

Blizzard Ice Storm Winter Storm Wind Chill

### NO HEADLINE

**Below Criteria** 

### Freeze/Hard Freeze Warnings

<u>Freeze Warning:</u> Issued when temperatures are expected to fall at or below <u>32°F</u> for first time during cold season. May be issued in late Winter/Early Spring after a long period of unusually warm weather

<u>Hard Freeze Warning:</u> Issued when temperatures fall below 19°F during anytime of the cold season

### CRITERIA BLIZZARD WARNING

Winds ≥ 35 mph, Falling or Blowing snow w/visibility of ¼ mile or less for 3 hours or more

#### **ICE STORM WARNING**

≥ ¼" of freezing drizzle/freezing rain accumulations

### WINTER STORM WARNING

≥ 2" snow or ≥0.50" sleet for any duration. The snow and sleet may occur in combination and with freezing rain/freezing drizzle accumulations. If freezing rain occurs alone, an Ice Storm Warning should be considered.

Forecaster discretion (Impacts)

### WINTER WEATHER ADVISORY

< 1-2" or snow, < 0.50" sleet, or < 0.25" freezing rain/freezing drizzle Forecaster discretion (Impacts)

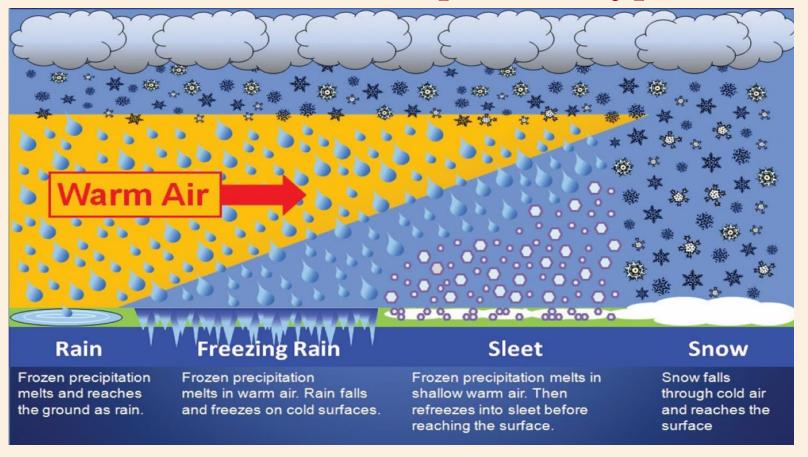
#### WIND CHILL

<u>Advisory:</u> wind chill of +9 to -14 degrees with a sustained wind ≥ 10 MPH for 2 hours or more

Warning: wind chill of -15degrees or lower with a sustained wind ≥ 10 mph for any length of time



# Winter Weather Precipitation Types





# Winter Weather Preparedness





## Winter Driving Tips

# ICE & SNOW, TAKE IT SLOW

Each year in the U.S., there are over 1,000 deaths and 100,000 injuries due to vehicle crashes during winter weather.





Clean off your vehicle before driving. Flying snow from cars causes accidents.



Keep it slow, and don't use cruise control. Roads can be slick even if they just look wet.



Leave extra distance between vehicles.
Stay especially far from snow plows.





### **Power Outage Tips**

# After the Winter Storm: **POWER OUTAGE**



### Be careful with heat sources

Candles and space heaters are a fire risk. Also stay warm by bundling up and keeping doors closed, placing towels in cracks.



### Practice portable generator safety

Use outdoors, at least 20 feet away from doors/windows/garages to avoid carbon monoxide poisoning. Follow instructions on proper use.



### Check on neighbors

Once your family is safe, check on your neighbors and the vulnerable to make sure they are OK.

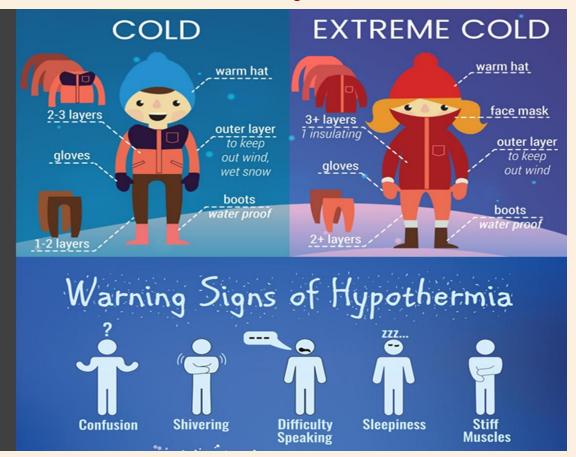




# **Cold Weather Safety**

# COLD WEATHER SAFETY

- Limit time outdoors if at all possible
- Monitor for signs of frostbite & hypothermia
- ✓ Dress in layers
- ✓ Cover exposed skin
- ✓ Keep pets indoors





### Remember the 4 P's

# Protect People, Pets, Pipes, & Plants from cold weather



Minimize time outdoors.

Prepare for power outages.

Check on elderly & other vulnerable people to make sure they're ok.



Keep your pets warm, dry & indoors as much as possible.

Ensure their food & water doesn't freeze.

Limit outside time & keep them bundled up.



Insulate pipes if possible.

Open up sink cabinets to expose pipes to heated air.

Disconnect hoses & turn off water to sprinklers.



Know their temperature thresholds.

If possible, cover them before the cold weather sets in to help retain some heat.





# We Need You to Report...

- Tornadoes, funnel clouds, and wall clouds
- Hail
  - At least ½ inch in diameter
- Damaging winds
  - 50 MPH or greater
- Flooding or heavy rainfall
  - An inch or more per hour
- Anything else YOU feel is important...
  - Winter Precipitation, Lightning Damage, River flooding, Weather impacted road conditions, Dense Fog, etc...
- Stay safe! Your safety is more important than any report!



# How Do I Relay These Reports?

Phone: 1.800.551.8338

Amateur Radio: K5SHV

Local Law Enforcement

- Local Emergency Management
- Internet
  - https://weather.gov/shv
  - https://www.weather.gov/shv/submitLSR?site=shv
  - Spotternetwork.org



### **Have Pictures?**









## Thank You! Questions?

### **NWS Shreveport**

5655 Hollywood Ave. Shreveport, LA 71109

Phone: (318) 631-3669/1-800 -551-8338

Email: sr-shv.skywarn@noaa.gov



NWSShreveport



@NWSShreveport



You Tube NWSShreveport



https://weather.gov/shv



