

A night cityscape with several tall buildings illuminated. A large, bright lightning bolt strikes a building on the left side of the frame. The sky is dark with other smaller lightning bolts visible. The title "STORM SAFETY" is overlaid in large white letters.

# STORM SAFETY

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# STORM SAFETY

## Topics

WWW Records

Thunderstorms

Lightning

Hail

State of Oklahoma

Floods

Tornadoes

# WWW Records

Highest Temperature: 136°F in El Azizia, Libya, September 13, 1922

Lowest Temperature: -129°F in Vostok, Antarctica on July 21, 1983

Most Abrupt Temp. Change: -4°F to 45°F in 2 minutes, Spearfish SD, August 29, 1936

Greatest 24-Hr Temp. Change: -56°F to 44°F in Browning, MT, January 23-24, 1916

Highest 24-Hr Avg. Wind Speed: 129 mph, Mt. Washington, NH, on April 11-12, 1934

Greatest Annual Rainfall: 1,042 in. Cherrapunji, India, August 1, 1860 - July 31, 1861

Lowest Annual Rainfall: 0.03 inches (unknown date) in Arica, Chile

24-Hour Rainfall: 43 inches on (unknown date), Alvin, Texas

# THUNDERSTORMS

Single-Cell

Multicell

Squall Line

Supercell

# Single-Cell

“Air-mass” thunderstorm

Threat of severity is small

Also known as “pulse” storms

Each individual cell lasts about 30-60 minutes

# Multicell

Series of evolving cells  
Strong winds, hail, rain

# Squall Line

Continuous updrafts on the storm front

**MULTICELL LINE STORMS  
(Squall Lines)**

# Supercell

Most powerful and destructive  
High winds and tornadic activity possible  
Frequently carry hail

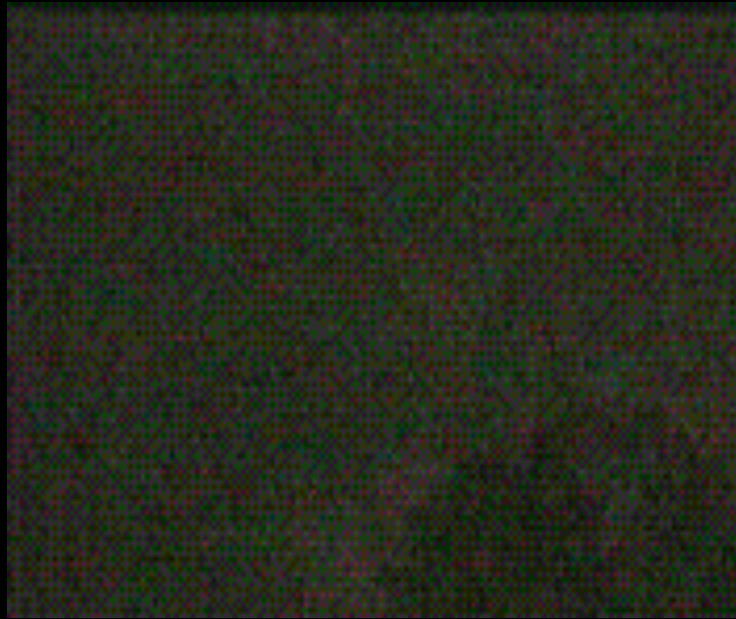




# Lightning !

What are the odds ?

# Anvil Lightning



# Ground-to-Cloud



# Ball Lightning



# Lightning Safety



© Charles Doswell



# General Lightning Safety Rules

## When Inside:

- Avoid using the telephone (except for emergencies) or other electrical appliances.
- Do not take a bath or shower

# General Lightning Safety Rules

## If Caught Outdoors:

- Go to a safe shelter immediately!
- Get out of water immediately
- If you're in a wooded area...
- If you feel your hair standing on end...



# General Lightning Safety Rules

## AVOID:

- Open spaces, isolated trees or other tall objects, bodies of water, sheds, fences, convertibles, tractors and motorcycles.
- Distance yourself from others a minimum of 15-20 ft.

**HAIL!**



# Hail Safety Tips

First, be aware of bad weather. Listen for warnings on tv and radio

- Take cover immediately
- Stay away from windows
- If in a car, pull off the road preferably under a bridge
- Carry a blanket in your car to protect you from shattered windshields

A black and white photograph showing a flooded area. In the foreground, a person is crouching in the water, possibly helping another person who is partially submerged. In the background, a car is partially submerged in the water, and another person is standing nearby. The scene is chaotic and suggests a flood emergency.

# FLOOD !

When Inside:

If Caught Outdoors:

If In a Vehicle:



# **TORNADOES !**

A white pickup truck is driving away on a dirt road in a rural landscape. The road is unpaved and appears to be a dirt or gravel road. The background shows a flat, open field under a clear sky. The truck is in the center of the frame, moving away from the viewer.

**The Fujita Scale**

**Wichita Falls**

**Jarrell**

**2000 Texas Tornado Fatality Information**

**Tornado Safety**

# The Fujita Scale

F0	40-72 mph
F1	73-112 mph
F2	113-157 mph
F3	158-206 mph
F4	207-260 mph
F5	261-318 mph
F?	

# Wichita Falls Tornado



Wichita Falls, Texas -6 PM -April 10, 1979

These three joined together to form one  
giant tornado.

44 killed, hundreds injured,  
20,000 homeless

200-300 millions of dollars in damage



# Jarrell, Texas Tornado

May 27, 1997



# '00 Killer Tornadoes

**Mar 28** 06:22 PM Ft. Worth TX 2 F2 0128

Tornado in downtown Ft. Worth. Deaths outdoors due to fallen wall and fallen trailer.

**May 12** 04:30 PM Walling TX 1 F3 0276

Preliminary Info...fatality in Walling Bend near Bosque/Hill County Line.

# TORNADO SAFETY

In Homes or Small Buildings:

In Schools, Hospitals, Factories, or  
shopping Centers:

In High-Rise Buildings:

In Cars or Mobile Homes:

If No Suitable Structure is Nearby:

A vibrant rainbow arches across a dark, stormy sky, its colors transitioning from red on the left to violet on the right. The rainbow's base is visible on the horizon, where a dark line of trees and a small building are silhouetted against the lighter sky. Below the horizon, a field of tall grass, some green and some yellowed, stretches across the foreground. The overall mood is dramatic and serene.

**Final thoughts...**