

Lake County Preparedness 101

Friends of Twin Lakes



12 September 2022



Purpose and Intent



- Purpose—To provide basic preparedness information to the FoTL community
- Intent—Promote and enhance preparedness and resilience for the individual, families and communities in the southern part of Lake County

To save lives and protect our community—through whole community preparation







- Introductions
- Context for disaster and emergency discussion
- Personal preparedness
- Questions







- FEMA @ Ready.gov 72 hours
- Recent disasters
- The unexpected event
- Personal resilience
- Community resilience
- Take advantage of Blue-Sky time





Background and Context



All Hazards

Natural Hazards

Man made/ adversarial

Technological





Page 5

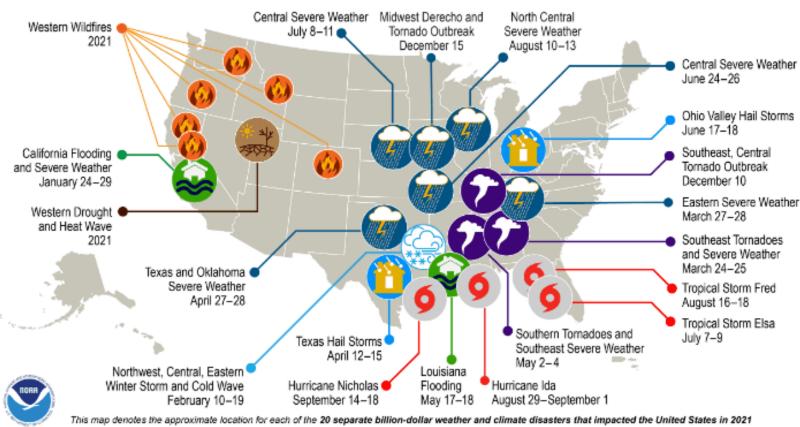


National 2021



Natural Disasters

U.S. 2021 Billion-Dollar Weather and Climate Disasters



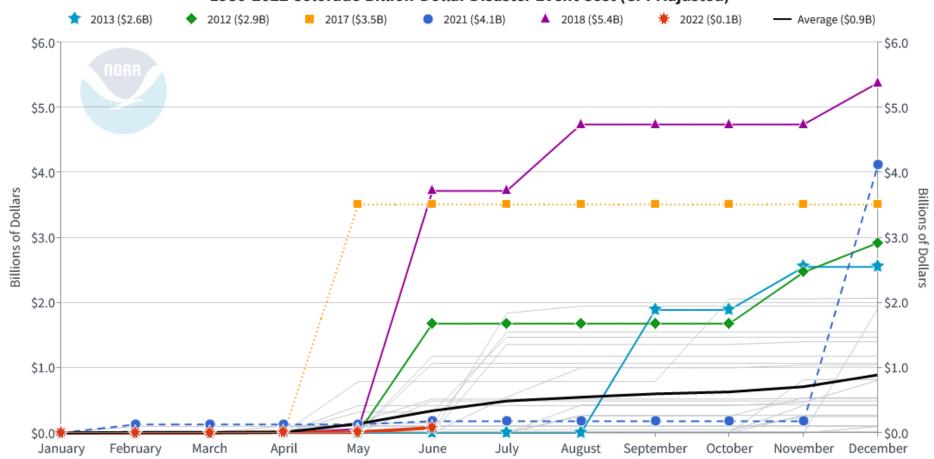
Source: NOAA National Centers for Environmental Information (NCEI) U.S. Billion-Dollar Weather and Climate Disasters (2022). https://www.ncei.noaa.gov/access/billions/





Colorado 2022

1980-2022 Colorado Billion-Dollar Disaster Event Cost (CPI-Adjusted)



Updated: July 11, 2022

*Costs not included for Western/Southern Plains Drought (2022)

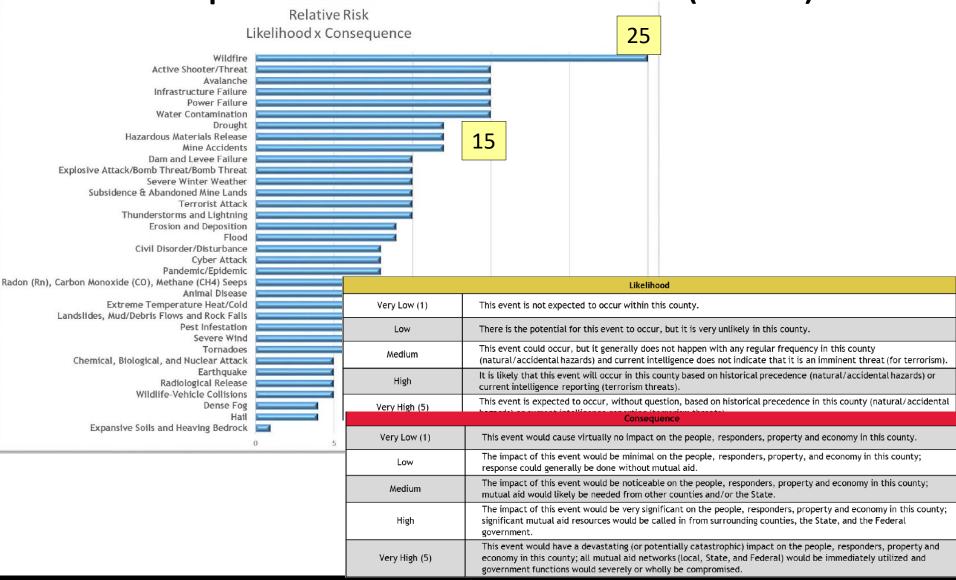
Event statistics are added according to the date on which they ended.

Powered by ZingChart



2020 Colorado Emergency Preparedness Assessment (CEPA)

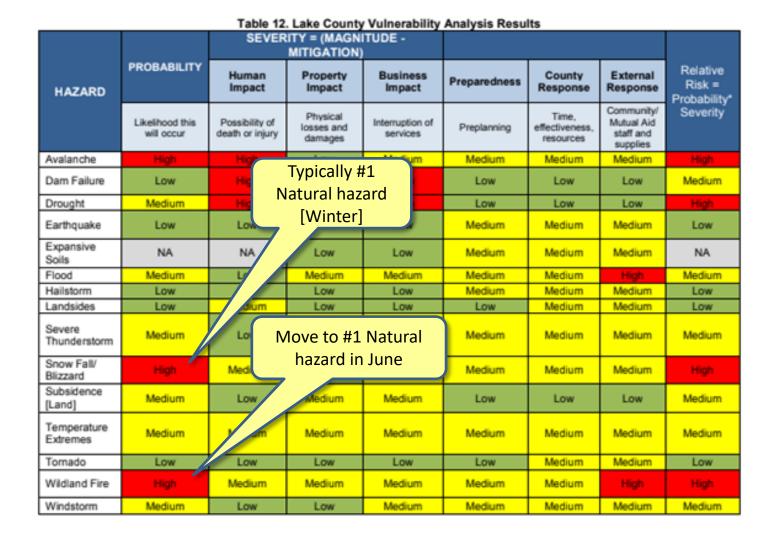






2019 Hazard Vulnerability Analysis





Public Health



2019 Hazard Vulnerability Analysis

Technological Hazards

HAZARD AND VULNERABILITY ASSESSMENT TOOL TECHNOLOGIC EVENTS- (Lake County)

	PROBABILITY							
EVENT		HUMAN IMPACT	PROPERTY IMPACT	BUSINESS IMPACT	PREPARED- NESS	INTERNAL RESPONSE	EXTERNAL RESPONSE	RISK
	Likelihood this will occur	Possibility of death or injury	Physical losses and damages	Interruption of services	Preplanning	Time, effectiveness, resources	Community/ Mutual Aid staff and supplies	Relative threat*
SCORE	0 = N/A 1 = Low 2 = Moderate 3 = High	0 = N/A 1 = Low 2 = Moderate 3 = High	0 = N/A 1 = Low 2 = Moderate 3 = High	0 = N/A 1 = Low 2 = Moderate 3 = High	0 = N/A 1 = High 2 = Moderate 3 = Low or none	0 = N/A 1 = High 2 = Moderate 3 = Low or none	0 = N/A 1 = High 2 = Moderate 3 = Low or none	0 - 100%
Electrical Failure	2	2	1	3	1	1	1	33%
Abandoned Mines	1	1	1	1	1	1	1	11%
Dam Failure	1	3	3	3	2	2	2	28%
Epidemic	1	1				2	13%	
Fire, Structural	1	2	3	#1 Techno	logical haza	rd 1	1	19%
Hazardous material	1	2	2	2	1	1	3	20%
Pipeline Failure	1	0	1	3	2	2	3	20%
Transportation Failure	1	1	1	3	2	3	2	22%
AVERAGE SCORE	0.47	0.63	0.68	0.95	0.58	0.63	0.79	24%

^{*}Threat increases with percentage.

RISK = PROBABILITY * SEVERITY 0.24 0.38 0.64



2019 Hazard Vulnerability Analysis

Human Caused Hazards

HAZARD AND VULNERABILITY ASSESSMENT TOOL HUMAN RELATED EVENTS - (Lake County)

	PROBABILITY							
EVENT		HUMAN IMPACT	PROPERTY IMPACT	BUSINESS IMPACT	PREPARED- NESS	INTERNAL RESPONSE	EXTERNAL RESPONSE	RISK
	Likelihood this will occur	Possibility of death or injury	Physical losses and damages	Interruption of services	Preplanning	Time, effectiveness, resources	Community/ Mutual Aid staff and supplies	Relative threat*
SCORE	0 = N/A 1 = Low 2 = Moderate 3 = High	0 = N/A 1 = Low 2 = Moderate 3 = High	0 = N/A 1 = Low 2 = Moderate 3 = High	0 = N/A 1 = Low 2 = Moderate 3 = High	0 = N/A 1 = High 2 = Moderate 3 = Low or none	0 = N/A 1 = High 2 = Moderate 3 = Low or none	0 = N/A 1 = High 2 = Moderate 3 = Low or none	0 - 100%
Mass Casualty Incident (Airplane Crash)	1	2	1	2	2	2	2	20%
Civil Disturbance	1	2	2	2	1	1	1	17%
Mass Casualty Incident (Multi-car pile-up)	1	2	1	2	2	2	2	20%
Terrorism, Biological	1	3	1	3	2	2	2	24%
Terrorism, Chemical	1	2	2	2	3	3	1	24%
Terrorism, Explosive	1	2	2	3	2	2	1	22%
Terrorism, Radiological	1	2	2	2	1	1	1	17%
AVERAGE	0.70	1.50	1.10	1.60	1.30	1.30	1.00	21%

^{*}Threat increases with percentage.

RISK = PROBABILITY * SEVERITY 0.21 0.33 0.62

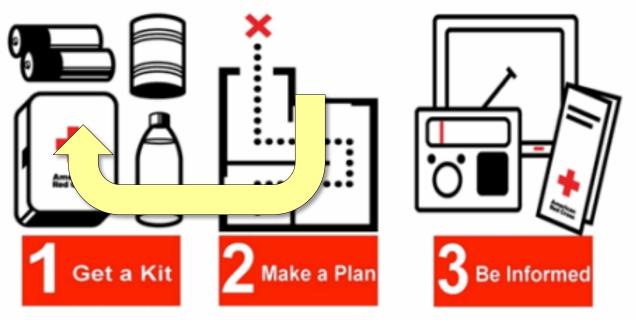
Situational Awareness->



Capabilities->Plans and filling gaps->
Training->Exercise->Evaluate\Adjust

Be Red Cross Ready

Get a Kit. Make a Plan. Be Informed.





Capabilities Assessment



Individual

- Knowledge, skills and training state
- Equipment
 - Shelter in-place
 - Evacuation
 - VHF radios

Community

- Neighborhood network
- Community training
- Volunteering with American Red Cross, Lake County
 Office of Emergency Management, Public Health,
 Community Emergency Response Team (CERT)



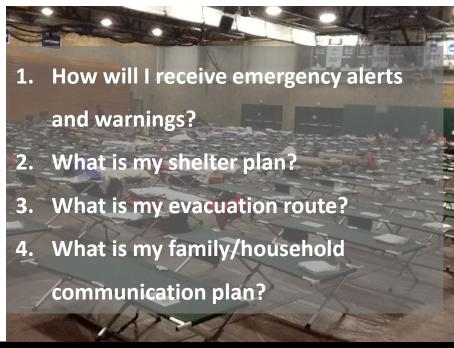
Plans to Consider



- Location based
 - Home
 - Work
 - School
- Escape routes
 - Where to meet locally
 - Neighborhood, friends, community location
 - Where to meet out of Lake County
- Family communications
 - See <u>ready.gov/make-a-plan</u>
 - Out of state
 - Texts
- Utility shut-off and safety
- Insurance and vital records
- Special needs
- Caring for animals

American Red Cross Shelter Locations:

- Lake County High School
- Colorado Mountain College
- Lake County Middle School







Build a Kit

Emergency Supplies:

Water, food, and clean air are important things to have if an emergency happens. Each family or individual's kit should be customized to meet specific needs, such as *medications and infant formula*. It should also be customized to include important family documents.

Recommended Supplies to Include in a Basic Kit:

- Water, one gallon of water per person per day, for drinking and sanitation
- Food, at least a three-day supply of non-perishable food
- Battery-powered radio and a NOAA Weather Radio with tone alert, and extra batteries for both
- Flashlight and extra batteries [recommend 1 head lamp]
- First Aid kit
- Whistle to signal for help
- Infant formula and diapers, if you have an infant
- Moist towelettes, garbage bags and plastic ties for personal sanitation
- Dust mask or cotton t-shirt, to help filter the air
- Plastic sheeting and duct tape to shelter-in-place
- Wrench or pliers to turn off utilities
- Can opener for food (if kit contains canned food)

Printable lists for kits: https://www.ready.gov/kit



Family Supply List (continued)



Clothing and Bedding:

If you live in a cold weather climate, you must think about warmth. It is possible that the power will be out and you will not have heat. Rethink your clothing and bedding supplies to account for growing children and other family changes. One complete change of warm clothing and shoes per person, including:

- A jacket or coat
- Long pants
- A long sleeve shirt
- Sturdy shoes
- A hat and gloves
- A sleeping bag or warm blanket for each person



Family Supply List (continued)



Below are some other items for your family to *consider* adding to its supply kit. Some of these items, especially those marked with a * can be dangerous, so please have an adult collect these supplies.

- Emergency reference materials such as a first aid book or a printout of the information on

www.ready.gov

- Rain gear
- Mess kits, paper cups, plates and plastic utensils
- Cash or traveler's checks, change
- Paper towels
- Fire Extinguisher
- Tent
- Compass
- Matches in a waterproof container*
- Signal flare*
- Paper, pencil
- Personal hygiene items including feminine supplies
- Disinfectant*
- Household chlorine bleach* You can use bleach as a disinfectant (diluted nine parts water to one part bleach), or in an emergency you can also use it to treat water. Use 16 drops of regular household liquid bleach per gallon of water. Do not use scented, color safe or bleaches with added cleaners.
- Medicine dropper
- Important Family Documents such as copies of insurance policies, identification and bank account records in a waterproof, portable container



Train\ Practice your Plans



- Practice your plan with your family/ household
- House evacuation
- Communication
- Update your plan



Reduce hazards through mitigation actions



Questions



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