



# Lake County Multi-Jurisdictional Hazard Mitigation Plan Update

## Planning Committee Meeting #3

*March 23, 2022*



# Welcome, Introductions, and Opening Remarks

# Agenda

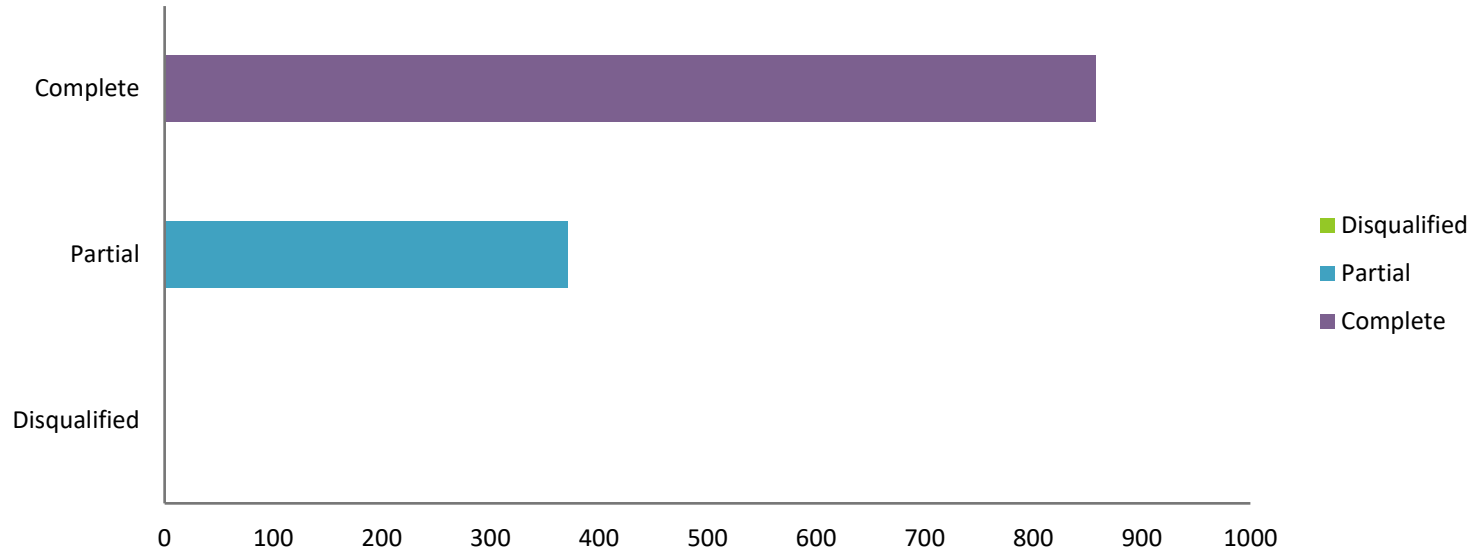


- Introductions
- Community Survey Initial Results
- Planning Committee Survey Results/Hazard Rankings
- Mitigation Strategy
- Next Steps

# Community Survey Findings



## Response Statistics

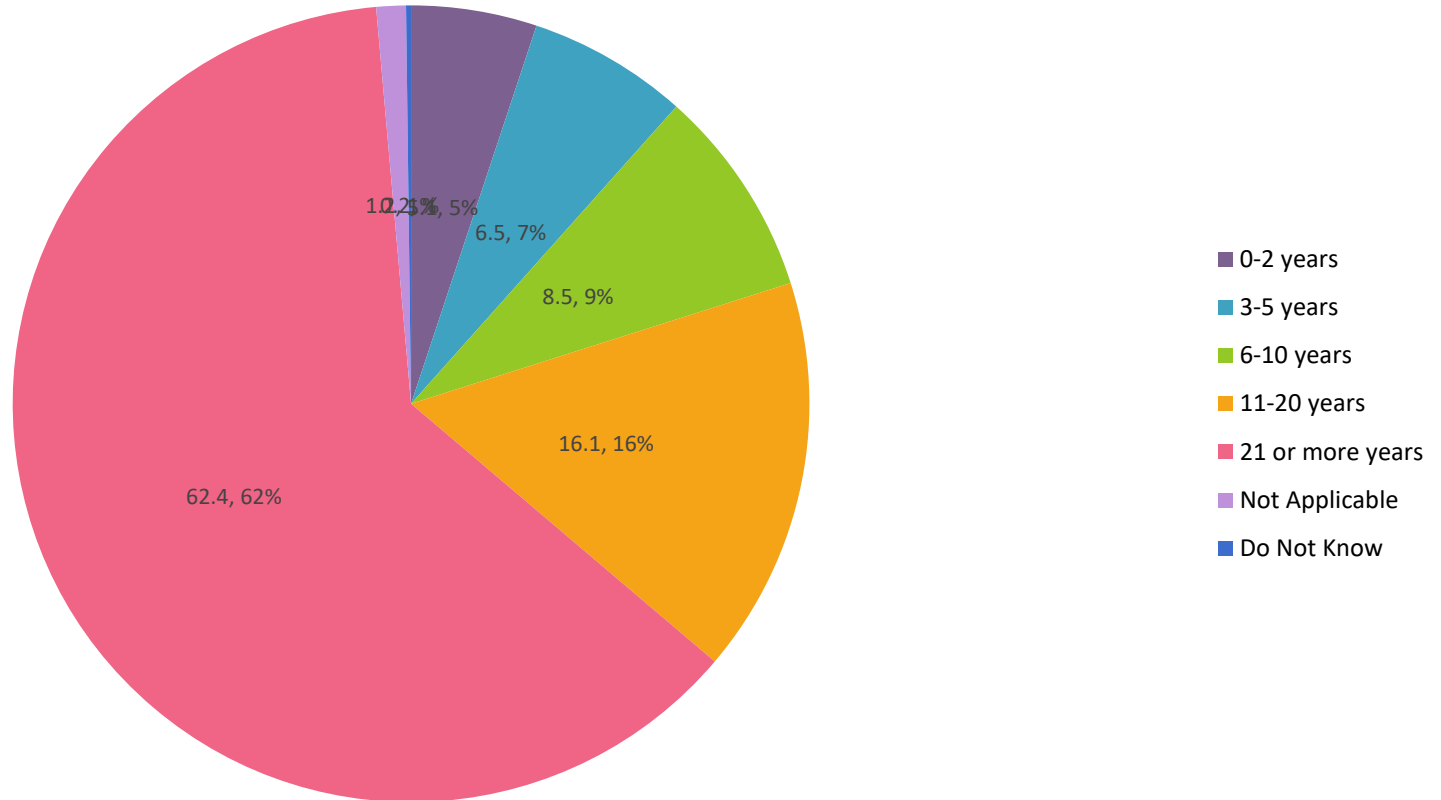


	Count	Percent
Complete	858	69.8
Partial	371	30.2
Disqualified	0	0
Total	1,229	

# Community Survey Findings



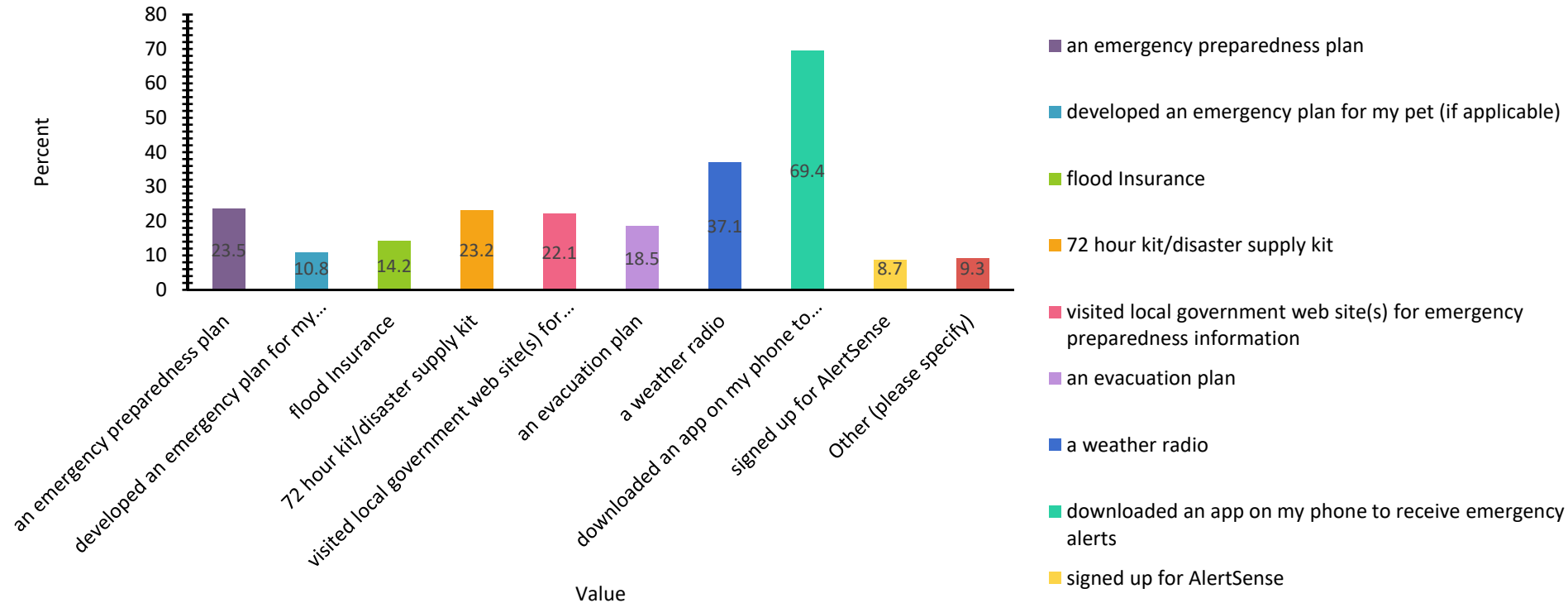
Approximately how many years have you lived or worked (if you are not a resident) in Lake County, Illinois?



# Community Survey Findings



Please indicate those activities you have done to prepare for emergencies and disasters.  
Please select ALL that apply. I have...



# Community Survey Findings

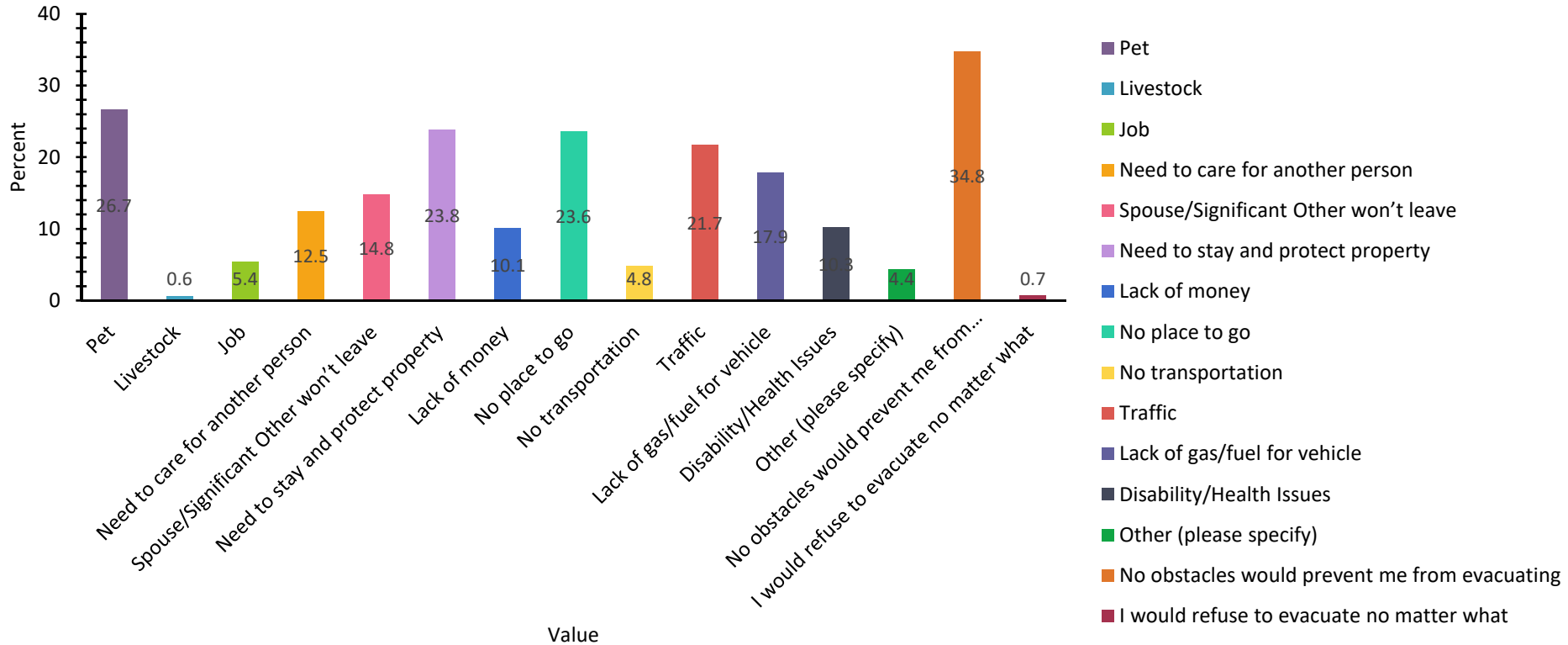


Do you believe that your household and/or place of business might ever be threatened by the following hazards? Please rate what hazards present the greatest risk. Low Risk = Low impact on threat to life and property damage Medium Risk = Medium impact on threat to life and property ...

	Low Risk	Medium Risk	High Risk	Not Applicable	Responses
	Row %	Row %	Row %	Row %	Count
Severe Winter Storm	16.7%	46.0%	37.1%	0.2%	855
Tornado	22.9%	46.1%	30.7%	0.4%	853
Severe Summer Storm	10.1%	46.3%	43.2%	0.5%	854
Extreme Heat	31.4%	46.3%	22.0%	0.4%	851
Flood	49.1%	31.8%	18.4%	0.7%	849
Drought	43.1%	39.3%	15.9%	1.7%	847
Groundwater flooding	38.8%	38.7%	21.3%	1.2%	850
Earthquake	77.1%	13.1%	4.8%	5.1%	842
Erosion	67.5%	18.4%	7.0%	7.1%	843
Dam Failure	67.1%	5.8%	3.3%	23.7%	843
Seiche (wind driven standing wave)	62.0%	6.8%	2.6%	28.6%	837
Wildfire	66.4%	19.3%	6.0%	8.2%	843
Power Outages	12.5%	43.5%	43.8%	0.2%	851



What might prevent you from leaving your place of residence if there was an evacuation order? Please select ALL that apply.







## 2017 Priority Hazards:

- Severe Winter Storm
- Tornado
- Severe Summer Storm
- Extreme Heat
- Flood
- Drought
- Groundwater
- Earthquake
- Erosion
- Dam Failure
- Seiche
- Power Outages

# Planning Committee Hazard Ranking Survey Findings



Please indicate where you would rank the Hazards based on **Impacts** to your jurisdiction. If additional natural hazards that present a risk to your jurisdiction are not included in the list, please identify the hazard/s in the other/write in options.

	Very Low Risk		Low Risk		Moderate Risk		High Risk		Not Applicable		Responses Count
	Count	Row %	Count	Row %	Count	Row %	Count	Row %	Count	Row %	
Severe Winter Storm	0	%	5	9.3%	32	59.3%	16	29.6%	1	1.9%	54
Tornado	5	9.3%	3	5.6%	13	24.1%	32	59.3%	1	1.9%	54
Severe Summer Storm	0	%	6	11.1%	29	53.7%	18	33.3%	1	1.9%	54
Extreme Heat	5	9.4%	24	45.3%	17	32.1%	6	11.3%	1	1.9%	53
Flood	2	3.7%	6	11.1%	22	40.7%	23	42.6%	1	1.9%	54
Drought	18	33.3%	20	37.0%	13	24.1%	2	3.7%	1	1.9%	54
Groundwater flooding	5	9.3%	21	38.9%	17	31.5%	8	14.8%	3	5.6%	54
Earthquake	23	42.6%	14	25.9%	7	13.0%	8	14.8%	2	3.7%	54
Erosion	15	27.8%	22	40.7%	9	16.7%	7	13.0%	1	1.9%	54
Dam Failure	22	40.7%	15	27.8%	5	9.3%	3	5.6%	9	16.7%	54
Seiche (wind driven standing wave)	29	53.7%	11	20.4%	2	3.7%	1	1.9%	11	20.4%	54
Power Outages	1	1.9%	17	31.5%	20	37.0%	14	25.9%	2	3.7%	54

# Planning Committee Hazard Ranking Survey Findings



Please indicate where you would rank the Hazards based on Frequency of Hazard Occurrence to your jurisdiction. If additional natural hazards that present a risk to your jurisdiction are not included in the list, please identify the hazard/s in the other/write in options.

	Very Low		Low		Moderate		High		Very High		Responses Count
	Count	Row %	Count	Row %	Count	Row %	Count	Row %	Count	Row %	
Severe Winter Storm	1	1.9%	0	%	22	40.7%	22	40.7%	9	16.7%	54
Tornado	11	20.4%	17	31.5%	24	44.4%	2	3.7%	0	%	54
Severe Summer Storm	1	1.9%	2	3.7%	15	27.8%	28	51.9%	8	14.8%	54
Extreme Heat	2	3.7%	8	14.8%	25	46.3%	17	31.5%	2	3.7%	54
Flood	1	1.9%	5	9.3%	21	38.9%	20	37.0%	7	13.0%	54
Drought	3	5.6%	23	42.6%	19	35.2%	9	16.7%	0	%	54
Groundwater flooding	9	16.7%	15	27.8%	19	35.2%	6	11.1%	5	9.3%	54
Earthquake	44	81.5%	8	14.8%	1	1.9%	0	%	1	1.9%	54
Erosion	13	24.1%	18	33.3%	12	22.2%	6	11.1%	5	9.3%	54
Dam Failure	33	61.1%	17	31.5%	3	5.6%	0	%	1	1.9%	54
Seiche (wind driven standing wave)	39	72.2%	7	13.0%	3	5.6%	4	7.4%	1	1.9%	54
Power Outages	1	1.9%	7	13.0%	16	29.6%	17	31.5%	13	24.1%	54

# Planning Committee Hazard Ranking Survey Findings



Please identify areas of **vulnerability** within your jurisdiction to each of the Natural Hazards listed.

	Very Low		Low		Moderate		High		Very High		Responses Count
	Count	Row %	Count	Row %	Count	Row %	Count	Row %	Count	Row %	
Severe Winter Storm	1	1.9%	2	3.8%	15	28.3%	7	13.2%	28	52.8%	53
Tornado	2	3.7%	3	5.6%	13	24.1%	15	27.8%	21	38.9%	54
Severe Summer Storm	1	1.9%	3	5.6%	14	25.9%	12	22.2%	24	44.4%	54
Extreme Heat	2	3.8%	3	5.7%	16	30.2%	11	20.8%	21	39.6%	53
Flood	3	5.6%	10	18.5%	26	48.1%	12	22.2%	3	5.6%	54
Drought	15	27.8%	8	14.8%	12	22.2%	5	9.3%	14	25.9%	54
Groundwater flooding	17	31.5%	6	11.1%	24	44.4%	6	11.1%	1	1.9%	54
Earthquake	23	42.6%	4	7.4%	6	11.1%	4	7.4%	17	31.5%	54
Erosion	19	35.2%	11	20.4%	22	40.7%	2	3.7%	0	%	54
Dam Failure	36	66.7%	9	16.7%	7	13.0%	1	1.9%	1	1.9%	54
Seiche (wind driven standing wave)	43	79.6%	5	9.3%	5	9.3%	1	1.9%	0	%	54
Power Outages	4	7.4%	3	5.6%	15	27.8%	15	27.8%	17	31.5%	54

# Planning Committee Hazard Ranking Survey Findings

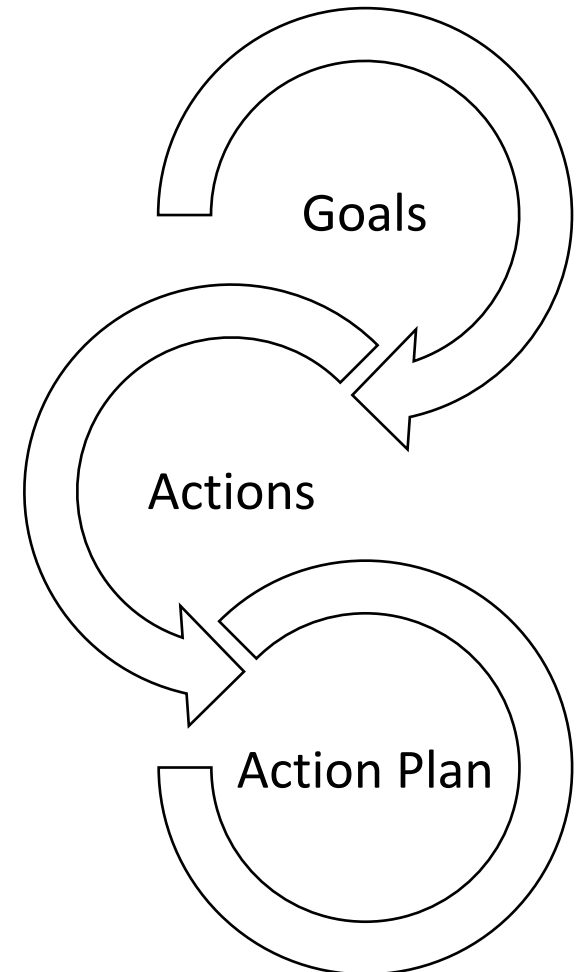


Based on YOUR PERCEPTION of your jurisdiction's hazards, to what degree of emphasis would you expect your jurisdiction to mitigate the following hazards?

	No Mitigation Needed		Low Priority		Medium Priority		High Priority		Responses
	Count	Row %	Count	Row %	Count	Row %	Count	Row %	Count
Severe Winter Storm	9	17.3%	9	17.3%	15	28.8%	19	36.5%	52
Tornado	11	21.2%	13	25.0%	14	26.9%	14	26.9%	52
Severe Summer Storm	6	11.8%	12	23.5%	15	29.4%	18	35.3%	51
Extreme Heat	9	17.3%	22	42.3%	16	30.8%	5	9.6%	52
Flood	3	5.7%	1	1.9%	24	45.3%	25	47.2%	53
Drought	22	42.3%	21	40.4%	7	13.5%	2	3.8%	52
Groundwater	17	32.7%	15	28.8%	13	25.0%	7	13.5%	52
Earthquake	26	51.0%	10	19.6%	8	15.7%	7	13.7%	51
Erosion	13	24.5%	23	43.4%	10	18.9%	7	13.2%	53
Dam Failure	26	50.0%	16	30.8%	5	9.6%	5	9.6%	52
Seiche (wind driven standing wave)	39	75.0%	10	19.2%	3	5.8%	0	%	52
Power Outages	4	7.5%	9	17.0%	22	41.5%	18	34.0%	53



- **Goals:** What long-term outcomes do you want to achieve?
- **Actions:** What specific actions will you take to reduce risk to hazards?
- **Action Plan:** How will the actions be prioritized and implemented?





## ***2017 Mitigation Goals***

- Goal 1:** Protect the lives, health, and safety of the people of Lake County from the impact and effects of natural hazards.
- Goal 2:** Protect public services, utilities and critical facilities from potential damage from natural hazard events.
- Goal 3:** Mitigate existing buildings to protect against damage from natural hazard events.
- Goal 4:** Ensure that new developments do not create new exposures of people and property to damage from natural hazards.
- Goal 5:** Mitigate to protect against economic and transportation losses due to natural hazards.



- **What actions have been completed or are ongoing?**
- **What actions should be removed from the 2022 plan?**
- **What actions need to be revised?**





# Mitigation Strategy Workshops and Public Meeting— Tuesday and Wednesday, April 19-20, 2022

## How to Prepare:

- Bring IDEAS!
- What can be accomplished in the short-term?  
Long-term?
- What is already in your department work plans?
- What projects might you want to get funding for?

# ISC Contact Information



Matt Stanley, Project Manager  
[Matt.Stanley@i-s-consulting.com](mailto:Matt.Stanley@i-s-consulting.com)

Jake Halley, Lead Planner  
[Jacob.Halley@i-s-consulting.com](mailto:Jacob.Halley@i-s-consulting.com)

Cassandra Wolff, GIS Analyst & Planner  
[Cassandra.Wolff@i-s-consulting.com](mailto:Cassandra.Wolff@i-s-consulting.com)

Nia Gumbs, Planner  
[Nia.Gumbs@i-s-consulting.com](mailto:Nia.Gumbs@i-s-consulting.com)





## Questions & Comments?

