

Code	Mitigation Strategy	Status	Funding Source	Priority	Responsible Organization/ Agency	Strategy Proposed by
Flooding, Dam Failure						
F1	<ul style="list-style-type: none"> • Institute a buy-out plan for repetitive loss properties • Regularly perform drainage system maintenance • Culvert replacement • Update urban areas to withstand storm water (rain gardens, bios wales, urban tree planting, permeable pavement) • Outreach/education for homeowners regarding flood insurance options, and home/landscape improvements that can reduce flooding impacts • Raise vulnerable structures on stilts/piles • Conversion of flood prone areas back to wetlands • Review/update EAPs for high potential loss dams and levee districts • Review/update evacuation protocols for high potential loss dams and levee districts. Staying up to date on any severe weather forecast and having evacuation plan in place 	Ongoing	Local; State	Medium	Williamson County EMA; City of Marion EMA	Doug Phillips; City of Marion Superintendent
F2	Buy-Out plan for repetitive loss properties. Purchase repetitive loss properties located in frequent flooding or flood plain areas. Flood prevention supplies. Stockpile sandbags and other equipment to mitigate flooding of school buildings.	Proposed	Local; State	Medium	Williamson County EMA	Jeff Bink and Chad Milburn (regional office of education #21)
F3	In the case of Dam Failure; Prevent buildings being used or built in flood plains or in the proposed damage path of a failed dam. Prevent school construction in low-lying areas. Develop early warning system for schools in potential damage area of failed dam. Early warning system	Proposed	Local; State	Low	Williamson County EMA	Jeff Bink and Chad Milburn (regional office of education #21)

F4	<ul style="list-style-type: none"> • Institute a buy-out plan for repetitive loss properties. Do outreach at schools and teach children how to prepare for flooding. <p>Do community outreach. Sign up people for county alerting program.</p> <ul style="list-style-type: none"> • Regularly perform drainage system maintenance • Culvert replacement • Update urban areas to withstand storm water (rain gardens, bioswales, urban tree planting, permeable pavement) • Outreach/education for homeowners regarding flood insurance options, and home/landscape improvements that can reduce flooding impacts • Raise vulnerable structures on stilts/piles • Conversion of flood prone areas back to wetlands • Review/update EAPs for high potential loss dams and levee districts • Review/update evacuation protocols for high potential loss dams and levee districts 	Ongoing	State;Federal	Medium	Williamson County EMA	Herrin CUSD, Williamson County Government; Kelly Norris, Pat Creek, Amanda Barnes, Ashley Gott, Mike Cerutti, Thom Beebe, Russ Tate, Travis Emery, Robert Owsley, Jim Marlo, Alex Simpson, Jeff Robinson
F5	Reminders needed for flood areas. Make sure senior center has a drainage system in good working order. Encourage insurance for flooding, ensure senior centers in flood zones have appropriate insurance in case of flooding.	Ongoing	State;Federal	Medium	Egyptian Area Agency on Aging & senior centers	Becky Salazar (Executive Director)
F6	Be prepared for evacuation-educate seniors on response. Find out which areas would be affected and educate most vulnerable seniors in those areas via flyers on home-delivered meals. Flyers on home-delivered meals is a good way to get info to homebound seniors.	Proposed	State;Federal	Medium	Egyptian Area Agency on Aging & senior centers	Becky Salazar (Executive Director)
F7	In the case of a flooding event, attempts will be made to remove people and property from flood zones and away from danger. Attempts will be made to try and enforce flood walls. Flood gates, and evacuation routes will be determined.	Proposed	State;Federal	Medium	Williamson County EMA	Noelle Eldridge (Spillertown Village Clerk)
F8	In the event of dam failure; supplies on hand in order to try to make any repairs possible. Have sandbags ready, and volunteers to help lay the sandbags	Proposed	State;Federal	Low	Williamson County EMA	Noelle Eldridge (Spillertown Village Clerk)
F9	Regularly perform drainage system maintenance. Review/update evacuation protocols/map for flooding prone areas of campus.	Ongoing	Local; Private	High	Perry County EMA// ILDNR	Melissa Sprenger (EMA Coordinator)
F10	Promote awareness and educate students and staff through education materials and planning guides. Regularly perform drainage system maintenance.	Proposed	Local	Low	Herrin CUSD Carterville CUSD / Fire Department	Keith Liddell (Superintendent of Carterville CUSD #5) Nathaniel Wilson (Herrin CUSD)

F11	Promote awareness and educate students and staff through education materials and planning guides. Regularly perform drainage system maintenance. Review/update evacuation protocols for high potential loss dams and levee districts.	Proposed	Local	Low	Johnston city School Staff/ Williamson County EMA	Kathy Clark (Superintendent of Johnston City School CUSD #1)
F12	Culvert Replacement, Regular Drainage Maintenance. Hosting programs at schools to teach children how to prepare for flooding events. Community outreach at City Hall.	Ongoing	State; Federal	Medium	Williamson County EMA/ City of Creal Springs	Shannon Edwards (Chief of Police Creal Springs)
F13	Culvert Replacement; Host a program at the school to teach children how to prepare for dam failures. Program at wonder water reunion.	Ongoing	State; Federal	Low	Williamson County EMA/ City of Creal Springs	Shannon Edwards (Chief of Police Creal Springs)
F14	Buy out plan for repetitive loss properties. Outreach education for flood insurance and landscaping options to reduce flooding problems. Evacuation plan for severe floods. Assist other agencies as needed	Ongoing	l,s,f	Low	Energy Fire Dept	Michael Nelson (Energy Asst Fire Chief)
F15	Turn off pumps and valves to water towers. Check for washed out water lines, fix repairs as needed.	Proposed	l,s	Low	Coal Valley Water Dist	Bruce Emery (Coal Valley Water District)
F16	Place sandbags around building during severe floods, keep gutters clear	Ongoing	p	High	Lighthouse, County EMA, City of Marion	Shara Robinson (Lighthouse Shelter)
F17	Seek funding to update building so that it is less prone to flood damage	Proposed	l,s,f,p	High	Lighthouse, County EMA, City of Marion	Shara Robinson (Lighthouse Shelter)

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Tornados, Severe T-Storms						
T1	Promote awareness and educate students, staff, and community through education materials and planning guides. Ensure facilities are equipped with emergency survival and first aid supplies, etc.					Nathaniel Wilson (Herrin CUSD 4)
T2	Retrofit existing buildings with more structural support. Work with architect to design additional support, apply for federal matching grant to purchase. Implement safe rooms.	Ongoing	Local;State;Federal	High	Williamson County EMA	Doug Phillips; City of Marion Superintendent
T3	Improve early warning systems. Coordinate for early warning systems, improve infrastructure for rural areas. Early warning system notifications on buses. Practice Drills. Prepare students and staff for severe weather, create plans and execute drills.	Proposed	Local	High	Williamson County EMA; Weather Broadcasting Stations	Jeff Bink and Chad Milburn (regional office of education #21)
T4	Construct safe rooms in essential facilities and other community buildings. Retrofit existing buildings to withstand high winds. Do outreach at School Districts and teach children how to take cover. Do outreach with the community. Sign as many up with hypereach. Doing this at all community days, parades, fairs.	ongoing	Local;State;Federal	High	Williamson County EMA; City of Marion EMA	Williamson County Government; Kelly Norris, Pat Creek, Amanda Barnes, Ashley Gott, Mike Cerutti, Thom Beebe, Russ Tate, Travis Emery, Robert Owsley, Jim Marlo, Alex Simpson, Jeff Robinson; Doug Phillips; City of Marion Superintendent
T5	Senior centers have current plans, but need to revisit in old buildings. Plan safest place in building for seniors and staff to go during tornado/storm. If funding is available-revamping of old buildings is needed, Senior centers should consider reinforcing old, brittle walls to make buildings sturdier.	Proposed	State	Medium	Egyptian Area Agency on Aging & senior centers	Becky Salazar (Executive Director)
T6	In the case of a tornado, there must be adequate tornado sirens, in order to give the earliest warning signs as possible. Making sure any down powerlines are maintained and people are kept safe from any destruction from the tornado.	Proposed	State;Federal	Medium	Williamson County EMA	Noelle Eldridge (Spillertown Village Clerk)

T7	In the event of a severe thunderstorm; first people must be moved indoors and away from windows. People in lead must stay aware of alerts and warnings. Urgency to stay away from flooded roads; and to have truck and tractors as emergency equipment ready for when its needed.	Proposed	State;Federal	Medium	Williamson County EMA	Noelle Eldridge (Spillertown Village Clerk)
T8	Promote awareness and educate students, staff, and community through education materials and planning guides. Ensure facilities are equipped with emergency survival and first aid supplies, etc.	Ongoing	local	Medium	Carterville CUSD / Fire Department	Keith Liddell (Superintendent of Carterville CUSD #5)
T9	Promote awareness and educate students and staff through education materials and planning guides. Construct safe rooms at schools if funding becomes available.	Ongoing	local	Medium	Johnston city School Staff/ Williamson County EMA	Kathy Clark (Superintendent of Johnston City School CUSD #1)
T10	Promote awareness and educate students, staff, and community through education materials and planning guides. Ensure facilities are equipped with emergency survival and first aid supplies, etc.	Ongoing	Local; State	Medium	Carterville CUSD / Fire Department	Keith Liddell (Superintendent of Carterville CUSD #5)
T11	Construct safe rooms at schools if funding becomes available. Promote awareness and educate students and staff through education materials and planning guides.	Ongoing	State; Federal	Medium	Johnston city School Staff/ Williamson County EMA	Kathy Clark (Superintendent of Johnston City School CUSD #1)
T12	Construct safe rooms in community building. Host an assembly at the school to teach children about how to take cover in a tornado event. Host a program at the Wonder Water reunion. Program will be held at city hall for residents. Sign residents up for county alert program	Ongoing	Local;State; Federal	High	Williamson County EMA/ City of Creal Springs	Shannon Edwards (Chief of Police Creal Springs)
T13	Man the station during risk of severe weather. Keep weather radios in govt buildings. Tornado sirens can be activated by multiple jurisdictions (dispatch, fire, or police radios). Train staff to watch for severe weather. Retrofit buildings to withstand high winds. Construct safe rooms in essential facilities. Assist in damage clean up and assisting injured. Maintain list of bus services that would assist in disasters. Provide list of shelter and food locations during emergencies	Ongoing	L,s,f,	High	Energy Fire Dept	Michael Nelson (Energy Asst. Fire Chief)

T14	Any new municipal facilities should be constructed having safe rooms. Currently in the plans for building a new fire station that will have a rated safe room area to meet Codes. Include a list of storm shelters available in the city of Herrin and Williamson County in the next update of the City's EOP	Proposed	Local	High, Medium	City of Herrin	Shawn Priddy Herrin Fire Chief
T15	Make sure generator is in operating condition. Check tower structure and bridges, check for leaks. Run pumps if needed	Proposed	L,s,f,	Medium	Fire Dept, Water District	Bruce Emery (Coal Valley Water District)
T16	Semi-annual tornado drills. Have County EMA or first responders review emergency procedure to ensure safety.	Ongoing/Proposed	P	Medium	Lighthouse, County EMA	Shara Robinson (Lighthouse Shelter)

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Earthquakes						
EQ1	Install Automatic Shutoff Valves, construct backup water mains, construct new safe rooms	ongoing	S,F	M	Williamson County EMA, Franklin-Williamson Bi-County Health Dept., Marion EMA, SIH	
EQ2	Outreach/Education for residents on structural and non-structural retrofitting. Fairs/community days	Ongoing	L	H	County	
EQ3	Provide information to residents on structural and non-structural retrofitting. Develop earthquake emergency action plans. Construct new safe rooms. Install automatic shutoff valves. Construct backup water mains	Proposed	Local;States	Low	Williamson County EMA; City of Marion EMA	Doug Phillips; City of Marion Superintendent
EQ4	Develop earthquake emergency action plan. Automatic shutoff valves. Install shutoff valves for all utilities. Work with outside agencies to consult schools on best strategies.	Proposed	Local; State	Medium	Williamson County EMA; City of Marion EMA	Jeff Bink and Chad Milburn (regional office of education #21)
EQ5	Provide information to residents on structural and non-structural retrofitting Develop earthquake emergency action plans. Doing this at all Community Days, Fairs and Parades. Construct new safe rooms Install automatic shutoff valves Construct backup water mains.	Ongoing	State;Federal	Medium	Williamson County EMA; City of Marion EMA	Williamson County Government; Kelly Norris, Pat Creek, Amanda Barnes, Ashley Gott, Mike Cerutti, Thom Beebe, Russ Tate, Travis Emery, Robert Owsley, Jim Marlo, Alex Simpson, Jeff Robinson
EQ6	Current plans in place, but may not be practiced in awhile due to recent closure. Revisit earthquake plan and ensure seniors know the plan. Most staff won't know where shutoff valves are located. Ensure staff know where shutoff valves are located. Most staff won't know where shutoff valves are located.	Ongoing	State;Federal	Medium	Egyptian and Senior Centers	Becky Salazar (Executive Director)
EQ7	Continue Hazard Specific activities such as, levee reinforcement, and taking better measures to reenforce the safety and stay aware of the warning systems	Proposed	State;Federal	Low	Williamson County EMA	Noelle Eldridge (Spillertown Village Clerk)
EQ8	Develop earthquake emergency action plans. Promote awareness and educate students, staff, and community through education materials and planning guides.	Ongoing	Local	Low	Herrin CUSD/Carterville CUSD / Fire Department	Keith Liddell (Superintendent of Carterville CUSD #5), Nathaniel Wilson (Herrin CUSD)
EQ9	Develop and review earthquake emergency action plans. Promote awareness and educate students and staff through education materials and planning guides.	Ongoing	Local	High	Johnston city School Staff/ Williamson County EMA	Kathy Clark (Superintendent of Johnston City School CUSD #1)

EQ10	Develop earthquake emergency plans. Provide information to residents about the emergency action plans. Host a program at the Wonder Water Reunion. Construct back up water mains, construct new safe rooms.	Ongoing	Local; State; Federal	Medium	Williamson County EMA/ City of Creal Springs	Shannon Edwards (Chief of Police Creal Springs)
EQ11	Develop earthquake emergency action plans. In the event of an earthquake: Check for and report injured people and building/infrastructure damages. Assist other agencies as needed	ongoing	Local; State; Federal	Low	Energy Fire Dept	Michael Nelson (Energy Asst. Fire Chief)
EQ12	Close valves to keep water in system, asses for leaks and needed repairs as soon as possible	Proposed	l,s,f	Medium	Coal Valley Water	Bruce Emery (Coal Valley Water District)

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HazMat Release						
HM1	<ul style="list-style-type: none"> Acquire protective gear for first responders and locations with high probabilities of occurrence (colleges, factories/warehouses, energy plants) Develop and update HazMat emergency action plans Equip facilities with centralized positive-pressure HVAC systems 	Proposed	State;Federal	Medium	Williamson County EMA; City of Marion EMA	Doug Phillips; City of Marion Superintendent
HM2	ESSRA money for installation of new HVAC systems. Positive Pressure HVAC. Emergency Action Plan. Develop action plan for hazardous material mitigation with local agencies and ISBE.	Proposed	Local; State	Medium	Williamson County EMA; City of Marion EMA	Jeff Bink and Chad Milburn (regional office of education #21)
HM3	<ul style="list-style-type: none"> Acquire protective gear for first responders and locations with high probabilities of occurrence (colleges, factories/warehouses, energy plants) Develop and update HazMat emergency action plans Equip facilities with centralized positive-pressure HVAC systems. Assist jurisdictions and all facilities with plan development and finding funding sources to acquire equipment. Offer Haz Mat Awareness and Haz Mat Refresher training to all jurisdictions and facilities.	Ongoing	Local; State	Medium	Williamson County EMA; City of Marion EMA	Williamson County Government; Kelly Norris, Pat Creek, Amanda Barnes, Ashley Gott, Mike Cerutti, Thom Beebe, Russ Tate, Travis Emery, Robert Owsley, Jim Marlo, Alex Simpson, Jeff Robinson
HM4	Have PPE readily available and chemical data sheets at every site. Chemical data sheets are currently kept. Have emergency plans for Haz Mat incident. Ensure policies are up-to-date and followed.	Ongoing	State;Federal	Medium	Egyptian and Senior Centers	Becky Salazar (Executive Director)
HM5	During a hazardous materials event, efforts will be made to eliminate or reduce risk to harmful or toxic chemical or materials. There will be hazard specific activities improved and training for to service land use and planning decisions.	Proposed	State;Federal	Low	Williamson County EMA	Noelle Eldridge (Spillertown Village Clerk)

HM6	Develop and update HazMat emergency action plans. Promote awareness and educate students, staff, and community through education materials and planning guides.	Ongoing	Local	Low	Herrin CUSD, Carterville CUSD / Fire Department	Keith Liddell (Superintendent of Carterville CUSD #5) Nathaniel Wilson (Herrin CUSD)
HM7	Develop and update HazMat emergency action plans. Promote awareness and educate students, staff, and community through education materials and planning guides.	Ongoing	Local	Low	Johnston city School Staff/ Williamson County EMA	Kathy Clark (Superintendent of Johnston City School CUSD #1)
HM8	Provide protective gear for first responders. Assist facilities with a plan and find grants for equipment. Offer hazmat awareness and hazmat refresher training to all facilities.	Ongoing	State; Federal	Low	Williamson County EMA/ City of Creal Springs	Shannon Edwards (Chief of Police Creal Springs)
HM9	Develop & update HazMat emergency action plans. Acquire protective gear for first responders & locations with high probability of occurrence. Equip facilities with centralized positive pressure HVAC systems. Enhance emergency communication systems. Maintain list of emergency vehicles & equipment. Maintain backup generators. Monitor weather conditions. In the event of a HazMat release, contact MABAS 45 HazMat Team MABAS 65 unit. Assist as needed.	Ongoing	I,s,f	Medium	Energy Fire Dept	Michael Nelson (Energy Asst. Fire Chief)
HM10	Repeated water testing in the event of a HazMat release, shutoff pumps & distribute no consumption notices as necessary.	Proposed	I,s	Low	Coal Valley Water, CDC, Police	Bruce Emery (Coal Valley Water District)

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Drought, Extreme Heat						
D1	<ul style="list-style-type: none"> • Reduce Urban Heat Island effects with various methods: green infrastructure, urban tree planting, permeable pavement, reflective pavement/roofs, others • Establish wildfire prevention management strategies • Provide cooling centers for vulnerable population. Regular safety meetings for awareness of extreme heat weather and employee and community awareness. 	Ongoing	Local; State	Medium	Williamson County EMA; City of Marion EMA	Doug Phillips; City of Marion Superintendent
D2	Allow work from home or half-day schedule when building HVAC systems are inadequate for creating a comfortable atmosphere. Flexible school schedule. Require new buildings meet rigorous eco-friendly standards for saving energy. Green infrastructure	Proposed	Local; State	Medium	Williamson County EMA; City of Marion EMA	Jeff Bink and Chad Milburn (regional office of education #21)
D3	<ul style="list-style-type: none"> • Reduce Urban Heat Island effects with various methods: green infrastructure, urban tree planting, permeable pavement, reflective pavement/roofs, others • Establish wildfire prevention management strategies • Provide cooling centers for vulnerable population 	Proposed	State;Federal	Medium	Williamson County EMA; City of Marion EMA	Williamson County Government; Kelly Norris, Pat Creek, Amanda Barnes, Ashley Gott, Mike Cerutti, Thom Beebe, Russ Tate, Travis Emery, Robert Owsley, Jim Marlo, Alex Simpson, Jeff Robinson
D4	Provide space for seniors during hot weather. Should be easy to implement if site is open. Provide water and encourage hydration at all senior activities, Hydration helps keep body temperature down.	Ongoing	State;Federal	Medium	Egyptian and senior centers	Becky Salazar (Executive Director)
D5	In the case of a drought, attempts to get water to the most important areas is the first action to take. Then setting up cooling stations and have extra water and fans on standby.	Proposed	State;Federal	Low	Williamson County EMA	Noelle Eldridge (Spillertown Village Clerk)
D6	Promote awareness and educate students and staff through education materials and planning guides. Regularly perform drainage system maintenance. Provide cooling centers for vulnerable population.	Proposed	Local	Low	Herrin CUSD, Carterville CUSD / Fire Department	Keith Liddell (Superintendent of Carterville CUSD #5) Nathaniel Wilson (Herrin CUSD)
D7	Promote awareness and educate students and staff through education materials and planning guides. Regularly perform drainage system maintenance. Provide cooling centers for vulnerable population.	Ongoing	Local	Low	Johnston city School Staff/ Williamson County EMA	Kathy Clark (Superintendent of Johnston City School CUSD #1)
D8	Provide cooling center, Host a program at the school on how to prepare children for extreme heat and drought. Sign up residents for county alert program.	Proposed	Local; State; Federal	Medium	Williamson County EMA/ City of Creal Springs	Shannon Edwards (Chief of Police Creal Springs)

D9	Establish wildfire prevention management strategies. Have no burn ordinances in the event of a drought. Maintain list of cooling centers. List of transportation for the community. Assist other agencies as needed.	Ongoing	I,s,f	Medium	Energy Fire Dept	Michael Nelson (Energy Asst Fire Chief)
D10	Check for overheating on pumps. Have a water conservation plan in place for customers in the event of a drought.	Proposed	I,s	Low	Coal Valley, RLCD	Bruce Emery (Coal Valley Water District)

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Ground Failure/Mine Subsidence						
GF1	<ul style="list-style-type: none"> • Maintain a list of buildings constructed over underground mines. Maintain a list of any underground structures to be affected and map and education of affected mine subsidence areas. • Education programs/brochures regarding mine subsidence insurance for home and landowners 	Ongoing	Local; State	Medium	Williamson County EMA; City of Marion EMA	Doug Phillips; City of Marion Superintendent
GF2	List of Buildings over underground mines. Maintain list at county offices of buildings built over mines. Make purchaser/builder aware when property changes hands. Cracks in concrete/structure. Land surveyors watch for structural failures and signs of possible failure.	Proposed	Local; State	High	Williamson County EMA; City of Marion EMA	Jeff Bink and Chad Milburn (regional office of education #21)
GF3	<ul style="list-style-type: none"> • Maintain a list of buildings constructed over underground mines • Education programs/brochures regarding mine subsidence insurance for home and landowners. 	Ongoing	Local; State	High	Williamson County EMA; City of Marion EMA	Williamson County Government; Kelly Norris, Pat Creek, Amanda Barnes, Ashley Gott, Mike Cerutti, Thom Beebe, Russ Tate, Travis Emery, Robert Owsley, Jim Marlo, Alex Simpson, Jeff Robinson
GF4	Senior centers should become aware. Know if senior center is over underground mines. Provide education on mine subsidence insurance if applicable. Educate senior centers on insuring in case of mine subsidence.	Proposed	State;Federal	Low	Egyptian and Senior Centers	Becky Salazar (Executive Director)
GF5	Diffuse the underlying ground rupture, modifying slopes and rerouting water drainage. Install structures such as retaining walls and diverting debris in pathways.	Proposed	State;Federal	Low	Williamson County EMA	Noelle Eldridge (Spillertown Village Clerk)
GF6	Maintain a list of buildings constructed over underground mines. Promote awareness and educate students, staff, and community through education materials and planning guides.	Proposed	Local	Low	Herrin CUSD, Carterville CUSD / Fire Department	Keith Liddell (Superintendent of Carterville CUSD #5), Nathaniel Wilson (Herrin CUSD)

GF7	Maintain a list of buildings constructed over underground mines. Promote awareness and educate students, staff, and community through education materials and planning guides.	Ongoing	Local	Medium	Johnston city School Staff/ Williamson County EMA	Kathy Clark (Superintendent of Johnston City School CUSD #1)
GF8	Make a list of buildings that are constructed over wells and springs.. Develop an emergency action plan for sink holes	Ongoing	Local	Low	Williamson County EMA/ City of Creal Springs	Shannon Edwards (Chief of Police Creal Springs)
GF9	Get maps of underground and surface mines. Assist city in checking for damages to structures, sewers, and roads in the event of subsidence. Block dangerous areas. Report to mine company if relevant. For damage to 148, report to IDOT.	Ongoing	I,s,f	Medium	Energy Fire Dept	Michael Nelson (Energy Asst Fire Chief)
GF10	Check for excessive meter usage and leaks; shut of valves & pumps and make repairs as needed.	Proposed	I,s	Medium	Police, Coal Valley	Bruce Emery (Coal Valley Water Dist.)

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Winter Storms						
W1	<ul style="list-style-type: none"> • Purchase/maintain stockpiles of salt and other de-icing chemicals • Build snow fencing in areas vulnerable to dangerous snow drifts • Collaborate with neighboring counties to keep an updated list of available plow/salt trucks and parts 	Ongoing	Local; State	High	Williamson County EMA; City of Marion EMA	Doug Phillips; City of Marion Superintendent
W2	Stockpile resources (salt/de-icing) and equipment. Ensure adequate availability of salt/de-icing items and equipment for ensuring student, staff, and community safety. Maintain list of available equipment (trucks, plows) and companies available with rates. Maintain list of equipment and companies available for disaster abatement.	Proposed	Local	High	Williamson County EMA; City of Marion EMA	Jeff Bink and Chad Milburn (regional office of education #21)
W3	<ul style="list-style-type: none"> • Purchase/maintain stockpiles of salt and other de-icing chemicals • Build snow fencing in areas vulnerable to dangerous snow drifts • Collaborate with neighboring counties to keep an updated list of available plow/salt trucks and parts. Do outreach at schools and teach children how to prepare for Severe Winter Weather. <p>Do outreach with the community. Sign up people with county alerting program.</p>	Ongoing	Local	High	Williamson County EMA; City of Marion EMA	Williamson County Government; Kelly Norris, Pat Creek, Amanda Barnes, Ashley Gott, Mike Cerutti, Thom Beebe, Russ Tate, Travis Emery, Robert Owsley, Jim Marlo, Alex Simpson, Jeff Robinson

W4	Many sites close when weather is bad. Have someone contracted to salt parking lot before opening and have plenty of salt available to keep sidewalks clear. Ensure clients have emergency meals at home in case of site closure due to weather.	Ongoing	State;Federal	Medium	Egyptian and senior centers.	Becky Salazar (Executive Director)
W5	Making sure that roadways are salted before a winter storm; and ensuring that there are adequate equipment in order to keeps roads plowed. Ensuring that all emergency equipment is adequate and running.	Proposed	State;Federal	Medium	Williamson County EMA	Noelle Eldridge (Spillertown Village Clerk)
W6	Promote awareness and educate students, staff, and community through education materials and planning guides. Purchase/Maintain stockpiles of salt and other de-icing chemicals.	Ongoing	Local, State	Low	Herrin CUSD, Carterville CUSD / Fire Department	Keith Liddell (Superintendent of Carterville CUSD #5) Nathaniel Wilson (Herrin CUSD)
W7	Promote awareness and educate students, staff, and community through education materials and planning guides. Purchase/Maintain stockpiles of salt and other de-icing chemicals.	Ongoing	Local	Medium	Johnston city School Staff/ Williamson County EMA	Kathy Clark (Superintendent of Johnston City School CUSD #1)
W8	Have a stock pile of salt and cinders. Make sure the plow trucks are serviced and ready. Programs at the school to educate children on how to prepare for winter weather. Program at city hall for residents. Residents can sign up for an alert system for winter weather advisory.	Ongoing	Local; State	Medium	Williamson County EMA/ City of Creal Springs	Shannon Edwards (Chief of Police Creal Springs)
W9	Pretreat driveways/lots of station. Make sure trucks are ready before storms hit, make sure heat and backup generators are working, make sure list of warming centers is up to date. Assist other agencies as needed.	Ongoing	l,s,f	Medium	Energy Fire Dept	Michael Nelson (Energy Asst. Fire Chief)
W10	Make sure pump stations have adequate heating, advise customers to maintain stream of water to avoid freezing pipes during severe winter cold	Proposed	l,s	High	Pittsburg/Stonefort Water	Bruce Emery (Coal Valley Water District)
W11	Seek funding for extra de-icing materials & snow/wind protection for walkways	Proposed	l,p	High	County EMA, City of Marion	Shara Robinson (Lighthouse Shelter)

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Pandemic/Disease Outbreak						
P1	<ul style="list-style-type: none"> Enhance reporting and contract tracing protocols Williamson County Multi-Hazard Mitigation Plan. List of Potential Mitigation Strategies Develop/update plans for mass care situations Develop plan and mutual aid agreement for use of portable morgue 	Ongoing	State, Federal	High	Williamson County EMA; City of Marion EMA	Doug Phillips; City of Marion Superintendent
P2	Portable morgue. Develop plan for construction of portable morgue with coroner. Offer parking lot as area for triage. Contact tracing; Schools track tracing through digital and manual means for tracing contact with infected individuals. Possibly develop app or unified platform for greater effectiveness.	Ongoing	Local;States	High	Williamson County EMA; City of Marion EMA	Jeff Bink and Chad Milburn (regional office of education #21)
P3	<ul style="list-style-type: none"> Enhance reporting and contract tracing protocols Williamson County Multi-Hazard Mitigation Plan List of Potential Mitigation Strategies Develop/update plans for mass care situations Develop plan and mutual aid agreement for use of portable morgue. This will be a collaborative effort of the above agencies. Provide preparedness information for all age groups to the public on how to stay safe during a disease outbreak/pandemic. <p>help residents develop disease outbreak/pandemic emergency action plans. Doing this at Community Days, Parades and Fairs</p>	Ongoing	Local;States	High	Williamson County EMA; City of Marion EMA	Williamson County Government; Kelly Norris, Pat Creek, Amanda Barnes, Ashley Gott, Mike Cerutti, Thom Beebe, Russ Tate, Travis Emery, Robert Owsley, Jim Marlo, Alex Simpson, Jeff Robinson
P4	The senior centers have been asked to keep seniors with emergency meals at their home in case of closure due to pandemic or weather. Have a 1-2 week back-up meals for emergency given to seniors in case of meal site closure and inability to get food. Ensure temperatures are taken, masks are worn, and social distancing and potential meal pick-ups instead of on-site during disease outbreaks.	Ongoing	State;Federal	High	Egyptian and Senior Centers.	Becky Salazar (Executive Director)
P5	Urge people to stay home when they are sick; reenforce hand hygiene and face coverings. Travel restrictions will be set in place for those infected and to high-risk individuals.	Proposed	State;Federal	Low	Williamson County EMA	Noelle Eldridge (Spillertown Village Clerk)
P6	Enhance reporting and contact tracing protocols. Promote awareness and educate students, staff, and community through education materials and planning guides.	Ongoing	Local; State; Federal	Medium	Herrin CUSD, Carterville CUSD / Williamson County Health Department	Keith Liddell (Superintendent of Carterville CUSD #5) Nathaniel Wilson (Herrin CUSD)

P7	Enhance reporting and contract tracing protocols. Promote awareness and educate students, parents, and staff through education materials and planning guides.	Ongoing	Local; State	Medium	Johnston city School Staff/ Williamson County Health Department	Kathy Clark (Superintendent of Johnston City School CUSD #1)
P8	Enhance reporting and contact tracing protocols, develop potential mitigation strategies. Provide information about disease outbreak to the public. Help the public develop a strategy plan for disease outbreaks.	Ongoing	Local; State; Federal	Medium	Williamson County EMA/ City of Creal Springs	Shannon Edwards (Chief of Police Creal Springs)
P9	Enhance reporting and contract tracing protocols. Develop/update plan for mass care situations. Develop mutual aid agreement for use of portable morgue. Follow CDC, state & local health dept protocols. Agreements with ambulance service.	Ongoing	Local; State; Federal	Medium	Energy Fire Dept	Michael Nelson (Energy Asst. Fire Chief)
P10	Maintain water availability to customers while making sure workers maintain safe distances	Ongoing	local	Medium	Coal Valley Water Dist testing lab	Bruce Emery (Coal Valley Water District)
P11	Seek funding to relocate COVID positive residents in hotels or other locations to maintain health of facility. Other procedures already in place	Ongoing	l,s,f,p	Medium	Lighthouse Shelter, Bi-County Health Dept, Heartland Hospital	Shara Robinson (Lighthouse Shelter)

Code	Mitigation Strategy	Status	Funding Source	Priority	Responsible Organization/ Agency	Strategy Proposed by
Terrorism						
TR1	Follow protocol from local and state services. Making public aware of any situation endangering community	Ongoing	Local; State	Medium	Williamson County EMA; City of Marion EMA	Doug Phillips; City of Marion Superintendent
TR2	Develop, maintain, and test drills for active shooters and other terrorism risks. Lockdown drills, ensure school staff member(s) have adequate training to deal with fallout from terrorist event. Student Resource Officer training.	Proposed	Local; State	High	Williamson County EMA; City of Marion EMA	Doug Phillips; City of Marion Superintendent
TR3	Enhance security and safety around vulnerable facilities, such as schools, hospitals, government facilities, critical infrastructure, etc. Install surveillance equipment around facilities. Develop Emergency Action Plans and enhance existing plans.	Ongoing	State;Federal	Medium	Williamson County EMA; City of Marion EMA	Williamson County Government; Kelly Norris, Pat Creek, Amanda Barnes, Ashley Gott, Mike Cerutti, Thom Beebe, Russ Tate, Travis Emery, Robert Owsley, Jim Marlo, Alex Simpson, Jeff Robinson
TR4	Encourage seniors remain at home. Provide safety information to seniors on what to do in a terrorist attack.	Ongoing	State;Federal	Low	Egyptian Area Agency on Aging & senior centers	Becky Salazar (Executive Director)
TR5	In the event of a terrorist attack, the Police department and Fire department will be expected to take action to keep citizens safe. Having extra coverage when we feel like there could be a higher threat.	Proposed	State;Federal	Low	Williamson County EMA	Noelle Eldridge (Spillertown Village Clerk)
TR6	Promote awareness and educate students, staff, and community through education materials and planning guides. Ensure facilities are equipped with emergency survival and first aid supplies, etc.	Proposed	Local	Low	Herrin CUSD/Carterville CUSD / Fire Department	Keith Liddell (Superintendent of Carterville CUSD #5) Nathaniel Wilson (Herrin CUSD)
TR7	Promote awareness and educate students, staff, and community through education materials and planning guides. Ensure facilities are equipped with emergency survival and first aid supplies, etc.	Proposed	Local	Low	Johnston city School Staff/ Williamson County EMA	Kathy Clark (Superintendent of Johnston City School CUSD #1)
TR8	Have security around high-risk facilities. Install Surveillance equipment around facilities. Programs at schools to teach children and public how to prepare for terrorist attacks. Sign up residents for county alert system.	Ongoing	State	Low	Williamson County EMA/ City of Creal Springs	Shannon Edwards (Chief of Police Creal Springs)
TR9	Shut down pumps & valves, perform excessive testing to ensure water quality is safe.	Proposed	l,s,f	Low	Water Districts, National Guard	Bruce Emery (Coal Valley Water District)

Code	Mitigation Strategy	Status	Funding Source	Priority	Responsible Organization/ Agency	Strategy Proposed by
Cyberattack						
C1	<ul style="list-style-type: none"> • Encourage businesses and government offices to review and utilize the steps in the Cybersecurity & Infrastructure Security Agency (CISA) Cyber Essentials Starter Kit- this is free educational material provided by the Federal Government • Make local businesses and government offices aware of the Illinois Attorney General's office data breach reporting system • Provide resources for the public on cyber security for home computers and smartphones; make residents aware of the IL identity theft hotline 	Proposed	Local; State	Low	Williamson County EMA; City of Marion EMA	Doug Phillips; City of Marion Superintendent
C2	Train all staff and students in proper use of technology and safe internet usage. Awareness training. Distribute free federal and state resources for further awareness. Obtain and distribute free resources for additional training and awareness of potential risks.	Proposed	Local; State	High	Williamson County EMA; City of Marion EMA	Jeff Bink and Chad Milburn (regional office of education #21)
C3	<ul style="list-style-type: none"> • Encourage businesses and government offices to review and utilize the steps in the Cybersecurity & Infrastructure Security Agency (CISA) Cyber Essentials Starter Kit- this is free educational material provided by the Federal Government • Make local businesses and government offices aware of the Illinois Attorney General's office data breach reporting system • Provide resources for the public on cyber security for home computers and smartphones; make residents aware of the IL identity theft hotline. Help facilities within the county to get Cybersecurity training for their facility. <p>Do community outreach and educate students how to prevent Cyber Attacks.</p>	Ongoing	Local; State	High	Williamson County EMA; City of Marion EMA	Williamson County Government; Kelly Norris, Pat Creek, Amanda Barnes, Ashley Gott, Mike Cerutti, Thom Beebe, Russ Tate, Travis Emery, Robert Owsley, Jim Marlo, Alex Simpson, Jeff Robinson
C4	Have senior centers review CISA's starter kit. Have Attorney General's office speak at local senior centers on local and recent cyber threats. Centers were doing this regularly pre-pandemic	Ongoing	State;Federal	Medium	Egyptian Area Agency on Aging & senior centers	Becky Salazar (Executive Director)
C5	During a cyberattack case, make sure that the systems are always updated with the newer software. Make sure we do every update and have every password protected.	Proposed	State;Federal	Low	Williamson County EMA	Noelle Eldridge (Spillertown Village Clerk)
C6	Promote awareness and educate students and staff through education materials and planning guides. Coordinate with Williamson County EMA to provide resources for the public on cybersecurity for computers and smartphones; promote awareness of the IL identity theft hotline.	Proposed	Local	Low	Herrin CUSD, Carterville CUSD / Fire Department	Keith Liddell (Superintendent of Carterville CUSD #5) Nathaniel Wilson (Herrin CUSD)

C7	Promote awareness and educate students, staff, and community through education materials and planning guides. Provide resources for the public on cyber security for home computers and smartphones; make residents aware of the IL identity theft hotline.	Proposed	Local	Low	Johnston city School Staff/ Williamson County EMA	Kathy Clark (Superintendent of Johnston City School CUSD #1)
C8	Make local businesses aware of local attorney general office data breach reporting system. Provide resources for the public cyber security for home computers and smart phones. Make residents aware of the IL ID theft hotline. Help businesses within the community to set up cyber security training for their businesses. Program at school to educate students on how to prevent cyber-attacks.	Ongoing	Local	Low	Williamson County EMA/ City of Creal Springs	Shannon Edwards (Chief of Police Creal Springs)
C9	City of Marion provides IT expertise, seek extra funding to upgrade cybersecurity.	Proposed	I,p	Low	Lighthouse Shelter, City of Marion, County EMA	Shara Robinson (Lighthouse Shelter)

Code	Mitigation Strategy	Status	Funding Source	Priority	Responsible Organization/ Agency	Strategy Proposed by
Power outage/ utility disruption						
PO1	Stay in contact with local utility company on areas of utility outage. Communicate with local utility company for power updates.	Ongoing	Local; State	Medium	Williamson County EMA; City of Marion EMA; Ameren	Doug Phillips; City of Marion Superintendent
PO2	Install generators for school buildings. Ensure proper working condition of installed generators for continuity of business. Install generators. Perform monthly tests on existing emergency lighting. Emergency lights testing.	Proposed	Local; State	High	Williamson County EMA; City of Marion EMA; Ameren	Jeff Bink and Chad Milburn (regional office of education #21)
PO3	Install backup power supplies at all critical facilities and critical infrastructure. Do Community and school outreach and teach students and citizens how to prepare for power outages/utility disruptions. Sign up people for county alert program.	Ongoing	State;Federal	Medium	Williamson County EMA; City of Marion EMA; Ameren	Williamson County Government; Kelly Norris, Pat Creek, Amanda Barnes, Ashley Gott, Mike Cerutti, Thom Beebe, Russ Tate, Travis Emery, Robert Owsley, Jim Marlo, Alex Simpson, Jeff Robinson
PO4	Provide seniors a list of items to have nearby in case of power outage, like blanket, flashlight, etc. Have senior center staff check with seniors after power outage to ensure they throw out refrigerated items that may have gone bad.	Proposed	State;Federal	Medium	Egyptian Area Agency on Aging & senior centers	Becky Salazar (Executive Director)
PO5	In the case of a power outage, stay in contact with the utility department at all times, and have generators, gathering places, and heaters or fans for warm air circulation.	Proposed	State;Federal	Medium	Williamson County EMA	Noelle Eldridge (Spillertown Village Clerk)
PO6	Promote awareness and educate students and staff through education materials and planning guides. Install backup power supplies and improve aging infrastructure.	Ongoing	Local	Medium	Herrin CUSD, Carterville CUSD / Fire Department	Keith Liddell (Superintendent of Carterville CUSD #5) Nathaniel Wilson (Herrin CUSD)
PO7	Promote awareness and educate students, staff, and community through education materials and planning guides. Improve aging infrastructure.	Ongoing	Local	Low	Johnston city School Staff/ Williamson County EMA	Kathy Clark (Superintendent of Johnston City School CUSD #1)
PO8	Install generators at facilities. Host a program at the school to teach students and civilians how to prepare for power outages. Sign up residents for county alert system.	Ongoing	State; Federal	Medium	Williamson County EMA/ City of Creal Springs	Shannon Edwards (Chief of Police Creal Springs)
PO9	Assist other agencies or care facilities as needed. Keep station manned. Make sure generators are in working condition. Check for damages and degree of outage	Ongoing	I,s,f	Medium	Energy Fire Dept	Michael Nelson (Energy Asst. Fire Chief)
PO10	Use backup generators, use alternate water source if possible	Proposed	I,s,f	Medium	Water Districts	Bruce Emery (Coal Valley Water District)

PO11	Facility has backup generator, seek financial assistance for maintenance and repairs	Ongoing	I,s,p	Medium	Lighthouse Shelter	Shara Robinson (Lighthouse Shelter)
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Code	Mitigation Strategy	Status	Funding Source	Priority	Responsible Organization/ Agency	Strategy Proposed by
Wildfires						
WF1	Ensure adequate distance is maintained to minimize losses in the event of catastrophic fire. When distance is not available, construct fireproof firebreaks. Build firebreaks between buildings. Invest in, maintain, and test functionality of firefighting planes. Invest in firefighting planes	Proposed	State;Federal	Low	Williamson County EMA	Jeff Bink and Chad Milburn (regional office of education #21)
WF2	Practice fire safety at every office with fire drills and information on how to respond at home. Keep alert to any wildfires in the area to alert vulnerable seniors.	Proposed	State;Federal	Medium	Egyptian Area Agency on Aging & senior centers	Becky Salazar (Executive Director)
WF3	Making sure that fire trucks are equipped with a appropriate amount of water; and ensure that all service vehicles are ready to go	Proposed	State;Federal	Low	Williamson County EMA	Noelle Eldridge (Spillertown Village Clerk)
WF4	Promote awareness and educate students, staff, and community through education materials and planning guides. Establish wildfire prevention management strategies.	Proposed	Local	Medium	Herrin CUSD, Carterville CUSD / Fire Department	Keith Liddell (Superintendent of Carterville CUSD #5) Nathaniel Wilson (Herrin CUSD)
WF5	Promote awareness and educate students and staff through education materials and planning guides.	Proposed	Local	Low	Johnston city School Staff/ Williamson County EMA	Kathy Clark (Superintendent of Johnston City School CUSD #1)

Code	Mitigation Strategy	Status	Funding Source	Priority	Responsible Organization/ Agency	Strategy Proposed by
Other Potential Hazards						
OH1	Toxic Chemicals: communicate with local and state hazmat teams to mitigate strategy for cleanup.	Ongoing	Local;State	Low	Williamson County EMA//Local HazMat team	Doug Phillips; City of Marion Superintendent
OH2	To prevent landslides, install strong root systems in the surrounding area. Plant deep-rooting trees and other grasses. Install netting along major highways to prevent debris from entering the roadway and damaging vehicles. Rock-catching netting along major highways.	Proposed	Local;State;Federal	Low	Williamson County EMA	Jeff Bink and Chad Milburn (regional office of education #21)
OH3	Install fencing and rhizome barriers to prevent invasive species from entering/leaving property. Install barriers to prevent invasive species from entering or leaving the area. Pest prevention solution: Ensure frequent application of insecticides and monitoring of possible infestations.	Ongoing	Local	High	Williamson County EMA	Jeff Bink and Chad Milburn (regional office of education #21)
OH4	Determine areas at risk to a landslide. Educate centers and seniors where this is a risk factor.	Proposed	State; Federal	Low	Egyptian Area Agency on Aging & senior centers	Becky Salazar (Executive Director)
OH5	Educate seniors on signs of infestation of bed bugs, roaches, etc. Senior centers will close until infestation is taken care of.	Proposed	State; Federal	Medium	Egyptian Area Agency on Aging & senior centers	Becky Salazar (Executive Director)
OH6	Diligent awareness for infestations, and scheduling a spray inf needed. Contact Bi-County Health Department for hard to control pests	Proposed	State; Federal	Low	Williamson County EMA	Noelle Eldridge (Spillertown Village Clerk)
OH7	In the event of a land slide, sandbags, wood, or some kind of barrier to slow, or stop the landslide. Machinery must be accessible and running	Proposed	State; Federal	Low	Williamson County EMA	Noelle Eldridge (Spillertown Village Clerk)
OH8	Landslides- Promote awareness and educate students, staff, and community through education materials and planning guides. Prepare facilities with emergency survival and first aid supplies, etc.	Proposed	Local	Low	Herrin & Carterville CUSD / Fire Department	Keith Liddell (Superintendent of Carterville CUSD #5) Nathaniel Wilson (Herrin CUSD)
OH9	Invasive Species- Promote awareness and educate students, staff, and community through education materials and planning guides. Enhance emergency communication system infrastructure, warning system enhancements.	Proposed	Local	Low	Herrin & Carterville CUSD / Fire Department	Keith Liddell (Superintendent of Carterville CUSD #5) Nathaniel Wilson (Herrin CUSD)