

CACHE COUNTY – COMMUNITY HAZARD MITIGATION GOALS AND STRATEGIES

Hazard mitigation goals in this plan are similar to those identified in the 2004 plan. While mitigation goals have not drastically changed, many of the specific mitigation strategies to accomplish those goals have. The following goals were identified to direct community hazard mitigation strategies. These goals were developed based on the local official surveys in 2004 and 2008 (See appendix A), input from the Bear River Region PDM Technical Planning Team in 2004, and input from the Steering Committee in 2004.

Goal #1: Protect Current Residents and Property

- Improve emergency response capabilities.
- Improve the disaster resistance of existing infrastructure and critical facilities.
- Build capacity of citizens to undertake mitigation activities through education and training.
- Build technical GIS and analysis capacity for communities to help identify hazards and risks to hazards.

Goal #2: Protect Future Residents and Property

- As appropriate, develop and implement regulatory mechanisms to ensure new development activities will not increase the risk to life or property from natural hazards.
- Build technical GIS and analysis capacity for communities to help identify hazards and risk to hazards for future residents and their property.
- Empower future citizens to make informed choices through access to better data and more resources.

To accomplish these goals, specific mitigation strategies were developed by participating jurisdictions with assistance from working groups and BRAG staff. These strategies were assigned a priority of high, medium, or low by communities and through BRAG staff assistance according to the following criteria:

- Potential number of people protected by the project
- Technical feasibility
- Political support
- Available funding and priorities
- Environmental impacts

A guiding factor in prioritizing mitigation strategies was the principle that mitigation should provide the greatest amount of good to the greatest number of people, after considering funding opportunities and constraints. Recurrence intervals, past events, and damage estimates compiled during the assessment of vulnerability in this plan were also considered for priority and timeline values. While there was not a technical benefit-cost analysis regarding mitigation strategies during this planning process, the above criteria were considered for prioritization.

CACHE COUNTY - COMMUNITY MITIGATION STRATEGIES

Protecting Current Residents and Property

Jurisdiction	Hazard	Goal	Action	Action (For NFIP Compliance, if Applicable)	Priority (High, Medium, Low)	Time-frame (Year)	Potential Funding Sources	Estimated Cost	Resources
Bear River Region	All	Protect current residents and property	County-wide emergency preparedness fair	N/A	High	2011	Counties, BRAG	Minimal	BRAG, Counties, Be Ready Utah, Utah DESHS, local communities, Utah FFSL, GOPB, LEPC's, local HAM radio groups, UGS, NRCS (snow), National Weather Service, LDS Bishops Storehouse, Food Bank
Bear River Region	Severe Weather	Protect current residents and property	Public education/training including 3-5 day power outage survival, emergency response (CERT), emergency shelter locations, emergency kits, backup utilities, livestock issues, and interoperable emergency communications planning.	N/A	High	2011	Counties, Utah ESHS, BRAG, Cities, FEMA	\$50,000	Counties, Utah ESHS, BRAG, Cities, FEMA, NOAA
Bear River Region	Agricultural	Protect current residents and property	Encourage crop diversity, weed and pest management, and coordination with local, State, and Federal agencies on agricultural land management and production.	N/A	Medium	2011	Utah Department of Agriculture and Food, USDA, USU Extension, USFS, BLM,	Minimal	Utah Department of Agriculture and Food, USDA, USU Extension, USFS, BLM,
Bear River Region	Agricultural	Protect current residents and property	Work with various agencies to plan for and mitigate economic losses associated with stock loss due to disease.	N/A	Medium	2011	Utah Department of Agriculture and Food, USDA, USU Extension	minimal	Utah Department of Agriculture and Food, USDA, USU Extension, US Food and Drug Administration, Center for Disease Control
Bear River Region	Agricultural	Protect current residents and property	Prepare an Emergency Services Function for County Emergency Operations Plans	N/A	Medium	2013	Local	Minimal	Local
Bear River Region	Agricultural	Protect current residents and property	Educate residents on crop insurance program, alternative planting and CRP programs, value of agriculture, pest control, crop diversity, urban tree planting guidelines, etc.	N/A	Medium	2011	State, Local, USDA	Minimal	State, Local, USDA
Bear River Region	Drought	Protect current residents and property	Discuss purchasing agricultural water rights for culinary water on a county and local level	N/A	High	2011	County, Local	Minimal	County, Local
Bear River Region	Drought	Protect current residents and property	Explore possibility of water wise landscaping ordinances	N/A	High	2011	Counties, Municipalities, BRAG	minimal	Counties, Municipalities, BRAG, USU Extension, NRCS, Utah League of Cities and Towns, GOPB
Bear River Region	Drought	Protect current residents and property	Study feasibility of increasing current water storage capabilities	N/A	Low	2013	Utah ESHS, BRAG	Minimal	Utah ESHS, BRAG
Bear River Region	Drought	Protect current residents and property	Encourage water conservation techniques for all land uses.	N/A	High	2011	Utah DEQ, USDA, Utah Agriculture and Food, Utah APA	minimal	Utah DEQ, USDA, Utah Agriculture and Food, Utah APA
Bear River Region	Earthquake	Protect current residents and property	Update geologic hazards data in the local General Plans and ordinances with new data available from the Utah Geologic Survey and the US Geological Survey	N/A	High	2011	Local, BRAG	Minimal	Local, BRAG, County, UGS, USGS, Utah ESHS
All Bear River Region jurisdictions that do not participate in NFIP	Flood	Protect current residents and property	Talk with the Utah ESHS about the benefits of the NFIP program and consider joining so residents can purchase flood insurance.	Talk with the Utah ESHS about the benefits of the NFIP program and consider joining so residents can purchase flood insurance.	High	2010	Local	Minimal	Utah ESHS, Local, FEMA
Cache County	Dam Failure	Protect current residents and property	Notification system adequate to implement the emergency plans already developed with the FERC license process	N/A	Medium	2011	County	Minimal	County, FERC, State

Cache County	Earthquake	Protect current residents and property	Continue w/technical training for confined space & urban search and rescue	N/A	High	2010	Homeland Security grants, Agency investment	\$100,000	Cache County Fire District, Logan Fire Department
Cache County	Earthquake	Protect current residents and property	Promote earthquake safety and preparedness	N/A	High	2010	County, Utah ESHS	Minimal	Cache County E.M., USGS, UGS
Cache County	Severe Weather	Protect current residents and property	Encourage avalanche preparedness for back country users	N/A	Medium	2010	Local, FEMA, State	Minimal	Local, FEMA, State
Cache County	Flood	Protect current residents and property	Obtain storm water/flood response trailer to store and dispatch from Sheriff's office w/flood supplies	Obtain storm water/flood response trailer to store and dispatch from Sheriff's office w/flood supplies	High	2010	EMPG project grant, Homeland Security grant	\$10,000	Cache County, Sheriff's Office, Emergency Management
Cache County	Flood	Protect current residents and property	Analyze and model canals to determine deficiencies related to present and future demands (taking into account projected storm water increases based on projected development.	Analyze and model canals to determine deficiencies related to present and future demands (taking into account projected storm water increases based on projected development.	Medium	2011	Local, FEMA	\$100,000+	Private Consultant
Cache County	Flood	Protect current residents and property	Work toward requiring all new development to accommodate its own storm water discharge on-site. Develop ordinances and standards that require new development be designed to do on-site storm water retention.	Work toward requiring all new development to accommodate its own storm water discharge on-site. Develop ordinances and standards that require new development be designed to do on-site storm water retention.	Medium	2010	Local, FEMA, EPA	Minimal	BRAG, EPA, FEMA, Utah ESHS, Utah APA and ASLA
Cache County	Landslide	Protect current residents and property	Coordinate with Utah Geological Survey for landslide response procedures and strategies, update response	N/A	Medium	2011	County, FEMA, State	Minimal	USGS, UGS, USU
Cache County	Wildfire	Protect current residents and property	Implement community wildfire protection plan along Bear River Front. Coordinate w/county planning.	N/A	High	2011	County, Forestry, Fire, and State Lands	Minimal	FFSL, USFS, County
Amalga	Flood	Protect current residents and property	Coordinate between cities to keep canal gates staffed and free from debris	Coordinate between cities to keep canal gates staffed and free from debris	High	2011	County, Local	Minimal	County, local, FEMA, State ESHS
Amalga	Earthquake	Protect current residents and property	Training in earthquake emergency planning and response for residents, and coordination between local and county fire, police, and EMT crews.	N/A	High	2011	County, Homeland Security	\$100,000	Cache County Fire, Logan Fire
Clarkston	Flood	Protect current residents and property	Coordinate between cities to keep canal gates staffed and free from debris	Coordinate between cities to keep canal gates staffed and free from debris	High	2011	County, Local	Minimal	County, local, FEMA, State ESHS
Cornish	Earthquake	Protect current residents and property	Training in earthquake emergency planning and response for residents, and coordination between local and county fire, police, and EMT crews.	N/A	High	2011	County, Homeland Security	\$100,000	Cache County Fire, Logan Fire
Hyde Park	Earthquake	Protect current residents and property	Training in earthquake emergency planning and response for residents, and coordination between local and county fire, police, and EMT crews.	N/A	High	2011	County, Homeland Security	\$100,000	Cache County Fire, Logan Fire
Hyde Park	Flood	Protect current residents and property	Coordinate between cities to keep canal gates staffed and free from debris	Coordinate between cities to keep canal gates staffed and free from debris	High	2011	County, Local	Minimal	County, local, FEMA, State ESHS

Hyde Park	Wildfire	Protect current residents and property	Educate homeowners regarding defensible space, and fire resistant landscaping and building materials and strategies.	N/A	High	2011	Local	Minimal	Local, County, Utah FFSL, BLM, USFS
Hyrum	Flood	Protect current residents and property	Maintain available supply of sandbags, maintain emergency preparedness plan	Maintain available supply of sandbags, maintain emergency preparedness plan	Low	2010	City	Minimal	City
Hyrum	Earthquake	Protect current residents and property	Update emergency preparedness plan, coordinate plan w/church groups, conduct exercises	N/A	Medium	2010	City	Minimal	City
Hyrum	Wildfire	Protect current residents and property	Educate residents about hazards, build new fire station	N/A	High	2011	CIB-City	\$1,500,000	CIB-City
Hyrum	Landslide	Protect current residents and property	Maintain emergency response plan and conduct periodic exercises. Recently updated landslide map to more accurately reflect potential areas for slides	N/A	Low	2010	City	Minimal	City
Hyrum	Dam Failure	Protect current residents and property	Review advance warning systems for Porcupine, Hyrum, and Power Plant dams	N/A	Medium	2010	City	Minimal	City
Lewiston	Flood	Protect current residents and property	Coordinate between cities to keep canal gates staffed and free from debris	Coordinate between cities to keep canal gates staffed and free from debris	High	2011	County, Local	Minimal	County, local, FEMA, State ESHS
Lewiston	Earthquake	Protect current residents and property	Training in earthquake emergency planning and response for residents, and coordination between local and county fire, police, and EMT crews.	N/A	High	2011	County, Homeland Security	\$100,000	Cache County Fire, Logan Fire
Logan	Wildfire	Protect current residents and property	Develop community wildfire protection plan	N/A	High	2009	BLM, Forest Service, FEMA	\$3,000	Forest Service, DNR, DOF, State Lands
Logan	Flood	Protect current residents and property	CERT program, continuing education, training on sandbags. Park Ave. and 1000 W. flood protection project, bridge replacement on Park Ave (600 W.)	CERT program, continuing education, training on sandbags. Park Ave. and 1000 W. flood protection project, bridge replacement on Park Ave (600 W.)	Medium-high	2010	State UDOT, ESHS, City Capitol Improvements	TBD	UDOT, ESHS, Logan City
Logan	Flood	Protect current residents and property	Inventory and assess flooding vulnerability problem areas related to existing canals as well as diversion structures and transportation infrastructure. Inventory main flow areas.	Inventory and assess flooding vulnerability problem areas related to existing canals as well as diversion structures and transportation infrastructure. Inventory main flow areas.	High	2012	City, FEMA, Army Corps	TBD	City, FEMA, Army Corps, State ESHS, Canal Companies, UDOT
Logan	Landslide	Protect current residents and property	Public education, watering practices on high susc. areas, reseed and revegetate after wildfire on east benches, Dry Canyon disaster response plan for landslides (debris flow), cleaning plan	N/A	High	2010	City, private firm	TBD	City, private firm, Army Corps., Division of NR, USFS
Logan	Dam Failure	Protect current residents and property	Public education, evacuation plan, emergency response	N/A	medium	2010	City, USU	minimal	Army Corps, Bureau of Rec., City
Logan	Power Failure	Protect current residents and property	Ensure backup power for critical facilities by installing backup generator at fire station	N/A	High	2009	Local, FEMA	\$10,000	FEMA, CDBG
Logan	Earthquake	Protect current residents and property	Seismic retrofit of Logan City Service Center	N/A	High	2012	FEMA, City	\$3,000,000	FEMA, City
Logan	Earthquake	Protect current residents and property	Build a 1 million gallon culinary water reservoir and another pump station to supply Cliffside area with water. Build a pump station to serve Castle Hills area of Logan.	N/A	High	2011	Local	\$3,450,000	Local
Logan	Earthquake	Protect current residents and	Increase public readiness through a public education program	N/A	High	2011	Local, FEMA	\$50,000	Local, FEMA

		property							
Logan	Earthquake	Protect current residents and property	Replace water line from 700 N. 800 E. to 400 N. 700 E. with 18" ductile pipe to prevent rupture in the event of an earthquake	N/A	High	2011	Local	\$607,000	Local
Mendon	Flood	Protect current residents and property	Update floodplain data and improve storm water drains Develop flood maps, become participant in NFIP, improve storm water drains	Update floodplain data and improve storm water drains Change ordinances to support NFIP	High	2012	FEMA, State	\$3,200,000	FEMA, State, County
Mendon	Earthquake	Protect current residents and property	Improve building codes and ordinances	N/A	High	2012	FEMA, State	Unknown	FEMA, State, County
Mendon	Liquefaction	Protect current residents and property	Develop/research effects to Mendon, ask USU to perform study of effects	N/A	Medium	2015	FEMA, State, County	Unknown	USU
Mendon	Drought	Protect current residents and property	Understand effects to Mendon, ask USU for study of effects	N/A	Low	2020	Federal, State, Local	Unknown	USU
Mendon	Severe Weather	Protect current residents and property	Develop plan to reduce threats to community	N/A	High	2015	FEMA, State, County	Unknown	FEMA, State, County
Mendon	Wildfire	Protect current residents and property	Update community wildfire protection plan, educate community	N/A	Medium	2011	FEMA, State, County	Unknown	FEMA, State, County
Millville	Earthquake	Protect current residents and property	Training in earthquake emergency planning and response for residents, and coordination between local and county fire, police, and EMT crews.	N/A	High	2011	County, Homeland Security	\$100,000	Cache County Fire, Logan Fire
Millville	Flood	Protect current residents and property	Identify potential flood areas.	Identify potential flood areas.	High	2013	Local	\$25,000	County, local, FEMA, State ESHS
Millville	Severe Weather	Protect current residents and property	Add public notice area to local web site.	N/A	High	2013	Local	\$500	Local, County, Be Ready Utah, State ESHS
Millville	Wildfire	Protect current residents and property	Educate homeowners regarding defensible space, and fire resistant landscaping and building materials and strategies.	N/A	High	2011	Local	Minimal	Local, County, Utah FFSL, BLM, USFS
Newton	Flood	Protect current residents and property	Coordinate between cities to keep canal gates staffed and free from debris	Coordinate between cities to keep canal gates staffed and free from debris	High	2011	County, Local	Minimal	County, local, FEMA, State ESHS
Newton	Earthquake	Protect current residents and property	Training in earthquake emergency planning and response for residents, and coordination between local and county fire, police, and EMT crews.	N/A	High	2011	County, Homeland Security	\$100,000	Cache County Fire, Logan Fire
Nibley	Landslide	Protect current residents and property	Coordinate with Utah Geological Survey for landslide response procedures and strategies, update response	N/A	Medium	2011	County, FEMA, State	Minimal	USGS, UGS, USU
Nibley	Flood	Protect current residents and property	Coordinate between cities to keep canal gates staffed and free from debris	Coordinate between cities to keep canal gates staffed and free from debris	High	2011	County, Local	Minimal	County, local, FEMA, State ESHS
Nibley	Earthquake	Protect current residents and property	Training in earthquake emergency planning and response for residents, and coordination between local and county fire, police, and EMT crews.	N/A	High	2011	County, Homeland Security	\$100,000	Cache County Fire, Logan Fire
North Logan	Earthquake	Protect current residents and property	Training in earthquake emergency planning and response for residents, and coordination between local and county fire, police, and EMT crews.	N/A	High	2011	County, Homeland Security	\$100,000	Cache County Fire, Logan Fire

North Logan	Flood	Protect current residents and property	Coordinate between cities to keep canal gates staffed and free from debris	Coordinate between cities to keep canal gates staffed and free from debris	High	2011	County, Local	Minimal	County, local, FEMA, State ESHS
North Logan	Wildfire	Protect current residents and property	Educate homeowners regarding defensible space, and fire resistant landscaping and building materials and strategies.	N/A	High	2011	Local	Minimal	Local, County, Utah FFSL, BLM, USFS
Paradise	Dam Failure	Protect current residents and property	Work with the Utah Division of Water Rights and other groups to utilize Emergency Action Plans on a local level.	N/A	Low	2011	Utah Division of Water Rights, Local	Minimal	Utah Division of Water Rights, Local
Paradise	Flood	Protect current residents and property	Coordinate between cities to keep canal gates staffed and free from debris	Coordinate between cities to keep canal gates staffed and free from debris	High	2011	County, Local	Minimal	County, local, FEMA, State ESHS
Providence	Earthquake	Protect current residents and property	Education and awareness	N/A	Medium	2015	Federal, State, Local	\$5,000	USGS
Providence	Wildfire	Protect current residents and property	Education and awareness, introduce interface landscaping to areas of concern (plat notices)	N/A	Medium	2015	Federal, State, Local	\$5,000	Forest Service, County Fire
Providence	Landslide	Protect current residents and property	Education and awareness	N/A	Medium	2015	Federal, State, Local	\$5,000	USGS
Providence	Drought	Protect current residents and property	Finalize water rationing rules and ordinances, further develop secondary water system	N/A	Low/Medium	2015	Local	TBD	Local, County, Utah DWR
Providence	Severe Weather	Protect current residents and property	Education and awareness, participate in emergency preparedness planning	N/A	Medium	2015	Federal, State, Local	\$5,000	Federal, State, Local
Richmond	Flood	Protect current residents and property	Coordinate between cities to keep canal gates staffed and free from debris	Coordinate between cities to keep canal gates staffed and free from debris	High	2011	County, Local	Minimal	County, local, FEMA, State ESHS
Richmond	Wildfire	Protect current residents and property	Educate homeowners regarding defensible space, and fire resistant landscaping and building materials and strategies.	N/A	High	2011	Local	Minimal	Local, County, Utah FFSL, BLM, USFS
River Heights	Wildfire	Protect current residents and property	Maintain fire hydrants, protect water supply for adequate fire fighting (shut off pumps), reduce fire hazards through city ordinances	N/A	High	2008	City general fund	TBD	Local, Utah FFSL, County
River Heights	Earthquake	Protect current residents and property	New building codes, develop EOP, new water lines (avoid breakage), neighborhood block captains/area specialists, CERT training, disaster assistance flags	N/A	Medium	Ongoing	City general fund	TBD	Local, County EOC
River Heights	Dam Failure	Protect current residents and property	Work with the Utah Division of Water Rights and other groups to utilize Emergency Action Plans on a local level.	N/A	Low	2011	Utah Division of Water Rights, Local	Minimal	Utah Division of Water Rights, Local
River Heights	Drought	Protect current residents and property	Protect water supply to ensure adequate water for consumption and fire protection, monitor water use/supply, encourage water conservation, higher rates for overages, electronic meters, rations if needed	N/A	High	Ongoing	City general fund	Minimal	Local, County
River Heights	Severe Weather	Protect current residents and property	Services to keep roads open, water/sewer working, EP/BC, CERT training, maintain snow plows, disaster assistance flags in every home	N/A	Medium	Ongoing	City general fund	TBD	Local, County
River Heights	Power Outage	Protect current residents and property	Encourage residents to prepare for long-term outages, education, EP specialists, CERT training, emergency generator for water system, write EOP with designated shelter	N/A	Medium	2010	FEMA, City	\$100,000	FEMA, City
Smithfield	Flood	Protect current residents and property	Determine 100yr flood plain from Summit Creek. Obtain/create most recent floodplain data	Determine 100yr flood plain from Summit Creek. Obtain/create most recent floodplain data	High	2008	FEMA, Local	\$10,000	FEMA, Local, Utah ESHS

Smithfield	Earthquake	Protect current residents and property	Training in earthquake emergency planning and response for residents, and coordination between local and county fire, police, and EMT crews.	N/A	High	2011	County, Homeland Security	\$100,000	Cache County Fire, Logan Fire
Smithfield	Landslide	Protect current residents and property	Coordinate with Utah Geological Survey for landslide response procedures and strategies, update response	N/A	Medium	2011	County, FEMA, State	Minimal	USGS, UGS, USU
Trenton	Earthquake	Protect current residents and property	Training in earthquake emergency planning and response for residents, and coordination between local and county fire, police, and EMT crews.	N/A	High	2011	County, Homeland Security	\$100,000	Cache County Fire, Logan Fire
Trenton	Landslide	Protect current residents and property	Coordinate with Utah Geological Survey for landslide response procedures and strategies, update response	N/A	Medium	2011	County, FEMA, State	Minimal	USGS, UGS, USU
Trenton	Wildfire	Protect current residents and property	Educate homeowners regarding defensible space, and fire resistant landscaping and building materials and strategies.	N/A	High	2011	Local	Minimal	Local, County, Utah FFSL, BLM, USFS
Wellsville	Dam Failure	Protect current residents and property	Work with the Utah Division of Water Rights and other groups to utilize Emergency Action Plans on a local level.	N/A	Low	2011	Utah Division of Water Rights, Local	Minimal	Utah Division of Water Rights, Local
Wellsville	Flood	Protect current residents and property	Maintain supply of sandbags, clean ditches and canals	Maintain supply of sandbags, clean ditches and canals	High	2010	Canal Company, City	Minimal	Canal Company, City
Wellsville	Wildfire	Protect current residents and property	Identify wildfire hazards w/ FFSL	N/A	Medium	2010	FFSL	Minimal	FFSL, BRAG, UDESHS
Wellsville	Landslide	Protect current residents and property	Explore possibility of landslide element in geological hazard ordinance	N/A	Medium	2010	Local	Minimal	Utah GS, BRAG, City
Wellsville	Earthquake	Protect current residents and property	Talk w/state about geologic hazards	N/A	Medium	2010	Local	Minimal	Utah GS, BRAG, City

CACHE COUNTY - COMMUNITY MITIGATION STRATEGIES

Protecting Future Residents and Property

Jurisdiction	Hazard	Goal	Action	Action (For NFIP Compliance, if Applicable)	Priority (High, Medium, Low)	Time-frame (Year)	Potential Funding Sources	Estimated Cost	Resources
Bear River Region	All	Protect future residents and property	County-wide emergency preparedness fair	N/A	High	2010	Counties, BRAG	Minimal	BRAG, Counties, Be Ready Utah, Utah DESHS, local communities, Utah FFSL, GOPB, LEPC's, local HAM radio groups, UGS, NRCS (snow), National Weather Service, LDS Bishops Storehouse, Food Bank
Bear River Region	Severe Weather	Protect future residents and property	Discuss planning needs on the county and city levels to coordinate land use regulations regarding development in flood, landslide, and wildfire hazard areas and Severe Weather events and response. This would be intended to prevent damages from extreme weather trigger events and incorporate severe weather into current response plans.	N/A	Medium	2011	Counties, Municipalities, BRAG	Minimal	Counties, Municipalities, BRAG, Utah ESHS, Army Corps., Be Ready Utah, FFSL, LEPC, NOAA, NRCS
Bear River Region	Agricultural	Protect future residents and property	Encourage crop diversity, weed and pest management, and coordination with local, State, and Federal agencies on agricultural land management and production.	N/A	Medium	2011	Utah Department of Agriculture and Food, USDA, USU Extension, USFS, BLM,	Minimal	Utah Department of Agriculture and Food, USDA, USU Extension, USFS, BLM,

Bear River Region	Agricultural	Protect future residents and property	Work with various agencies to plan for and mitigate economic losses associated with stock loss due to disease.	N/A	Medium	2011	Utah Department of Agriculture and Food, USDA, USU Extension	minimal	Utah Department of Agriculture and Food, USDA, USU Extension, US Food and Drug Administration, Center for Disease Control
Bear River Region	Agricultural	Protect future residents and property	Prepare an Emergency Services Function for County Emergency Operations Plans	N/A	Low	2013	Local	Minimal	Local
Bear River Region	Agricultural	Protect future residents and property	Educate residents on crop insurance program, alternative planting and CRP programs, value of agriculture, pest control, crop diversity, urban tree planting guidelines, etc.	N/A	Medium	2011	State, Local, USDA	Minimal	State, Local, USDA
Bear River Region	Drought	Protect future residents and property	Discuss purchasing agricultural water rights for culinary water on a county and local level	N/A	High	2011	County, Local	Minimal	County, Local
Bear River Region	Drought	Protect future residents and property	Explore possibility of water wise landscaping ordinances, and encourage water conservation for all land uses.	N/A	High	2010	Counties, Municipalities, BRAG	minimal	Counties, Municipalities, BRAG, USU Extension, NRCS, Utah League of Cities and Towns, Utah DEQ, USDA, Utah Agriculture and Food, Utah APA
Bear River Region	Drought	Protect future residents and property	Study feasibility of increasing current water storage capabilities	N/A	Low	2013	Utah ESHS, BRAG	Minimal	Utah ESHS, BRAG
Bear River Region	Drought	Protect future residents and property	Encourage water conservation techniques for all land uses.	N/A	High	2011	Utah DEQ, USDA, Utah Agriculture and Food, Utah APA	minimal	Utah DEQ, USDA, Utah Agriculture and Food, Utah APA
Bear River Region	Earthquake	Protect future residents and property	Update geologic hazards data in the local General Plans and ordinances with new data available from the Utah Geologic Survey and the US Geological Survey	N/A	High	2011	Local, BRAG	Minimal	Local, BRAG, County, UGS, USGS, Utah ESHS
All Bear River Region jurisdictions that do not participate in NFIP	Flood	Protect future residents and property	Talk with the Utah ESHS about the benefits of the NFIP program and consider joining so residents can purchase flood insurance.	Talk with the Utah ESHS about the benefits of the NFIP program and consider joining so residents can purchase flood insurance.	High	2010	Local	Minimal	Utah ESHS, Local, FEMA
Cache County	Dam Failure	Protect future residents and property	Notification system adequate to implement the emergency plans already developed with the FERC license process	N/A	Medium	2010	County	Minimal	County, FERC, State
Cache County	Earthquake	Protect future residents and property	Avoid placing new developments at risk from geologic hazards, develop land-use ordinances that require site specific geo-technical studies prior to development in areas of high risk for earthquakes, especially for critical or high-occupancy buildings	N/A	High	2010	County, FEMA, State	Minimal	USGS, UGS, BRAG, Utah League of Cities & Towns, APA
Cache County	Earthquake	Protect future residents and property	Promote earthquake safety and preparedness	N/A	High	2010	Cache County E.M.	Minimal	Cache County E.M., USGS, UGS
Cache County	Severe Weather	Protect future residents and property	Encourage avalanche preparedness for back country users	N/A	Medium	2010	Local, FEMA, State	Minimal	Local, FEMA, State
Cache County	Flood	Protect future residents and property	Coordinate community planning in unincorporated areas where future development may encroach 100-year floodplain	Coordinate community planning in unincorporated areas where future development may encroach 100-year floodplain	Medium	2010	County	Minimal	County Planning, BRAG
Cache County	Flood	Protect future residents and property	Analyze and model canals to determine deficiencies related to present and future demands (taking into account projected storm water increases based on projected development.	N/A	Medium	2011	Local, FEMA	\$100,000+	Private Consultant

Cache County	Flood	Protect future residents and property	Work toward requiring all new development to accommodate its own storm water discharge on-site. Develop ordinances and standards that require new development be designed to do on-site storm water retention.	Work toward requiring all new development to accommodate its own storm water discharge on-site. Develop ordinances and standards that require new development be designed to do on-site storm water retention.	Medium	2010	Local, FEMA, EPA	Minimal	BRAG, EPA, FEMA, Utah ESHS, Utah APA and ASLA
Cache County	Landslide	Protect future residents and property	Require geotechnical report for all potential building sites located in high risk areas	N/A	Medium	2011	County	Minimal	County Planning, UGS, USGS, APA
Cache County	Wildfire	Protect future residents and property	Coordinate w/county planning to update land-use ordinances for construction along WUI	N/A	Medium	2010	County, BRAG	Minimal	County Planning, County Fire District, County Emergency Management
Amalga	Flood	Protect future residents and property	Encourage the use of floodplains for parks, trails, and other recreational uses.	Encourage the use of floodplains for parks, trails, and other recreational uses.	Medium	2010	Local	Minimal	Local, County, BRAG, FEMA, Utah APA, Utah ASLA
Amalga	Earthquake	Protect future residents and property	Avoid placing new development at risk from geologic hazards and develop land-use ordinances that require site specific geo-technical studies prior to development in areas of high risk for earthquakes, and disclosure of current properties with potential geologic hazards.	N/A	High	2010	County, FEMA, State	Minimal	USGS, Utah GS, BRAG, Utah League of Cities & Towns, APA
Clarkston	Flood	Protect future residents and property	Encourage the use of floodplains for parks, trails, and other recreational uses.	Encourage the use of floodplains for parks, trails, and other recreational uses.	Medium	2010	Local	Minimal	Local, County, BRAG, FEMA, Utah APA, Utah ASLA
Cornish	Earthquake	Protect future residents and property	Avoid placing new development at risk from geologic hazards and develop land-use ordinances that require site specific geo-technical studies prior to development in areas of high risk for earthquakes, and disclosure of current properties with potential geologic hazards.	N/A	High	2010	County, FEMA, State	Minimal	USGS, Utah GS, BRAG, Utah League of Cities & Towns, APA
Hyde Park	Earthquake	Protect future residents and property	Avoid placing new development at risk from geologic hazards and develop land-use ordinances that require site specific geo-technical studies prior to development in areas of high risk for earthquakes, and disclosure of current properties with potential geologic hazards.	N/A	High	2010	County, FEMA, State	Minimal	USGS, Utah GS, BRAG, Utah League of Cities & Towns, APA
Hyde Park	Flood	Protect future residents and property	Encourage the use of floodplains for parks, trails, and other recreational uses.	Encourage the use of floodplains for parks, trails, and other recreational uses.	Medium	2010	Local	Minimal	Local, County, BRAG, FEMA, Utah APA, Utah ASLA
Hyde Park	Wildfire	Protect future residents and property	Talk with local and state wildfire specialists regarding the wild land-urban interface, and requiring new structures to have sprinklers and defensible space.	N/A	High	2010	Local, State FFSL	Minimal	Local, State FFSL, BRAG
Hyrum	Flood	Protect future residents and property	Require homes to be built one foot above base flood elevation	Require homes to be built one foot above base flood elevation	Low	2009		Minimal	
Hyrum	Earthquake-faults	Protect future residents and property	Require engineering study and recommendation on new construction with high risk	N/A	Medium	2010	Builder	Minimal	
Hyrum	Wildfire	Protect future residents and property	Require fuel reduction zone around homes and/or sprinkler system. Upgrade fire equipment, training, and facilities (fire station)	N/A	High	2011	CIB-City	\$1,500,000	
Hyrum	Landslide	Protect future residents and property	Require engineering stability studies for lots on a slope greater than 20 percent	N/A	Low	2010	Applicant	Minimal	
Hyrum	Dam Failure	Protect future residents and property	Review agency reports regarding conditions of the dams	N/A	Medium	2011	City Budget	Minimal	
Lewiston	Flood	Protect future residents and property	Encourage the use of floodplains for parks, trails, and other recreational uses.	Encourage the use of floodplains for parks, trails, and other recreational uses.	Medium	2010	Local	Minimal	Local, County, BRAG, FEMA, Utah APA, Utah ASLA

Lewiston	Earthquake	Protect future residents and property	Avoid placing new development at risk from geologic hazards and develop land-use ordinances that require site specific geo-technical studies prior to development in areas of high risk for earthquakes, and disclosure of current properties with potential geologic hazards.	N/A	High	2010	County, FEMA, State	Minimal	USGS, Utah GS, BRAG, Utah League of Cities & Towns, APA
Logan	Wildfire	Protect future residents and property	Develop education program for home owners regarding risk and defensible space	N/A	High	2010	Federal, State, Local	\$5,000	Utah FFSL
Logan	Flood	Protect future residents and property	CERT program, continuing education, training on sandbags. Park Ave. and 1000 W. flood protection project, bridge replacement on Park Ave (600 W.)	CERT program, continuing education, training on sandbags. Park Ave. and 1000 W. flood protection project, bridge replacement on Park Ave (600 W.)	Medium-high	2010	State UDOT, ESHS, City Capitol Improvements	TBD	UDOT, ESHS, Logan City
Logan	Flood	Protect future residents and property	Inventory and assess flooding vulnerability problem areas related to existing canals as well as diversion structures and transportation infrastructure. Inventory main flow areas.	Inventory and assess flooding vulnerability problem areas related to existing canals as well as diversion structures and transportation infrastructure. Inventory main flow areas.	High	2012	City, FEMA, Army Corps	TBD	City, FEMA, Army Corps, State ESHS, Canal Companies, UDOT
Logan	Landslide	Protect future residents and property	Public education, watering practices on high susc. Areas, reseed and revegetate after wildfire on east benches, Dry Canyon disaster response plan for landslides (debris flow), cleaning plan	N/A	High	2010	City, private firm	TBD	City, private firm, Army Corps., Division of NR, USFS
Logan	Dam Failure	Protect future residents and property	Public education, evacuation plan, emergency response	N/A	medium	2010	City, USU	minimal	Army Corps, Bureau of Rec., City
Logan	Power Failure	Protect future residents and property	Install backup generator at fire station	N/A	High	2009	Local, FEMA	\$10,000	FEMA, CDBG
Logan	Earthquake	Protect future residents and property	Seismic retrofit of Logan City Service Center	N/A	High	2012	FEMA, City	\$3,000,000	
Logan	Earthquake	Protect future residents and property	Build a 1 million gallon culinary water reservoir and another pump station to supply Cliffside area with water. Build a pump station to serve Castle Hills area of Logan.	N/A	High	2011	Local	\$3,450,000	Local
Logan	Earthquake	Protect future residents and property	Replace water line from 700 N. 800 E. to 400 N. 700 E. with 18" ductile pipe to prevent rupture in the event of an earthquake	N/A	High	2011	Local	\$607,000	Local
Mendon	Flood	Protect future residents and property	Update floodplain data and improve storm water drains	Update floodplain data and improve storm water drains	High	2012	FEMA, State	\$3,200,000	FEMA, State, County
Mendon	Earthquake	Protect future residents and property	Improve building codes and ordinances	N/A	High	2012	FEMA, State	Unknown	FEMA, State, County
Mendon	Liquefaction	Protect future residents and property	Develop/research effects to Mendon, ask USU to perform study of effects	N/A	Medium	2015	FEMA, State, County	Unknown	USU
Mendon	Drought	Protect future residents and property	Understand effects to Mendon, ask USU for study of effects	N/A	Low	2020	Federal, State, Local	Unknown	USU
Mendon	Severe Weather	Protect future residents and property	Develop plan to reduce threats to community	N/A	High	2015	FEMA, State, County	Unknown	FEMA, State, County
Mendon	Wildfire	Protect future residents and property	Update community wildfire protection plan, educate community	N/A	Medium	2011	FEMA, State, County	Unknown	FEMA, State, County

Millville	Earthquake	Protect future residents and property	Avoid placing new development at risk from geologic hazards and develop land-use ordinances that require site specific geo-technical studies prior to development in areas of high risk for earthquakes, and disclosure of current properties with potential geologic hazards.	N/A	High	2010	County, FEMA, State	Minimal	USGS, Utah GS, BRAG, Utah League of Cities & Towns, APA
Millville	Flood	Protect future residents and property	Identify potential areas for development that are in flood prone areas.	Identify potential areas for development that are in flood prone areas.	High	2013	Local	Minimal	County, local, FEMA, State ESHS
Millville	Severe Weather	Protect future residents and property	Add public notice area to local web site.	N/A	High	2013	Local	\$500	Local, County, Be Ready Utah, State ESHS
Millville	Wildfire	Protect future residents and property	Talk with local and state wildfire specialists regarding the wild land-urban interface, and requiring new structures to have sprinklers and defensible space.	N/A	High	2010	Local, State FFSL	Minimal	Local, State FFSL, BRAG
Newton	Flood	Protect future residents and property	Encourage the use of floodplains for parks, trails, and other recreational uses.	Encourage the use of floodplains for parks, trails, and other recreational uses.	Medium	2010	Local	Minimal	Local, County, BRAG, FEMA, Utah APA, Utah ASLA
Newton	Earthquake	Protect future residents and property	Avoid placing new development at risk from geologic hazards and develop land-use ordinances that require site specific geo-technical studies prior to development in areas of high risk for earthquakes, and disclosure of current properties with potential geologic hazards.	N/A	High	2010	County, FEMA, State	Minimal	USGS, Utah GS, BRAG, Utah League of Cities & Towns, APA
Nibley	Landslide	Protect future residents and property	Require geotechnical report for all potential building sites located in high risk areas	N/A	Medium	2011	County	Minimal	County Planning, UGS, USGS, APA
Nibley	Flood	Protect future residents and property	Encourage the use of floodplains for parks, trails, and other recreational uses.	Encourage the use of floodplains for parks, trails, and other recreational uses.	Medium	2010	Local	Minimal	Local, County, BRAG, FEMA, Utah APA, Utah ASLA
Nibley	Earthquake	Protect future residents and property	Avoid placing new development at risk from geologic hazards and develop land-use ordinances that require site specific geo-technical studies prior to development in areas of high risk for earthquakes, and disclosure of current properties with potential geologic hazards.	N/A	High	2010	County, FEMA, State	Minimal	USGS, Utah GS, BRAG, Utah League of Cities & Towns, APA
North Logan	Earthquake	Protect future residents and property	Avoid placing new development at risk from geologic hazards and develop land-use ordinances that require site specific geo-technical studies prior to development in areas of high risk for earthquakes, and disclosure of current properties with potential geologic hazards.	N/A	High	2010	County, FEMA, State	Minimal	USGS, Utah GS, BRAG, Utah League of Cities & Towns, APA
North Logan	Flood	Protect future residents and property	Encourage the use of floodplains for parks, trails, and other recreational uses.	Encourage the use of floodplains for parks, trails, and other recreational uses.	Medium	2010	Local	Minimal	Local, County, BRAG, FEMA, Utah APA, Utah ASLA
North Logan	Wildfire	Protect future residents and property	Talk with local and state wildfire specialists regarding the wild land-urban interface, and requiring new structures to have sprinklers and defensible space.	N/A	High	2010	Local, State FFSL	Minimal	Local, State FFSL, BRAG
Paradise	Dam Failure	Protect future residents and property	Work with the Utah Division of Water Rights and other groups to utilize Emergency Action Plans on a local level.	N/A	Low	2010	Utah Division of Water Rights, Local	Minimal	Utah Division of Water Rights, Local
Paradise	Flood	Protect future residents and property	Encourage the use of floodplains for parks, trails, and other recreational uses.	Encourage the use of floodplains for parks, trails, and other recreational uses.	Medium	2010	Local	Minimal	Local, County, BRAG, FEMA, Utah APA, Utah ASLA
Providence	Earthquake	Protect future residents and property	Building regulations, new development regulations, planning procedures to identify faults during development, introduce education routes and procedures (plat notices)	N/A	Medium	2015	Federal, State, Local	\$25,000	USGS
Providence	Wildfire	Protect future residents and property	Building regulations, ordinance modifications to make new growth comply to urban interface landscape and design, adopt education routes and procedures (plat notices)	N/A	Medium	2015	Forest Service, County Fire	Minimal	Local
Providence	Landslide	Protect future residents and property	Education, building and development regulations, planning procedures to identify risk areas for new development and buildings	N/A	Medium	2015	Federal, State, Local	\$10,000	USGS

Providence	Drought	Protect future residents and property	Develop secondary water system	N/A	Low/Medium	2015	Local, Consultant	TBD	Local, Consultant
Providence	Severe Weather	Protect future residents and property	Encourage emergency preparedness, work with local churches to aid in preparation	N/A	Medium	2015	Local, County	\$10,000	Local, County
Richmond	Flood	Protect future residents and property	Encourage the use of floodplains for parks, trails, and other recreational uses.	Encourage the use of floodplains for parks, trails, and other recreational uses.	Medium	2010	Local	Minimal	Local, County, BRAG, FEMA, Utah APA, Utah ASLA
Richmond	Wildfire	Protect future residents and property	Talk with local and state wildfire specialists regarding the wild land-urban interface, and requiring new structures to have sprinklers and defensible space.	N/A	High	2010	Local, State FFSL	Minimal	Local, State FFSL, BRAG
River Heights	Wildfire	Protect future residents and property	Maintain fire hydrants, protect water supply for adequate fire fighting (shut off pumps), reduce fire hazards through city ordinances	N/A	High	2008	City general fund	TBD	Local, Utah FFSL, County
River Heights	Earthquake	Protect future residents and property	New building codes, develop EOP, new water lines (avoid breakage), neighborhood block captains/area specialists, CERT training, disaster assistance flags	N/A	Medium	Ongoing	City general fund	TBD	Local, County EOC
River Heights	Dam Failure	Protect future residents and property	Work with the Utah Division of Water Rights and other groups to utilize Emergency Action Plans on a local level.	N/A	Low	2010	Utah Division of Water Rights, Local	Minimal	Utah Division of Water Rights, Local
Smithfield	Flood	Protect future residents and property	Storm water plan for east bench	Storm water plan for east bench	Medium	2010	Utah ESHS, US ACOE, Utah DWR, Local	TBD	Utah ESHS, US ACOE, Utah DWR, Local, Consultant
Smithfield	Earthquake	Protect future residents and property	Avoid placing new development at risk from geologic hazards and develop land-use ordinances that require site specific geo-technical studies prior to development in areas of high risk for earthquakes, and disclosure of current properties with potential geologic hazards.	N/A	High	2010	County, FEMA, State	Minimal	USGS, Utah GS, BRAG, Utah League of Cities & Towns, APA
Smithfield	Landslide	Protect future residents and property	Require geotechnical report for all potential building sites located in high risk areas	N/A	Medium	2011	County	Minimal	County Planning, UGS, USGS, APA
Trenton	Earthquake	Protect future residents and property	Avoid placing new development at risk from geologic hazards and develop land-use ordinances that require site specific geo-technical studies prior to development in areas of high risk for earthquakes, and disclosure of current properties with potential geologic hazards.	N/A	High	2010	County, FEMA, State	Minimal	USGS, Utah GS, BRAG, Utah League of Cities & Towns, APA
Trenton	Landslide	Protect future residents and property	Require geotechnical report for all potential building sites located in high risk areas	N/A	Medium	2011	County	Minimal	County Planning, UGS, USGS, APA
Trenton	Wildfire	Protect future residents and property	Talk with local and state wildfire specialists regarding the wild land-urban interface, and requiring new structures to have sprinklers and defensible space.	N/A	High	2010	Local, State FFSL	Minimal	Local, State FFSL, BRAG
Wellsville	Dam Failure	Protect future residents and property	Work with the Utah Division of Water Rights and other groups to utilize Emergency Action Plans on a local level.	N/A	Low	2010	Utah Division of Water Rights, Local	Minimal	Utah Division of Water Rights, Local
Wellsville	Flood	Protect future residents and property	Dialogue and disclosure of floodplain	Dialogue and disclosure of floodplain	High	2010	Local, FEMA	Minimal	State, DHS, FEMA
Wellsville	Wildfire	Protect future residents and property	Identify wildfire hazards w/ FFSL	N/A	Medium	2010	FFSL	Minimal	FFSL, BRAG, UDESHS
Wellsville	Landslide	Protect future residents and property	Explore possibility of landslide element in geological hazard ordinance	N/A	Medium	2010	Local	Minimal	Utah GS, BRAG, City
Wellsville	Earthquake	Protect future residents and property	Talk w/state about geologic hazards	N/A	Medium	2010	Local	Minimal	Utah GS, BRAG, City