

**APPENDIX D - LOCAL MITIGATION STRATEGY  
SURVEY AND COMMUNITY SUMMARIES**

# PRE-DISASTER MITIGATION PLAN UPDATE

## RISK ASSESSMENT

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**PLEASE COMPLETE AND RETURN TO TOOELE COUNTY**

**(Mail: 15 East 100 South, Tooele, Utah 84074, Email: [bucky@tcm.org](mailto:bucky@tcm.org),  
or FAX: (435) 882-9947 - Attention: Bucky Whitehouse)**

Jurisdiction Name: \_\_\_\_\_ Completed by: \_\_\_\_\_  
Address: \_\_\_\_\_ Phone: \_\_\_\_\_ Email: \_\_\_\_\_

1. Does your community participate in the National Flood Insurance Program (NFIP)?

Yes \_\_\_\_\_ No \_\_\_\_\_ Don't Know \_\_\_\_\_

2. What existing or potential Natural Hazards threaten your community? (ex. drought, earthquake, flooding, landslide, wildfire, dam failure, soil subsidence etc):

3. Have there been Natural Hazard events in your community since December 2008? If so, please describe the event(s), the severity of the event(s) (damage or intensity), and the date, if known:

4. Do you have any maps, documents, or plans related to natural hazards for your community? Please describe:

5. Please list any "critical facilities" that exist in your city/town. These critical facilities could include hospitals, schools, fire stations, water treatment plants, or other facilities that help to protect citizens.

6. Does your city/town currently have zoning or ordinances that address natural hazards and/or regulate construction in potentially hazardous areas?

Yes \_\_\_\_\_ No \_\_\_\_\_ Don't Know \_\_\_\_\_

# PRE-DISASTER MITIGATION PLAN UPDATE RISK ASSESSMENT

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7. Please check (or circle) all the hazards below that you would like to have more extensive/robust analysis to help develop future mitigation strategies.

- |                                       |   |
|---------------------------------------|---|
| <input type="checkbox"/> Agricultural | <input type="checkbox"/> Problem Soils and Rock |
| <input type="checkbox"/> Avalanche    | <input type="checkbox"/> Radon                  |
| <input type="checkbox"/> Dam Failure  | <input type="checkbox"/> Severe Weather         |
| <input type="checkbox"/> Drought      | <input type="checkbox"/> Subsidence             |
| <input type="checkbox"/> Earthquake   | <input type="checkbox"/> Tornado                |
| <input type="checkbox"/> Erosion      | <input type="checkbox"/> Tsunami                |
| <input type="checkbox"/> Flood        | <input type="checkbox"/> Volcanic               |
| <input type="checkbox"/> Hail         | <input type="checkbox"/> Wildfire               |
| <input type="checkbox"/> Landslide    | <input type="checkbox"/> Others: _____          |
|                                       | _____   |

8. Please check (or circle) all the hazards below where you have experience or expertise that you or someone in your agency can contribute to the risk assessment analysis.

- |                                       |   |
|---------------------------------------|---|
| <input type="checkbox"/> Agricultural | <input type="checkbox"/> Problem Soils and Rock |
| <input type="checkbox"/> Avalanche    | <input type="checkbox"/> Radon                  |
| <input type="checkbox"/> Dam Failure  | <input type="checkbox"/> Severe Weather         |
| <input type="checkbox"/> Drought      | <input type="checkbox"/> Subsidence             |
| <input type="checkbox"/> Earthquake   | <input type="checkbox"/> Tornado                |
| <input type="checkbox"/> Erosion      | <input type="checkbox"/> Tsunami                |
| <input type="checkbox"/> Flood        | <input type="checkbox"/> Volcanic               |
| <input type="checkbox"/> Hail         | <input type="checkbox"/> Wildfire               |
| <input type="checkbox"/> Landslide    | <input type="checkbox"/> Other _____            |
|                                       | _____   |

Risk Assessment Survey: Tooele PDMP Update 2015-16											
Respondent Information		Survey Questions									
Jurisdiction Name	Completed By	1	2	3	4	5	6	7		8	
Grantsville City	Kevin Turner	Don't Know	Drought	Flooding-Homes, roads, fields (5yrs ago)	City Emergency Plan book w/maps & plans	UDOT Station	Yes	Agricultural	Problem Soils	Agricultural	Problem Soils
			Earthquake	Wildfires		City Hall		Avalanche	Radon	Avalanche	Radon
			Flooding			Schools		Dam Failure	Severe Weather-Winter Storms	Dam Failure	Severe Weather
			Soil Subsidence			Fire Station		Drought	Subsidence	Drought	Subsidence
			Wildfire			Water Treatment Plant		Earthquake	Tornado	Earthquake	Tornado
			Wind			Water Sources		Erosion	Tsunami	Erosion	Tsunami
			Lightening			Water Storage Tanks & Wells		Flood	Volcanic	Flood	Volcanic
						Senior Center		Hail	Wildfire	Hail	Wildfire
						Medical Office		Landslide	Other: Wind, Lightening(fir es)	Landslide	Other:
						Retirement Home					
						Day Care Centers					
						Police Station					
Ophir	Scott Degelbeck	No	Flooding, wildfire, lanslide	High water runoff 5 years ago. Controlled with sandbags and cleaning debris from creekbed	Have map showing hazard zones and land use codes.	Fire Station	Yes	Agricultural	Problem Soils	Agricultural	Problem Soils
						Need training		Avalanche	Radon	Avalanche	Radon
						Need water storage		Dam Failure	Severe Weather	Dam Failure	Severe Weather
						Need evacuation plan		Drought	Subsidence	Drought	Subsidence
								Earthquake	Tornado	Earthquake	Tornado
								Erosion	Tsunami	Erosion	Tsunami
								Flood	Volcanic	Flood	Volcanic
								Hail	Wildfire	Hail	Wildfire
								Landslide	Other:	Landslide	Other:
Stockton	David Durtschi	don't know	Drought, earthquake, landslide, wildfire, soil subsidence, interruption of water supply	water flow stopped by mudslide...v ery severe	no	Fire station, town hall	yes	Agricultural	Problem Soils	Agricultural	Problem Soils

Risk Assessment Survey: Tooele PDMP Update 2015-16											
Respondent Information		Survey Questions									
Jurisdiction Name	Completed By	1	2	3	4	5	6	7		8	
	M Whitney	Don't Know	drought, earthquake, flooding, wildfire	flood, fire, low water/drought	no	water intake, water treatment, deep water well, fire dept.	no	Avalanche	Radon	Avalanche	Radon
	Mary Edwards	don't know	Wildfires, earthquakes, drought	Fire-extensive	no	water plant, town hall, fire station	don't know	Dam Failure	Severe Weather	Dam Failure	Severe Weather
	George B. Carter	Don't know	wildfire	not known	not at this time	fire station, water treatment plant	don't know	Drought	Subsidence	Drought	Subsidence
	Kendall Thomas	yes	drought, earthquake, flooding, wildfire	wild fire	don't know	fire station, water treatment plant	don't know	Earthquake	Tornado	Earthquake	Tornado
								Erosion	Tsunami	Erosion	Tsunami
								Flood	Volcanic	Flood	Volcanic
								Hail	Wildfire	Hail	Wildfire
								Landslide	Other:	Landslide	Other: Water Quality
Tooele City	Rachelle Custer	Yes	All of the listed	none	FEMA floodplain maps, state geologic maps, City storm drain plan, Settlement Canyon Map, Tooele County Middle Canyon Flood Plain, Flood Plan	hospitals, schools	yes: sensitive area/hillside development; Flood Plain Development	Agricultural	Problem Soils	Agricultural	Problem Soils
	Dave McCall					City Hall, Health Dept.		Avalanche	Radon	Avalanche	Radon
						Stansbury Medical Care Facility		Dam Failure	Severe Weather	Dam Failure	Severe Weather-wind
						2 medical care facilities		Drought	Subsidence	Drought-water data	Subsidence
						County Jail, EOC		Earthquake	Tornado	Earthquake	Tornado
						water reclamation plant, Culinary water facilities		Erosion-Drainage Channels	Tsunami	Erosion	Tsunami
						churches, fire stations		Flood	Volcanic	Flood-Master Plan	Volcanic
								Hail	Wildfire	Hail	Wildfire
								Landslide	Other: Industrial Depot	Landslide	Other:

Risk Assessment Survey: Tooele PDMP Update 2015-16											
Respondent Information		Survey Questions									
Jurisdiction Name	Completed By	1	2	3	4	5	6	7		8	
Vernon	Rodney R. Manzione	Don't Know	Drought, earthquake, Flood, wildfire, dam failure, landslide	drought, weather, fire	unknown	fire station, water storage, church, school	yes, flood zone	Agricultural	Problem Soils	Agricultural	Problem Soils
	Bruce Thomas (Mayor)	No	Wildfire, Dam Failure, Earthquake	no	no	water company	yes	Avalanche	Radon	Avalanche	Radon
	John Olson	no	Drought, Earthquake, Wildfires, Highway spill of harmful substance	drought	none	church	yes	Dam Failure	Severe Weather	Dam Failure	Severe Weather
								Drought	Subsidence	Drought	Subsidence
								Earthquake	Tornado	Earthquake	Tornado
								Erosion	Tsunami	Erosion	Tsunami
								Flood	Volcanic	Flood	Volcanic
								Hail	Wildfire	Hail	Wildfire
								Landslide	Other:HWY Hazmat	Landslide	Other:
Wendover	Mike Crawford	yes	flooding, drought, rail, highway	aug. 2014- flash flooding	Emergency rescue plan, flood maps	community center, schools	yes	Agricultural	Problem Soils	Agricultural	Problem Soils
	Karen Shepherd	yes	earthquakes, landslide	Severe weather-washed out roads	Currently working on updating master plan	lds church, 2 schools, community building	don't know	Avalanche	Radon	Avalanche	Radon
	D.B. Sweat	yes	drought, earthquake, flooding, wildfire, technological, soil	floods-damage to roads and personal property	no	Elementary School, high school, fire station, sewer treatment	yes	Dam Failure	Severe Weather	Dam Failure	Severe Weather
	Steve Wallace	don't know	?	?				Drought	Subsidence	Drought	Subsidence
								Earthquake	Tornado	Earthquake	Tornado
								Erosion	Tsunami	Erosion	Tsunami
								Flood	Volcanic	Flood	Volcanic
								Hail	Wildfire	Hail	Wildfire
								Landslide	Other: Hazmat along interstate/rail road pollution, and distant water sources	Landslide	Other: nuclear, chemical, and biological incidence
Tooele County	Jerry Houghton	yes	Drought	2011-Floods, south Willow	don't know	hospitals, schools,	no	Agricultural	Problem Soils	Agricultural-Grass Hopper/Cricket	Problem Soils
	Wade Bitner		earthquake	2014-Anaconda Fire	working towards C.W.P.P. in surrounding communities	fire stations, water treatment plants	don't know	Avalanche	Radon	Avalanche	Radon
	Tom Wilson (FFSL)		Wildfire	Wildfire		army depot north & South		Dam Failure	Severe Weather	Dam Failure	Severe Weather
			Flooding	Hail storm (2-3")		Aragonite	yes, WUI Code	Drought	Subsidence	Drought	Subsidence

Risk Assessment Survey: Tooele PDMP Update 2015-16											
Respondent Information		Survey Questions									
Jurisdiction Name	Completed By	1	2	3	4	5	6	7		8	
			soils	patch Springs fire 2013,		Clean Harbours,	for any new building in	Earthquake	Tornado	Earthquake	Tornado
			water table	Stockton Fire 2014		Magnesium Corp	unincorporated county area	Erosion	Tsunami	Erosion	Tsunami
			landslide			Walmart Distribution		Flood	Volcanic	Flood	Volcanic
			dam failure					Hail	Wildfire	Hail	Wildfire
	Gordon Stewart	Don't know	drought			hospitals, clinics	yes	Landslide	Other:water storage	Landslide	Other: Pipeline Upgrade
Stansbury Park	Brett Palmer	no	Drought	no	Yes, infrastrucutre water, sewer, storm drainage	1 high school,	no	Agricultural	Problem Soils	Agricultural	Problem Soils
			Flooding			2 elementary schools,		Avalanche	Radon	Avalanche	Radon
			earthquake			1 Fire Station,		Dam Failure	Severe Weather	Dam Failure	Severe Weather
						3 Community Buildings,		Drought	Subsidence	Drought	Subsidence
						2 water storage tanks,		Earthquake	Tornado	Earthquake	Tornado
						6 wells & buildings,		Erosion	Tsunami	Erosion	Tsunami
						Sewer treatment plant		Flood	Volcanic	Flood	Volcanic
								Hail	Wildfire	Hail	Wildfire
								Landslide	Other:	Landslide	Other:
Tooele County Health Dept.	J. Coombs	Don't Know	Drought	Flooding	no	hospitals, schools,	N/A	Agricultural	Problem Soils	Agricultural	Problem Soils
			Earthquake	Wind Damage		fire stations		Avalanche	Radon	Avalanche	Radon
			Winds			water treatment plant		Dam Failure	Severe Weather	Dam Failure	Severe Weather
			Wildfire					Drought	Subsidence	Drought	Subsidence
			Flooding					Earthquake	Tornado	Earthquake	Tornado
								Erosion	Tsunami	Erosion	Tsunami
								Flood	Volcanic	Flood	Volcanic
								Hail	Wildfire	Hail	Wildfire
								Landslide	Other:	Landslide	Other:
National Weather Service	Kevin Barjenbra ch	N/A	N/A	N/A	N/A	N/A	N/A	Agricultural	Problem Soils	Agricultural	Problem Soils
Weather Forecast Office								Avalanche	Radon	Avalanche	Radon
Salt Lake City, Utah								Dam Failure	Severe Weather	Dam Failure	Severe Weather
								Drought	Subsidence	Drought	Subsidence
								Earthquake	Tornado	Earthquake	Tornado
								Erosion	Tsunami	Erosion	Tsunami
								Flood	Volcanic	Flood	Volcanic
								Hail	Wildfire	Hail	Wildfire

Risk Assessment Survey: Tooele PDMP Update 2015-16											
Respondent Information		Survey Questions									
Jurisdiction Name	Completed By	1	2	3	4	5	6	7		8	
								Landslide	Other: Winter Storms, Debris Flows, Winds, Thunderstorm	Landslide	Other: Winter Storms, Debris Flows, Winds, Thunderstorm
North Tooele County Fire	Randy Willden	yes	drought, Earthquake	Flood Canyon Fire 2 yrs 2012-2013 anaconda fire 2014	minimal	Fire Stations, schools, churches, can provide lists	Tooele County	Agricultural	Problem Soils	Agricultural	Problem Soils
			flooding					Avalanche	Radon	Avalanche	Radon
			Landslide					Dam Failure	Severe Weather	Dam Failure	Severe Weather
			wildfire					Drought	Subsidence	Drought	Subsidence
			dam failure					Earthquake	Tornado	Earthquake	Tornado
								Erosion	Tsunami	Erosion	Tsunami
								Flood	Volcanic	Flood	Volcanic
								Hail	Wildfire	Hail	Wildfire
								Landslide	Other:	Landslide	Other:
USU Tooele	Donna Dillinaham-Evans	don't know	Drought, Flood, Dam Failure		no	USU Campus	don't know	Agricultural	Problem Soils	Agricultural	Problem Soils
						Tooele BLVD		Avalanche	Radon	Avalanche	Radon
						TATC-		Dam Failure	Severe Weather	Dam Failure	Severe Weather
						Health DEPT.		Drought	Subsidence	Drought	Subsidence
						Fire Dept.		Earthquake	Tornado	Earthquake	Tornado
						CCC building		Erosion	Tsunami	Erosion	Tsunami
						School District		Flood	Volcanic	Flood	Volcanic
								Hail	Wildfire	Hail	Wildfire
								Landslide	Other: Bio Hazards- Prevailing Winds	Landslide	Other: School Lab info
Terra	Gerry Neil	don't know	drought	wildland fire	none	fire stations	don't know	Agricultural	Problem Soils	Agricultural	Problem Soils
			flooding	floods				Avalanche	Radon	Avalanche	Radon
			landslide	erosion from burns				Dam Failure	Severe Weather	Dam Failure	Severe Weather
			wildfire					Drought	Subsidence	Drought	Subsidence
								Earthquake	Tornado	Earthquake	Tornado
								Erosion	Tsunami	Erosion	Tsunami
								Flood	Volcanic	Flood	Volcanic
								Hail	Wildfire	Hail	Wildfire
								Landslide	Other:	Landslide	Other:



2016 Tooele County Pre-Disaster Mitigation Plan – Community Survey

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**\*PLEASE COMPLETE AND RETURN TO BUCKY WHITEHOUSE BY FRIDAY, FEB. 19, 2016 @ 5:00 P.M.**

**Mail: Attn: Bucky Whitehouse, Tooele County EM, 15 East 100 South, Tooele, UT 84074**

**Email: [bucky@tcem.org](mailto:bucky@tcem.org) Fax: (435)333-3333**

**(PLEASE CONTACT BUCKY FOR HELP OR WITH QUESTIONS - OFFICE PHONE: 435.833.8121, CELL: 435.241.0220)**

Jurisdiction Name: \_\_\_\_\_ Completed by: \_\_\_\_\_

Address: \_\_\_\_\_ Phone: \_\_\_\_\_

Email: \_\_\_\_\_

**MITIGATION STRATEGIES SECTION**

1. Tooele County staff, with the assistance of County working groups, has been analyzing potential risks from natural hazards in your community. **THE FOLLOWING NATURAL HAZARDS HAVE BEEN IDENTIFIED AS A POTENTIAL RISK TO YOUR COMMUNITY (SEE CHECKED HAZARDS).** Please check any other hazards you are aware of in your community.

**Natural Hazards identified:**

- |   |   |
|---|---|
| <input type="checkbox"/> ■ FLOOD                                | <input type="checkbox"/> ■ SEVERE WEATHER (all jurisdictions, optional) |
| <input type="checkbox"/> ■ EARTHQUAKE                           | <input type="checkbox"/> ■ AVALANCHE                                    |
| <input type="checkbox"/> ○ FAULTS                               | <input type="checkbox"/> ■ TORNADO                                      |
| <input type="checkbox"/> ○ LIQUEFACTION                         | <input type="checkbox"/> ■ TSUNAMI                                      |
| <input type="checkbox"/> ■ WILDFIRE                             | <input type="checkbox"/> ■ VOLCANIC                                     |
| <input type="checkbox"/> ■ LANDSLIDES                           | <input type="checkbox"/> ■ RADON  |
| <input type="checkbox"/> ■ DAM FAILURE                          | <input type="checkbox"/> ■ STEEP SLOPES                                 |
| <input type="checkbox"/> ■ PROBLEM SOILS                        |   |
| <input type="checkbox"/> ■ DROUGHT(all jurisdictions, optional) |   |

2. \*Enclosed in this packet is a chart showing mitigation strategies for jurisdictions in your county from the 2008 Pre-Disaster Mitigation Plan. Please provide comments below regarding which strategies were implemented, those that were not implemented, and a brief explanation if they were not. You may also write comments/notes on the chart and mail it to Bucky with this survey.

2016 Tooele County Pre-Disaster Mitigation Plan – Community Survey

3. Below are blank mitigation strategy charts for you to fill in for each of the hazards highlighted above. Please enter the hazard in the first column, and fill in each of the following columns related to that hazard. **Each community must include a goal for protecting existing residents and property, and a goal for protecting future residents and property from each hazard.** If your community participates in the National Flood Insurance Program (NFIP), you must also include a separate action related to NFIP compliance for flood hazards. Also included in this packet is a copy of the document, “Mitigation Ideas,” written by the Federal Emergency Management Agency (FEMA) to assist you in creating mitigation strategies. Below is an example for your reference:

<b>HAZARD: <u>Wildfire</u></b>	
<b>GOAL 1: PROTECT <u>CURRENT</u> RESIDENTS AND PROPERTY</b>	
<b>Action</b>	<i>Update city ordinances to require defensive space and fire resistant vegetation surrounding homes located in wildland/urban interface.</i>
<b>Action (For NFIP Compliance, if Applicable)</b>	<i>N/A</i>
<b>Priority (High, Medium, or Low)</b>	<i>High</i>
<b>Timeframe (Year)</b>	<i>2017</i>
<b>Potential Funding Sources</b>	<i>City, Utah Dept. of Public Safety/FEMA</i>
<b>Estimated Cost</b>	<i>\$2,000</i>
<b>Resources</b>	<i>Utah FFSL, County</i>
<b>GOAL 2: PROTECT <u>FUTURE</u> RESIDENTS AND PROPERTY</b>	
<b>Action</b>	<i>Update city ordinances to require sprinklers in all new homes located in the wildland/urban interface.</i>
<b>Action (For NFIP Compliance, if Applicable)</b>	<i>N/A</i>
<b>Priority (High, Medium, or Low)</b>	<i>High</i>
<b>Timeframe (Year)</b>	<i>2018</i>
<b>Potential Funding Sources</b>	<i>City, Utah Dept. of Public Safety/FEMA</i>
<b>Estimated Cost</b>	<i>\$1,500</i>
<b>Resources</b>	<i>Utah FFSL, County</i>

<b>HAZARD: _____</b>	
<b>GOAL 1: PROTECT <u>CURRENT</u> RESIDENTS AND PROPERTY</b>	
<b>Action</b>	
<b>Action (For NFIP Compliance, if Applicable)</b>	
<b>Priority (High, Medium, or Low)</b>	

**MITIGATION STRATEGIES SURVEYS COMPLETED**

- Dugway
- Grantsville City
- Stockton
- Tooele City
- Tooele County
- Vernon Town

\*To see a list of mitigation strategies from each of the completed surveys, see each individual community risk assessment section.