

5.5 VERNON CITY

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3. Erosion
4. Flood
5. Wildfire

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5.5.5 Vernon City - Mitigation Strategies

RISK SUMMARY

- Dam Inundation
- Engineering Problem Soils
- Erosion
- Flood
- Wildfire



Aerial map of Vernon City.

5.5.2 VERNON CITY - FUTURE DEVELOPMENT RISK

FUTURE DEVELOPMENT RISK

New areas of development are planned for the east side of SR 36 of Vernon. These areas are susceptible to wildfire, drought and severe weather events.



HAZTYPE / ACRES

Engineering Problem Soils	2,347
Erosion	959
FEMA Flood Zone	217
Flood Dam Inundation	268
Flood USU Valley Bottom	233
Flood Wetland & Riparian	60
Wildfire Hazard Potential	3,962

VERNON CITY - RISK SUMMARY

<i>Hazard Type</i>	<i>Probability of Occurrence</i>	<i>Population Impact</i>	<i>Property Impact</i>	<i>Economic Impact</i>	<i>Future Development Impact</i>	<i>Overall Risk</i>
Dam Inundation	LOW	MODERATE	MODERATE	HIGH	LOW	LOW
Engineering Problem Soils	HIGH	LOW	MODERATE	MODERATE	MODERATE	MODERATE
Erosion	HIGH	LOW	HIGH	HIGH	MODERATE	HIGH
Flood	HIGH	MODERATE	HIGH	HIGH	MODERATE	HIGH
Wildfire	HIGH	HIGH	HIGH	HIGH	MODERATE	HIGH

5.5.3 VERNON CITY - HAZARDS

ENGINEERING PROBLEM SOILS 2,347 AC

Problem soils are located east and west of Main Street, parallel to to road. While these soils can be problematic for structures, they do not pose any imminent threats. Assets potentially impacted by problem soils include over 100 homes, 1 grocery store, 1 cemetery, 15 miles of roads, and many acres of agricultural land.



Problem Soils

EROSION 959 AC

There are bands of erosive soils for roads and trails running north to south in bands parallel to Main Street throughout town. While these bands could impact structures or infrastructure, they are not considered substantial threats. Assets potentially impacted by erosion include 1 grocery store, over 90 homes, over 11 miles of roads, hundreds of acres of farmland, and around 64,000 acres of grazing allotment land.



Erosive Soils (Roads and Trails)

FEMA_FLOOD_ZONE 217 AC

The FEMA flood zone in Vernon is located in the drainage southwest of town between Harker Road and Olson Lane. There is also a small area northeast of town parallel to Vernon East Road. There are a few homes in or close to the floodplain, specifically along Sharp Road and it's intersection with Yates Road and Harker Road. Potential losses include 1 well, over 4 miles of roads, and many acres of agricultural lands.



Flood_Dam Inundation	Flood_Soils
Flood_Great Salt Lake Flooding	Flood_FEMA 100 year floodplain
Flood_Valley Bottom	Flood_Riparian/Wetland

5.5.3 VERNON CITY - HAZARDS

FLOOD_USU VALLEY BOTTOM 233 AC FLOOD_WETLAND & RIPARIAN 60 AC

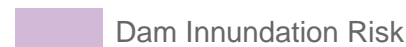
Additional flood risk in Vernon is located in the drainage southwest of town between Sharp Road and Olson Lane. One or two structures may be at risk near Sharp Road. Potential losses include 3 homes, over 8 miles of roads, and hundreds of acres of agricultural land.

FLOOD_DAM INUNDATION 268 AC

Dam inundation areas exist west of Main Street, mostly in the lower elevation areas and farmland. There are several farmsteads and/or homes located in these areas which could be at risk. Potential losses include 10 homes, 1.6 miles of roads, and hundreds of acres of local farmland.

WILDFIRE HAZARD POTENTIAL 3,962 AC

Virtually all of Vernon is at risk from wildfire given the right future conditions, with the exception of the residential areas and irrigated farmlands. However, if homes in the future are located along the benches and surrounding hills, those could be at risk. Potential losses include 1 grocery store, around 110 homes, 1 cemetery, and thousands of acres of farmland and grazing allotment lands.



5.5.4.1 VERNON CITY - RISK ASSESMENT RESULTS - STRUCTURES

VERNON CITY - BUILDING FOOTPRINT - POTENTIAL LOSS TABLE			
Hazard	Category	Type	# of Facilities
DwellingsWithBasements	Commercial	Grocery_Store	1
DwellingsWithBasements	Government Facility	Well	1
DwellingsWithBasements	Other	Out	1
DwellingsWithBasements	Residential	Commercial_ Residential	4
DwellingsWithBasements	Residential	Manufactured	11
DwellingsWithBasements	Residential	Res_MobileHome	7
DwellingsWithBasements	Residential	Residential	106
DwellingsWithoutBasements	Commercial	Grocery_Store	1
DwellingsWithoutBasements	Government Facility	Well	1
DwellingsWithoutBasements	Other	Out	1
DwellingsWithoutBasements	Residential	Commercial_ Residential	4
DwellingsWithoutBasements	Residential	Manufactured	11
DwellingsWithoutBasements	Residential	Res_MobileHome	7
DwellingsWithoutBasements	Residential	Residential	106
Erosion_RoadTrail	Commercial	Grocery_Store	1
Erosion_RoadTrail	Government Facility	Well	1
Erosion_RoadTrail	Residential	Commercial_ Residential	4
Erosion_RoadTrail	Residential	Manufactured	11
Erosion_RoadTrail	Residential	Res_MobileHome	4
Erosion_RoadTrail	Residential	Residential	75
Flood_DamInundation	Other	Out	1
Flood_DamInundation	Residential	Residential	10
Flood_Wetland/Riparian	Residential	Residential	3
Wildfire	Commercial	Grocery_Store	1
Wildfire	Emergency Facility	FireStation	4
Wildfire	Other	Out	2
Wildfire	Residential	Manufactured	22
Wildfire	Residential	Res_MobileHome	10
Wildfire	Residential	Residential	86

5.5.4.2 VERNON CITY - RISK ASSESMENT RESULTS - CRITICAL FACILITIES

VERNON CITY - CRITICAL FACILITIES - POTENTIAL LOSS TABLE			
Hazard	Category	Type	# of Facilities
DwellingsWithBasements	Community	Cemetery	1
DwellingsWithBasements	Water	Well_Log	64
DwellingsWithoutBasements	Community	Cemetery	1
DwellingsWithoutBasements	Water	Well_Log	64
Erosion_RoadTrail	Community	Cemetery	1
Erosion_RoadTrail	Water	Well_Log	20
FEMA_FloodZone	Water	Well_Log	1
Flood_DamInundation	Water	Well_Log	13
Flood_USUValleyBottom	Water	Well_Log	2
Wildfire	Community	Cemetery	1
Wildfire	Emergency	FireStation	1
Wildfire	Water	Well_Log	76

5.5.4.3 VERNON CITY I RISK ASSESMENT RESULTS I PARCEL DATA

VERNON CITY - RISK ASSESSMENT - CRITICAL INFRASTRUCTURE PARCEL DATA

Hazard	Infrastructure Category	Infrastructure Type	# of Parcels	Sum Parcel Acres	Sum Total Market Value
DwellingsWithBasements	Parcel	BLM	6	-	\$-
DwellingsWithBasements	Parcel	Commercial	1	0.0	\$837
DwellingsWithBasements	Parcel	Community_Resources	2	15.4	\$-
DwellingsWithBasements	Parcel	EmergencyServices	1	5.6	\$-
DwellingsWithBasements	Parcel	None	102	4,099.2	\$1,474,794
DwellingsWithBasements	Parcel	Residential	108	1,057.2	\$9,068,442
DwellingsWithBasements	Parcel	SITLA	1	-	\$-
Erosion_RoadTrail	Parcel	BLM	5	-	\$-
Erosion_RoadTrail	Parcel	Commercial	1	0.0	\$837
Erosion_RoadTrail	Parcel	Community_Resources	2	15.4	\$-
Erosion_RoadTrail	Parcel	EmergencyServices	1	5.6	\$-
Erosion_RoadTrail	Parcel	None	75	2,933.9	\$952,806
Erosion_RoadTrail	Parcel	Residential	94	815.7	\$7,978,788
Erosion_RoadTrail	Parcel	SITLA	1	-	\$-
FEMA_FloodZone	Parcel	BLM	5	-	\$-
FEMA_FloodZone	Parcel	None	16	876.2	\$159,168
FEMA_FloodZone	Parcel	Residential	14	404.0	\$1,315,590
Flood_DamInundation	Parcel	None	32	949.0	\$363,679
Flood_DamInundation	Parcel	Residential	7	194.1	\$700,281
Flood_USUValleyBottom	Parcel	BLM	1	-	\$-
Flood_USUValleyBottom	Parcel	None	13	960.3	\$221,844
Flood_USUValleyBottom	Parcel	Residential	4	88.8	\$214,945
Flood_Wetland_Riparian	Parcel	BLM	4	-	\$-

5.5.4.3 VERNON CITY I RISK ASSESMENT RESULTS I PARCEL DATA

VERNON CITY - RISK ASSESMENT - CRITICAL INFRASTRUCTURE PARCEL DATA					
Hazard	Infrastructure Category	Infrastructure Type	# of Parcels	Sum Parcel Acres	Sum Total Market Value
Flood_Wetland_Riparian	Parcel	None	51	2,186.1	\$634,437
Flood_Wetland_Riparian	Parcel	Residential	17	401.4	\$1,499,548
RMRS_WildFireHP_2020	Parcel	BLM	7	-	\$-
RMRS_WildFireHP_2020	Parcel	EmergencyServices	1	5.6	\$-
RMRS_WildFireHP_2020	Parcel	None	99	4,103.7	\$1,520,762
RMRS_WildFireHP_2020	Parcel	Residential	96	1,210.9	\$8,993,863
RMRS_WildFireHP_2020	Parcel	SITLA	1	-	\$-

5.5.4.4 VERNON CITY I RISK ASSESMENT RESULTS I LINE DATA

VERNON CITY - RISK ASSESMENT - CRITICAL INFRASTRUCTURE LINE DATA				
HAZARD	INFRASTRUCTURE CATEGORY	INFRASTRUCTURE TYPE	# OF SEGMENTS	SUM SEGMENT LENGTH (MILES)
DwellingsWithBasements	Natural	StreamRiver_Ephemeral	7	8.9
DwellingsWithBasements	Natural	StreamRiver_Intermittent	2	1.2
DwellingsWithBasements	Natural	StreamRiver_Perennial	2	2.9
DwellingsWithBasements	Recreation	Trail_RoadConcurrent	3	1.8
DwellingsWithBasements	Transportation	Road	8	2.6
DwellingsWithBasements	Transportation	Road_A	5	2.7
DwellingsWithBasements	Transportation	Road_B	2	1.6
DwellingsWithBasements	Transportation	Road_C	19	9.3
DwellingsWithBasements	Transportation	Road_D	1	0.3
DwellingsWithBasements	Water	Connector	6	3.5
Erosion_RoadTrail	Natural	StreamRiver_Ephemeral	3	6.0
Erosion_RoadTrail	Recreation	Trail_RoadConcurrent	2	0.9
Erosion_RoadTrail	Transportation	Road	6	2.1
Erosion_RoadTrail	Transportation	Road_A	5	2.7
Erosion_RoadTrail	Transportation	Road_C	15	7.8
Erosion_RoadTrail	Transportation	Road_D	1	0.3
Erosion_RoadTrail	Water	Connector	4	3.3
FEMA_FloodZone	Natural	StreamRiver_Ephemeral	3	5.1
FEMA_FloodZone	Natural	StreamRiver_Perennial	2	2.9
FEMA_FloodZone	Recreation	Trail_RoadConcurrent	1	1.0
FEMA_FloodZone	Transportation	Road	2	0.6

5.5.4.4 VERNON CITY I RISK ASSESMENT RESULTS I LINE DATA

VERNON CITY - RISK ASSESMENT - CRITICAL INFRASTRUCTURE LINE DATA				
HAZARD	INFRASTRUCTURE CATEGORY	INFRASTRUCTURE TYPE	# OF SEGMENTS	SUM SEGMENT LENGTH (MILES)
FEMA_FloodZone	Transportation	Road_B	1	1.4
FEMA_FloodZone	Transportation	Road_C	6	3.8
FEMA_FloodZone	Water	Connector	3	1.9
Flood_DamInundation	Natural	StreamRiver_Ephemeral	4	4.9
Flood_DamInundation	Natural	StreamRiver_Intermittent	1	1.1
Flood_DamInundation	Transportation	Road_C	2	1.6
Flood_DamInundation	Water	Connector	2	0.8
Flood_USUValleyBottom	Natural	StreamRiver_Ephemeral	1	0.5
Flood_USUValleyBottom	Natural	StreamRiver_Perennial	2	2.9
Flood_USUValleyBottom	Transportation	Road_B	1	0.2
Flood_USUValleyBottom	Transportation	Road_C	4	2.5
Flood_USUValleyBottom	Water	Connector	2	1.3
Flood_Wetland_Riparian	Natural	StreamRiver_Ephemeral	9	11.9
Flood_Wetland_Riparian	Natural	StreamRiver_Intermittent	1	0.1
Flood_Wetland_Riparian	Natural	StreamRiver_Perennial	2	2.9
Flood_Wetland_Riparian	Recreation	Trail_RoadConcurrent	1	0.6
Flood_Wetland_Riparian	Transportation	Road	4	1.7
Flood_Wetland_Riparian	Transportation	Road_C	7	4.6
Flood_Wetland_Riparian	Water	Connector	8	4.6
RMRS_WildFireHP_2020	Natural	StreamRiver_Ephemeral	9	11.9
RMRS_WildFireHP_2020	Natural	StreamRiver_Intermittent	2	1.2

5.5.4.4 VERNON CITY I RISK ASSESMENT RESULTS I LINE DATA

VERNON CITY - RISK ASSESMENT - CRITICAL INFRASTRUCTURE LINE DATA				
HAZARD	INFRASTRUCTURE CATEGORY	INFRASTRUCTURE TYPE	# OF SEGMENTS	SUM SEGMENT LENGTH (MILES)
RMRS_WildFireHP_2020	Natural	StreamRiver_Perennial	2	2.9
RMRS_WildFireHP_2020	Recreation	Trail_RoadConcurrent	4	3.1
RMRS_WildFireHP_2020	Transportation	Road	11	3.8
RMRS_WildFireHP_2020	Transportation	Road_A	6	3.4
RMRS_WildFireHP_2020	Transportation	Road_B	1	1.4
RMRS_WildFireHP_2020	Transportation	Road_C	26	11.7
RMRS_WildFireHP_2020	Transportation	Road_D	1	0.2
RMRS_WildFireHP_2020	Transportation	Road_X	1	0.5
RMRS_WildFireHP_2020	Water	Connector	6	3.8

5.5.4.5 VERNONCITY I RISK ASSESMENT RESULTS I AREA DATA

VERNON CITY - RISK ASSESMENT - CRITICAL INFRASTRUCTURE AREAS DATA				
HAZARD	INFRASTRUCTURE CATEGORY	INFRASTRUCTURE TYPE	# OF SEGMENTS	SUM OF AREAS (ACRES)
DwellingsWithBasements	Agricultural	Agriculture_Parcel	91	2,450.1
DwellingsWithBasements	Agricultural	AgricultureWRLA_DryCrop	21	370.6
DwellingsWithBasements	Agricultural	AgricultureWRLA_Food	20	64.4
DwellingsWithBasements	Agricultural	AgricultureWRLU_Sprinkler	158	1,180.0
DwellingsWithBasements	Agricultural	AgricultureWRLU_SubIrrigated	47	638.8
DwellingsWithBasements	Agricultural	GrazingAllotment	4	63,899.0
DwellingsWithBasements	Natural	Riparian	1	1.4
DwellingsWithBasements	Natural	Wetland	35	287.6
DwellingsWithBasements	Water	GWPZone_1	1	0.7
DwellingsWithBasements	Water	GWPZone_2	1	37.9
DwellingsWithBasements	Water	GWPZone_3	1	96.5
DwellingsWithBasements	Water	GWPZone_4	1	445.0
DwellingsWithBasements	Water	RetailCulinaryWaterServiceArea	1	5,301.8
Erosion_RoadTrail	Agricultural	Agriculture_Parcel	68	1,795.4
Erosion_RoadTrail	Agricultural	AgricultureWRLA_DryCrop	19	322.0
Erosion_RoadTrail	Agricultural	AgricultureWRLA_Food	10	27.4
Erosion_RoadTrail	Agricultural	AgricultureWRLU_Sprinkler	83	680.8
Erosion_RoadTrail	Agricultural	AgricultureWRLU_SubIrrigated	18	279.2
Erosion_RoadTrail	Agricultural	GrazingAllotment	4	63,899.0
Erosion_RoadTrail	Natural	Wetland	12	251.1

5.5.4.5 VERNONCITY I RISK ASSESMENT RESULTS I AREA DATA

VERNON CITY - RISK ASSESMENT - CRITICAL INFRASTRUCTURE AREAS DATA				
HAZARD	INFRASTRUCTURE CATEGORY	INFRASTRUCTURE TYPE	# OF SEGMENTS	SUM OF AREAS (ACRES)
Erosion_RoadTrail	Water	RetailCulinaryWaterServiceArea	1	5,301.8
FEMA_FloodZone	Agricultural	Agriculture_Parcel	18	934.6
FEMA_FloodZone	Agricultural	AgricultureWRLA_DryCrop	6	90.3
FEMA_FloodZone	Agricultural	AgricultureWRLA_Food	4	8.4
FEMA_FloodZone	Agricultural	AgricultureWRLU_Sprinkler	18	207.1
FEMA_FloodZone	Agricultural	AgricultureWRLU_SubIrrigated	29	425.9
FEMA_FloodZone	Agricultural	GrazingAllotment	2	46,285.8
FEMA_FloodZone	Natural	Wetland	16	318.5
FEMA_FloodZone	Water	RetailCulinaryWaterServiceArea	1	5,301.8
Flood_DamInundation	Agricultural	Agriculture_Parcel	25	544.7
Flood_DamInundation	Agricultural	AgricultureWRLA_DryCrop	1	11.8
Flood_DamInundation	Agricultural	AgricultureWRLA_Food	5	11.7
Flood_DamInundation	Agricultural	AgricultureWRLU_Sprinkler	55	458.6
Flood_DamInundation	Agricultural	AgricultureWRLU_SubIrrigated	3	25.9
Flood_DamInundation	Natural	Riparian	1	1.4
Flood_DamInundation	Natural	Wetland	9	40.1
Flood_DamInundation	Water	GWPZone_1	1	0.7
Flood_DamInundation	Water	GWPZone_2	1	37.9
Flood_DamInundation	Water	GWPZone_3	1	96.5
Flood_DamInundation	Water	GWPZone_4	1	445.0
Flood_DamInundation	Water	RetailCulinaryWaterServiceArea	1	5,301.8

5.5.4.5 VERNONCITY I RISK ASSESMENT RESULTS I AREA DATA

VERNON CITY - RISK ASSESMENT - CRITICAL INFRASTRUCTURE AREAS DATA				
HAZARD	INFRASTRUCTURE CATEGORY	INFRASTRUCTURE TYPE	# OF SEGMENTS	SUM OF AREAS (ACRES)
Flood_USUValleyBottom	Agricultural	Agriculture_Parcel	8	727.2
Flood_USUValleyBottom	Agricultural	AgricultureWRLA_DryCrop	3	31.3
Flood_USUValleyBottom	Agricultural	AgricultureWRLA_Food	2	21.0
Flood_USUValleyBottom	Agricultural	AgricultureWRLU_Sprinkler	1	48.4
Flood_USUValleyBottom	Agricultural	AgricultureWRLU_SubIrrigated	20	371.6
Flood_USUValleyBottom	Agricultural	GrazingAllotment	1	2,992.8
Flood_USUValleyBottom	Natural	Wetland	11	23.1
Flood_USUValleyBottom	Water	RetailCulinaryWaterServiceArea	1	5,301.8
Flood_Wetland_Riparian	Agricultural	Agriculture_Parcel	41	1,540.2
Flood_Wetland_Riparian	Agricultural	AgricultureWRLA_DryCrop	3	122.0
Flood_Wetland_Riparian	Agricultural	AgricultureWRLA_Food	5	14.4
Flood_Wetland_Riparian	Agricultural	AgricultureWRLU_Sprinkler	52	542.3
Flood_Wetland_Riparian	Agricultural	AgricultureWRLU_SubIrrigated	30	465.1
Flood_Wetland_Riparian	Agricultural	GrazingAllotment	2	46,285.8
Flood_Wetland_Riparian	Natural	Riparian	1	1.4
Flood_Wetland_Riparian	Natural	Wetland	37	366.2
Flood_Wetland_Riparian	Water	GWPZone_1	1	0.7
Flood_Wetland_Riparian	Water	GWPZone_2	1	37.9
Flood_Wetland_Riparian	Water	GWPZone_3	1	96.5
Flood_Wetland_Riparian	Water	GWPZone_4	1	445.0

5.5.4.5 VERNONCITY I RISK ASSESMENT RESULTS I AREA DATA

VERNON CITY - RISK ASSESMENT - CRITICAL INFRASTRUCTURE AREAS DATA				
HAZARD	INFRASTRUCTURE CATEGORY	INFRASTRUCTURE TYPE	# OF SEGMENTS	SUM OF AREAS (ACRES)
Flood_Wetland_Riparian	Water	RetailCulinaryWaterServiceArea	1	5,301.8
RMRS_WildFireHP_2020	Agricultural	Agriculture_Parcel	81	2,357.5
RMRS_WildFireHP_2020	Agricultural	AgricultureWRLA_DryCrop	29	519.4
RMRS_WildFireHP_2020	Agricultural	AgricultureWRLA_Food	20	87.3
RMRS_WildFireHP_2020	Agricultural	AgricultureWRLU_Sprinkler	108	930.5
RMRS_WildFireHP_2020	Agricultural	AgricultureWRLU_SubIrrigated	46	634.7
RMRS_WildFireHP_2020	Agricultural	GrazingAllotment	4	63,899.0
RMRS_WildFireHP_2020	Natural	Riparian	1	1.4
RMRS_WildFireHP_2020	Natural	Wetland	34	357.5
RMRS_WildFireHP_2020	Water	GWPZone_1	1	0.7
RMRS_WildFireHP_2020	Water	GWPZone_2	1	37.9
RMRS_WildFireHP_2020	Water	GWPZone_3	1	96.5
RMRS_WildFireHP_2020	Water	GWPZone_4	1	445.0
RMRS_WildFireHP_2020	Water	RetailCulinaryWaterServiceArea	1	5,301.8

5.5.5 VERNON CITY - MITIGATION STRATEGIES

VERNON CITY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
AVALANCHE - CURRENT RESIDENTS/PROPERTY	Conduct training with backcountry winter outdoor users	NFIP compliant?	N/A
AVALANCHE - CURRENT RESIDENTS/PROPERTY	Develop an avalanche codes or regulations prohibiting or limiting structures in known avalanche zones	NFIP compliant?	N/A
AVALANCHE - CURRENT RESIDENTS/PROPERTY	Develop an avalanche warning system	NFIP compliant?	N/A
AVALANCHE - CURRENT RESIDENTS/PROPERTY	Increase knowledge for city and county emergency managers	NFIP compliant?	N/A
AVALANCHE - CURRENT RESIDENTS/PROPERTY	Install fencing to support structures arranged to retain snow	NFIP compliant?	N/A
AVALANCHE - CURRENT RESIDENTS/PROPERTY	Plant trees and other vegetation to reduce impact of avalanches	NFIP compliant?	N/A
AVALANCHE - CURRENT RESIDENTS/PROPERTY	Purchase avalanche risk area lands or require buffers when developing infrastructure such as roads or buildings	NFIP compliant?	N/A
AVALANCHE - CURRENT RESIDENTS/PROPERTY	Retrofit critical facilities and infrastructure to withstand avalanches such as reinforced concrete walls	NFIP compliant?	N/A
AVALANCHE - FUTURE RESIDENTS/PROPERTY	Conduct training with backcountry winter outdoor users	NFIP compliant?	N/A
AVALANCHE - FUTURE RESIDENTS/PROPERTY	Develop an avalanche codes or regulations prohibiting or limiting structures in known avalanche zones	NFIP compliant?	N/A
AVALANCHE - FUTURE RESIDENTS/PROPERTY	Develop an avalanche warning system	NFIP compliant?	N/A
AVALANCHE - FUTURE RESIDENTS/PROPERTY	Increase knowledge for city and county emergency managers	NFIP compliant?	N/A
AVALANCHE - FUTURE RESIDENTS/PROPERTY	Install fencing to support structures arranged to retain snow	NFIP compliant?	N/A
AVALANCHE - FUTURE RESIDENTS/PROPERTY	Plant trees and other vegetation to reduce impact of avalanches	NFIP compliant?	N/A
AVALANCHE - FUTURE RESIDENTS/PROPERTY	Purchase avalanche risk area lands or require buffers when developing infrastructure such as roads or buildings	NFIP compliant?	N/A
AVALANCHE - FUTURE RESIDENTS/PROPERTY	Retrofit critical facilities and infrastructure to withstand avalanches such as reinforced concrete walls	NFIP compliant?	N/A
DAM FAILURE - CURRENT RESIDENTS/PROPERTY	Develop ordinances to prohibit or limit critical facilities and/or structures in dam inundation areas	NFIP compliant?	N/A
DAM FAILURE - CURRENT RESIDENTS/PROPERTY	Ensure new critical facilities and infrastructure are not built in dam inundation areas	NFIP compliant?	N/A
DAM FAILURE - CURRENT RESIDENTS/PROPERTY	Identify areas of encroachment below high hazard dams especially in dam inundation areas	NFIP compliant?	N/A
DAM FAILURE - CURRENT RESIDENTS/PROPERTY	Promote National Dam Safety Awareness Day	Pot. Funding Sources	Local
		Priority	High
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	\$0 - \$25 K

VERNON CITY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
		Timeframe	2022
DAM FAILURE - CURRENT RESIDENTS/PROPERTY	Relocate government-owned facilities located near high risk dam failures	NFIP compliant?	N/A
DAM FAILURE - CURRENT RESIDENTS/PROPERTY	Work with the Utah Division of Water Rights and dam companies to bring deficient high hazard dams up to current industry standards	Priority	Low
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	City
		Estimated Cost	\$0 - \$25 K
		Timeframe	2024
DAM FAILURE - CURRENT RESIDENTS/PROPERTY	Work with the Utah Division of Water Rights and dam companies to install a dam monitoring system	NFIP compliant?	N/A
DAM FAILURE - CURRENT RESIDENTS/PROPERTY	Work with the Utah Division of Water Rights and dam companies to update dam emergency action plans	Priority	Low
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	\$0 - \$25 K
		Timeframe	2024
DAM FAILURE - FUTURE RESIDENTS/PROPERTY	Develop ordinances to prohibit or limit critical facilities and/or structures in dam inundation areas	NFIP compliant?	N/A
DAM FAILURE - FUTURE RESIDENTS/PROPERTY	Ensure new critical facilities and infrastructure are not built in dam inundation areas	NFIP compliant?	N/A
DAM FAILURE - FUTURE RESIDENTS/PROPERTY	Identify areas of encroachment below high hazard dams especially in dam inundation areas	NFIP compliant?	N/A
DAM FAILURE - FUTURE RESIDENTS/PROPERTY	Promote National Dam Safety Awareness Day	NFIP compliant?	N/A
DAM FAILURE - FUTURE RESIDENTS/PROPERTY	Relocate government-owned facilities located near high risk dam failures	NFIP compliant?	N/A
DAM FAILURE - FUTURE RESIDENTS/PROPERTY	Work with the Utah Division of Water Rights and dam companies to bring deficient high hazard dams up to current industry standards	Priority	Low
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City

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Hazard	Strategy	Strategy Informational Categories	Details
		Estimated Cost	\$0 - \$25 K
		Timeframe	2024
DAM FAILURE - FUTURE RESIDENTS/PROPERTY	Work with the Utah Division of Water Rights and dam companies to install a dam monitoring system	NFIP compliant?	N/A
DAM FAILURE - FUTURE RESIDENTS/PROPERTY	Work with the Utah Division of Water Rights and dam companies to update dam emergency action plans	Priority	Low
DAM FAILURE - FUTURE RESIDENTS/PROPERTY	Work with the Utah Division of Water Rights and dam companies to update dam emergency action plans	NFIP compliant?	Helps reduce risk
DAM FAILURE - FUTURE RESIDENTS/PROPERTY	Work with the Utah Division of Water Rights and dam companies to update dam emergency action plans	Pot. Funding Sources	County
DAM FAILURE - FUTURE RESIDENTS/PROPERTY	Work with the Utah Division of Water Rights and dam companies to update dam emergency action plans	Responsible Entity	County
DAM FAILURE - FUTURE RESIDENTS/PROPERTY	Work with the Utah Division of Water Rights and dam companies to update dam emergency action plans	Estimated Cost	\$0 - \$25 K
DAM FAILURE - FUTURE RESIDENTS/PROPERTY	Work with the Utah Division of Water Rights and dam companies to update dam emergency action plans	Timeframe	2024
DROUGHT - CURRENT RESIDENTS/PROPERTY	Designate and or preserve adequate source water protection zones or groundwater recharge areas	NFIP compliant?	N/A
DROUGHT - CURRENT RESIDENTS/PROPERTY	Educate Decision Makers and Government Employees on Water Saving Techniques (list event details in "comments")	NFIP compliant?	N/A
DROUGHT - CURRENT RESIDENTS/PROPERTY	Educate Residents on Water Saving Techniques (list event details in "comments")	Priority	Low
DROUGHT - CURRENT RESIDENTS/PROPERTY	Educate Residents on Water Saving Techniques (list event details in "comments")	Pot. Funding Sources	Local
DROUGHT - CURRENT RESIDENTS/PROPERTY	Educate Residents on Water Saving Techniques (list event details in "comments")	NFIP compliant?	Helps reduce risk
DROUGHT - CURRENT RESIDENTS/PROPERTY	Educate Residents on Water Saving Techniques (list event details in "comments")	Responsible Entity	City
DROUGHT - CURRENT RESIDENTS/PROPERTY	Educate Residents on Water Saving Techniques (list event details in "comments")	Estimated Cost	\$0 - \$25 K
DROUGHT - CURRENT RESIDENTS/PROPERTY	Educate Residents on Water Saving Techniques (list event details in "comments")	Timeframe	2023
DROUGHT - CURRENT RESIDENTS/PROPERTY	Educate the Agriculture Sector on Soil and Water Saving Practices (list event details in "comments")	NFIP compliant?	N/A
DROUGHT - CURRENT RESIDENTS/PROPERTY	Enforce codes ordinances statues and laws that promote drought resiliency and water conservation practices	NFIP compliant?	N/A
DROUGHT - CURRENT RESIDENTS/PROPERTY	Expand and Improve Existing Potable Water Systems	Responsible Entity	State
DROUGHT - CURRENT RESIDENTS/PROPERTY	Expand and Improve Existing Potable Water Systems	Priority	Medium
DROUGHT - CURRENT RESIDENTS/PROPERTY	Expand and Improve Existing Potable Water Systems	Pot. Funding Sources	Local
DROUGHT - CURRENT RESIDENTS/PROPERTY	Expand and Improve Existing Potable Water Systems	NFIP compliant?	Helps reduce risk
DROUGHT - CURRENT RESIDENTS/PROPERTY	Expand and Improve Existing Potable Water Systems	Estimated Cost	\$50 K - \$100 K

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Hazard	Strategy	Strategy Informational Categories	Details
		Timeframe	2023
DROUGHT - CURRENT RESIDENTS/PROPERTY	Improve Public Water Infrastructure and Management with Water Provider	NFIP compliant?	N/A
DROUGHT - CURRENT RESIDENTS/PROPERTY	Monitor Water Supply for leaks system failures inefficiencies etc. via monitoring system and audits	NFIP compliant?	N/A
DROUGHT - CURRENT RESIDENTS/PROPERTY	Plan and Prepare for Drought via emergency planning and warning systems	Priority	Medium
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	City
		Estimated Cost	\$0 - \$25 K
		Timeframe	2023
DROUGHT - CURRENT RESIDENTS/PROPERTY	Retrofit Water Supply Systems to handle current and new growth	NFIP compliant?	N/A
DROUGHT - CURRENT RESIDENTS/PROPERTY	Update and adopt drought ordinances	Pot. Funding Sources	State UGS
		Priority	Low
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	\$0 - \$25 K
		Timeframe	2023
DROUGHT - FUTURE RESIDENTS/PROPERTY	Designate and or preserve adequate source water protection zones or groundwater recharge areas	NFIP compliant?	N/A
DROUGHT - FUTURE RESIDENTS/PROPERTY	Educate Decision Makers and Government Employees on Water Saving Techniques (list event details in "comments")	NFIP compliant?	N/A
DROUGHT - FUTURE RESIDENTS/PROPERTY	Educate Residents on Water Saving Techniques (list event details in "comments")	Priority	Medium
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	County
		Estimated Cost	\$0 - \$25 K
		Timeframe	2023

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Hazard	Strategy	Strategy Informational Categories	Details
DROUGHT - FUTURE RESIDENTS/PROPERTY	Educate the Agriculture Sector on Soil and Water Saving Practices (list event details in "comments")	NFIP compliant?	N/A
DROUGHT - FUTURE RESIDENTS/PROPERTY	Enforce codes ordinances statues and laws that promote drought resiliency and water conservation practices	NFIP compliant?	N/A
DROUGHT - FUTURE RESIDENTS/PROPERTY	Expand and Improve Existing Potable Water Systems	NFIP compliant?	N/A
DROUGHT - FUTURE RESIDENTS/PROPERTY	Improve Public Water Infrastructure and Management with Water Provider	NFIP compliant?	N/A
DROUGHT - FUTURE RESIDENTS/PROPERTY	Monitor Water Supply for leaks system failures inefficiencies etc. via monitoring system and audits	NFIP compliant?	N/A
DROUGHT - FUTURE RESIDENTS/PROPERTY	Plan and Prepare for Drought via emergency planning and warning systems	Priority	Medium
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	County
		Estimated Cost	\$0 - \$25 K
		Timeframe	2024
DROUGHT - FUTURE RESIDENTS/PROPERTY	Retrofit Water Supply Systems to handle current and new growth	NFIP compliant?	N/A
DROUGHT - FUTURE RESIDENTS/PROPERTY	Update and adopt drought ordinances	NFIP compliant?	Helps reduce risk
EARTHQUAKE - CURRENT RESIDENTS/PROPERTY	Building Code Adoption and Enforcement	Pot. Funding Sources	Local
		Priority	High
		NFIP compliant?	Helps reduce risk
		Responsible Entity	County
		Estimated Cost	\$0 - \$25 K
		Timeframe	2022
EARTHQUAKE - CURRENT RESIDENTS/PROPERTY	Conduct Building Safety Inspections	Priority	High
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	City
		Estimated Cost	\$0 - \$25 K

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Hazard	Strategy	Strategy Informational Categories	Details
		Timeframe	2023
EARTHQUAKE - CURRENT RESIDENTS/PROPERTY	Conduct Outreach to Builders Architects Engineers and Inspectors	NFIP compliant?	N/A
EARTHQUAKE - CURRENT RESIDENTS/PROPERTY	Develop and/or review or adopt model earthquake hazard ordinance	NFIP compliant?	N/A
EARTHQUAKE - CURRENT RESIDENTS/PROPERTY	Establish a "green infrastructure" program to link manage and expand existing parks preserves greenways etc	NFIP compliant?	N/A
EARTHQUAKE - CURRENT RESIDENTS/PROPERTY	Increase Awareness and Education of Earthquakes through an educational event	Priority	Medium
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	City
		Estimated Cost	\$0 - \$25 K
		Timeframe	2022
EARTHQUAKE - CURRENT RESIDENTS/PROPERTY	Local Planning such as critical facilities planning financial incentives creating a safety committee emergency planning etc	NFIP compliant?	N/A
EARTHQUAKE - CURRENT RESIDENTS/PROPERTY	Retrofit Critical Facilities and Infrastructure to Withstand Earthquakes (list specifics in "comments" section)	NFIP compliant?	N/A
EARTHQUAKE - FUTURE RESIDENTS/PROPERTY	Building Code Adoption and Enforcement	Priority	High
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	City
		Estimated Cost	\$0 - \$25 K
		Timeframe	2022
EARTHQUAKE - FUTURE RESIDENTS/PROPERTY	Conduct Building Safety Inspections	Priority	High
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	City
		Estimated Cost	\$0 - \$25 K
		Timeframe	2022

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Hazard	Strategy	Strategy Informational Categories	Details
EARTHQUAKE - FUTURE RESIDENTS/PROPERTY	Conduct Outreach to Builders Architects Engineers and Inspectors	NFIP compliant?	N/A
EARTHQUAKE - FUTURE RESIDENTS/PROPERTY	Develop and/or review or adopt model earthquake hazard ordinance	NFIP compliant?	N/A
EARTHQUAKE - FUTURE RESIDENTS/PROPERTY	Establish a "green infrastructure" program to link manage and expand existing parks preserves greenways etc	NFIP compliant?	N/A
EARTHQUAKE - FUTURE RESIDENTS/PROPERTY	Increase Awareness and Education of Earthquakes through an educational event	Priority	Medium
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	City
		Estimated Cost	\$0 - \$25 K
		Timeframe	2022
EARTHQUAKE - FUTURE RESIDENTS/PROPERTY	Local Planning such as critical facilities planning financial incentives creating a safety committee emergency planning etc	NFIP compliant?	N/A
EARTHQUAKE - FUTURE RESIDENTS/PROPERTY	Retrofit Critical Facilities and Infrastructure to Withstand Earthquakes (list specifics in "comments" section)	NFIP compliant?	N/A
FLOOD - CURRENT RESIDENTS/PROPERTY	Adopt and Enforce Building Codes and Development Standards	Pot. Funding Sources	Local
		Priority	High
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	\$0 - \$25 K
		Timeframe	2022
FLOOD - CURRENT RESIDENTS/PROPERTY	Conduct Regular Maintenance for Drainage Systems and Flood Control Structures	NFIP compliant?	N/A
FLOOD - CURRENT RESIDENTS/PROPERTY	Coordination and Partnerships i.e. develop stormwater committee regional watershed council local councils etc	NFIP compliant?	N/A
FLOOD - CURRENT RESIDENTS/PROPERTY	Elevate or Retrofit Facilities and Infrastructure	NFIP compliant?	N/A
FLOOD - CURRENT RESIDENTS/PROPERTY	Floodproof At-Risk Residential and Non-Residential Structures	NFIP compliant?	N/A
FLOOD - CURRENT RESIDENTS/PROPERTY	Improve Stormwater Drainage Capacity	NFIP compliant?	N/A
		Priority	High
		NFIP compliant?	Helps reduce risk

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Hazard	Strategy	Strategy Informational Categories	Details
FLOOD - CURRENT RESIDENTS/PROPERTY	Information and educational events (list details in "comments" section)	Pot. Funding Sources	County
		Responsible Entity	County
		Estimated Cost	\$0 - \$25 K
		Timeframe	2022
FLOOD - CURRENT RESIDENTS/PROPERTY	Other local planning mechanisms such as joining the NFIP creating risk plans establishing green infrastructure plan etc	NFIP compliant?	N/A
FLOOD - CURRENT RESIDENTS/PROPERTY	Preserve Floodplains and Open Space through ordinances land purchase conservation easements etc	NFIP compliant?	N/A
FLOOD - CURRENT RESIDENTS/PROPERTY	Protect and Restore Natural Flood Mitigation Features through natural greenway protection and restoration	NFIP compliant?	N/A
FLOOD - CURRENT RESIDENTS/PROPERTY	Protect Infrastructure such as roads bridges wastewater treatment etc	Priority	High
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	City
		Estimated Cost	\$0 - \$25 K
FLOOD - CURRENT RESIDENTS/PROPERTY	Remove Existing Structures from Flood Hazard Area	NFIP compliant?	N/A
FLOOD - CURRENT RESIDENTS/PROPERTY	Review and/or Develop Codes Ordinances and Policies	Priority	Low
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	\$0 - \$25 K
FLOOD - CURRENT RESIDENTS/PROPERTY	Stormwater Management Planning	NFIP compliant?	N/A
FLOOD - FUTURE RESIDENTS/PROPERTY	Adopt and Enforce Building Codes and Development Standards	Priority	High
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County

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Hazard	Strategy	Strategy Informational Categories	Details
FLOOD - FUTURE RESIDENTS/PROPERTY	Adopt and Enforce Building Codes and Development Standards	Responsible Entity	City
		Estimated Cost	\$0 - \$25 K
		Timeframe	2023
FLOOD - FUTURE RESIDENTS/PROPERTY	Conduct Regular Maintenance for Drainage Systems and Flood Control Structures	Priority	Medium
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	\$0 - \$25 K
		Timeframe	2023
FLOOD - FUTURE RESIDENTS/PROPERTY	Coordination and Partnerships i.e. develop stormwater committee regional watershed council local councils etc	NFIP compliant?	N/A
FLOOD - FUTURE RESIDENTS/PROPERTY	Elevate or Retrofit Facilities and Infrastructure	NFIP compliant?	N/A
FLOOD - FUTURE RESIDENTS/PROPERTY	Floodproof At-Risk Residential and Non-Residential Structures	NFIP compliant?	N/A
FLOOD - FUTURE RESIDENTS/PROPERTY	Improve Stormwater Drainage Capacity	NFIP compliant?	N/A
FLOOD - FUTURE RESIDENTS/PROPERTY	Information and educational events (list details in "comments" section)	Priority	Medium
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	City
		Estimated Cost	\$0 - \$25 K
		Timeframe	2023
FLOOD - FUTURE RESIDENTS/PROPERTY	Other local planning mechanisms such as joining the NFIP creating risk plans establishing green infrastructure plan etc	NFIP compliant?	N/A
FLOOD - FUTURE RESIDENTS/PROPERTY	Preserve Floodplains and Open Space through ordinances land purchase conservation easements etc	NFIP compliant?	N/A
FLOOD - FUTURE RESIDENTS/PROPERTY	Protect and Restore Natural Flood Mitigation Features through natural greenway protection and restoration	NFIP compliant?	N/A
		Priority	Medium
		NFIP compliant?	Helps reduce risk

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Hazard	Strategy	Strategy Informational Categories	Details
FLOOD - FUTURE RESIDENTS/PROPERTY	Protect Infrastructure such as roads bridges wastewater treatment etc	Pot. Funding Sources	County
		Responsible Entity	City
		Estimated Cost	\$0 - \$25 K
		Timeframe	2023
FLOOD - FUTURE RESIDENTS/PROPERTY	Remove Existing Structures from Flood Hazard Area	NFIP compliant?	N/A
FLOOD - FUTURE RESIDENTS/PROPERTY	Review and/or Develop Codes Ordinances and Policies	Priority	Medium
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	City
		Estimated Cost	\$0 - \$25 K
		Timeframe	2022
FLOOD - FUTURE RESIDENTS/PROPERTY	Stormwater Management Planning	NFIP compliant?	N/A
LANDSLIDE/STEEP SLOPES - CURRENT RESIDENTS/PROPERTY	Apply soil stabilization measures such as planting soil stabilizing vegetation on steep publicly-owned slopes	NFIP compliant?	N/A
LANDSLIDE/STEEP SLOPES - CURRENT RESIDENTS/PROPERTY	Create a plan to implement reinforcement measures in high-risk landslide areas	Priority	Low
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	\$0 - \$25 K
		Timeframe	2023
LANDSLIDE/STEEP SLOPES - CURRENT RESIDENTS/PROPERTY	Implement monitoring mechanisms/procedures (i.e. visual inspection or electronic monitoring systems)	NFIP compliant?	N/A
LANDSLIDE/STEEP SLOPES - CURRENT RESIDENTS/PROPERTY	Increase Landslide/Steep Slope Risk Awareness and Education (list specifics in comments)	Estimated Cost	\$0 - \$25 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	Local
		Priority	Low

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Hazard	Strategy	Strategy Informational Categories	Details
		Responsible Entity	City
		Timeframe	2024
LANDSLIDE/STEEP SLOPES - CURRENT RESIDENTS/PROPERTY	Install catch-fall nets for rocks at steep slopes near roadways	NFIP compliant?	N/A
LANDSLIDE/STEEP SLOPES - CURRENT RESIDENTS/PROPERTY	Locate and/or relocate utilities outside of landslide areas to decrease the risk of service disruption	NFIP compliant?	N/A
LANDSLIDE/STEEP SLOPES - CURRENT RESIDENTS/PROPERTY	Prevent or Reduce Impacts from Landslides by Stabilizing Slopes	NFIP compliant?	N/A
LANDSLIDE/STEEP SLOPES - CURRENT RESIDENTS/PROPERTY	Remove Existing Building and Infrastructure from Landslide/Steep Slope Hazard Area	NFIP compliant?	N/A
LANDSLIDE/STEEP SLOPES - CURRENT RESIDENTS/PROPERTY	Require secondary water meters and smart irrigation controllers to reduce excessive groundwater near known landslide areas	NFIP compliant?	N/A
LANDSLIDE/STEEP SLOPES - CURRENT RESIDENTS/PROPERTY	Retrofit power water and sewer infrastructure	NFIP compliant?	N/A
LANDSLIDE/STEEP SLOPES - CURRENT RESIDENTS/PROPERTY	Use debris-flow measures that may reduce damage in sloping areas such as stabilization energy dissipation and flow control measures	NFIP compliant?	N/A
LANDSLIDE/STEEP SLOPES - FUTURE RESIDENTS/PROPERTY	Apply soil stabilization measures such as planting soil stabilizing vegetation on steep publicly-owned slopes	NFIP compliant?	N/A
LANDSLIDE/STEEP SLOPES - FUTURE RESIDENTS/PROPERTY	Create a plan to implement reinforcement measures in high-risk landslide areas	Priority	Low
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	City
		Estimated Cost	\$0 - \$25 K
		Timeframe	2023
LANDSLIDE/STEEP SLOPES - FUTURE RESIDENTS/PROPERTY	Develop an codes or regulation prohibiting or limiting structures in known landslide/steep slope risk areas	NFIP compliant?	N/A
LANDSLIDE/STEEP SLOPES - FUTURE RESIDENTS/PROPERTY	Implement monitoring mechanisms/procedures (i.e. visual inspection or electronic monitoring systems)	NFIP compliant?	N/A
LANDSLIDE/STEEP SLOPES - FUTURE RESIDENTS/PROPERTY	Increase Landslide/Steep Slope Risk Awareness and Education (list specifics in comments)	Estimated Cost	\$0 - \$25 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	Medium
		Responsible Entity	City
		Timeframe	2023

VERNON CITY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
LANDSLIDE/STEEP SLOPES - FUTURE RESIDENTS/PROPERTY	Install catch-fall nets for rocks at steep slopes near roadways	NFIP compliant?	N/A
LANDSLIDE/STEEP SLOPES - FUTURE RESIDENTS/PROPERTY	Locate and/or relocate utilities outside of landslide areas to decrease the risk of service disruption	NFIP compliant?	N/A
LANDSLIDE/STEEP SLOPES - FUTURE RESIDENTS/PROPERTY	Prevent or Reduce Impacts from Landslides by Stabilizing Slopes	NFIP compliant?	N/A
LANDSLIDE/STEEP SLOPES - FUTURE RESIDENTS/PROPERTY	Remove Existing Building and Infrastructure from Landslide/Steep Slope Hazard Area	NFIP compliant?	N/A
LANDSLIDE/STEEP SLOPES - FUTURE RESIDENTS/PROPERTY	Require secondary water meters and smart irrigation controllers to reduce excessive groundwater near known landslide areas	NFIP compliant?	N/A
LANDSLIDE/STEEP SLOPES - FUTURE RESIDENTS/PROPERTY	Retrofit power water and sewer infrastructure	NFIP compliant?	N/A
LANDSLIDE/STEEP SLOPES - FUTURE RESIDENTS/PROPERTY	Use debris-flow measures that may reduce damage in sloping areas such as stabilization energy dissipation and flow control measures	NFIP compliant?	N/A
PROBLEM SOILS - CURRENT RESIDENTS/PROPERTY	Adopt an ordinance promoting permafrost sensitive construction practices	NFIP compliant?	N/A
PROBLEM SOILS - CURRENT RESIDENTS/PROPERTY	Develop a code or regulation prohibiting or limiting structures in known problem soil areas	Priority	Low
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	\$0 - \$25 K
		Timeframe	2023
PROBLEM SOILS - CURRENT RESIDENTS/PROPERTY	Promote community awareness of risks and impacts from building in problem soil areas	NFIP compliant?	N/A
PROBLEM SOILS - CURRENT RESIDENTS/PROPERTY	Require geotechnical study to determine risk to structures in various geographic areas	Priority	Medium
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	County
		Estimated Cost	\$0 - \$25 K
		Timeframe	2022
PROBLEM SOILS - CURRENT RESIDENTS/PROPERTY	Restrict development in areas with soil that is considered poor or unsuitable for development	NFIP compliant?	N/A
PROBLEM SOILS - CURRENT RESIDENTS/PROPERTY	Retrofit or remove existing structures from problem soil areas	NFIP compliant?	N/A
PROBLEM SOILS - FUTURE RESIDENTS/PROPERTY	Adopt an ordinance promoting permafrost sensitive construction practices	NFIP compliant?	N/A

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Hazard	Strategy	Strategy Informational Categories	Details
PROBLEM SOILS - FUTURE RESIDENTS/PROPERTY	Develop a code or regulation prohibiting or limiting structures in known problem soil areas	Priority	Low
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	City
		Estimated Cost	\$0 - \$25 K
		Timeframe	2023
PROBLEM SOILS - FUTURE RESIDENTS/PROPERTY	Promote community awareness of risks and impacts from building in problem soil areas	NFIP compliant?	N/A
PROBLEM SOILS - FUTURE RESIDENTS/PROPERTY	Require geotechnical study to determine risk to structures in various geographic areas	Priority	High
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	County
		Estimated Cost	\$0 - \$25 K
		Timeframe	2023
PROBLEM SOILS - FUTURE RESIDENTS/PROPERTY	Restrict development in areas with soil that is considered poor or unsuitable for development	NFIP compliant?	N/A
PROBLEM SOILS - FUTURE RESIDENTS/PROPERTY	Retrofit or remove existing structures from problem soil areas	NFIP compliant?	N/A
RADON - CURRENT RESIDENTS/PROPERTY	Advertise radon testing equipment	NFIP compliant?	N/A
RADON - CURRENT RESIDENTS/PROPERTY	Develop and distribute radon hazard guides for homeowners and businesses	NFIP compliant?	N/A
RADON - CURRENT RESIDENTS/PROPERTY	Develop radon prevention standards and regulations for new housing including installation of ventilation systems in high hazard areas	NFIP compliant?	N/A
RADON - CURRENT RESIDENTS/PROPERTY	Encourage homeowners to install radon systems in home	NFIP compliant?	N/A
RADON - CURRENT RESIDENTS/PROPERTY	Encourage homeowners to test for radon	NFIP compliant?	N/A
RADON - CURRENT RESIDENTS/PROPERTY	Require testing at existing facilities and homes during and/or immediately after construction	NFIP compliant?	N/A
RADON - CURRENT RESIDENTS/PROPERTY	Retrofit homes with radon ventilation systems	NFIP compliant?	N/A
RADON - CURRENT RESIDENTS/PROPERTY	Review and/or Develop Codes Ordinances and Policies	NFIP compliant?	N/A
RADON - FUTURE RESIDENTS/PROPERTY	Advertise radon testing equipment	NFIP compliant?	N/A

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Hazard	Strategy	Strategy Informational Categories	Details
RADON - FUTURE RESIDENTS/PROPERTY	Develop and distribute radon hazard guides for homeowners and businesses	NFIP compliant?	N/A
RADON - FUTURE RESIDENTS/PROPERTY	Develop radon prevention standards and regulations for new housing including installation of ventilation systems in high hazard areas	NFIP compliant?	N/A
RADON - FUTURE RESIDENTS/PROPERTY	Encourage homeowners to install radon systems in home	NFIP compliant?	N/A
RADON - FUTURE RESIDENTS/PROPERTY	Encourage homeowners to test for radon	NFIP compliant?	N/A
RADON - FUTURE RESIDENTS/PROPERTY	Require testing at existing facilities and homes during and/or immediately after construction	NFIP compliant?	N/A
RADON - FUTURE RESIDENTS/PROPERTY	Retrofit homes with radon ventilation systems	NFIP compliant?	N/A
RADON - FUTURE RESIDENTS/PROPERTY	Review and/or Develop Codes Ordinances and Policies	NFIP compliant?	N/A
SEVERE WEATHER - CURRENT RESIDENTS/PROPERTY	Conduct Outreach Activities Increase and Public Awareness (specify below in comments)	Priority	Low
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	City
		Estimated Cost	\$0 - \$25 K
		Timeframe	2023
SEVERE WEATHER - CURRENT RESIDENTS/PROPERTY	Protect Life Safety and Property Damage of Residential Buildings through applicable architecture and retrofits	NFIP compliant?	N/A
SEVERE WEATHER - CURRENT RESIDENTS/PROPERTY	Provide Weather-Related Information through Print Broadcast and Social Media	Priority	High
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	County
		Estimated Cost	\$0 - \$25 K
		Timeframe	2022
SEVERE WEATHER - CURRENT RESIDENTS/PROPERTY	Reducing Impacts of Wind Hail Lightning through structural projects i.e. windbreaks	NFIP compliant?	N/A
SEVERE WEATHER - CURRENT RESIDENTS/PROPERTY	Retrofit Public Buildings and Critical Facilities/Infrastructure (specify below in comments)	NFIP compliant?	N/A
SEVERE WEATHER - CURRENT RESIDENTS/PROPERTY	Review and/or Develop Codes Ordinances and Policies	NFIP compliant?	N/A
SEVERE WEATHER - CURRENT RESIDENTS/PROPERTY	Use natural environmental features as wind buffers in site design	NFIP compliant?	N/A

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Hazard	Strategy	Strategy Informational Categories	Details
SEVERE WEATHER - FUTURE RESIDENTS/PROPERTY	Conduct Outreach Activities Increase and Public Awareness (specify below in comments)	Priority	Medium
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	\$0 - \$25 K
		Timeframe	2023
SEVERE WEATHER - FUTURE RESIDENTS/PROPERTY	Protect Life Safety and Property Damage of Residential Buildings through applicable architecture and retrofits	NFIP compliant?	N/A
SEVERE WEATHER - FUTURE RESIDENTS/PROPERTY	Provide Weather-Related Information through Print Broadcast and Social Media	Priority	High
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	County
		Estimated Cost	\$0 - \$25 K
		Timeframe	2022
SEVERE WEATHER - FUTURE RESIDENTS/PROPERTY	Reducing Impacts of Wind Hail Lightning through structural projects i.e. windbreaks	NFIP compliant?	N/A
SEVERE WEATHER - FUTURE RESIDENTS/PROPERTY	Retrofit Public Buildings and Critical Facilities/Infrastructure (specify below in comments)	NFIP compliant?	N/A
SEVERE WEATHER - FUTURE RESIDENTS/PROPERTY	Review and/or Develop Codes Ordinances and Policies	NFIP compliant?	N/A
SEVERE WEATHER - FUTURE RESIDENTS/PROPERTY	Use natural environmental features as wind buffers in site design	NFIP compliant?	N/A
TORNADO - CURRENT RESIDENTS/PROPERTY	Appropriate engineering controls (such as deflection structures) are designed and installed to mitigate the hazard	NFIP compliant?	N/A
TORNADO - CURRENT RESIDENTS/PROPERTY	Conduct Outreach Activities to Increase Awareness of Tornado Risk (Specify below in comments)	NFIP compliant?	N/A
TORNADO - CURRENT RESIDENTS/PROPERTY	Develop an tornado codes or regulation prohibiting or limiting structures in known tornado areas	NFIP compliant?	N/A
TORNADO - CURRENT RESIDENTS/PROPERTY	Encourage Construction of Safe Rooms (Specify below in comments)	NFIP compliant?	N/A
TORNADO - CURRENT RESIDENTS/PROPERTY	Require Wind-Resistant Building Techniques	NFIP compliant?	N/A
TORNADO - CURRENT RESIDENTS/PROPERTY	Require Wind-Resistant Building Techniques	NFIP compliant?	N/A
TORNADO - FUTURE RESIDENTS/PROPERTY	Appropriate engineering controls (such as deflection structures) are designed and installed to mitigate the hazard	NFIP compliant?	N/A

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TORNADO - FUTURE RESIDENTS/PROPERTY	Conduct Outreach Activities to Increase Awareness of Tornado Risk (Specify below in comments)	NFIP compliant?	N/A
TORNADO - FUTURE RESIDENTS/PROPERTY	Develop an tornado codes or regulation prohibiting or limiting structures in known tornado areas	NFIP compliant?	N/A
TORNADO - FUTURE RESIDENTS/PROPERTY	Encourage Construction of Safe Rooms (Specify below in comments)	NFIP compliant?	N/A
TORNADO - FUTURE RESIDENTS/PROPERTY	Require Wind-Resistant Building Techniques	NFIP compliant?	N/A
TORNADO - FUTURE RESIDENTS/PROPERTY	Require Wind-Resistant Building Techniques	NFIP compliant?	N/A
WILDFIRE - CURRENT RESIDENTS/PROPERTY	Address density and quantity of development as well emergency access landscaping and water supply	Priority	Medium
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	County
		Estimated Cost	\$0 - \$25 K
		Timeframe	2022
WILDFIRE - CURRENT RESIDENTS/PROPERTY	Adopt and Enforce Building Codes and Development Standards	Priority	High
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	County
		Estimated Cost	\$25 K - \$50 K
		Timeframe	2022
WILDFIRE - CURRENT RESIDENTS/PROPERTY	Develop a community wildfire preparedness plan	Priority	High
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	County
		Estimated Cost	\$25 K - \$50 K
		Timeframe	2022
		Priority	High

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WILDFIRE - CURRENT RESIDENTS/PROPERTY	Develop wildfire and/or Wildland Urban Interface (WUI) codes or regulation prohibiting or limiting structures in known wildfire risk areas	NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	County
		Estimated Cost	\$0 - \$25 K
		Timeframe	2022
WILDFIRE - CURRENT RESIDENTS/PROPERTY	Educate Property Owners about Wildfire Mitigation Techniques (List specifics below in comments)	Priority	High
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	County
		Estimated Cost	\$0 - \$25 K
WILDFIRE - CURRENT RESIDENTS/PROPERTY	Ensure newly constructed government-owned facilities are code compliant for wildfire hazards and promote the use of enhanced wildfire mitigation practices	Priority	High
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	County
		Estimated Cost	\$0 - \$25 K
WILDFIRE - CURRENT RESIDENTS/PROPERTY	Implement a Fuels Management Program	Priority	High
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	County
		Estimated Cost	\$25 K - \$50 K
		Priority	High

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WILDFIRE - CURRENT RESIDENTS/PROPERTY	Include considerations of wildfire hazards in land use public safety and other processes	NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	County
		Estimated Cost	\$25 K - \$50 K
		Timeframe	2022
WILDFIRE - CURRENT RESIDENTS/PROPERTY	Mandate wildfire planning be incorporated into development and land use planning	Priority	High
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	County
		Estimated Cost	\$0 - \$25 K
WILDFIRE - CURRENT RESIDENTS/PROPERTY	Mitigate Against Post-Wildfire Flooding via structural projects in drainage areas	Priority	High
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	County
		Estimated Cost	\$0 - \$25 K
WILDFIRE - CURRENT RESIDENTS/PROPERTY	Participate in Firewise Program	Priority	High
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	County
		Estimated Cost	\$0 - \$25 K
		Priority	Medium

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WILDFIRE - CURRENT RESIDENTS/PROPERTY	Promote conservation of open space or wildland-urban boundary zones to separate developed areas from high-hazard areas	NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	County
		Estimated Cost	\$0 - \$25 K
		Timeframe	2022
WILDFIRE - CURRENT RESIDENTS/PROPERTY	Set guidelines for annexation and service extensions in high-risk areas	Priority	Medium
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	County
		Estimated Cost	\$25 K - \$50 K
WILDFIRE - CURRENT RESIDENTS/PROPERTY	Structural and defensible space requirements	Priority	High
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	County
		Estimated Cost	\$25 K - \$50 K
WILDFIRE - CURRENT RESIDENTS/PROPERTY	Use zoning and/or a special wildfire overlay district to designate high-risk areas and specify the conditions for the use and development of specific areas	Priority	Medium
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	County
		Estimated Cost	\$0 - \$25 K
		Priority	High

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Hazard	Strategy	Strategy Informational Categories	Details
WILDFIRE - FUTURE RESIDENTS/PROPERTY	Address density and quantity of development as well emergency access landscaping and water supply	NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	City
		Estimated Cost	\$0 - \$25 K
		Timeframe	2023
WILDFIRE - FUTURE RESIDENTS/PROPERTY	Adopt and Enforce Building Codes and Development Standards	Priority	High
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	County
		Estimated Cost	\$0 - \$25 K
WILDFIRE - FUTURE RESIDENTS/PROPERTY	Develop a community wildfire preparedness plan	Priority	High
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	County
		Estimated Cost	\$0 - \$25 K
WILDFIRE - FUTURE RESIDENTS/PROPERTY	Develop wildfire and/or Wildland Urban Interface (WUI) codes or regulation prohibiting or limiting structures in known wildfire risk areas	Priority	High
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	City
		Estimated Cost	\$0 - \$25 K
		Priority	Medium

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WILDFIRE - FUTURE RESIDENTS/PROPERTY	Educate Property Owners about Wildfire Mitigation Techniques (List specifics below in comments)	NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	County
		Estimated Cost	\$0 - \$25 K
		Timeframe	2024
WILDFIRE - FUTURE RESIDENTS/PROPERTY	Ensure newly constructed government-owned facilities are code compliant for wildfire hazards and promote the use of enhanced wildfire mitigation practices	Priority	High
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	City
		Estimated Cost	\$0 - \$25 K
WILDFIRE - FUTURE RESIDENTS/PROPERTY	Implement a Fuels Management Program	Priority	Medium
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	County
		Estimated Cost	\$0 - \$25 K
WILDFIRE - FUTURE RESIDENTS/PROPERTY	Include considerations of wildfire hazards in land use public safety and other processes	Priority	High
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	County
		Estimated Cost	\$0 - \$25 K
		Priority	High

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Hazard	Strategy	Strategy Informational Categories	Details
WILDFIRE - FUTURE RESIDENTS/PROPERTY	Mandate wildfire planning be incorporated into development and land use planning	NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	County
		Estimated Cost	\$0 - \$25 K
		Timeframe	2023
WILDFIRE - FUTURE RESIDENTS/PROPERTY	Mitigate Against Post-Wildfire Flooding via structural projects in drainage areas	Priority	High
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	County
		Estimated Cost	\$0 - \$25 K
		Timeframe	2024
WILDFIRE - FUTURE RESIDENTS/PROPERTY	Participate in Firewise Program	Priority	Medium
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	County
		Estimated Cost	\$0 - \$25 K
		Timeframe	2023
WILDFIRE - FUTURE RESIDENTS/PROPERTY	Promote conservation of open space or wildland-urban boundary zones to separate developed areas from high-hazard areas	Priority	High
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	County
		Estimated Cost	\$0 - \$25 K
		Timeframe	2022
		Priority	High

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Hazard	Strategy	Strategy Informational Categories	Details
WILDFIRE - FUTURE RESIDENTS/PROPERTY	Set guidelines for annexation and service extensions in high-risk areas	NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	City
		Estimated Cost	\$0 - \$25 K
		Timeframe	2022
WILDFIRE - FUTURE RESIDENTS/PROPERTY	Structural and defensible space requirements	Priority	Medium
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	FEMA
		Responsible Entity	County
		Estimated Cost	\$0 - \$25 K
WILDFIRE - FUTURE RESIDENTS/PROPERTY	Use zoning and/or a special wildfire overlay district to designate high-risk areas and specify the conditions for the use and development of specific areas	Priority	High
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	City
		Estimated Cost	\$0 - \$25 K
		Timeframe	2022